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**2021 SOIL SAMPLING PROGRAM REPORT
HAMBLETON WEST GRID
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 29, 2021 - April 14, 2022**

for

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

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Executive Summary

As follow-up to an 2018 soil sample survey conducted over the Hambleton East grid, including recommendation provided by Simon Griffiths, Third Planet Exploration Services Ltd., a 712 soil sample program was conducted over the Hambleton West grid. This work was performed by the Haveman Brothers Forestry Services Ltd. on behalf of Harte Gold Corporation between September 29 and October 09, 2021. The objective of the survey was to identify areas of precious and base metal mineralization.

These Hambleton West grid occurs on the Sugar Zone property (“the Property”) located in the Dayohessarah Lake area, north of White River, Ontario.

The total cost of the soil survey conducted at the Hambleton West grid amounted to \$75,106. A total of 714 samples were collected all of which are being filed for assessment credit.

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

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

1.0 Introduction

The Hambleton West grid is a potential gold-bearing zone identified on Harte Gold’s Sugar Zone property. The property is in the Dayohessarah Greenstone Belt (“DGB”). This greenstone belt is part of the larger, east-trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton. The Hambleton West grid is located along strike and 6.5 km northwest of the Sugar Zone deposit.

This report was written from April 11, 2022 to April 14, 2022.

The Hambleton West grid survey is covered by Exploration Permit PR-18-000297.

All UTM coordinates are in NAD 83, Zone 16 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 mineralized gold occurrences are exposed at Latitude 48°48’ north, Longitude 85°10’ west. The property covers parts of the Odlum, 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 floatplane, based in White River via Dayohessarah Lake or Hambleton Lake, and by helicopter based in Wawa or Marathon.

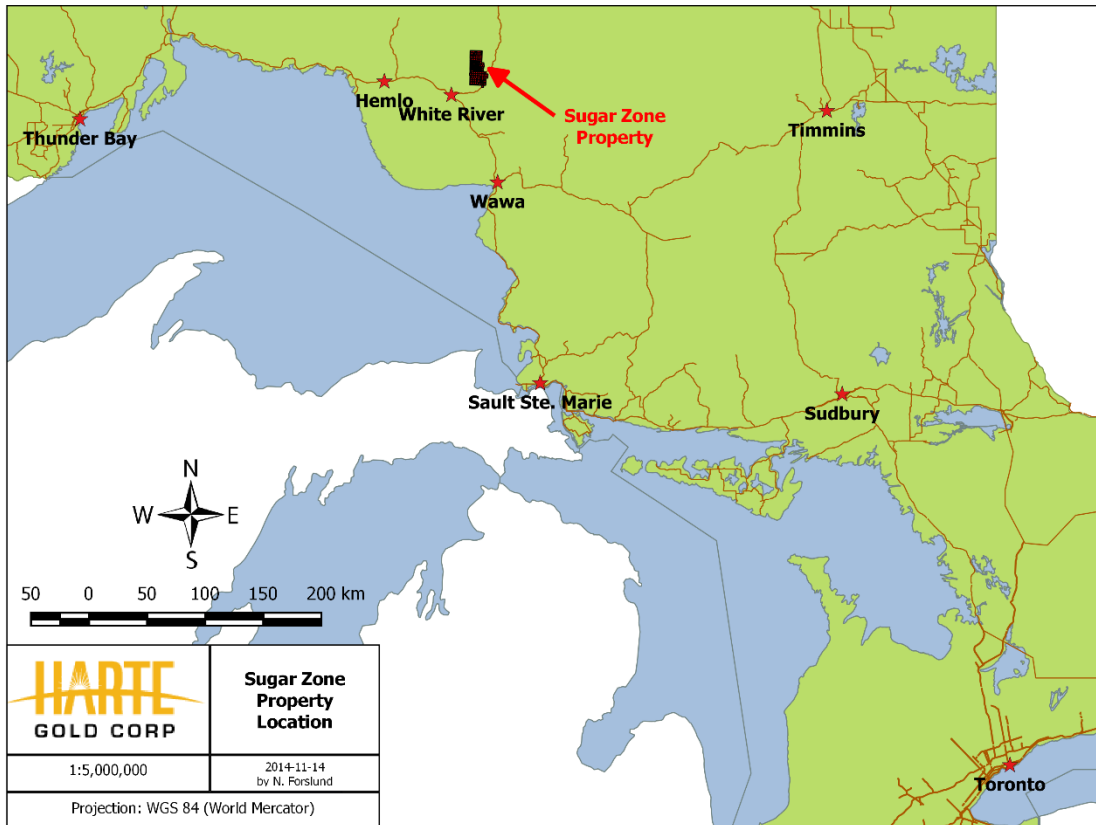


Figure 1 – Property Location

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 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 Hambleton West grid are shown in Figure 2.

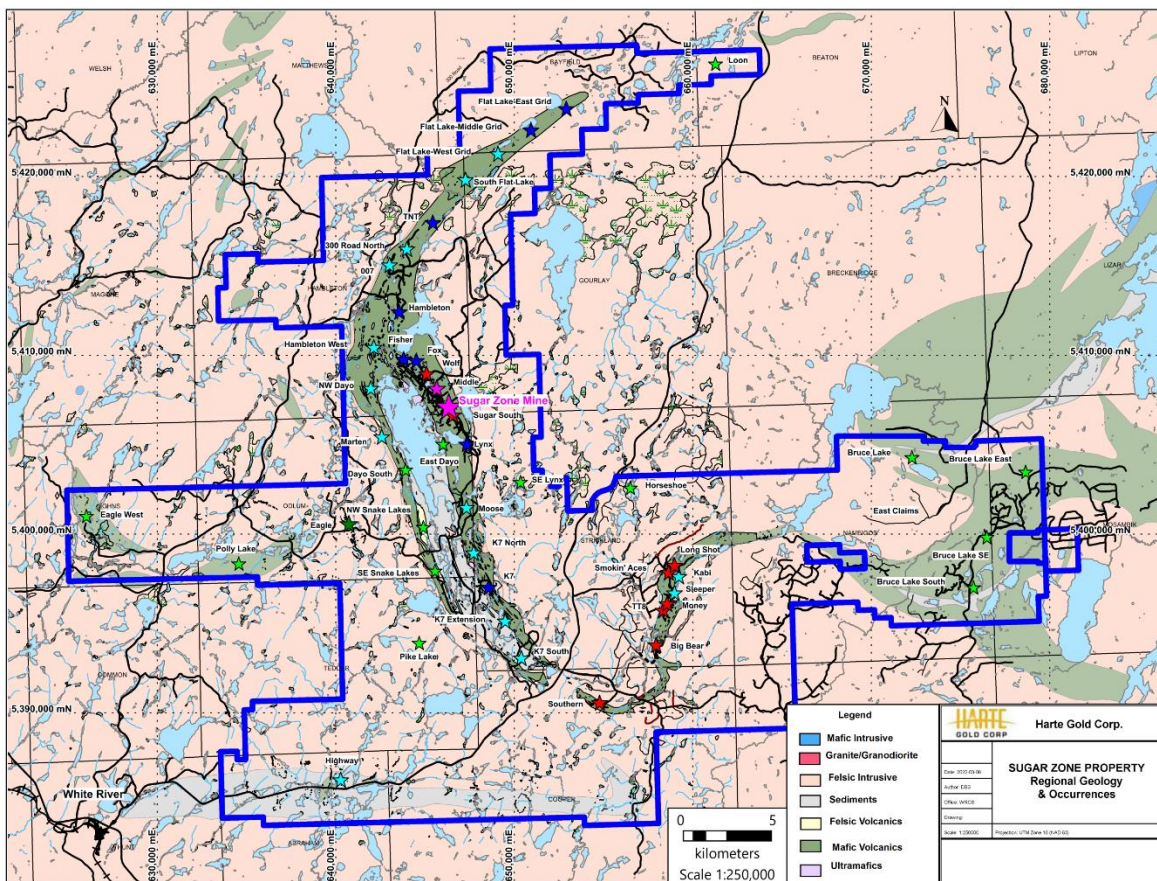


Figure 1 - Claim Position and Showings

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 entirely 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 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.

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

3.0 Historical Work

Exploration for gold and base metals has been conducted on the Dayohessarah property since 1969. After over 10 years of very little work, exploration started to pick up on the property again in 1983, after the discovery of the Hemlo Gold camp. A complete timeline of mineral exploration on the DGB is presented below.

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

1983-1986 Pezamerica Resources Limited conducted an exploration program which included an airborne Mag and EM survey that outlined thirty-one (31) geophysical anomalies in the area. Twenty-four (24) of these anomalies were investigated by Teck Exploration on behalf

of Pezamerica. Teck Exploration drilled nine airborne geophysical targets based on coincidental soil gold anomaly trends. In all cases, the airborne anomalies were explained by pyrite/pyrrhotite rich horizons within felsic volcanics. Hole PZ-6 returned appreciable amounts of sphalerite mineralization (0.47% Zn over 2.8 feet). None of the assayed core returned significant gold values.

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

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

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 totalling 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, totalling 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 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 totalling 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 the 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 spring 1999, following additional data evaluation (Drost et al., 1998).

2003-2004 Corona conducts a diamond drilling program totalling 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 totalling 3,588 m in 11 holes. The program is successful in increasing the mineralization extent of the Sugar Zone, as well as increasing the defined Sugar Zone depth to a vertical depth of 300 m. A new Mineral Resource estimate was completed.

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

2009 During March, Corona undertook a drilling program totalling 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 totalling 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 the 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 totalling 20,475 meters. Chargeability from the survey outlines a potential zone north of the Peacock Boulder discovery of 2009. 5 Trenches totalling 1,850 square meters were completed over and around the newly discovered Wolf Zone.

A total of 5,387.94 m of diamond drilling totalling 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 totalling 60,800 meters were completed over the fold nose near the north end 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, 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 five 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 totalled 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 totalled 302 line-km of data over the northern parts of Dayohessarah Lake and western parts of Hambleton Lake and the shoreline. The 2012 program totalled 1,153 line-km of data essentially covering the rest of the Dayohessarah Greenstone Belt.

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 micro-textures 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 with 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 0.56g/t Au to 162g/t Au.

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

Two holes totalling 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 0.73g/t.

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

An additional 17 diamond drill holes totalling 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 2.77g/t Au to 28.5g/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 to test this high-grade portion of the Sugar Zone deposit. The JBZ lies close to the 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 to find 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

During the year the Company raised an aggregate of \$50 million under bought deal private placements and received \$5,063,163 from the exercise of investor and finders warrants and stock options. Funds were used to complete the Company's 70,000-tonne Advanced Exploration Bulk Sample, underground development work associated with the Company's 30,000 Phase I Commercial Permit, mill construction and general corporate purposes.

Harte Gold completed the 70,000-tonne Advanced Exploration Bulk Sample in March 2017 under which it shipped a total of 67,425 dry tonnes at an average grade of 8.28 grams/tonne to Barrick Inc.'s nearby Hemlo Mill for processing. Harte Gold realized approximately \$27 million from the advanced exploration bulk sample, which funds were re-invested in the Sugar Zone project.

Harte Gold received a Phase I - 30,000-tonne commercial permit in January 2017. The Phase I program is situated towards the south end of the Sugar Zone Deposit and required the development of a ramp from the Advanced Exploration Bulk Sample at the north end of the Deposit to provide access. Harte Gold established five mining levels and excavated 30,000 tonnes of development ore. The development ore is stockpiled on the surface and will serve as the initial feed for the on-site Mill under Phase II Commercial Permits anticipated in June 2018.

In February 2017 Harte Gold submitted a Notice of Material Change (“NOMC”) and subsequently received approval to build the Mill Building and install the crusher, ball mill, gravity concentrator, float concentrate circuit, paste back-fill plant, effluent treatment plant and other ancillary items associated with the on-site milling process. As of the date hereof construction is well advanced and on schedule for completion in June 2018.

Harte Gold received location approval for its tailing’s management facility (“TMF”) and commenced preconstruction clearing completed the installation of the west dam. Harte Gold sought and received confirmation from the Canadian Environmental Assessment Agency that no federal environmental assessment applies to the project.

Harte Gold submitted a Draft Closure Plan Amendment (“CPA”) to the MNDM which CPA provides for full commercial production, on-site milling and the operation of the TMF. Harte Gold is working with the MNDM and MOECC to finalize all outstanding permits to begin commissioning the mill in June and production in July.

Harte Gold was also very active with its exploration programs; Harte Gold completed approximately 80,000 meters of drilling during the year. Drill programs focused on:

Moving that portion of the Sugar Zone Deposit between surface and 500m from the inferred resource category to the indicated category. Increasing the number of contained ounces within the newly discovered Middle Zone. Testing for Wolf Zone extensions at depth and other targets along strike.

A regional airborne geophysical survey was also undertaken which resulted in the definition of new exploration targets within and outside the Sugar Zone Property. As a result of this survey Harte Gold staked an additional ground to cover a greenstone belt and other targets, to bring the total property package to 79,335 hectares.

2018

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

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

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

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

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

Underground development continues at the Sugar Zone North and South ramps. During September, the average advance rate of 8 meters per day was ahead of plan. The installation of critical underground infrastructure to support ventilation, power and pumping has been completed. In addition, the mine return air ventilation fan was successfully installed and the transition to grid power for the majority of 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 submit an application 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 a number of 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 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 Au 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 like 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 biotitization, weak carbonatization and moderate to strong silicification which accompanied the emplacement of the porphyry dykes/sills and quartz veining.

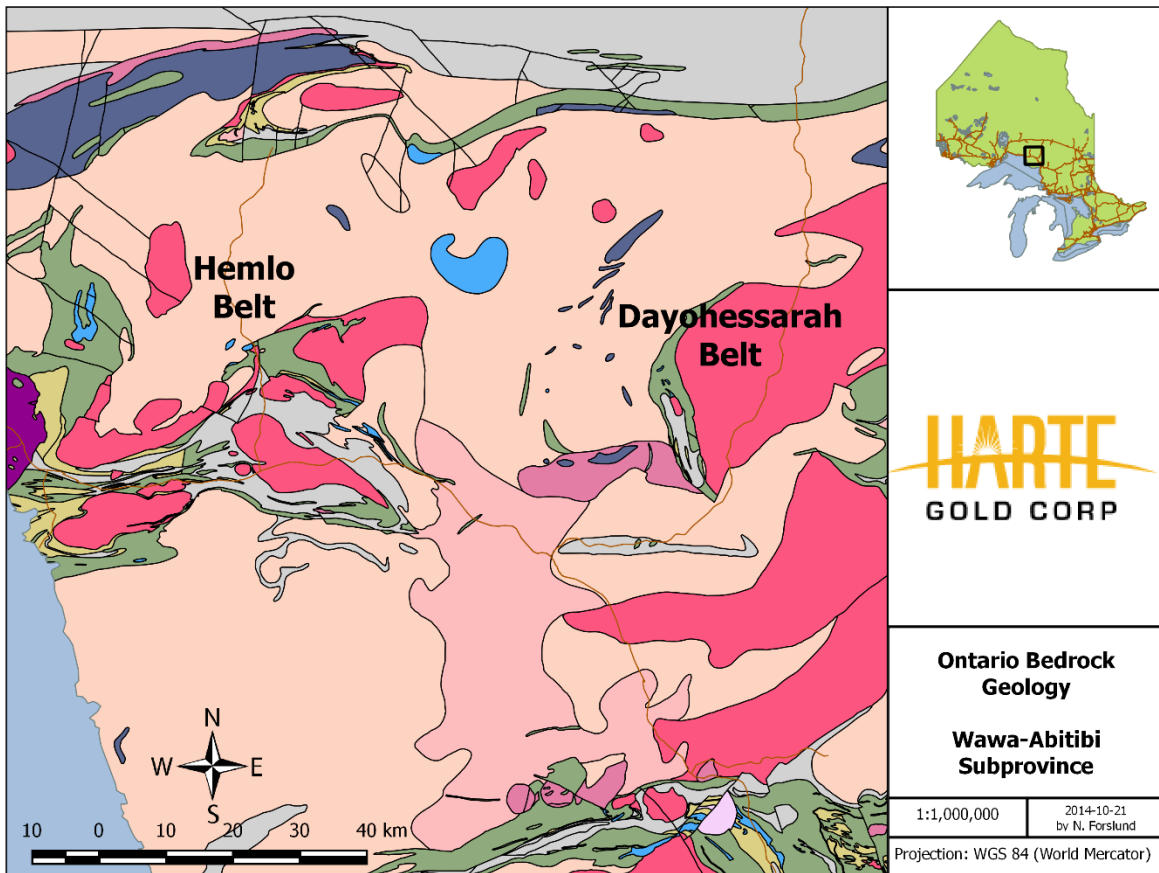


Figure 2 - Regional Geology

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

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

4.2 Property Geology

Near Dayohessarah Lake, the belt is dominated by a basal sequence of massive to pillowed mafic volcanics, commonly with ellipsoidal, bleached alteration pods, overlain by intermediate

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

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

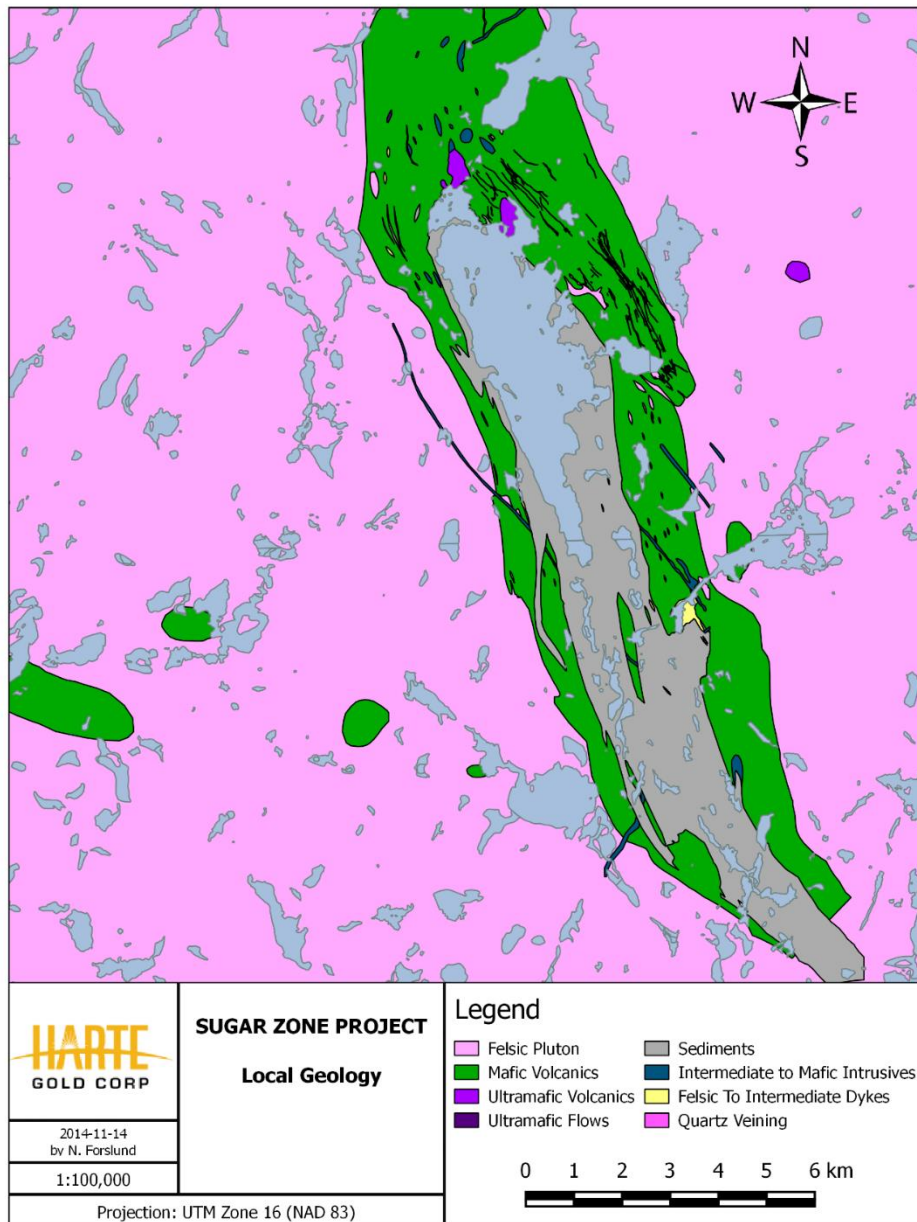


Figure 3: Local geology

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

Upper Zone. Other than this unit, specific mafic flows, as well as intermediate porphyry units, are nearly impossible to interpret/distinguish between holes.

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

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

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

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

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 biotitization. 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.

6.0 2021 Soil Geochemical Sampling Program

Soil sample results are summarized in a table found in Appendix B. Actlabs assay certificates, which include results for all soil samples as well as standards, blanks and duplicates, are found in Appendix C. Invoices from the Haveman Brothers are found in Appendix D. All Actlabs assay costs are included in the Haveman Brothers invoice.

6.1 Sampling method

Sampling location coordinates were recorded with a handheld GPS and subsequently downloaded into a database. Spacing between sampling locations (25m) and sampling lines (100m) provides sufficient data density for gold exploration. Sampling lines were extended far enough into background so as to provide proper resolution. A total of 1365 samples were collected along 31.8 km of lines traversed.

The Haveman Brothers crew was instructed with a sampling protocol to sample ~10 cm into the B horizon, where practical. Detailed field notes were taken during the sampling program, (i.e.: sampling depth, thicknesses of soil horizons, presence of bedrock, topography, etc.) in order to assist interpretation and review geochemical data. When considering the variability in sampling horizon and depth, there is no appreciable impact upon the geochemical patterns. Field notes play an integral role in validating geochemical data. Factors such as topography, potential contamination, etc., need to be taken into account as potential sources of spurious anomalies.

During the sampling season, active exploration was on-going, with numerous drills in operation. Sampling stations were moved if there was believed potential for contamination from disturbance of soil or drilling activity (i.e.: drill cuttings, etc.).

The photograph in Figure 5 is representative of most soil profiles encountered during the Hambleton Zone sampling program. The B horizon is sought for sampling as it provides a more suitable media than other horizons, (i.e.: reproducibility, etc.). Field crews used aluminum bladed trowels to gather samples as the amount of contamination from the trowel is negligible.

Trowel blades were cleaned prior to sampling in order to prevent the potential of contamination from sample carryover. Samples were taken from sidewalls to eliminate potential contamination from material of other horizons mixing with the B horizon. Ziploc plastic freezer bags (26.8 cm x 27.3 cm) were used as sample bags for the entire program. Damp or wet samples had moisture or standing water squeezed out to reduce sample weight. All samples were air dried indoors in a closed room for a period of 2-3 days prior to shipping to reduce moisture content.

A total of 714 B horizon soil samples were collected and 16.8 km was covered during the program.



Figure 4 Typical soil horizons found in the Hambleton West Grid

7.0 2021 Sample Collection, Preparation, Analyses and Security

7.1 Activation Laboratories

Laboratory Analysis

Activation Laboratories Limited (“Actlabs”) performed the sample preparation and geochemical analysis on samples from the Hambleton survey. Prior to analysis, sample preparation consisted of drying and screening down to 75 microns (200 mesh). The Actlabs analytical methods used were, (i) Code 1H (Au+49) which uses a combination of Instrumental Neutron

Activation Analysis ("INAA") and a multi-acid digest with an Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) analytical finish, and (ii) Code 2B – INAA for vegetation samples.

With these methods both major and trace elements are determined by INAA and TD-ICP. Some elements should be considered semi-quantitative due to sample mineralogy with the potential for low recoveries and bias. Multi-acid procedures such as the TD-ICP portion of 1H are aggressive and provide 'near-total' results. Results from these analyses are plotted and reviewed so that patterns in the soil geochemistry can be used to complement other exploration techniques.

Bulletins from Actlabs' website provide the technical details of Codes 1H and 2B.

Code 1H - INAA + 4-Acid Digestion/ICP

A 30 g sample is analyzed by INAA and with a four acid digestion followed by ICP analysis.

INAA

INAA is an analytical technique dependent on measuring gamma radiation induced in the sample by irradiation with neutrons. The primary source of neutrons for irradiation is usually a nuclear reactor. Each activated element emits a "fingerprint" of gamma radiation which can be measured and quantified.

A 30 g aliquot, if available, is encapsulated in a polyethylene vial and irradiated with flux wires and an internal standard (1 for 11 samples) at a thermal neutron flux of $7 \times 10^{12} \text{ n cm}^{-2} \text{ s}^{-1}$. After a 7-day period, to allow Na-24 to decay, the samples are counted on a high purity Ge detector with resolution of better than 1.7 KeV for the 1332 KeV Co-60 photopeak. Using the flux wires, the decay-corrected activities are compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy and is not used for calibration purposes. From 10-30 % of the samples are rechecked by re-measurement. For values exceeding the upper limits, assays are recommended. One standard is run for every 11 samples. One blank is analyzed per work order. Selected duplicates are analyzed when enough material is submitted.

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. This is then 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 5,000 ppm should be assayed as high levels may not be solubilized. Only sulphide sulfur will be solubilized.

The samples are then analyzed using an Agilent 735 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 area of instrumental drift.

Code 2B - Vegetation – INAA

Ground vegetation samples weighing 6 to 15 g are compressed under 30 tons of pressure to form a briquette (smaller samples are weighed in vials). Briquettes are stacked with flux wires and an internal standard (1 for 29 samples) and irradiated at a thermal flux of $7 \times 10^{12} \text{ n cm}^{-2} \text{ s}^{-1}$ for 15 minutes. After a 7-day period, to allow Na-24 to decay, the samples are counted on a high purity Ge detector with resolution of better than 1.7 KeV for the 1332 KeV Co-60 photopeak. Using the flux wires, the decay-corrected activities are compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy and is not used for calibration purposes. From 10-30% of the samples are rechecked by re-measurement. For values exceeding the upper limits, assays are recommended. One standard is analyzed for every 29 samples. Duplicates are analyzed when provided.

Required Prep: Code B2 (drying and macerating vegetation in a Retsch mill with sieving to 1mm)

Data Processing and Plotting

Data from the Hambleton survey was plotted using the Point Ranges of Various Sizes option in the Thematic Map theme in MapInfo Pro/Discover, ver. 16. The data presentation in this report is based on raw data with a suitable ppb or ppm range interval chosen to enhance what was considered reasonable anomalous trends based on background data values.

7.2 QA-QC – Summary

A thorough review of blanks, standards and duplicates (field and analytical) demonstrates the analytical data from the datasets is suitable for use, as observed variability is within acceptable limits which is not a hindrance to interpretation.

QA-QC – Blanks

Based on a review of the analytical blanks, there is no apparent contamination within the laboratory to impact the samples. As a result of this, geochemical responses will not be adversely affected by contamination.

QA-QC – Standards

Based on a review of the laboratory standards and those inserted by the Haverman Brothers, there is a good overall agreement for recommended and accepted values and across other elements.

QA-QC – Field Duplicates

Based on a review of the field duplicates, there is a good overall correlation, which implies the data is reproducible. Field duplicates are collected as sample pairs to determine whether it is possible to reproduce analytical results in the following sample.

QA-QC – Analytical Duplicates

Based on a review of analytical duplicates, there is good overall correlation which allows for an evaluation of the ability to reproduce values across a wide range (sub ppb to hundreds of ppm) of concentration.

8.0 Results

Advance statistical techniques were not used for the interpretation. A visual approach was used, where raw values were plotted within suitable ppb or ppm range intervals chosen to enhance what was considered reasonable anomalous trends based on background data values. The cooler colors (black, blue, green) represent lower concentrations while warmer colors (red, magenta) represent higher concentrations. Geochemical patterns were interpreted based on morphology (enrichment, depletion, linear, etc.) and spatial association with other elements. The key to interpretation is recognition of patterns rather than absolute concentrations. A spatially associated multi-element, multi-sample pattern provides more information to an interpretation than a single point extreme outlier. Element groupings that have relation to underlying geology, including geophysical anomalies, are used as the basis for the interpretation.

Soil sample number locations are shown in Figure 6. Figures 7 to 12 present the 6 key elements (Au, As, Cu, Pb, Zn and Ni) which are considered potential pathfinders to identifying areas of gold mineralization. The figures are plotted with black, blue, green, red and magenta circles denoting increasing metal concentration from black to magenta.

9.0 Conclusions and Recommendations

Based on the soil sample results three gold targets and one base metal target has been identified on the Hambleton West grid (Figure 13 and 14). These targets consist of single or multiple metals with anomalous values. Each target should be followed up on the ground with prospecting and, if warranted, ground geophysics and diamond drilling.

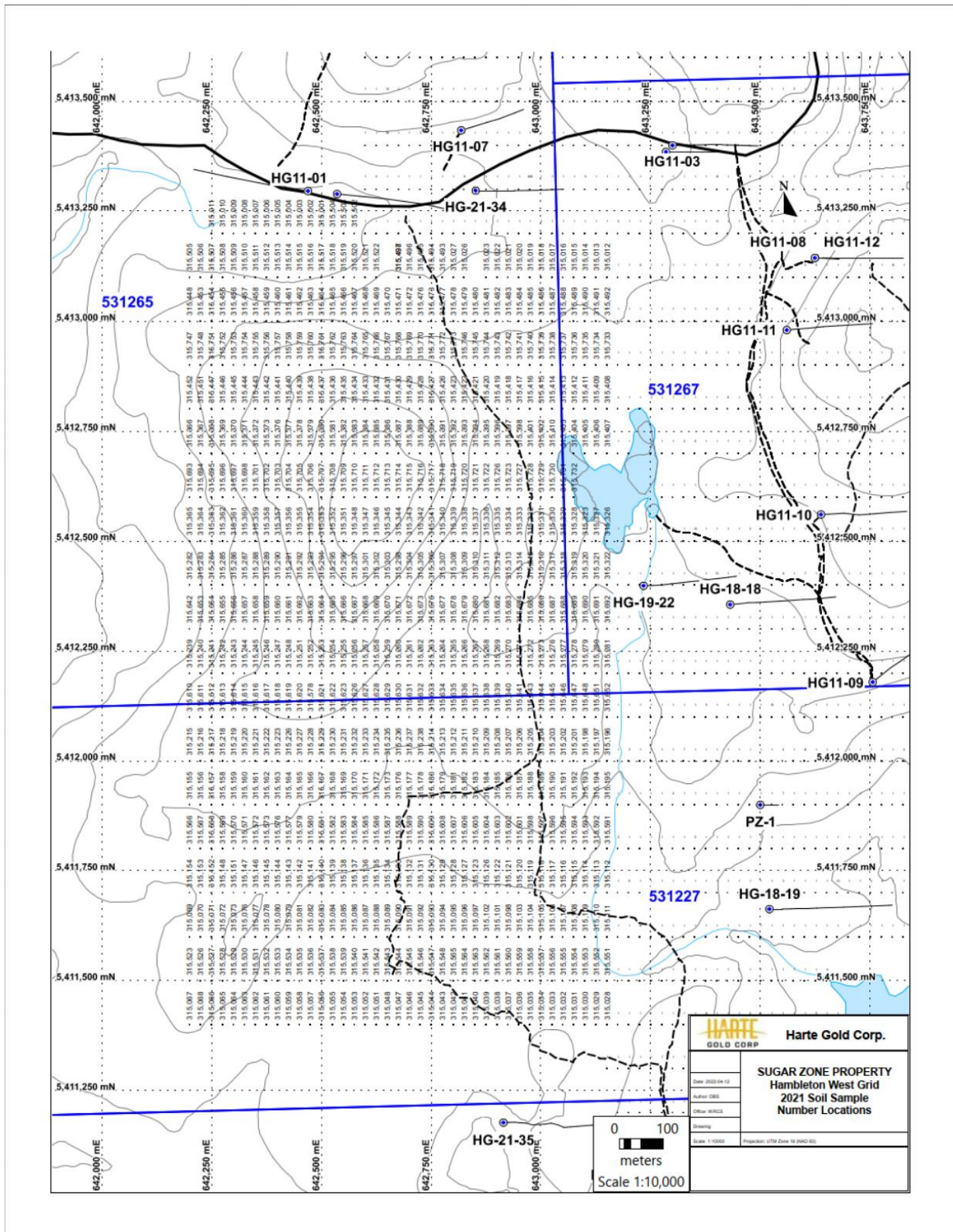


Figure 5 Soil Sample Number Locations

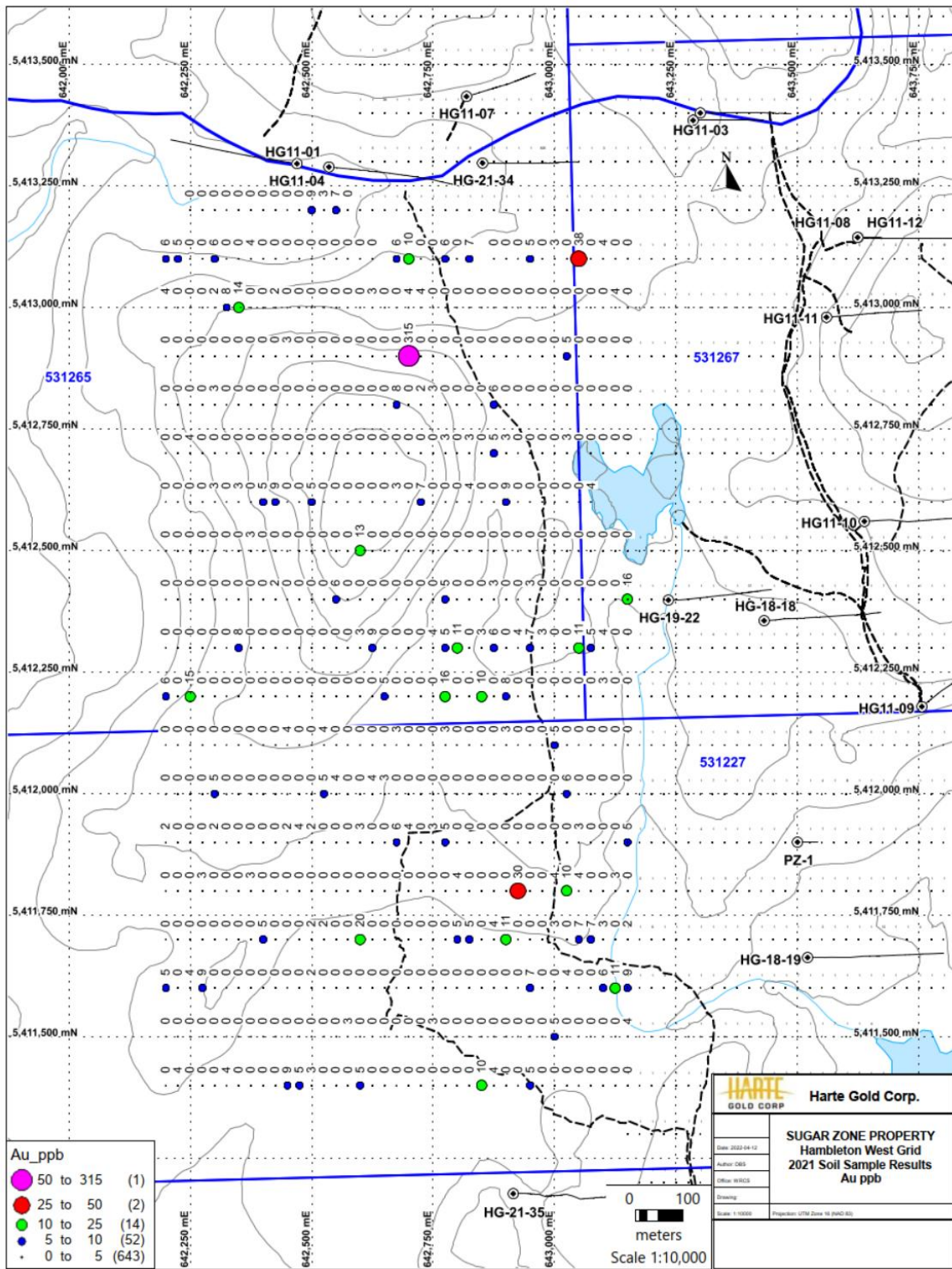


Figure 7 Gold ppb values in soil

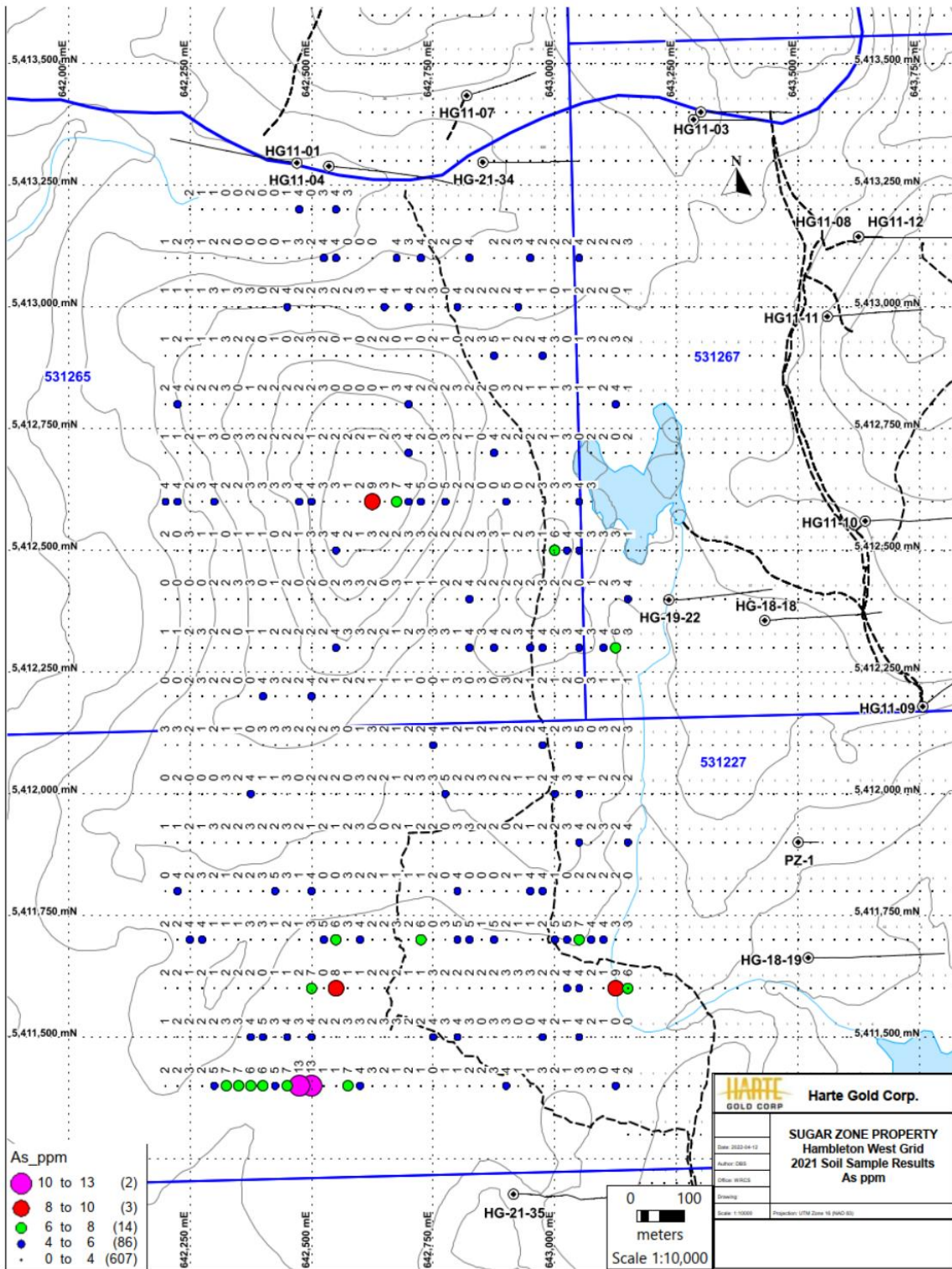


Figure 8 Arsenic ppm values in soil

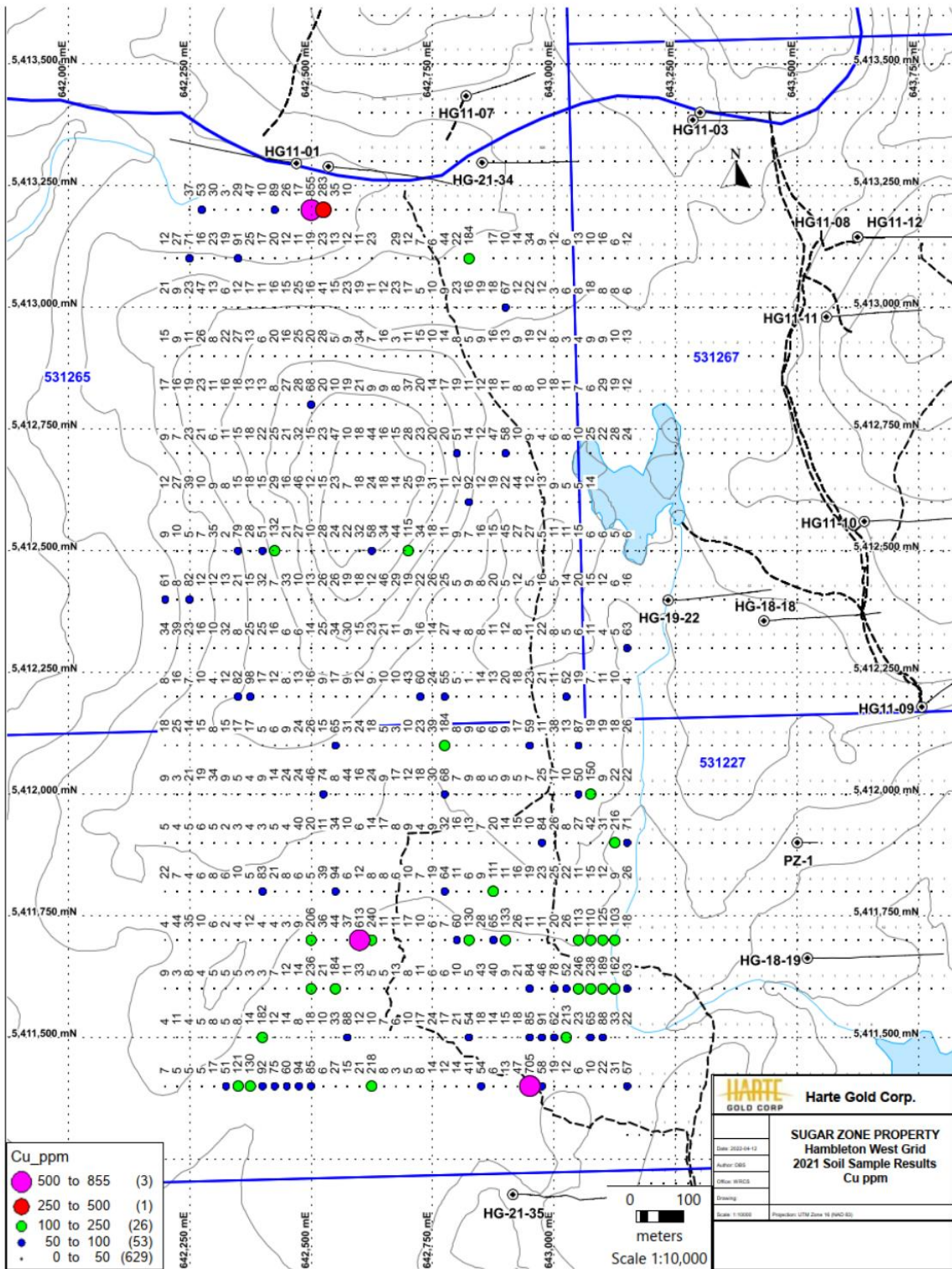


Figure 9 Copper ppm values in soil

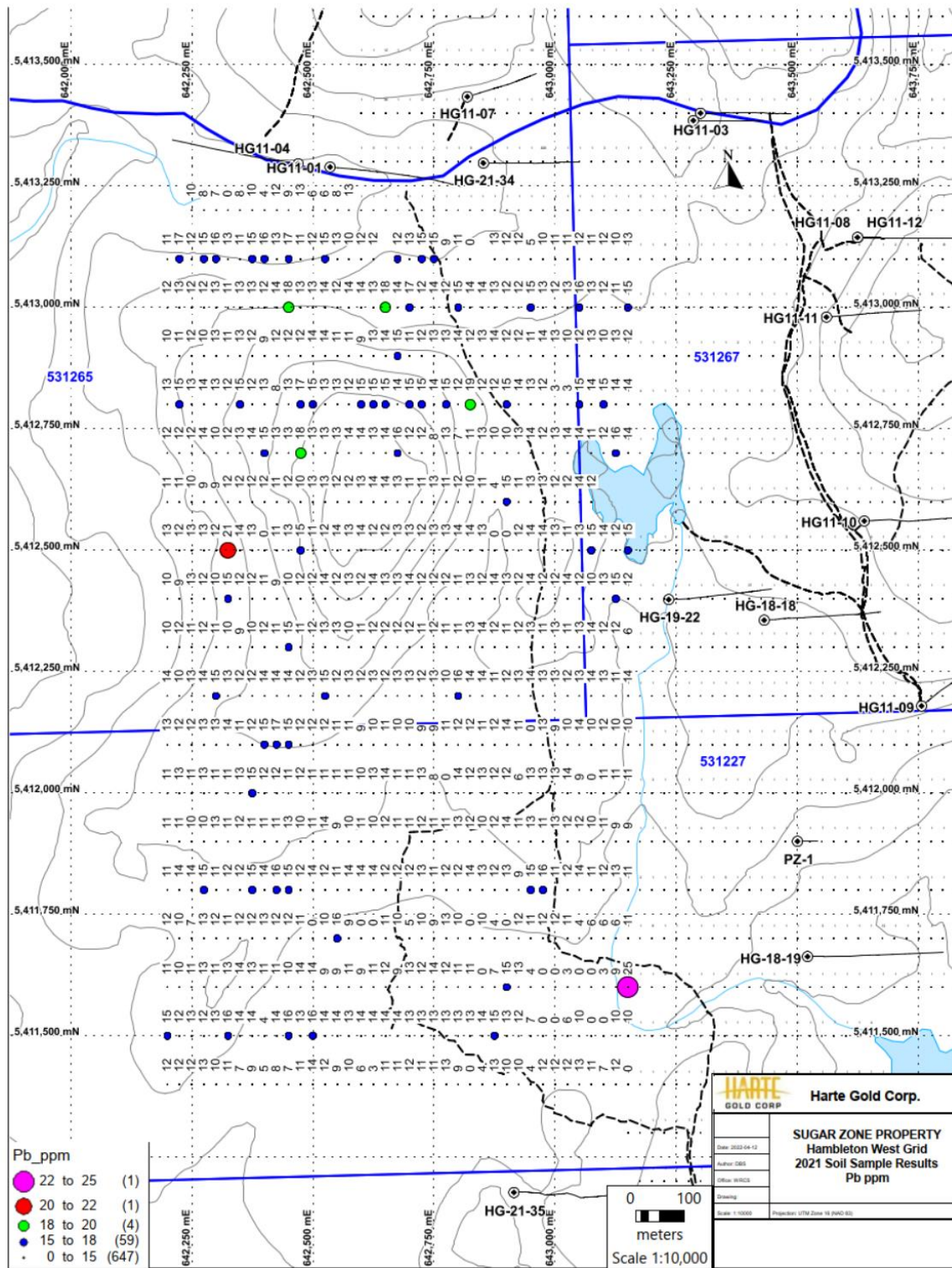


Figure 10 Lead ppm values in soil

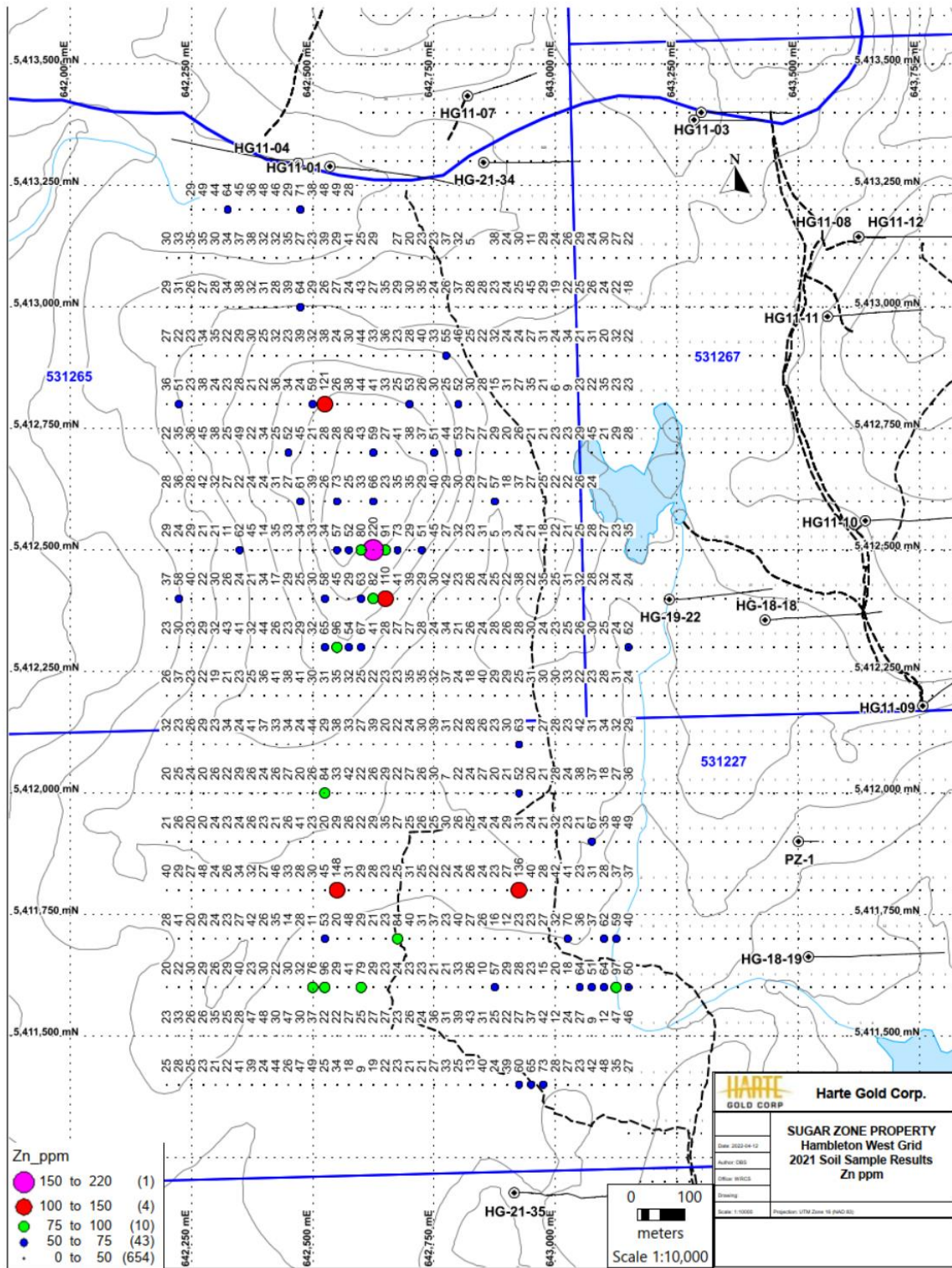


Figure 11 Zinc ppm values in soil

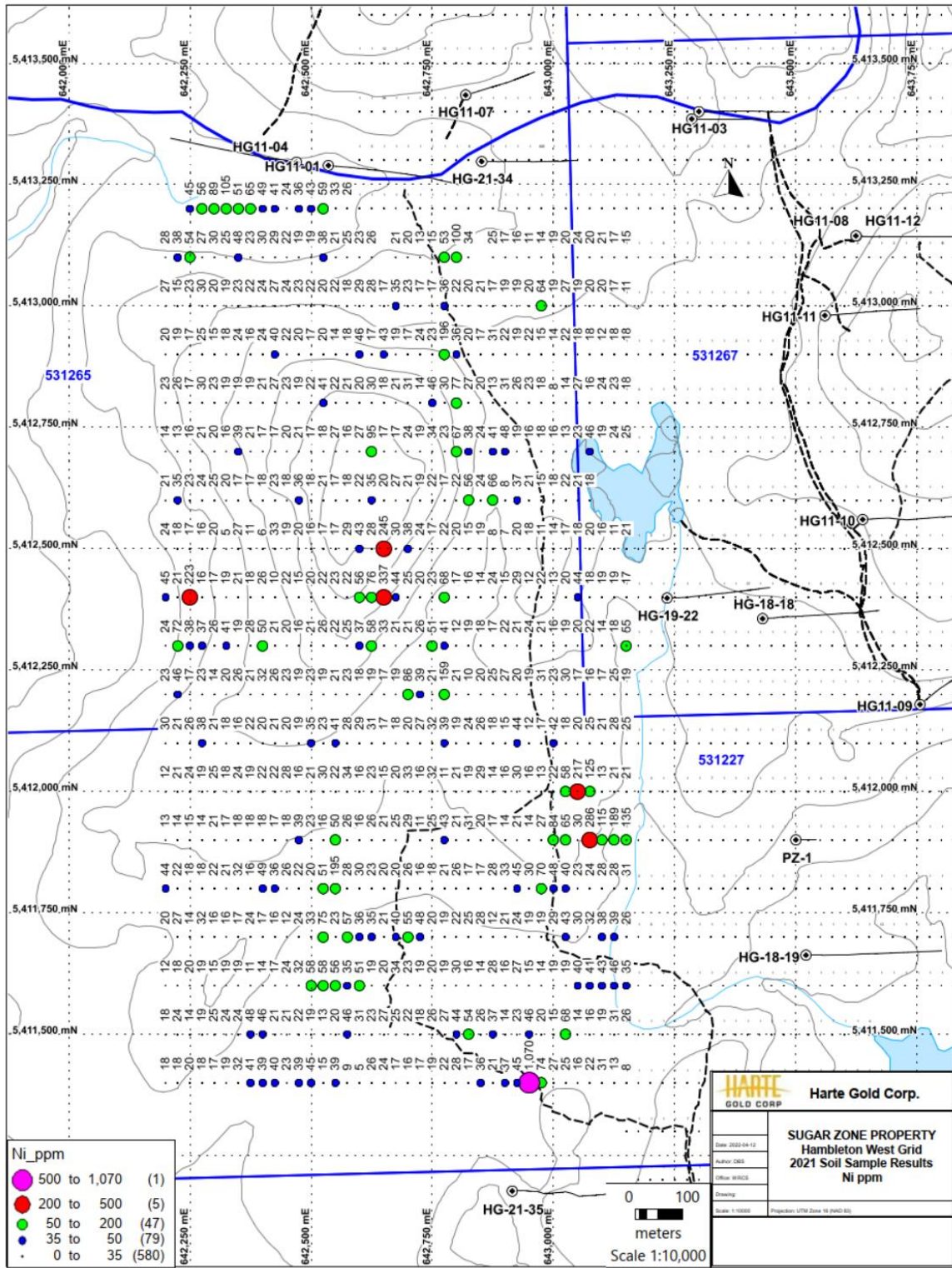


Figure 12 Nickel ppm values in soil

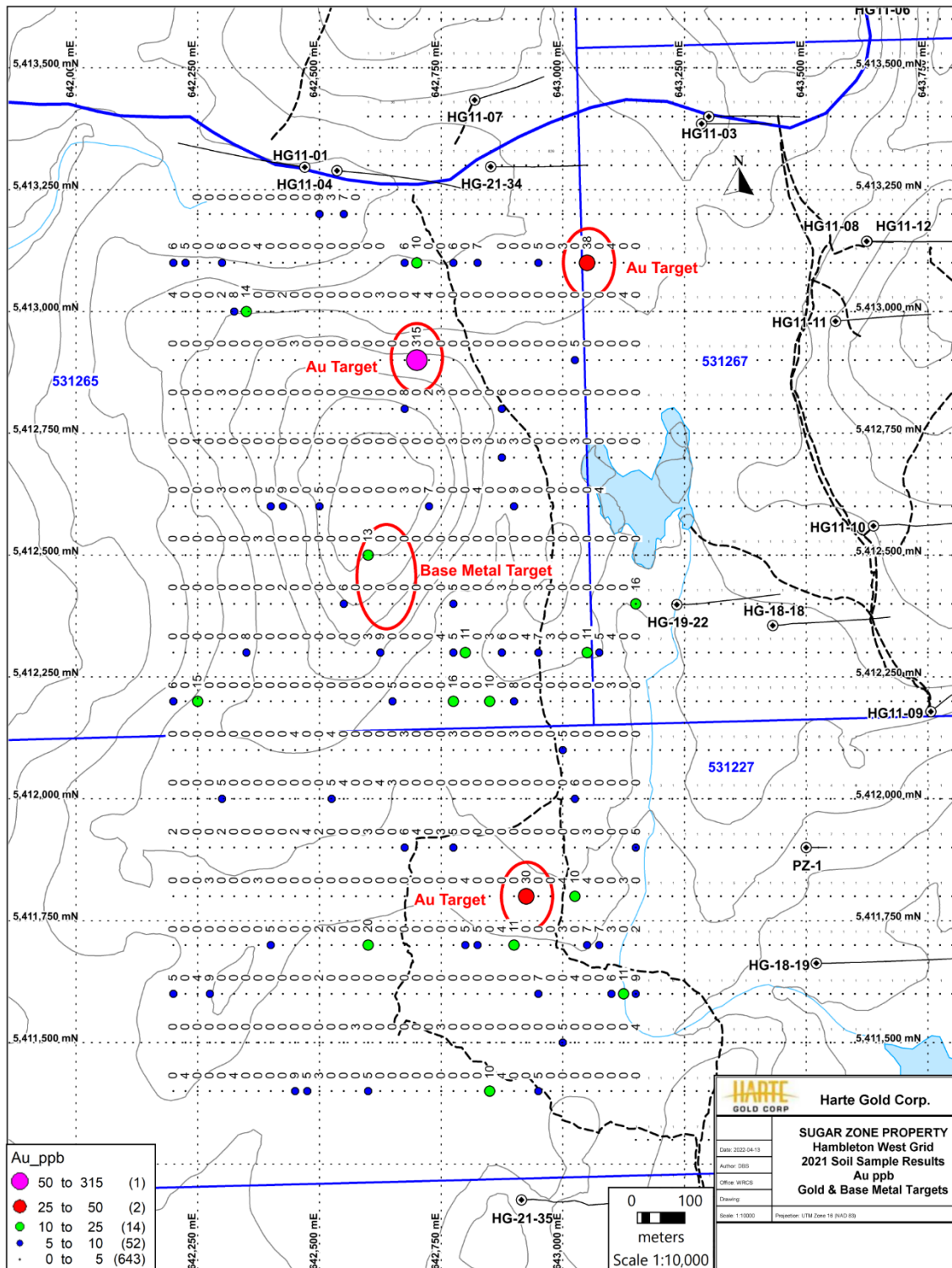


Figure 13 Potential Gold Targets

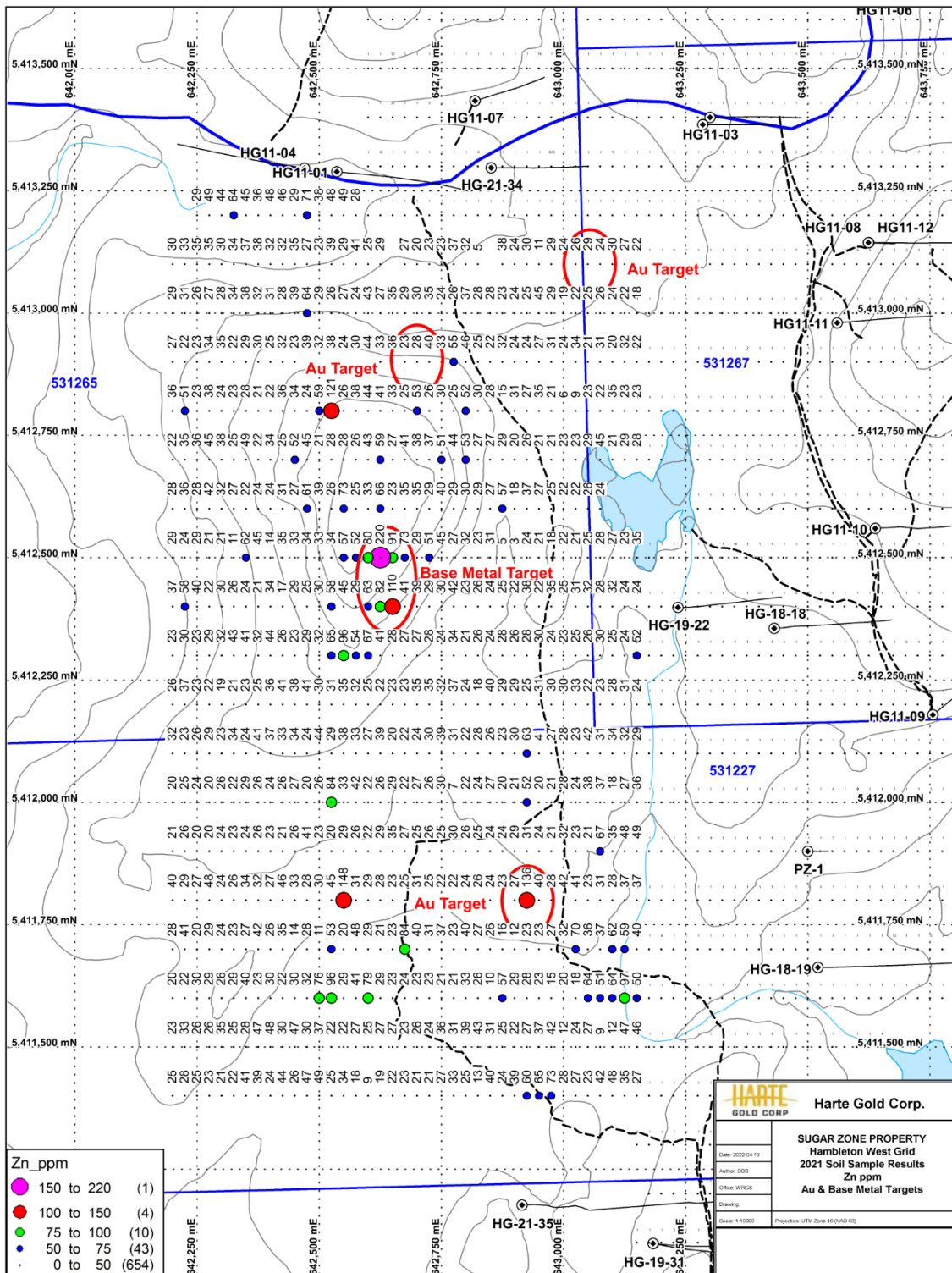


Figure 14 Potential Base Metal Target

10.0 Costs

The total cost of the soil survey conducted at the Hambleton West grid amounted to \$75,106. A total of 714 samples were collected.

Program costs and costs per claim are summarized in Tables 1 and 2.

Table 1 - Summary of Costs

Activity	Units		Cost per Unit	Total	%
Haveman Brothers	714	samples	\$101.31	\$72,337	96%
Report Writing	4	days	\$692.28	\$2,769	4%
Total Program Cost				\$75,106	100%

Table 2 - Cost per Claim

Tenure ID	Samples/Claim	% of Total Soil Samples Collected	Total Soil Sampling Cost	Total Soil Sampling Cost Per Claim
531227	312	43.70%	\$75,106	\$32,820
531265	360	50.42%	\$75,106	\$37,869
531267	42	5.88%	\$75,106	\$4,418
Total Samples	714	100.00%		\$75,106

11.0 References

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12.0 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 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 14th day of April, 2022 at Thunder Bay, Ontario.

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

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

Appendix A – Claims List

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	Pts. 1-9, 1R-13011
1069333	HAMBLETON				\$7,320	Lease	CLM514	MR+SR	31054-0004	
1069343	HAMBLETON				\$3,989	Lease	CLM514	MR+SR	31054-0005	
1069344	HAMBLETON				\$851	Lease	CLM514	MR+SR, MRO	31054-0006	
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	Lease	
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	01-May-15	30-Apr-36	279.83		Lease	CLM515	MR+SR		Pts. 1-11, 1R-13038
937770	ODLUM				\$174	Lease	CLM516	MR+SR	31078-0001	
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	Lease	CLM517	MR+SR	31077-0001	Pts. 1-8, 1R-13019
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					

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
4288587	NAMEIGOS	125769	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286343	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286342	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	286341	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	274252	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	266283	Boundary Cell Mining Claim	2021-01-08	200	0
4288587	NAMEIGOS	189153	Boundary Cell Mining Claim	2021-01-08	200	11
4288587	NAMEIGOS	170388	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	102955	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	322925	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	286384	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	227074	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	219128	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	189186	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	170921	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	125817	Boundary Cell Mining Claim	2021-01-08	200	149
4288588	NAMEIGOS	102957	Boundary Cell Mining Claim	2021-01-08	200	0
4288588	NAMEIGOS	102956	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	287639	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	267591	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	220366	Boundary Cell Mining Claim	2021-01-08	200	423
4288589	NAMEIGOS	208950	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	173870	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	155027	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	117345	Boundary Cell Mining Claim	2021-01-08	200	0
4288589	NAMEIGOS	335993	Single Cell Mining Claim	2021-01-08	400	0
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
	NAMEIGOS	531283	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531284	Multi-cell Mining Claim	2021-01-09	9200	0
	NAMEIGOS	531285	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531351	Multi-cell Mining Claim	2021-01-09	9600	0
	NAMEIGOS	531352	Multi-cell Mining Claim	2021-01-09	10000	0
	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
04288250	MOSAMBIK	125756	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	293144	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	274244	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	273605	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	153728	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	118071	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	273604	Single Cell Mining Claim	2021-01-09	400	0
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
4288249	MOSAMBIK	117527	Single Cell Mining Claim	2021-01-09	400	0
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
4288230	NAMEIGOS	127131	Single Cell Mining Claim	2021-01-09	400	0
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
4288232	NAMEIGOS	219164	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	170953	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	118285	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	286410	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	189211	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	170954	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	154316	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	125852	Single Cell Mining Claim	2021-01-09	400	0
4288233	NAMEIGOS	118287	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531290	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531291	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531292	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531293	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531294	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531295	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531296	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531297	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531298	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531299	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531300	Single Cell Mining Claim	2021-01-09	400	0
	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
	NAMEIGOS	531305	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531306	Single Cell Mining Claim	2021-01-09	400	0
	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
4281805	NAMEIGOS	186333	Boundary Cell Mining Claim	2021-02-16	200	0
4281805	NAMEIGOS	133689	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	186239	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	319552	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	282751	Boundary Cell Mining Claim	2021-02-16	200	0
4285671	NAMEIGOS	186240	Boundary Cell Mining Claim	2021-02-16	200	0
4285672	NAMEIGOS	157827	Boundary Cell Mining Claim	2021-02-16	200	0
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 – Tabled Soil Sample results

Appendix C – Actlabs Assay Certificates



Report No.: A21-19476
Report Date: 31-Jan-22
Date Submitted: 15-Oct-21
Your Reference: Hambleton East

Haveman Brothers Ltd.
5378 Oliver Road
Kakabeka Falls Ontario
Canada

ATTN: Mike Haveman

CERTIFICATE OF ANALYSIS

387 Soil samples were submitted for analysis.

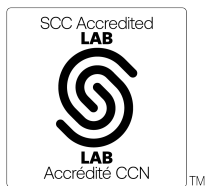
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 1H, QOP INAAGEO/QOP Total (INAA/Total Digestion ICPOES), 2021-12-02 20:34:24

REPORT A21-19476

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:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.



LabID: 266

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CERTIFIED BY:

[Handwritten signature]

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315001	9	< 0.3	855	0.4	2	6	43	38	0.45	3.71	< 0.5	< 50	3	< 2	91.6	3.36	4	73	< 1	15.9	0.50	< 1	1
315002	< 2	< 0.3	17	< 0.3	< 1	13	36	71	0.02	6.09	4.1	410	1	< 2	< 0.5	4.97	27	78	1	0.4	5.55	4	< 1
315003	< 2	< 0.3	26	< 0.3	< 1	9	24	29	< 0.01	6.59	1.9	360	1	< 2	< 0.5	2.36	13	54	2	0.8	2.25	7	< 1
315004	< 2	< 0.3	89	< 0.3	< 1	12	41	46	0.02	7.05	0.6	420	1	< 2	4.2	3.54	17	46	3	1.0	2.74	6	< 1
315005	< 2	< 0.3	10	< 0.3	< 1	4	49	48	0.01	6.80	< 0.5	180	< 1	< 2	< 0.5	4.49	24	85	3	0.5	4.57	6	< 1
315006	< 2	< 0.3	47	< 0.3	< 1	10	65	36	0.01	7.12	2.3	490	< 1	< 2	1.4	2.26	24	83	3	0.6	3.14	8	< 1
315007	< 2	< 0.3	29	< 0.3	< 1	8	51	45	< 0.01	6.88	< 0.5	340	< 1	< 2	1.3	3.04	22	81	5	0.7	3.64	6	< 1
315008	< 2	< 0.3	3	< 0.3	< 1	< 3	105	64	< 0.01	6.82	< 0.5	< 50	< 1	< 2	< 0.5	5.15	42	238	< 1	0.6	5.76	3	< 1
315009	< 2	0.3	30	< 0.3	< 1	7	89	44	0.02	6.73	1.1	230	< 1	< 2	4.9	2.51	22	146	6	0.8	3.31	6	< 1
315010	< 2	0.3	53	< 0.3	< 1	8	56	49	< 0.01	6.78	1.3	500	1	< 2	< 0.5	2.42	21	73	7	0.8	3.79	7	< 1
315011	< 2	< 0.3	37	< 0.3	< 1	10	45	29	< 0.01	6.74	2.3	560	1	< 2	1.5	1.79	15	65	2	0.7	2.02	8	< 1
315012	< 2	< 0.3	12	< 0.3	1	13	15	22	0.04	7.23	3.2	470	< 1	< 2	11.1	1.31	8	47	1	0.5	2.73	7	< 1
315013	< 2	< 0.3	6	< 0.3	< 1	10	17	27	< 0.01	6.39	2.4	330	1	< 2	0.8	1.87	9	35	1	0.6	1.88	7	< 1
315014	4	< 0.3	16	< 0.3	< 1	12	21	30	0.02	6.59	2.2	480	1	< 2	7.9	1.72	11	37	3	0.7	1.85	7	< 1
315015	< 2	< 0.3	10	< 0.3	< 1	11	20	24	< 0.01	6.53	2.3	470	1	< 2	3.5	1.60	8	39	3	0.6	1.71	7	< 1
315016	38	< 0.3	13	< 0.3	< 1	12	24	29	0.02	6.68	4.0	350	1	< 2	10.2	1.23	9	48	2	0.6	2.27	7	< 1
315017	< 2	< 0.3	6	< 0.3	< 1	11	20	26	0.01	6.31	2.1	410	< 1	< 2	4.6	1.48	9	45	2	0.6	2.15	8	< 1
315018	3	< 0.3	12	< 0.3	< 1	11	19	24	< 0.01	6.56	2.9	440	1	< 2	1.4	1.63	9	42	1	0.9	1.50	7	< 1
315019	< 2	< 0.3	9	< 0.3	1	10	14	29	0.04	5.74	2.2	350	< 1	< 2	12.6	2.05	8	36	2	0.6	1.54	6	< 1
315020	5	< 0.3	34	0.4	1	5	11	11	0.39	1.17	4.1	< 50	< 1	< 2	21.3	3.93	< 1	25	< 1	0.7	0.52	< 1	< 1
315021	< 2	< 0.3	14	< 0.3	< 1	12	16	30	0.01	5.91	3.2	450	< 1	< 2	6.1	1.36	9	41	< 1	0.6	2.07	8	< 1
315022	< 2	< 0.3	10	< 0.3	< 1	12	17	24	< 0.01	6.07	2.2	500	< 1	< 2	4.0	1.39	5	40	1	0.4	1.87	8	< 1
315023	< 2	< 0.3	17	< 0.3	< 1	13	25	38	0.01	6.90	2.6	530	1	< 2	5.6	1.65	12	48	6	0.6	2.37	8	< 1
315024	< 2	< 0.3	19	< 0.3	< 1	11	21	28	0.01	6.54	1.9	460	1	< 2	8.3	1.53	9	47	2	0.5	2.22	7	< 1
315025	< 2	< 0.3	8	< 0.3	10	< 3	8	9	< 0.01	0.48	3.1	< 50	< 1	< 2	< 0.5	0.05	2	30	< 1	< 0.2	1.13	1	< 1
315026	7	< 0.3	184	< 0.3	< 1	< 3	34	5	0.37	2.03	4.5	< 50	< 1	< 2	57.8	4.53	5	22	< 1	1.3	0.94	< 1	< 1
315027	< 2	< 0.3	22	< 0.3	< 1	11	100	32	0.03	6.23	0.7	600	1	< 2	10.5	1.68	24	94	6	0.9	2.05	9	< 1
315028	< 2	< 0.3	57	0.3	1	< 3	8	27	0.49	0.67	2.9	< 50	< 1	< 2	32.0	4.01	3	15	1	0.3	0.45	< 1	< 1
315029	< 2	< 0.3	31	0.7	2	12	13	35	0.10	2.08	4.6	90	< 1	< 2	16.0	2.96	9	34	1	0.5	1.16	3	< 1
315030	< 2	< 0.3	22	< 0.3	< 1	7	31	48	0.01	5.04	0.7	310	< 1	< 2	0.7	2.63	17	90	1	0.6	3.56	8	< 1
315031	< 2	< 0.3	10	< 0.3	< 1	11	22	42	< 0.01	6.00	3.0	400	< 1	< 2	2.4	2.31	13	55	1	0.5	2.90	9	< 1
315032	< 2	< 0.3	6	< 0.3	< 1	13	16	23	0.01	5.85	3.0	450	< 1	< 2	6.3	1.41	8	47	1	0.5	2.22	10	< 1
315033	< 2	< 0.3	12	< 0.3	< 1	12	25	27	0.03	6.76	1.4	390	1	< 2	8.3	1.47	10	48	< 1	0.6	2.69	6	< 1
315034	< 2	< 0.3	19	< 0.3	< 1	12	27	28	0.01	6.34	2.7	410	< 1	< 2	2.6	1.82	11	45	2	0.6	1.81	7	< 1
315035	< 2	< 0.3	58	0.4	< 1	12	74	73	0.03	7.07	3.8	490	1	< 2	11.2	2.35	24	81	7	0.9	3.16	6	< 1
315036	5	< 0.3	705	0.3	< 1	4	1070	65	0.24	2.88	1.8	70	< 1	< 2	62.7	4.48	16	183	6	1.5	2.27	2	< 1
315037	< 2	0.3	47	< 0.3	< 1	10	45	60	0.02	5.99	1.3	330	< 1	< 2	4.5	2.98	22	89	5	0.6	3.17	7	< 1
315038	< 2	< 0.3	13	< 0.3	< 1	10	37	39	0.02	6.21	4.6	350	< 1	< 2	11.1	2.04	16	126	1	0.6	3.40	7	< 1
315039	4	< 0.3	6	< 0.3	1	13	21	24	< 0.01	6.79	3.2	430	1	< 2	3.0	1.28	9	42	2	0.6	2.66	8	< 1
315040	10	< 0.3	54	< 0.3	< 1	4	36	40	0.26	3.18	2.9	< 50	< 1	< 2	18.8	3.05	15	68	< 1	1.4	2.48	3	< 1
315041	< 2	< 0.3	41	< 0.3	1	< 3	17	13	0.50	1.22	2.6	< 50	< 1	< 2	35.6	2.97	5	25	3	0.6	0.47	< 1	< 1
315042	< 2	< 0.3	14	< 0.3	< 1	9	28	25	0.02	6.08	1.5	320	< 1	< 2	1.9	1.68	11	53	2	0.7	1.85	8	< 1
315043	< 2	< 0.3	12	< 0.3	< 1	13	22	33	< 0.01	6.15	1.5	370	< 1	< 2	< 0.5	1.74	10	58	3	0.6	2.12	8	< 1
315044	< 2	< 0.3	14	< 0.3	< 1	11	19	27	< 0.01	6.04	< 0.5	450	< 1	< 2	< 0.5	1.87	9	46	2	0.8	1.92	9	< 1
315045	< 2	0.4	8	< 0.3	2	11	17	21	< 0.01	6.31	1.4	440	1	< 2	1.3	1.50	9	37	3	0.3	1.50	8	< 1
315046	< 2	< 0.3	5	< 0.3	< 1	12	16	21	< 0.01	6.12	2.4	440	1	< 2	2.2	1.34	7	43	1	0.6	1.96	8	< 1
315047	< 2	< 0.3	3	< 0.3	1	11	17	23	< 0.01	6.11	1.2	500	< 1	< 2	1.1	1.48	8	38	1	0.2	1.72	8	< 1
315048	< 2	< 0.3	8	< 0.3	< 1	11	24	22	0.01	6.70	2.4	370	1	< 2	3.5	1.56	12	55	3	0.6	2.36	6	< 1
315049	5	< 0.3	10	< 0.3	< 1	12	28	24	0.01	6.89	2.5	380	1	< 2	4.8	1.60	12	57	1	0.5	2.50	7	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315050	309	0.3	23	< 0.3	< 1	7	106	95	< 0.01	5.84	5.1	310	2	< 2	< 0.5	2.00	29	119	3	1.7	4.42	5	< 1
315051	< 2	< 0.3	218	0.6	1	3	26	19	0.15	1.21	3.7	< 50	< 1	< 2	24.7	5.98	5	21	< 1	0.5	0.65	1	< 1
315052	5	< 0.3	21	< 0.3	2	6	5	9	0.29	0.41	4.5	< 50	< 1	< 2	18.0	5.06	3	12	< 1	< 0.2	0.42	< 1	< 1
315053	< 2	< 0.3	15	0.4	2	10	9	18	0.22	0.34	7.5	< 50	< 1	< 2	27.3	3.64	19	12	< 1	< 0.2	1.49	< 1	< 1
315054	< 2	< 0.3	27	< 0.3	< 1	9	39	34	< 0.01	6.27	1.0	380	< 1	< 2	3.6	3.38	16	71	3	0.7	2.23	6	< 1
315055	< 2	< 0.3	6	< 0.3	< 1	12	15	25	< 0.01	6.43	1.8	400	1	< 2	6.3	1.37	7	43	< 1	0.6	2.05	7	< 1
315056	3	< 0.3	85	1.1	2	14	45	49	0.18	3.34	13.4	< 50	< 1	< 2	50.1	3.27	42	50	1	0.7	5.30	2	< 1
315057	5	< 0.3	94	0.9	3	11	39	47	0.17	3.26	13.4	< 50	< 1	< 2	51.5	2.98	81	70	< 1	0.9	6.48	2	< 1
315058	9	< 0.3	60	0.8	2	7	23	26	0.58	1.49	7.6	< 50	< 1	< 2	36.2	3.28	10	35	< 1	0.6	0.96	< 1	< 1
315059	< 2	< 0.3	75	0.5	1	8	40	44	0.14	3.18	5.7	330	< 1	< 2	45.9	3.11	21	50	< 1	0.7	4.12	3	< 1
315060	< 2	< 0.3	92	0.5	2	5	39	24	0.25	1.99	6.0	< 50	< 1	< 2	58.4	3.42	21	41	< 1	1.0	2.29	< 1	< 1
315061	< 2	< 0.3	130	1.0	3	9	41	39	0.92	0.52	6.9	< 50	< 1	< 2	51.3	5.86	8	2	< 1	0.3	0.61	< 1	< 1
315062	< 2	< 0.3	121	0.4	1	7	32	41	0.71	0.98	7.3	< 50	< 1	< 2	48.5	4.81	2	19	< 1	0.4	0.58	< 1	< 1
315063	4	< 0.3	51	0.5	3	11	19	22	0.77	0.28	7.3	< 50	< 1	< 2	62.7	5.65	3	4	< 1	< 0.2	0.57	< 1	< 1
315064	< 2	< 0.3	17	< 0.3	2	10	17	21	0.05	5.71	5.4	360	< 1	< 2	30.5	2.27	9	53	< 1	0.6	2.57	7	< 1
315065	< 2	0.3	5	< 0.3	1	13	18	23	< 0.01	6.47	2.3	520	1	< 2	4.5	1.42	8	45	3	0.6	2.18	9	< 1
315066	< 2	< 0.3	5	< 0.3	< 1	12	20	25	0.01	6.58	3.7	520	1	< 2	4.8	1.48	9	49	3	0.5	2.40	10	< 1
315067	< 2	< 0.3	7	< 0.3	< 1	12	18	25	< 0.01	6.40	2.3	640	1	< 2	5.3	1.48	9	51	5	0.7	2.40	9	< 1
315068	4	< 0.3	5	< 0.3	< 1	12	18	28	0.01	6.58	2.8	590	1	< 2	2.3	1.33	8	45	5	0.6	1.97	9	< 1
315069	5	< 0.3	9	< 0.3	1	11	12	20	< 0.01	5.98	2.5	400	< 1	< 2	< 0.5	1.44	6	33	3	0.5	1.27	8	< 1
315070	< 2	< 0.3	3	< 0.3	< 1	10	18	22	< 0.01	6.57	2.2	460	1	< 2	4.7	1.55	9	39	2	0.5	1.82	9	< 1
315071	4	< 0.3	8	< 0.3	< 1	11	20	30	0.01	6.52	1.7	460	1	< 2	4.2	1.67	10	46	4	0.6	2.24	7	< 1
315072	9	0.6	4	< 0.3	< 1	13	19	29	0.01	6.53	2.1	480	1	< 2	3.5	1.46	7	43	3	0.6	2.19	8	< 1
315073	< 2	0.4	5	< 0.3	1	11	15	26	0.01	6.13	1.5	480	1	< 2	1.2	1.42	6	41	1	0.5	2.01	8	< 1
315074	< 2	< 0.3	4	< 0.3	< 1	13	16	28	< 0.01	6.25	2.0	530	1	< 2	3.5	1.41	7	39	3	0.5	2.01	7	< 1
315075	41	0.4	768	0.8	< 1	12	419	39	0.02	6.37	15.8	170	< 1	< 2	6.8	0.13	95	567	< 1	0.4	19.3	5	< 1
315076	< 2	< 0.3	5	< 0.3	1	13	19	29	0.01	6.35	2.8	620	1	< 2	5.3	1.33	9	42	3	0.8	2.71	10	< 1
315077	< 2	< 0.3	5	< 0.3	2	14	19	40	0.01	6.21	2.7	530	1	< 2	6.6	1.32	11	54	4	0.6	2.85	10	< 1
315078	< 2	0.4	3	< 0.3	< 1	13	11	23	< 0.01	5.94	2.3	630	< 1	< 2	0.8	1.26	4	39	3	0.5	1.87	11	< 1
315079	< 2	0.4	7	< 0.3	< 1	11	17	22	0.01	5.93	1.8	610	1	< 2	3.9	1.66	8	38	2	0.8	1.54	8	< 1
315080	< 2	0.4	3	< 0.3	< 1	11	14	30	< 0.01	5.87	0.7	670	< 1	< 2	3.1	1.38	6	38	3	0.5	1.79	10	< 1
315081	< 2	< 0.3	12	< 0.3	< 1	10	24	30	< 0.01	6.30	1.2	440	< 1	< 2	7.5	1.76	12	61	3	0.8	2.52	10	< 1
315082	< 2	< 0.3	14	< 0.3	< 1	14	32	32	0.03	7.24	2.0	350	1	< 2	10.5	1.57	16	77	< 1	0.6	3.27	9	< 1
315083	2	< 0.3	236	0.5	2	14	58	76	0.19	4.40	7.0	130	1	< 2	55.7	3.70	17	58	11	2.7	2.21	4	< 1
315084	< 2	< 0.3	21	< 0.3	< 1	9	58	96	< 0.01	6.85	0.9	470	< 1	< 2	3.9	2.19	20	125	8	0.6	3.18	10	< 1
315085	< 2	< 0.3	184	1.0	1	9	56	29	0.28	1.35	8.9	< 50	< 1	< 2	57.8	4.80	21	28	4	0.8	2.21	< 1	< 1
315086	< 2	< 0.3	11	< 0.3	< 1	11	35	41	0.01	5.80	1.4	410	< 1	< 2	1.2	2.06	13	116	5	0.5	2.61	10	< 1
315087	< 2	< 0.3	33	< 0.3	< 1	9	51	79	0.02	6.83	1.9	370	< 1	< 2	5.8	2.08	17	88	4	0.6	3.10	6	< 1
315088	< 2	< 0.3	5	< 0.3	< 1	11	19	29	< 0.01	6.23	2.1	470	< 1	< 2	< 0.5	1.61	9	46	3	0.6	1.69	9	< 1
315089	< 2	< 0.3	5	< 0.3	1	12	20	23	< 0.01	6.26	2.1	450	1	< 2	2.4	1.48	7	42	3	0.6	1.58	10	< 1
315090	< 2	< 0.3	13	< 0.3	< 1	9	34	24	0.02	6.81	2.6	520	1	< 2	6.8	1.50	11	59	3	0.5	2.64	8	< 1
315091	< 2	< 0.3	8	< 0.3	< 1	13	23	23	< 0.01	6.05	1.1	380	1	< 2	2.9	1.85	11	52	3	0.6	1.93	8	< 1
315092	< 2	< 0.3	11	< 0.3	< 1	12	19	23	< 0.01	6.19	1.2	490	1	< 2	1.6	3.06	8	51	2	0.8	1.81	8	< 1
315093	< 2	< 0.3	6	< 0.3	1	14	20	21	0.01	6.59	3.2	430	1	< 2	6.4	1.44	10	40	2	0.5	2.13	9	< 1
315094	< 2	< 0.3	6	< 0.3	< 1	12	19	21	< 0.01	6.30	2.3	520	1	< 2	4.1	1.33	8	49	3	0.4	1.78	8	< 1
315095	< 2	< 0.3	10	< 0.3	< 1	11	30	33	< 0.01	6.70	2.2	330	1	< 2	3.1	2.17	13	59	2	0.6	2.74	7	< 1
315096	< 2	< 0.3	5	< 0.3	< 1	11	16	26	0.01	5.97	2.9	470	1	< 2	6.2	1.45	9	57	2	0.7	3.36	8	< 1
315097	< 2	< 0.3	43	< 0.3	1	< 3	14	10	0.33	0.62	2.4	< 50	< 1	< 2	20.1	4.68	1	12	< 1	0.3	0.87	< 1	< 1
315098	< 2	< 0.3	21	< 0.3	< 1	13	27	28	0.02	7.06	3.6	410	1	< 2	6.9	1.57	13	74	2	0.6	3.55	7	< 1
315099	< 2	< 0.3	22	< 0.3	< 1	13	29	28	0.02	6.87	2.8	450	1	< 2	6.1	1.61	12	68	2	0.5	3.13	6	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315100	< 2	< 0.3	3	< 0.3	< 1	< 3	4	10	< 0.01	0.62	1.9	< 50	< 1	< 2	< 0.5	0.05	< 1	12	< 1	< 0.2	0.90	1	< 1
315101	< 2	< 0.3	9	< 0.3	< 1	15	16	29	0.02	6.39	3.7	370	< 1	< 2	9.9	1.21	7	62	2	0.6	3.06	7	< 1
315102	< 2	< 0.3	40	< 0.3	< 1	7	28	57	0.16	3.42	2.8	< 50	< 1	< 2	12.8	3.20	16	116	1	0.4	3.21	2	< 1
315103	7	< 0.3	84	0.6	2	4	15	23	0.52	0.79	3.6	< 50	< 1	< 2	24.1	3.04	4	10	< 1	0.4	0.32	< 1	< 1
315104	< 2	< 0.3	46	< 0.3	2	< 3	14	15	0.33	0.93	2.6	< 50	< 1	< 2	19.9	3.44	1	17	< 1	0.4	0.44	< 1	< 1
315105	< 2	< 0.3	78	0.6	< 1	< 3	19	20	0.39	0.64	2.2	< 50	< 1	< 2	26.0	4.09	5	10	< 1	< 0.2	0.51	< 1	< 1
315106	4	< 0.3	52	< 0.3	< 1	3	19	18	0.48	0.47	4.6	< 50	< 1	< 2	40.0	3.88	7	11	< 1	0.3	0.74	< 1	< 1
315107	< 2	< 0.3	246	0.8	1	< 3	40	64	0.60	1.23	4.1	100	< 1	< 2	39.9	3.30	7	26	< 1	0.8	0.89	< 1	< 1
315108	< 2	< 0.3	238	0.6	2	< 3	41	51	0.65	1.02	2.8	< 50	< 1	< 2	53.4	3.40	3	31	< 1	0.8	0.74	< 1	< 1
315109	6	< 0.3	189	0.8	< 1	3	43	64	0.55	1.57	1.4	< 50	< 1	< 2	50.9	3.19	7	41	1	0.9	1.05	< 1	< 1
315110	11	< 0.3	162	0.9	1	9	46	97	0.45	2.65	9.2	< 50	< 1	< 2	63.7	2.79	18	54	1	1.2	3.23	< 1	1
315111	9	< 0.3	63	0.9	2	25	35	50	0.23	1.11	6.5	< 50	< 1	< 2	38.9	4.24	11	11	1	0.2	1.21	< 1	< 1
315112	2	< 0.3	18	< 0.3	< 1	11	26	40	0.01	6.95	3.7	340	1	< 2	6.1	1.90	12	58	< 1	0.5	2.57	5	< 1
315113	< 2	< 0.3	103	0.4	1	6	39	59	0.35	4.50	3.5	330	< 1	< 2	41.3	2.63	10	53	4	1.0	1.45	3	< 1
315114	3	< 0.3	125	0.6	2	6	38	62	0.38	3.48	4.7	130	< 1	< 2	23.6	2.83	8	46	2	0.8	1.10	3	< 1
315115	7	< 0.3	110	0.5	1	6	32	37	0.47	2.28	4.9	< 50	< 1	< 2	28.4	3.09	8	30	2	0.6	1.00	2	< 1
315116	7	< 0.3	113	0.6	2	4	30	36	0.59	0.83	7.9	< 50	< 1	< 2	25.9	3.46	10	17	< 1	0.4	1.18	< 1	< 1
315117	< 2	< 0.3	26	< 0.3	< 1	11	43	70	0.02	6.77	5.2	280	< 1	< 2	6.7	2.77	23	91	3	0.4	5.13	4	< 1
315118	3	< 0.3	20	< 0.3	< 1	12	29	32	0.02	5.98	5.2	310	< 1	< 2	4.0	2.40	13	61	< 1	0.6	2.31	7	< 1
315119	< 2	< 0.3	11	< 0.3	2	12	19	27	0.01	6.84	2.5	240	1	< 2	6.7	1.29	10	41	2	0.5	2.14	7	< 1
315120	< 2	< 0.3	11	< 0.3	< 1	11	19	23	< 0.01	6.27	1.8	320	1	< 2	< 0.5	1.57	6	43	2	0.8	1.66	7	< 1
315121	< 2	< 0.3	26	< 0.3	1	12	24	23	0.03	6.35	1.9	310	1	< 2	9.4	1.87	8	43	< 1	0.6	1.92	7	< 1
315122	11	< 0.3	133	0.4	< 1	< 3	21	12	0.44	1.17	2.1	< 50	< 1	< 2	28.9	3.61	3	19	1	1.3	0.44	< 1	< 1
315123	< 2	< 0.3	28	< 0.3	< 1	10	28	26	0.01	6.71	1.6	340	1	< 2	7.8	1.78	12	54	2	0.6	2.30	6	< 1
315124	< 2	0.3	22	< 0.3	< 1	10	24	25	0.01	6.24	2.2	390	< 1	< 2	6.5	1.60	13	53	2	0.6	2.18	6	< 1
315125	289	< 0.3	24	< 0.3	< 1	9	105	95	< 0.01	5.77	5.2	270	2	< 2	< 0.5	1.98	27	122	3	1.7	4.12	5	< 1
315126	4	< 0.3	65	0.4	< 1	4	12	16	0.60	0.62	5.6	< 50	< 1	< 2	25.6	2.95	4	8	< 1	0.3	0.36	< 1	< 1
315127	5	< 0.3	130	0.7	< 1	< 3	25	27	0.45	1.51	5.2	< 50	< 1	< 2	32.7	3.11	3	22	< 1	1.7	0.59	< 1	< 1
315128	5	< 0.3	60	< 0.3	< 1	10	22	40	0.09	3.62	5.2	150	< 1	< 2	16.3	2.81	13	87	4	0.7	3.08	3	< 1
315129	< 2	< 0.3	7	< 0.3	< 1	13	19	23	0.02	7.08	3.7	330	1	< 2	10.6	1.11	9	50	4	0.5	2.53	6	< 1
315130	< 2	< 0.3	6	< 0.3	< 1	9	20	37	< 0.01	5.82	0.8	320	< 1	< 2	0.9	2.00	10	79	2	0.5	2.50	7	< 1
315131	< 2	0.3	10	< 0.3	< 1	10	48	31	0.02	6.75	6.3	360	< 1	< 2	8.4	1.99	18	131	3	0.6	3.49	5	< 1
315132	< 2	< 0.3	17	< 0.3	< 1	5	55	40	0.02	7.46	2.8	220	< 1	< 2	8.9	3.03	19	117	1	0.6	3.49	4	< 1
315133	< 2	< 0.3	11	< 0.3	< 1	10	40	84	0.01	6.67	3.3	370	1	< 2	5.9	1.87	14	83	4	0.4	2.65	6	< 1
315134	< 2	< 0.3	11	< 0.3	< 1	11	21	23	0.01	6.14	2.0	360	< 1	< 2	6.8	1.65	8	52	1	0.6	2.02	8	< 1
315135	< 2	< 0.3	240	0.4	1	< 3	35	21	0.23	1.27	2.5	< 50	< 1	< 2	26.5	4.26	< 1	15	< 1	1.8	0.49	< 1	< 1
315136	20	< 0.3	613	0.6	< 1	< 3	36	29	0.24	1.78	4.8	< 50	< 1	< 2	27.4	4.25	1	15	< 1	2.7	0.78	< 1	< 1
315137	< 2	< 0.3	37	0.3	< 1	9	57	48	0.02	6.98	3.1	260	< 1	< 2	10.1	2.38	21	103	2	0.9	3.55	5	< 1
315138	< 2	< 0.3	44	0.8	< 1	16	23	20	0.25	0.87	6.6	< 50	< 1	< 2	19.8	2.93	2	18	< 1	0.8	0.51	< 1	< 1
315139	2	< 0.3	36	< 0.3	< 1	10	75	53	0.03	7.16	5.1	270	< 1	< 2	11.7	1.83	22	98	3	0.6	3.88	5	< 1
315140	2	< 0.3	206	0.6	1	< 3	33	11	0.19	0.51	3.6	< 50	< 1	< 2	30.3	5.25	4	12	< 1	0.7	0.52	< 1	< 1
315141	< 2	< 0.3	9	< 0.3	< 1	11	24	28	0.01	6.47	1.7	330	1	< 2	4.8	1.72	10	53	3	0.6	2.01	7	< 1
315142	< 2	< 0.3	3	< 0.3	1	12	12	14	0.01	6.07	2.6	490	< 1	< 2	7.9	1.10	5	36	2	0.6	1.62	8	< 1
315143	< 2	< 0.3	4	< 0.3	1	12	16	35	< 0.01	6.28	1.6	310	1	< 2	3.4	1.37	6	41	2	0.6	1.91	7	< 1
315144	5	< 0.3	4	< 0.3	< 1	13	17	26	0.01	6.63	3.1	360	1	< 2	4.6	1.41	7	45	2	0.3	2.14	7	< 1
315145	< 2	0.4	12	< 0.3	< 1	12	24	42	0.01	6.68	3.1	390	1	< 2	3.8	1.46	10	52	4	0.6	2.25	8	< 1
315146	< 2	0.4	4	< 0.3	< 1	12	17	27	< 0.01	6.47	1.4	430	1	< 2	3.9	1.39	6	41	3	0.5	1.69	6	< 1
315147	< 2	0.5	2	< 0.3	1	11	16	23	0.02	6.57	1.7	420	1	< 2	4.1	1.46	6	46	2	0.6	2.13	7	< 1
315148	< 2	0.3	10	< 0.3	< 1	13	32	29	0.02	7.05	4.1	450	1	< 2	7.4	1.65	13	62	3	0.7	2.82	6	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315149	< 2	< 0.3	11	< 0.3	< 1	12	29	29	0.01	6.70	3.4	340	1	< 2	6.0	1.62	11	54	3	0.6	2.61	7	< 1
315150	51	0.5	788	0.5	< 1	11	422	40	0.03	7.92	20.2	140	< 1	2	8.4	0.14	96	670	1	0.6	20.4	5	< 1
315151	< 2	< 0.3	6	< 0.3	< 1	12	16	24	< 0.01	6.27	1.9	380	1	< 2	1.2	1.70	5	41	2	0.6	1.52	7	< 1
315152	< 2	< 0.3	35	0.5	2	7	14	20	0.17	2.86	4.1	210	< 1	< 2	43.6	5.12	8	32	4	0.4	1.18	3	< 1
315153	< 2	0.3	44	0.3	< 1	10	27	41	0.11	5.20	2.9	250	< 1	< 2	23.2	3.32	15	73	7	0.8	2.33	4	< 1
315154	< 2	0.6	4	< 0.3	1	12	20	28	0.01	6.22	2.1	350	1	< 2	4.4	1.36	8	43	3	0.6	2.01	7	< 1
315155	2	< 0.3	5	< 0.3	< 1	11	13	21	< 0.01	6.28	1.5	400	1	< 2	1.4	1.55	5	38	3	0.6	1.26	6	< 1
315156	< 2	< 0.3	4	< 0.3	< 1	11	14	26	< 0.01	6.75	1.8	390	1	< 2	< 0.5	1.81	7	32	3	0.6	1.68	6	< 1
315157	< 2	< 0.3	5	< 0.3	1	10	15	20	< 0.01	6.22	2.2	340	1	< 2	2.5	1.55	6	36	2	0.6	1.33	6	< 1
315158	< 2	< 0.3	6	< 0.3	1	10	14	20	< 0.01	6.10	1.6	280	1	< 2	1.4	1.64	5	39	3	0.7	1.34	6	< 1
315159	2	< 0.3	5	< 0.3	2	13	21	24	0.01	6.36	3.2	330	1	< 2	5.6	1.54	7	46	3	0.6	2.12	7	< 1
315160	< 2	< 0.3	2	< 0.3	< 1	11	17	23	0.01	6.63	2.5	390	1	< 2	5.6	1.42	7	45	2	0.7	2.05	7	< 1
315161	< 2	0.4	3	< 0.3	1	12	18	24	0.02	6.50	2.4	480	1	< 2	6.1	1.49	10	45	< 1	0.6	2.38	7	< 1
315162	< 2	0.5	4	< 0.3	< 1	11	18	26	0.02	6.56	3.3	450	1	< 2	5.4	1.53	7	51	3	0.6	2.24	8	< 1
315163	< 2	< 0.3	3	< 0.3	1	11	18	23	0.01	6.42	2.6	390	1	< 2	6.7	1.42	6	42	2	0.6	1.95	7	< 1
315164	< 2	< 0.3	5	< 0.3	1	11	17	21	< 0.01	6.33	2.6	380	1	< 2	5.5	1.42	4	43	< 1	0.5	1.62	6	< 1
315165	2	< 0.3	4	< 0.3	< 1	13	18	26	0.01	6.36	3.1	420	1	< 2	2.3	1.41	6	45	2	0.6	2.09	7	< 1
315166	4	< 0.3	40	< 0.3	< 1	10	39	41	0.02	7.07	2.2	340	1	< 2	7.1	2.08	12	70	2	0.9	2.10	6	< 1
315167	2	0.4	20	< 0.3	< 1	11	23	23	0.02	6.17	1.8	390	< 1	< 2	10.5	1.44	6	59	3	0.5	2.07	6	< 1
315168	< 2	0.4	11	< 0.3	< 1	14	16	20	< 0.01	6.36	2.1	400	1	< 2	< 0.5	1.63	5	33	2	0.3	1.20	6	< 1
315169	< 2	< 0.3	34	< 0.3	< 1	9	50	29	< 0.01	6.34	1.0	340	1	< 2	1.2	1.80	10	58	3	0.6	1.76	5	< 1
315170	< 2	< 0.3	10	< 0.3	< 1	10	26	26	< 0.01	6.30	2.9	440	1	< 2	1.3	1.79	10	62	2	0.6	1.82	6	< 1
315171	3	< 0.3	6	< 0.3	< 1	11	16	22	< 0.01	6.16	3.0	370	< 1	< 2	< 0.5	1.51	5	36	< 1	0.5	1.30	7	< 1
315172	< 2	< 0.3	14	< 0.3	< 1	10	26	29	< 0.01	6.41	0.5	370	1	< 2	< 0.5	1.72	10	52	2	0.7	1.93	6	< 1
315173	< 2	< 0.3	17	0.3	< 1	12	21	35	0.01	5.83	< 0.5	400	< 1	< 2	< 0.5	2.37	11	83	1	0.4	2.57	6	< 1
315174	< 2	< 0.3	20	< 0.3	< 1	10	21	35	0.01	6.12	< 0.5	330	< 1	< 2	< 0.5	2.53	10	70	< 1	0.5	2.46	6	< 1
315175	< 2	< 0.3	5	< 0.3	2	< 3	4	8	< 0.01	0.44	2.0	< 50	< 1	< 2	< 0.5	0.05	< 1	16	< 1	< 0.2	1.58	1	< 1
315176	6	< 0.3	8	< 0.3	< 1	11	25	27	0.01	6.21	2.5	350	< 1	< 2	1.7	2.16	10	63	< 1	0.6	2.42	6	< 1
315177	4	0.4	9	< 0.3	< 1	11	29	25	0.01	6.84	1.6	380	1	< 2	6.4	1.51	10	55	< 1	0.6	2.09	7	< 1
315178	< 2	< 0.3	4	< 0.3	1	12	11	26	< 0.01	5.01	2.2	390	< 1	< 2	< 0.5	1.23	5	39	< 1	0.3	1.38	8	< 1
315179	5	< 0.3	32	< 0.3	< 1	11	43	30	0.04	6.53	< 0.5	350	1	< 2	11.3	1.80	8	49	3	0.9	1.64	6	< 1
315180	3	0.3	9	< 0.3	< 1	11	25	25	0.03	6.79	2.3	390	1	< 2	11.1	1.66	9	46	2	0.9	1.95	8	< 1
315181	< 2	0.3	16	< 0.3	< 1	13	21	26	0.01	6.69	3.7	370	1	< 2	5.9	1.68	12	56	4	0.7	2.57	7	< 1
315182	< 2	0.4	13	< 0.3	1	12	31	25	0.02	6.95	3.4	310	1	< 2	6.0	1.50	14	70	2	0.6	2.46	7	< 1
315183	< 2	0.4	7	< 0.3	< 1	10	20	24	0.01	6.64	2.8	340	1	< 2	7.3	1.75	9	48	1	0.6	2.02	7	< 1
315184	< 2	< 0.3	20	< 0.3	< 1	12	17	24	< 0.01	6.53	2.6	340	1	< 2	7.7	1.40	8	43	2	0.6	1.85	7	< 1
315185	< 2	< 0.3	14	< 0.3	< 1	14	14	29	< 0.01	5.75	0.9	330	< 1	< 2	1.5	1.36	7	58	5	0.5	1.65	7	< 1
315186	< 2	< 0.3	15	< 0.3	< 1	11	21	31	0.02	5.98	2.8	290	< 1	< 2	8.4	1.61	7	54	3	0.5	2.61	7	< 1
315187	< 2	< 0.3	10	< 0.3	1	13	14	24	< 0.01	5.99	1.8	370	< 1	< 2	6.8	1.24	5	46	2	0.6	1.93	8	< 1
315188	< 2	0.4	84	< 0.3	1	11	27	21	0.01	6.71	2.0	340	1	< 2	9.3	1.50	6	55	< 1	0.8	1.75	8	< 1
315189	< 2	0.4	26	< 0.3	< 1	13	84	32	0.02	6.50	2.0	360	< 1	< 2	2.5	1.75	14	79	4	0.6	2.25	7	< 1
315190	< 2	0.5	8	< 0.3	1	12	65	23	0.02	7.32	3.1	350	1	< 2	9.4	1.20	10	47	3	0.6	2.32	6	< 1
315191	3	0.3	27	< 0.3	< 1	12	30	21	0.03	6.80	4.2	300	1	< 2	11.1	1.28	8	46	< 1	0.6	2.30	7	< 1
315192	< 2	< 0.3	42	0.5	< 1	10	286	67	< 0.01	5.50	2.4	260	< 1	< 2	2.7	2.19	34	760	4	0.5	6.54	6	< 1
315193	< 2	< 0.3	31	< 0.3	< 1	11	115	35	< 0.01	6.04	3.3	370	< 1	< 2	3.1	1.47	11	93	2	0.6	2.34	8	< 1
315194	< 2	< 0.3	216	< 0.3	< 1	9	189	48	0.03	7.01	2.0	380	1	< 2	13.6	2.44	19	104	5	1.4	2.98	6	< 1
315195	5	0.4	71	< 0.3	< 1	9	135	49	0.08	6.22	4.1	300	< 1	< 2	21.4	2.31	32	80	5	0.7	3.29	5	< 1
315196	< 2	< 0.3	22	< 0.3	< 1	11	21	36	< 0.01	6.07	2.5	340	< 1	< 2	1.6	1.59	7	52	3	0.5	1.76	8	< 1
315197	< 2	0.4	22	< 0.3	1	11	21	27	0.02	6.41	2.4	400	1	< 2	9.0	1.41	8	45	2	0.5	1.93	8	< 1
315198	< 2	< 0.3	9	< 0.3	2	11	13	18	0.01	6.24	2.8	390	< 1	< 2	8.1	1.19	5	50	2	0.5	1.76	9	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315199	< 2	< 0.3	8	< 0.3	2	15	13	17	0.01	6.28	3.4	360	< 1	< 2	8.2	1.19	6	45	2	0.4	1.95	8	< 1
315200	323	< 0.3	23	< 0.3	< 1	7	107	95	< 0.01	5.90	6.0	380	2	< 2	< 0.5	2.01	27	136	4	1.7	4.72	6	< 1
315201	< 2	< 0.3	150	< 0.3	< 1	< 3	125	37	0.03	7.18	1.3	< 50	< 1	< 2	15.7	3.46	39	294	5	0.6	5.52	2	< 1
315202	< 2	< 0.3	50	0.4	< 1	9	217	38	0.02	7.09	4.2	250	< 1	< 2	7.8	2.45	27	134	2	0.6	3.94	5	< 1
315203	6	< 0.3	10	< 0.3	1	14	58	24	0.02	7.15	3.8	370	1	< 2	7.8	1.34	14	60	3	0.6	2.61	8	< 1
315204	< 2	< 0.3	17	< 0.3	< 1	13	22	28	0.02	5.90	4.0	300	< 1	< 2	6.8	1.54	9	58	2	0.5	2.77	7	< 1
315205	< 2	< 0.3	25	< 0.3	< 1	13	13	21	0.01	6.20	2.7	430	< 1	< 2	9.3	1.14	5	46	3	0.7	1.66	8	< 1
315206	< 2	< 0.3	7	< 0.3	1	13	16	20	< 0.01	6.49	1.0	370	1	< 2	1.0	1.47	6	40	2	0.6	1.38	7	< 1
315207	< 2	< 0.3	5	< 0.3	< 1	6	30	52	< 0.01	4.81	1.6	100	< 1	< 2	< 0.5	3.06	18	122	< 1	0.6	4.13	7	< 1
315208	< 2	< 0.3	9	< 0.3	< 1	12	16	21	< 0.01	6.08	2.3	370	< 1	< 2	1.1	1.45	5	42	< 1	0.4	1.66	8	< 1
315209	< 2	< 0.3	5	< 0.3	< 1	12	14	20	< 0.01	6.19	2.1	390	< 1	< 2	3.1	1.46	5	40	< 1	0.5	1.44	7	< 1
315210	< 2	0.4	8	< 0.3	1	13	29	27	0.02	7.57	3.6	290	1	< 2	7.2	1.35	13	51	2	0.6	2.79	6	< 1
315211	< 2	0.4	9	< 0.3	1	12	19	24	0.01	6.82	2.3	300	1	< 2	5.1	1.35	8	48	2	0.6	2.16	7	< 1
315212	< 2	< 0.3	7	< 0.3	< 1	14	21	22	0.02	7.37	2.6	410	1	< 2	6.3	1.36	10	49	2	0.5	2.38	7	< 1
315213	< 2	< 0.3	68	0.4	1	< 3	11	7	0.20	0.83	5.3	< 50	< 1	< 2	43.8	4.75	8	16	< 1	0.6	0.59	< 1	< 1
315214	< 2	0.3	30	< 0.3	< 1	8	32	30	0.01	6.66	3.1	270	< 1	< 2	6.9	2.27	12	66	< 1	0.5	2.34	6	< 1
315215	< 2	< 0.3	9	< 0.3	< 1	11	12	20	< 0.01	5.90	< 0.5	470	1	< 2	< 0.5	1.34	4	37	3	0.5	1.59	9	< 1
315216	< 2	< 0.3	3	< 0.3	< 1	13	21	25	0.01	6.54	2.8	580	1	< 2	4.8	1.31	7	39	4	0.6	2.12	8	< 1
315217	< 2	0.3	21	< 0.3	< 1	11	24	24	0.01	6.36	< 0.5	430	1	< 2	2.0	1.55	9	36	5	0.6	1.96	9	< 1
315218	< 2	0.6	19	< 0.3	1	13	19	20	0.01	6.30	< 0.5	550	1	< 2	< 0.5	1.66	5	41	2	0.9	1.39	8	< 1
315219	5	0.4	34	< 0.3	1	11	25	26	0.01	6.27	< 0.5	500	1	< 2	1.4	1.55	7	43	5	0.9	1.49	8	< 1
315220	< 2	0.4	9	< 0.3	1	11	18	22	0.01	6.51	3.3	460	1	< 2	4.6	1.48	10	40	5	0.8	1.87	9	< 1
315221	< 2	< 0.3	5	< 0.3	1	13	24	29	0.01	6.77	2.5	440	1	< 2	6.7	1.42	10	51	6	0.6	2.38	8	< 1
315222	< 2	< 0.3	4	< 0.3	1	15	19	26	0.02	6.96	4.0	470	1	< 2	9.6	1.23	10	49	4	0.7	2.71	8	< 1
315223	< 2	< 0.3	9	< 0.3	1	12	22	24	0.02	7.02	1.4	450	1	< 2	7.9	1.23	9	44	3	0.6	2.28	8	< 1
315224	< 2	0.4	16	< 0.3	1	13	22	24	0.02	6.95	4.1	410	1	< 2	9.0	1.24	10	48	3	0.6	2.24	8	< 1
315225	47	0.5	757	0.5	3	9	422	40	0.03	6.79	16.4	240	< 1	< 2	6.1	0.14	91	568	3	0.4	18.2	4	< 1
315226	< 2	0.4	14	< 0.3	2	12	22	26	< 0.01	5.92	1.4	470	< 1	< 2	3.2	1.45	9	53	3	0.5	2.05	8	< 1
315227	< 2	0.4	24	< 0.3	< 1	11	28	27	< 0.01	6.53	3.0	540	1	< 2	3.0	1.74	11	53	3	0.6	1.84	8	< 1
315228	< 2	< 0.3	24	< 0.3	1	12	16	20	< 0.01	6.14	< 0.5	420	1	< 2	< 0.5	1.40	6	45	3	0.6	1.39	9	< 1
315229	< 2	< 0.3	46	< 0.3	< 1	11	21	26	< 0.01	6.27	2.7	440	1	< 2	4.9	1.58	8	51	2	0.6	2.05	7	< 1
315230	5	< 0.3	74	< 0.3	2	11	30	84	< 0.01	6.52	2.0	450	1	< 2	4.9	1.43	9	43	3	0.6	1.54	8	< 1
315231	4	< 0.3	8	< 0.3	< 1	11	22	33	< 0.01	6.06	2.2	540	< 1	< 2	< 0.5	1.43	8	41	1	0.5	1.47	8	< 1
315232	< 2	0.4	44	< 0.3	1	11	34	42	0.02	6.37	0.5	460	1	< 2	2.8	1.37	9	35	3	0.5	1.44	7	< 1
315233	< 2	0.4	16	< 0.3	< 1	10	16	22	0.01	6.50	3.5	440	1	< 2	4.0	1.48	7	38	3	0.6	1.79	8	< 1
315234	4	< 0.3	24	< 0.3	< 1	13	23	26	< 0.01	6.57	2.7	480	1	< 2	5.9	1.49	10	58	3	0.7	2.08	9	< 1
315235	3	< 0.3	9	< 0.3	< 1	14	15	29	< 0.01	5.55	2.2	430	< 1	< 2	3.2	1.44	7	51	2	0.5	1.98	9	< 1
315236	< 2	< 0.3	17	< 0.3	< 1	11	20	22	< 0.01	6.55	1.7	450	1	< 2	1.8	1.69	10	41	1	0.7	1.61	9	< 1
315237	< 2	< 0.3	12	< 0.3	< 1	11	33	27	0.01	7.12	2.2	560	1	< 2	5.5	1.66	14	56	3	0.7	2.40	6	< 1
315238	< 2	< 0.3	18	< 0.3	< 1	13	16	26	0.01	6.12	3.1	530	< 1	< 2	5.5	1.46	7	36	4	0.6	2.46	10	< 1
315239	6	< 0.3	8	< 0.3	< 1	14	23	26	< 0.01	6.31	< 0.5	490	1	< 2	3.3	1.46	7	37	4	0.6	1.81	9	< 1
315240	< 2	< 0.3	16	< 0.3	< 1	10	46	37	< 0.01	6.31	0.5	430	< 1	< 2	< 0.5	2.30	15	83	4	0.6	2.35	7	< 1
315241	15	< 0.3	7	< 0.3	< 1	13	17	23	< 0.01	6.07	2.3	530	1	< 2	< 0.5	1.29	8	40	6	0.5	2.12	10	< 1
315242	< 2	0.4	10	< 0.3	< 1	14	23	22	0.01	6.54	3.1	440	1	< 2	4.4	1.53	11	43	3	0.6	2.16	10	< 1
315243	< 2	< 0.3	4	< 0.3	< 1	15	14	19	< 0.01	5.78	2.2	590	< 1	< 2	< 0.5	1.34	7	31	4	0.6	1.40	12	< 1
315244	< 2	< 0.3	12	< 0.3	< 1	13	20	21	< 0.01	6.19	2.7	540	1	< 2	1.6	1.60	7	29	3	0.6	1.30	8	< 1
315245	< 2	< 0.3	82	< 0.3	< 1	12	26	23	< 0.01	6.13	< 0.5	500	1	< 2	< 0.5	1.54	6	32	5	0.8	1.38	9	< 1
315246	< 2	< 0.3	98	< 0.3	< 1	12	21	25	< 0.01	5.83	< 0.5	430	1	< 2	< 0.5	1.54	7	31	4	0.7	1.46	10	< 1
315247	< 2	0.3	17	< 0.3	< 1	14	32	36	0.01	6.75	4.6	500	1	< 2	5.1	1.87	11	57	4	0.7	2.67	9	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315248	< 2	0.4	12	< 0.3	< 1	14	26	41	0.02	6.99	3.3	570	1	< 2	6.1	1.54	13	46	4	0.7	2.39	9	< 1
315249	< 2	0.5	12	< 0.3	< 1	13	28	38	0.02	6.99	3.8	510	1	< 2	7.1	1.53	14	46	4	0.6	2.60	9	< 1
315250	< 2	< 0.3	2	< 0.3	< 1	< 3	2	5	< 0.01	0.33	2.3	< 50	< 1	< 2	< 0.5	0.03	< 1	4	< 1	< 0.2	0.65	1	< 1
315251	< 2	0.4	8	< 0.3	< 1	14	23	38	0.01	6.49	2.2	470	1	< 2	5.8	1.33	11	39	4	0.6	2.25	9	< 1
315252	< 2	< 0.3	13	< 0.3	< 1	12	19	41	0.01	6.31	2.9	630	< 1	< 2	6.6	1.58	8	52	6	0.6	2.38	9	< 1
315253	< 2	< 0.3	16	< 0.3	< 1	13	23	30	0.01	6.56	4.4	470	1	< 2	5.6	1.49	11	35	5	0.6	2.04	10	< 1
315254	< 2	< 0.3	9	< 0.3	1	15	19	31	< 0.01	6.42	2.4	410	1	< 2	4.5	1.15	8	38	5	0.7	2.16	10	< 1
315255	< 2	< 0.3	17	< 0.3	< 1	12	21	35	0.02	6.19	1.4	460	< 1	< 2	8.3	1.43	6	39	3	0.6	2.08	9	< 1
315256	< 2	0.3	9	< 0.3	< 1	13	23	32	< 0.01	6.05	2.7	540	< 1	< 2	< 0.5	1.54	9	48	3	0.5	1.85	9	< 1
315257	< 2	0.5	12	< 0.3	< 1	12	18	25	0.01	5.80	2.8	410	< 1	< 2	4.7	1.37	7	40	2	0.6	2.27	10	< 1
315258	< 2	0.4	9	< 0.3	< 1	13	19	22	< 0.01	6.37	1.8	340	1	< 2	4.6	1.39	7	32	2	0.6	1.66	9	< 1
315259	5	< 0.3	10	< 0.3	< 1	12	17	23	< 0.01	6.07	1.9	520	< 1	< 2	< 0.5	1.45	7	35	2	0.4	1.45	10	< 1
315260	< 2	< 0.3	10	< 0.3	< 1	13	19	23	< 0.01	6.13	1.7	390	1	< 2	1.7	1.48	7	31	2	0.6	1.41	10	< 1
315261	< 2	< 0.3	43	< 0.3	< 1	13	86	35	0.01	6.72	1.8	450	1	< 2	3.1	1.41	13	37	3	0.9	1.75	9	< 1
315262	< 2	< 0.3	60	< 0.3	< 1	12	39	35	< 0.01	6.40	< 0.5	570	< 1	< 2	1.6	1.72	14	50	4	0.6	1.87	8	< 1
315263	< 2	0.3	24	< 0.3	< 1	13	21	32	< 0.01	6.43	< 0.5	500	1	< 2	2.5	1.66	10	40	4	0.8	1.75	10	< 1
315264	16	< 0.3	55	< 0.3	< 1	10	159	37	0.08	4.27	1.5	300	< 1	< 2	9.7	1.85	33	200	3	0.9	2.47	5	< 1
315265	< 2	< 0.3	5	< 0.3	< 1	16	21	24	0.01	6.25	3.4	280	< 1	< 2	6.4	1.30	10	36	4	0.4	2.71	9	< 1
315266	< 2	< 0.3	1	< 0.3	< 1	14	10	18	< 0.01	5.75	< 0.5	500	< 1	< 2	2.5	1.22	3	35	3	0.5	1.68	11	< 1
315267	10	< 0.3	14	< 0.3	< 1	14	20	40	0.01	6.00	3.4	760	< 1	< 2	4.5	1.77	10	49	3	0.8	4.28	8	< 1
315268	< 2	< 0.3	13	< 0.3	< 1	11	25	29	< 0.01	6.48	< 0.5	430	< 1	< 2	< 0.5	1.88	11	63	< 1	0.7	2.20	8	< 1
315269	8	< 0.3	20	< 0.3	< 1	12	27	29	< 0.01	6.63	3.3	380	< 1	< 2	3.8	2.28	14	65	< 1	0.9	2.67	6	< 1
315270	< 2	0.4	18	< 0.3	< 1	13	20	25	0.01	6.53	2.7	460	< 1	< 2	< 0.5	1.65	10	53	2	0.7	2.07	9	< 1
315271	< 2	< 0.3	23	< 0.3	< 1	14	19	31	0.02	7.14	1.3	430	1	< 2	11.6	1.27	8	60	3	0.6	2.96	9	< 1
315272	< 2	< 0.3	21	< 0.3	< 1	13	31	30	< 0.01	6.67	2.5	540	1	< 2	5.6	1.61	13	63	4	0.9	2.93	8	< 1
315273	< 2	0.4	11	< 0.3	< 1	13	23	30	0.01	6.20	1.8	520	< 1	< 2	2.0	1.73	12	57	2	0.6	3.05	8	< 1
315274	< 2	< 0.3	12	< 0.3	< 1	13	24	30	0.02	6.28	3.5	600	< 1	< 2	4.9	1.77	13	51	2	0.6	2.86	7	< 1
315275	327	< 0.3	23	< 0.3	< 1	9	105	96	< 0.01	5.78	5.3	400	2	< 2	< 0.5	1.98	32	126	5	2.0	4.63	5	< 1
315276	< 2	< 0.3	52	< 0.3	< 1	12	30	33	0.01	6.42	2.3	510	< 1	< 2	4.6	1.62	12	59	4	0.8	2.10	7	< 1
315277	< 2	0.4	19	< 0.3	< 1	13	17	22	< 0.01	6.15	< 0.5	540	1	< 2	< 0.5	1.58	8	46	2	0.7	1.71	9	< 1
315278	< 2	< 0.3	7	< 0.3	< 1	14	16	23	< 0.01	6.09	3.3	520	< 1	< 2	4.6	1.29	7	47	2	0.7	1.98	9	< 1
315279	3	< 0.3	11	< 0.3	< 1	13	17	28	0.02	6.55	1.1	390	1	< 2	7.7	1.40	9	58	3	0.7	2.63	8	< 1
315280	< 2	< 0.3	10	< 0.3	< 1	11	25	31	< 0.01	6.32	1.5	390	< 1	< 2	3.8	2.26	12	70	1	0.6	2.62	7	< 1
315281	< 2	< 0.3	4	< 0.3	< 1	14	19	24	< 0.01	6.61	1.9	390	1	< 2	5.0	1.70	10	44	< 1	0.6	2.14	7	< 1
315282	< 2	< 0.3	61	< 0.3	< 1	10	45	37	0.02	6.51	< 0.5	530	1	< 2	8.4	1.74	10	52	7	1.0	1.86	7	< 1
315283	< 2	< 0.3	8	< 0.3	< 1	9	21	58	< 0.01	5.50	0.6	140	< 1	< 2	< 0.5	2.37	16	65	< 1	0.7	4.29	8	< 1
315284	< 2	< 0.3	82	< 0.3	< 1	13	223	40	0.02	7.12	0.6	450	1	< 2	2.4	1.57	19	84	6	1.4	1.99	8	< 1
315285	< 2	< 0.3	12	< 0.3	< 1	12	16	22	< 0.01	6.26	0.8	390	1	< 2	< 0.5	1.65	6	39	3	0.7	1.43	8	< 1
315286	< 2	< 0.3	12	< 0.3	< 1	10	17	30	< 0.01	6.18	2.3	590	< 1	< 2	1.2	1.70	10	48	4	0.6	2.00	9	< 1
315287	< 2	< 0.3	13	< 0.3	< 1	15	19	26	< 0.01	6.21	2.7	460	1	< 2	0.9	1.47	9	41	5	0.7	2.08	8	< 1
315288	< 2	< 0.3	21	< 0.3	< 1	12	21	24	< 0.01	6.54	3.1	500	1	< 2	4.0	1.35	10	45	5	0.6	2.32	8	< 1
315289	< 2	0.4	15	< 0.3	< 1	12	18	21	0.01	6.56	3.0	350	1	< 2	6.2	1.32	8	45	4	0.6	2.19	7	< 1
315290	< 2	< 0.3	32	< 0.3	< 1	11	26	34	0.01	6.75	0.7	400	1	< 2	9.9	1.61	11	56	5	0.6	2.64	7	< 1
315291	2	< 0.3	7	< 0.3	< 1	9	10	17	< 0.01	4.94	1.5	370	< 1	< 2	3.5	6.55	3	32	1	0.6	1.21	5	< 1
315292	< 2	< 0.3	33	< 0.3	< 1	10	22	29	< 0.01	6.35	2.2	380	1	< 2	6.0	1.69	11	49	4	0.6	2.02	7	< 1
315293	< 2	< 0.3	10	< 0.3	< 1	12	15	25	< 0.01	6.20	0.8	460	1	< 2	< 0.5	1.56	7	45	4	0.6	1.65	8	< 1
315294	< 2	< 0.3	13	< 0.3	< 1	12	20	30	< 0.01	6.18	2.5	430	< 1	< 2	3.3	1.51	9	47	4	0.5	1.88	6	< 1
315295	< 2	< 0.3	26	< 0.3	< 1	14	22	58	0.01	6.15	0.8	350	< 1	< 2	10.4	1.42	8	47	4	0.6	2.00	7	< 1
315296	6	< 0.3	26	< 0.3	< 1	12	23	45	0.01	6.56	2.7	300	1	< 2	10.4	1.43	8	43	3	0.6	1.98	6	< 1
315297	< 2	< 0.3	19	< 0.3	< 1	13	22	29	0.01	6.31	3.2	400	1	< 2	7.8	1.42	8	47	3	0.6	1.93	7	< 1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315298	< 2	< 0.3	29	< 0.3	< 1	13	44	41	0.01	6.47	3.5	410	< 1	< 2	9.9	1.33	9	46	4	0.6	2.00	8	< 1
315299	< 2	< 0.3	31	< 0.3	< 1	13	44	42	< 0.01	6.60	3.4	310	1	< 2	9.1	1.32	10	43	4	0.6	1.85	7	< 1
315300	41	0.4	775	0.4	< 1	17	429	39	0.03	7.98	15.7	130	< 1	3	6.6	0.14	83	587	< 1	0.4	17.4	4	< 1
315301	< 2	< 0.3	18	< 0.3	< 1	12	56	63	0.03	5.80	3.3	160	< 1	< 2	5.3	2.92	22	152	4	0.4	3.26	6	< 1
315302	< 2	< 0.3	12	< 0.3	< 1	14	76	82	< 0.01	6.12	2.6	370	< 1	< 2	< 0.5	1.37	9	60	5	0.5	2.05	7	< 1
315303	< 2	< 0.3	46	< 0.3	< 1	13	337	110	< 0.01	6.16	0.7	360	< 1	< 2	< 0.5	1.80	13	115	5	0.4	1.83	6	< 1
315304	< 2	< 0.3	19	< 0.3	< 1	14	25	39	< 0.01	5.88	1.9	370	< 1	< 2	3.8	1.68	8	58	4	0.5	1.75	8	< 1
315305	< 2	0.8	22	< 0.3	< 1	12	20	29	< 0.01	6.08	1.9	320	1	< 2	2.0	1.50	6	37	< 1	0.5	1.29	8	< 1
315306	< 2	< 0.3	26	< 0.3	< 1	12	23	30	< 0.01	6.21	1.8	370	< 1	< 2	1.8	1.45	7	38	2	0.5	1.46	8	< 1
315307	5	< 0.3	25	< 0.3	< 1	12	68	42	0.02	6.74	2.5	280	1	< 2	10.4	1.86	12	78	4	0.8	1.98	6	< 1
315308	< 2	0.3	5	< 0.3	2	11	17	23	0.01	6.60	2.8	330	1	< 2	5.8	1.67	8	41	3	0.6	1.92	6	< 1
315309	< 2	< 0.3	9	< 0.3	< 1	13	16	26	0.01	6.21	4.3	330	< 1	< 2	2.0	1.45	7	39	1	0.5	1.56	7	< 1
315310	< 2	< 0.3	8	< 0.3	< 1	12	14	24	< 0.01	6.01	2.0	300	< 1	< 2	1.9	1.64	5	37	1	0.6	1.40	6	< 1
315311	3	< 0.3	20	< 0.3	< 1	14	24	25	0.02	6.58	2.4	340	1	< 2	5.6	1.65	11	56	4	1.1	2.11	8	< 1
315312	< 2	0.3	5	< 0.3	< 1	13	15	22	< 0.01	6.30	2.5	410	< 1	< 2	5.2	1.36	7	48	2	0.6	2.01	7	< 1
315313	< 2	0.4	12	< 0.3	< 1	12	29	38	< 0.01	6.56	2.1	290	< 1	< 2	< 0.5	2.16	15	93	2	0.6	3.05	7	< 1
315314	3	< 0.3	5	< 0.3	< 1	14	12	22	< 0.01	5.89	2.2	360	< 1	< 2	4.8	1.35	6	39	2	0.5	2.01	7	< 1
315315	< 2	0.3	16	< 0.3	< 1	12	22	35	< 0.01	6.45	3.6	260	< 1	< 2	2.5	1.94	13	51	2	0.5	3.03	6	< 1
315316	< 2	0.3	5	< 0.3	< 1	12	13	25	< 0.01	5.98	2.1	430	< 1	< 2	4.7	1.32	6	46	1	0.5	1.96	8	< 1
315317	< 2	< 0.3	14	< 0.3	< 1	14	20	31	0.03	5.96	2.8	370	< 1	< 2	7.2	1.36	9	51	3	0.6	3.16	7	< 1
315318	< 2	< 0.3	20	< 0.3	< 1	12	44	32	< 0.01	6.37	< 0.5	330	< 1	< 2	5.2	1.62	14	162	2	0.6	2.80	7	< 1
315319	< 2	0.6	15	< 0.3	< 1	10	18	28	< 0.01	6.06	1.1	400	< 1	< 2	< 0.5	1.73	9	51	< 1	0.6	1.94	8	< 1
315320	< 2	< 0.3	12	< 0.3	< 1	13	19	32	< 0.01	6.30	2.7	400	1	< 2	5.2	1.45	9	50	3	0.6	2.09	8	< 1
315321	< 2	< 0.3	6	< 0.3	< 1	15	19	24	< 0.01	6.57	3.0	560	1	< 2	5.5	1.28	7	42	3	0.5	2.12	9	< 1
315322	16	< 0.3	16	< 0.3	< 1	12	17	24	0.01	6.26	4.0	370	1	< 2	6.7	1.41	7	46	< 1	0.7	2.25	9	< 1
315323	< 2	< 0.3	6	< 0.3	< 1	14	16	27	< 0.01	6.32	3.8	470	< 1	< 2	1.5	1.31	7	42	2	0.4	2.24	8	< 1
315324	< 2	< 0.3	6	< 0.3	< 1	14	15	28	< 0.01	6.24	2.6	460	< 1	< 2	3.7	1.27	7	40	1	0.5	2.20	7	< 1
315325	< 2	< 0.3	4	< 0.3	< 1	< 3	2	6	< 0.01	0.28	0.9	< 50	< 1	< 2	< 0.5	0.03	< 1	10	< 1	< 0.2	0.66	2	< 1
315326	< 2	< 0.3	6	< 0.3	< 1	15	21	35	0.01	6.39	1.7	530	< 1	< 2	1.1	1.83	9	48	3	0.6	1.68	10	< 1
315327	< 2	< 0.3	5	< 0.3	< 1	12	11	23	0.01	6.00	3.1	540	< 1	< 2	1.5	1.38	5	43	2	0.4	2.39	7	< 1
315328	< 2	< 0.3	6	< 0.3	< 1	15	20	28	0.02	6.48	3.3	390	1	< 2	8.7	1.27	8	45	1	0.4	2.62	8	< 1
315329	< 2	< 0.3	15	< 0.3	< 1	13	18	25	0.02	6.54	4.0	410	1	< 2	10.5	1.35	9	39	< 1	0.6	2.27	7	< 1
315330	< 2	< 0.3	11	< 0.3	< 1	11	17	21	0.02	6.40	4.2	580	1	< 2	9.0	1.31	7	40	2	0.5	2.33	7	< 1
315331	< 2	0.3	11	< 0.3	< 1	13	14	22	0.01	6.21	6.1	520	< 1	< 2	5.0	1.19	8	36	1	0.5	2.05	8	< 1
315332	< 2	< 0.3	5	< 0.3	< 1	14	11	18	< 0.01	5.46	1.3	350	< 1	< 2	3.8	1.22	5	39	3	0.4	1.36	8	< 1
315333	< 2	0.5	27	< 0.3	< 1	14	18	21	0.02	6.37	3.6	350	1	< 2	6.9	1.30	7	43	2	0.5	2.07	7	< 1
315334	< 2	< 0.3	27	< 0.3	< 1	12	20	24	< 0.01	5.79	2.3	400	< 1	< 2	1.5	1.70	11	52	3	0.6	1.75	7	< 1
315335	< 2	< 0.3	45	< 0.3	< 1	< 3	7	3	0.25	0.84	1.1	< 50	< 1	< 2	11.3	2.91	< 1	10	< 1	0.7	0.49	< 1	< 1
315336	< 2	< 0.3	15	< 0.3	< 1	< 3	8	5	0.20	0.60	3.9	< 50	< 1	< 2	18.4	3.39	2	< 2	< 1	< 0.2	0.60	< 1	< 1
315337	< 2	0.3	16	< 0.3	< 1	13	19	31	0.01	6.49	3.2	320	1	< 2	5.9	1.67	9	47	< 1	0.5	2.50	7	< 1
315338	< 2	< 0.3	7	< 0.3	< 1	14	15	23	< 0.01	6.23	2.2	300	< 1	< 2	3.6	1.29	7	38	2	0.5	1.70	7	< 1
315339	< 2	0.3	9	< 0.3	< 1	14	20	32	< 0.01	5.99	2.1	260	< 1	< 2	3.6	1.23	6	40	3	0.4	1.59	6	< 1
315340	< 2	< 0.3	11	< 0.3	< 1	13	22	27	< 0.01	6.31	2.4	340	< 1	< 2	5.3	1.24	9	37	2	0.5	1.54	7	< 1
315341	< 2	< 0.3	18	< 0.3	< 1	13	17	45	< 0.01	6.02	2.3	370	< 1	< 2	5.6	1.38	7	42	3	0.6	1.48	7	< 1
315342	< 2	0.3	34	< 0.3	< 1	12	24	51	0.01	6.38	3.4	260	< 1	< 2	8.9	1.37	8	53	3	0.8	2.10	7	< 1
315343	< 2	0.5	115	< 0.3	< 1	13	38	29	0.03	7.07	3.7	400	1	< 2	20.9	1.27	10	47	< 1	0.7	2.41	7	< 1
315344	< 2	0.5	44	< 0.3	< 1	13	30	73	0.03	6.20	2.9	320	< 1	< 2	19.3	1.19	8	83	5	0.6	3.59	7	< 1
315345	< 2	< 0.3	34	< 0.3	< 1	12	245	91	0.01	6.92	2.7	370	1	< 2	6.7	1.23	20	65	7	0.6	2.35	7	< 1
315346	< 2	0.4	58	< 0.3	< 1	12	28	220	0.03	6.48	3.5	370	< 1	< 2	17.5	1.22	7	53	4	0.6	2.66	6	< 1

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315347	13	0.5	32	< 0.3	< 1	14	43	80	0.02	6.56	1.9	260	< 1	< 2	11.6	1.76	16	91	9	0.6	3.43	6	< 1
315348	< 2	< 0.3	22	< 0.3	< 1	13	29	52	0.02	5.98	2.4	270	< 1	< 2	10.4	1.85	10	83	3	0.6	4.01	7	< 1
315349	< 2	< 0.3	23	< 0.3	< 1	13	28	54	0.02	5.95	3.0	240	< 1	< 2	10.3	1.79	10	83	5	0.6	4.20	6	< 1
315350	300	< 0.3	24	< 0.3	< 1	8	106	95	< 0.01	5.84	4.4	250	2	< 2	< 0.5	1.99	26	139	4	1.5	4.67	5	1
315351	< 2	< 0.3	24	< 0.3	< 1	14	17	57	0.03	6.31	4.8	380	1	< 2	18.3	1.12	5	47	4	0.5	2.88	7	< 1
315352	< 2	< 0.3	28	< 0.3	< 1	12	17	34	0.01	6.10	3.2	340	< 1	< 2	9.2	1.32	7	42	4	0.6	2.14	7	< 1
315353	< 2	0.4	10	< 0.3	< 1	11	16	33	0.01	5.98	3.1	390	< 1	< 2	5.5	1.57	8	54	4	0.5	2.32	8	< 1
315354	< 2	< 0.3	27	< 0.3	< 1	15	20	34	0.01	6.36	1.8	310	< 1	< 2	7.3	1.42	8	51	4	0.6	2.28	8	< 1
315355	< 2	< 0.3	21	< 0.3	< 1	13	19	33	< 0.01	6.28	2.9	350	1	< 2	5.5	1.46	9	44	7	0.6	2.13	8	< 1
315356	< 2	0.5	132	< 0.3	< 1	11	33	35	0.01	6.75	0.7	310	1	< 2	5.8	1.98	12	42	4	1.2	2.39	6	< 1
315357	< 2	< 0.3	51	< 0.3	< 1	< 3	6	14	0.51	0.53	1.2	< 50	< 1	< 2	15.2	3.05	3	< 2	1	0.3	0.51	< 1	< 1
315358	3	< 0.3	28	< 0.3	< 1	13	11	45	0.01	5.57	1.3	350	< 1	< 2	< 0.5	2.07	9	37	2	0.6	2.50	8	< 1
315359	< 2	0.3	79	< 0.3	< 1	14	27	62	0.05	7.28	1.7	420	1	< 2	5.9	2.38	28	46	9	1.3	3.96	6	< 1
315360	< 2	0.4	2	< 0.3	< 1	21	5	11	< 0.01	7.52	< 0.5	760	2	< 2	< 0.5	1.66	< 1	18	2	0.8	0.42	5	< 1
315361	< 2	< 0.3	35	< 0.3	< 1	12	20	21	< 0.01	6.15	1.3	320	1	< 2	< 0.5	1.71	6	39	2	0.7	1.48	7	< 1
315362	< 2	< 0.3	7	< 0.3	< 1	13	16	21	< 0.01	6.07	1.0	390	< 1	< 2	1.2	1.35	6	40	7	0.6	1.40	8	< 1
315363	< 2	0.5	5	< 0.3	< 1	13	17	29	0.01	6.24	3.2	380	1	< 2	6.6	1.34	7	52	5	0.5	2.82	6	< 1
315364	< 2	< 0.3	10	< 0.3	< 1	12	18	24	< 0.01	6.32	< 0.5	370	1	< 2	< 0.5	1.51	6	42	5	0.6	1.61	7	< 1
315365	< 2	< 0.3	9	< 0.3	< 1	13	24	29	0.02	6.54	2.7	340	1	< 2	9.2	1.53	8	47	3	0.6	2.49	7	< 1
315366	< 2	< 0.3	9	< 0.3	< 1	12	14	22	< 0.01	6.19	1.5	460	1	< 2	1.9	1.57	6	35	3	0.6	1.36	6	< 1
315367	< 2	< 0.3	7	< 0.3	< 1	12	13	35	< 0.01	5.80	1.2	380	< 1	< 2	< 0.5	1.70	7	45	4	0.6	1.59	9	< 1
315368	4	0.4	23	< 0.3	< 1	12	16	36	0.02	6.34	2.2	400	< 1	< 2	16.2	1.44	8	56	3	0.7	2.58	8	< 1
315369	< 2	< 0.3	21	< 0.3	< 1	14	21	45	0.01	6.05	1.9	370	< 1	< 2	2.9	2.33	11	69	3	0.6	2.85	8	< 1
315370	< 2	0.4	6	< 0.3	< 1	10	20	38	< 0.01	5.27	3.2	310	< 1	< 2	< 0.5	2.36	13	65	< 1	0.6	2.90	8	< 1
315371	< 2	< 0.3	11	< 0.3	< 1	12	16	25	< 0.01	6.02	< 0.5	370	< 1	< 2	6.3	1.47	8	41	3	0.6	1.86	7	< 1
315372	< 2	< 0.3	15	< 0.3	< 1	13	39	49	0.01	5.36	3.2	420	< 1	< 2	2.3	2.35	13	119	2	0.7	2.69	8	< 1
315373	< 2	< 0.3	18	< 0.3	< 1	14	21	22	< 0.01	6.54	3.2	360	1	< 2	10.1	1.31	7	56	4	0.6	1.91	8	< 1
315374	5	< 0.3	17	< 0.3	< 1	13	20	22	0.01	6.40	2.9	410	1	< 2	10.3	1.30	6	56	2	0.6	1.96	8	< 1
315375	38	0.5	762	0.7	< 1	15	424	39	0.03	7.70	16.8	260	< 1	3	6.1	0.14	78	558	< 1	0.5	16.6	4	< 1
315376	< 2	< 0.3	22	< 0.3	< 1	15	17	34	0.03	5.95	2.6	270	< 1	< 2	12.4	1.43	7	53	4	0.5	3.08	6	< 1
315377	< 2	0.5	25	< 0.3	< 1	13	17	25	0.01	6.54	2.2	340	< 1	< 2	9.5	1.27	6	41	2	0.5	1.61	6	< 1
315378	< 2	0.4	21	< 0.3	< 1	13	20	52	0.03	6.35	2.9	280	< 1	< 2	14.7	1.25	7	48	4	0.5	2.95	6	< 1
315379	< 2	< 0.3	32	< 0.3	< 1	18	21	45	0.04	7.18	2.8	330	< 1	< 2	25.5	1.26	8	48	5	0.7	3.20	6	< 1
315380	< 2	< 0.3	15	< 0.3	< 1	13	17	21	< 0.01	6.43	1.6	340	< 1	< 2	5.3	1.44	7	40	3	0.6	1.30	7	< 1
315381	< 2	0.5	23	< 0.3	< 1	13	18	28	0.02	6.61	2.2	280	1	< 2	11.1	1.30	7	42	3	0.6	2.18	6	< 1
315382	< 2	< 0.3	47	< 0.3	< 1	13	27	28	0.01	6.70	2.0	320	1	< 2	7.5	1.44	9	43	2	0.5	1.86	5	< 1
315383	< 2	0.3	10	< 0.3	< 1	14	16	26	0.01	6.56	2.8	330	< 1	< 2	7.8	1.26	6	40	1	0.5	1.56	7	< 1
315384	< 2	< 0.3	18	< 0.3	< 1	14	27	43	< 0.01	5.96	2.9	280	< 1	< 2	4.6	1.58	9	65	3	0.5	1.74	8	< 1
315385	< 2	< 0.3	44	< 0.3	< 1	13	95	59	0.03	7.54	1.9	320	1	< 2	18.1	1.35	24	74	3	0.7	2.90	6	< 1
315386	< 2	< 0.3	16	< 0.3	< 1	14	17	27	0.02	6.35	2.6	330	< 1	< 2	16.1	1.02	5	67	3	0.7	2.39	6	< 1
315387	< 2	< 0.3	15	< 0.3	< 1	16	17	41	0.02	5.39	3.4	290	< 1	< 2	9.5	1.37	6	66	3	0.5	3.95	7	< 1

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Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315001	< 5	0.14	6	0.26	316	0.13	0.172	< 15	< 0.1	30.1	< 3	61	< 0.5	0.04	14.2	17.2	17	< 1	224	601	303	664	97.1
315002	< 5	0.54	9	1.83	1020	1.86	0.014	< 15	0.2	22.7	< 3	291	< 0.5	0.08	1.5	< 0.5	45	< 1	17	6.2	13	8	2.0
315003	< 5	1.81	14	0.87	385	2.17	0.047	25	< 0.1	9.1	< 3	343	< 0.5	0.24	5.4	2.7	61	< 1	13	18.4	39	7	3.0
315004	< 5	0.86	23	1.26	505	2.25	0.018	30	< 0.1	12.8	< 3	642	< 0.5	0.08	4.4	0.6	25	< 1	18	24.4	36	26	4.9
315005	< 5	0.73	16	2.14	747	1.85	0.010	< 15	< 0.1	21.6	< 3	201	< 0.5	0.21	3.5	< 0.5	82	< 1	16	9.1	20	< 5	2.4
315006	< 5	1.47	22	1.01	455	1.97	0.013	63	< 0.1	11.5	< 3	283	< 0.5	0.30	4.4	< 0.5	82	< 1	11	13.7	30	12	2.6
315007	< 5	1.27	19	1.17	611	1.95	0.012	37	0.2	14.8	< 3	258	< 0.5	0.29	3.7	< 0.5	93	< 1	15	16.7	40	13	3.0
315008	< 5	0.27	21	4.30	1170	2.30	0.011	< 15	< 0.1	26.9	< 3	212	< 0.5	0.34	1.1	< 0.5	151	< 1	16	3.9	10	< 5	1.9
315009	< 5	1.25	18	1.54	540	1.87	0.017	< 15	< 0.1	13.6	< 3	239	< 0.5	0.32	3.6	1.4	87	< 1	12	13.8	27	8	2.7
315010	< 5	1.44	22	1.10	537	1.93	0.010	33	0.6	15.9	< 3	250	< 0.5	0.20	5.3	2.4	57	< 1	16	22.4	46	22	3.9
315011	< 5	2.41	14	0.69	323	2.02	0.016	< 15	< 0.1	8.1	< 3	300	< 0.5	0.25	5.1	1.1	52	< 1	10	16.5	34	19	2.9
315012	< 5	1.60	15	0.49	226	1.69	0.024	< 15	< 0.1	6.4	< 3	252	< 0.5	0.14	5.5	2.8	41	< 1	8	12.8	30	10	2.3
315013	< 5	1.80	11	0.64	316	2.13	0.011	55	< 0.1	6.8	< 3	332	< 0.5	0.17	4.3	< 0.5	38	< 1	9	13.8	29	9	2.7
315014	< 5	1.76	18	0.53	265	1.91	0.019	< 15	< 0.1	6.2	< 3	305	< 0.5	0.21	5.9	1.6	39	< 1	11	19.1	41	10	3.6
315015	< 5	2.74	15	0.54	262	1.99	0.010	54	< 0.1	5.9	< 3	312	< 0.5	0.25	4.4	< 0.5	44	< 1	9	15.6	36	14	3.0
315016	< 5	1.67	17	0.46	229	1.65	0.022	19	0.1	5.5	< 3	266	< 0.5	0.28	5.0	< 0.5	56	< 1	8	13.6	30	15	2.5
315017	< 5	2.15	17	0.53	251	1.87	0.013	54	0.3	5.8	< 3	297	< 0.5	0.24	4.6	< 0.5	45	< 1	8	12.9	25	11	2.6
315018	< 5	1.93	13	0.56	285	1.91	0.023	58	< 0.1	6.6	< 3	327	< 0.5	0.24	6.2	< 0.5	43	< 1	16	26.2	48	23	5.0
315019	< 5	1.66	13	0.50	766	1.73	0.052	17	< 0.1	5.5	< 3	297	< 0.5	0.22	4.7	1.2	41	< 1	10	14.3	33	16	2.9
315020	< 5	0.11	2	0.28	140	0.10	0.121	< 15	< 0.1	3.3	< 3	61	< 0.5	0.04	3.0	3.3	9	< 1	11	19.5	42	33	3.7
315021	< 5	1.73	14	0.50	236	1.81	0.012	80	0.2	5.4	< 3	288	< 0.5	0.22	4.3	0.9	52	< 1	8	12.5	28	8	2.2
315022	< 5	1.95	14	0.47	238	1.82	0.008	< 15	< 0.1	5.3	< 3	299	< 0.5	0.22	4.4	< 0.5	45	< 1	8	13.7	28	11	2.5
315023	< 5	1.78	23	0.57	319	1.91	0.014	27	0.2	6.4	< 3	276	< 0.5	0.10	5.6	1.6	16	< 1	10	17.8	49	15	3.0
315024	< 5	1.83	12	0.53	248	2.06	0.027	41	< 0.1	6.2	< 3	301	< 0.5	0.22	4.4	< 0.5	50	< 1	9	14.3	32	< 5	2.4
315025	< 5	0.11	8	0.04	144	0.12	0.005	< 15	0.4	0.9	< 3	8	< 0.5	0.05	1.6	0.5	10	< 1	4	4.0	10	< 5	0.6
315026	< 5	0.06	2	0.37	55	0.08	0.133	< 15	< 0.1	4.4	< 3	59	< 0.5	0.03	4.0	9.1	28	< 1	26	60.8	110	55	7.7
315027	< 5	1.60	19	0.61	1190	1.65	0.058	56	0.4	6.7	< 3	271	< 0.5	0.22	7.1	1.9	42	< 1	14	24.7	62	22	4.2
315028	< 5	0.08	1	0.28	627	0.09	0.058	< 15	0.1	2.8	< 3	59	< 0.5	0.03	2.3	2.3	7	< 1	5	6.8	14	< 5	1.3
315029	< 5	0.44	6	0.41	187	0.60	0.049	< 15	0.4	4.7	< 3	111	< 0.5	0.13	3.2	< 0.5	28	< 1	9	17.5	38	11	2.6
315030	< 5	0.89	9	1.41	681	1.29	0.015	< 15	< 0.1	15.4	< 3	162	< 0.5	0.32	3.7	1.4	61	< 1	14	10.5	24	8	2.2
315031	< 5	1.37	11	1.07	485	1.93	0.005	< 15	< 0.1	12.3	< 3	294	< 0.5	0.20	5.1	1.3	46	< 1	11	13.3	33	12	2.3
315032	< 5	1.68	10	0.52	263	1.88	0.012	44	< 0.1	6.7	< 3	273	< 0.5	0.20	5.1	< 0.5	38	< 1	8	14.2	34	10	2.2
315033	< 5	1.60	16	0.56	276	1.62	0.046	16	< 0.1	6.2	< 3	272	< 0.5	0.19	4.2	0.9	47	< 1	9	13.3	33	8	2.4
315034	< 5	1.80	13	0.63	297	1.95	0.022	83	< 0.1	6.6	< 3	319	< 0.5	0.13	3.9	< 0.5	26	< 1	10	16.3	29	14	3.2
315035	< 5	1.55	33	0.96	472	1.54	0.035	34	0.2	10.1	< 3	243	< 0.5	0.10	6.1	2.5	35	< 1	14	25.8	54	29	4.6
315036	< 5	0.36	10	0.97	353	0.38	0.159	< 15	< 0.1	8.6	< 3	97	< 0.5	0.13	4.4	3.5	33	< 1	34	34.9	45	40	7.8
315037	< 5	1.13	22	1.47	621	1.39	0.018	< 15	0.1	13.3	< 3	208	< 0.5	0.32	4.4	1.9	77	< 1	14	16.5	31	12	3.3
315038	< 5	1.27	13	0.99	512	1.50	0.016	< 15	0.3	11.8	< 3	211	< 0.5	0.28	4.0	0.9	78	< 1	11	13.7	25	8	2.6
315039	< 5	1.77	20	0.47	233	1.77	0.022	56	< 0.1	5.6	< 3	315	< 0.5	0.29	4.0	1.1	63	< 1	8	14.3	28	12	2.5
315040	< 5	0.33	21	1.05	566	0.48	0.173	< 15	< 0.1	10.6	< 3	134	< 0.5	0.23	3.7	< 0.5	65	< 1	18	19.6	39	18	5.8
315041	< 5	0.12	3	0.27	140	0.11	0.164	< 15	< 0.1	4.8	< 3	59	< 0.5	0.05	2.8	0.8	9	< 1	11	15.9	23	26	3.5
315042	< 5	1.57	13	0.64	301	1.85	0.018	34	< 0.1	7.1	< 3	289	< 0.5	0.09	4.3	1.2	20	< 1	9	15.1	27	14	2.8
315043	< 5	1.66	16	0.70	309	1.83	0.009	105	0.2	7.5	< 3	287	< 0.5	0.04	4.0	0.6	9	< 1	9	14.5	31	10	2.8
315044	< 5	1.57	11	0.70	340	1.97	0.011	94	< 0.1	7.8	< 3	309	< 0.5	0.30	4.2	1.7	56	< 1	10	15.6	29	11	2.9
315045	< 5	2.22	13	0.46	250	1.97	0.014	32	< 0.1	5.5	< 3	312	< 0.5	0.25	4.2	< 0.5	40	< 1	9	16.3	30	14	3.0
315046	< 5	2.23	12	0.42	247	1.89	0.023	25	< 0.1	5.0	< 3	309	< 0.5	0.26	4.6	1.2	46	< 1	8	14.6	31	13	2.7
315047	< 5	2.39	11	0.50	262	1.87	0.009	55	0.1	5.4	< 3	301	< 0.5	0.24	3.7	1.3	45	< 1	8	12.5	26	6	2.2
315048	< 5	1.66	15	0.58	260	1.87	0.012	67	0.2	6.4	< 3	295	< 0.5	0.14	4.3	0.5	35	< 1	8	12.9	25	9	2.3
315049	< 5	1.67	16	0.61	278	1.89	0.015	28	0.3	6.9	< 3	296	< 0.5	0.12	3.8	1.6	28	< 1	8	12.6	25	8	2.3
315050	< 5	1.59	20	1.42	609	1.38	0.117	110	0.4	9.4	< 3	421	< 0.5	0.18	8.3	2.0	29	< 1	20	39.5	73	36	7.9
315051	< 5	0.16	2	0.49	187	0.19	0.064	< 15	< 0.1	4.0	< 3	86	< 0.5	0.07	2.4	3.3	22	< 1	13	12.6	10	19	2.6

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315052	< 5	0.07	1	0.39	166	0.08	0.053	< 15	0.3	1.0	< 3	62	< 0.5	0.02	0.9	< 0.5	7	< 1	2	2.6	< 3	< 5	0.5
315053	< 5	0.06	< 1	0.28	1780	0.07	0.078	29	0.4	0.9	< 3	48	< 0.5	0.02	0.9	< 0.5	8	< 1	2	3.5	9	< 5	0.6
315054	< 5	1.62	15	1.47	415	1.95	0.031	34	< 0.1	8.2	< 3	300	< 0.5	0.24	4.3	< 0.5	53	< 1	12	15.9	33	10	3.4
315055	< 5	2.49	12	0.45	229	2.10	0.014	99	< 0.1	5.7	< 3	322	< 0.5	0.23	5.0	< 0.5	41	< 1	9	18.0	35	17	2.6
315056	< 5	0.42	14	0.52	5040	0.44	0.207	18	0.3	7.7	< 3	109	< 0.5	0.31	6.2	< 0.5	72	< 1	13	26.0	66	26	4.6
315057	< 5	0.50	9	0.35	3690	0.54	0.183	< 15	< 0.1	6.8	< 3	120	< 0.5	0.16	6.6	0.8	95	< 1	15	32.4	85	15	5.0
315058	< 5	0.07	2	0.27	559	0.07	0.141	< 15	0.4	4.1	< 3	51	< 0.5	0.03	2.7	< 0.5	24	< 1	10	18.9	57	24	3.3
315059	< 5	0.66	6	0.44	4040	0.66	0.093	15	< 0.1	5.8	< 3	135	< 0.5	0.14	3.2	< 0.5	35	< 1	12	21.2	39	6	3.6
315060	< 5	0.29	3	0.31	4720	0.33	0.113	< 15	< 0.1	5.8	< 3	90	< 0.5	0.08	4.9	0.9	32	< 1	17	34.6	89	27	5.6
315061	< 5	0.04	< 1	0.40	97	0.05	0.093	< 15	0.3	1.5	< 3	58	< 0.5	0.01	1.1	5.6	14	< 1	6	5.4	13	< 5	0.9
315062	< 5	0.10	2	0.34	331	0.09	0.126	< 15	< 0.1	3.3	< 3	66	< 0.5	0.03	2.1	4.7	8	< 1	11	11.7	18	19	2.0
315063	< 5	0.05	< 1	0.37	147	0.07	0.074	< 15	< 0.1	1.0	< 3	52	< 0.5	0.01	< 0.2	16.0	20	< 1	2	3.3	8	< 5	0.4
315064	< 5	1.44	16	0.50	346	1.71	0.042	< 15	0.3	6.7	< 3	265	< 0.5	0.19	5.0	< 0.5	50	< 1	9	16.5	38	14	2.5
315065	< 5	1.86	15	0.45	244	2.02	0.027	38	0.2	5.5	< 3	319	< 0.5	0.13	4.9	< 0.5	30	< 1	9	15.4	36	14	2.4
315066	< 5	1.81	16	0.52	261	1.98	0.049	68	0.1	5.8	< 3	307	< 0.5	0.24	5.3	1.0	49	< 1	9	16.4	44	10	2.5
315067	< 5	1.84	15	0.49	274	2.10	0.032	94	< 0.1	6.1	< 3	314	< 0.5	0.27	5.7	< 0.5	51	< 1	10	17.9	40	21	2.9
315068	< 5	1.82	16	0.45	243	1.85	0.038	58	< 0.1	5.3	< 3	302	< 0.5	0.26	5.2	1.4	45	< 1	9	15.4	34	13	2.4
315069	< 5	2.46	10	0.39	205	2.02	0.016	84	0.2	4.8	< 3	332	< 0.5	0.22	3.8	0.9	37	< 1	7	12.6	29	11	2.0
315070	< 5	1.86	12	0.47	240	2.04	0.035	47	< 0.1	5.6	< 3	329	< 0.5	0.20	5.2	< 0.5	38	< 1	9	15.1	37	8	2.5
315071	< 5	1.86	17	0.62	305	1.89	0.024	68	< 0.1	6.7	< 3	303	< 0.5	0.09	4.3	< 0.5	23	< 1	8	13.2	32	10	2.1
315072	< 5	1.87	16	0.50	271	1.90	0.062	73	< 0.1	5.7	< 3	310	< 0.5	0.24	5.0	0.8	50	< 1	9	15.3	36	12	2.3
315073	< 5	1.92	16	0.47	254	1.95	0.047	67	0.1	5.4	< 3	304	< 0.5	0.23	4.3	0.9	47	< 1	7	13.1	32	10	2.0
315074	< 5	1.97	17	0.49	253	1.81	0.047	70	< 0.1	5.2	< 3	299	< 0.5	0.22	4.8	0.5	45	< 1	8	12.6	31	10	1.9
315075	< 5	0.19	13	0.23	396	0.10	0.015	< 15	0.3	53.6	< 3	29	< 0.5	0.30	8.3	< 0.5	197	< 1	9	12.8	34	7	2.4
315076	< 5	2.20	16	0.46	236	2.03	0.039	36	0.2	6.3	< 3	293	< 0.5	0.25	6.3	0.9	49	< 1	8	17.8	39	13	2.8
315077	< 5	1.77	19	0.48	263	1.92	0.032	72	0.1	6.7	< 3	289	< 0.5	0.14	6.2	< 0.5	29	< 1	8	17.2	40	11	2.7
315078	< 5	2.03	12	0.36	193	1.96	0.012	69	0.2	5.4	< 3	299	< 0.5	0.09	5.7	0.9	14	< 1	7	16.2	36	14	2.3
315079	< 5	1.91	14	0.44	238	2.18	0.035	77	< 0.1	5.9	< 3	345	< 0.5	0.19	6.1	< 0.5	34	< 1	9	19.3	41	16	3.2
315080	< 5	1.88	12	0.40	242	2.07	0.015	121	< 0.1	5.5	< 3	315	< 0.5	0.12	5.9	< 0.5	20	< 1	7	15.2	34	16	2.3
315081	< 5	1.67	14	0.66	298	1.99	0.012	30	0.3	8.6	< 3	285	< 0.5	0.25	5.9	0.7	51	< 1	10	19.6	48	18	3.5
315082	< 5	1.66	15	0.65	279	1.81	0.019	23	0.2	9.2	< 3	273	< 0.5	0.28	5.6	1.1	63	< 1	9	15.7	44	10	2.6
315083	< 5	0.78	12	0.45	888	0.71	0.246	< 15	0.4	14.8	< 3	157	< 0.5	0.12	11.9	6.6	38	< 1	44	75.5	74	70	12.8
315084	< 5	1.67	32	1.33	355	1.94	0.013	50	< 0.1	10.1	< 3	272	< 0.5	0.09	5.5	0.6	21	< 1	10	18.3	36	17	3.0
315085	< 5	0.18	3	0.51	1040	0.13	0.164	< 15	0.1	5.0	< 3	80	< 0.5	0.06	4.6	2.7	29	< 1	16	21.9	22	25	3.8
315086	< 5	1.54	11	1.10	401	1.80	0.008	79	< 0.1	11.1	< 3	258	< 0.5	0.11	5.3	1.1	26	< 1	8	14.2	35	16	2.2
315087	< 5	1.40	16	1.07	386	1.75	0.031	< 15	< 0.1	9.1	< 3	265	< 0.5	0.16	4.2	0.6	49	< 1	9	13.4	36	8	2.2
315088	< 5	1.94	12	0.57	281	2.10	0.015	53	< 0.1	6.3	< 3	314	< 0.5	0.07	4.3	1.3	12	< 1	9	14.4	33	11	2.4
315089	< 5	1.98	13	0.48	243	2.07	0.006	70	0.3	5.8	< 3	320	< 0.5	0.23	5.0	1.6	34	< 1	10	16.4	37	9	2.7
315090	< 5	1.70	21	0.58	269	1.83	0.035	29	0.2	7.0	< 3	278	< 0.5	0.21	4.8	1.7	49	< 1	9	13.4	33	10	2.3
315091	< 5	1.72	10	0.66	314	2.01	0.027	41	< 0.1	7.3	< 3	305	< 0.5	0.23	5.3	< 0.5	49	< 1	10	14.8	36	12	2.7
315092	< 5	1.89	13	1.09	297	2.06	0.036	63	< 0.1	6.9	< 3	319	< 0.5	0.11	5.6	2.2	25	< 1	12	19.8	44	14	3.4
315093	< 5	1.78	13	0.49	249	1.90	0.031	46	0.2	5.7	< 3	305	< 0.5	0.13	5.7	1.1	28	< 1	9	16.7	44	9	2.6
315094	< 5	1.91	13	0.43	215	1.88	0.014	73	< 0.1	5.2	< 3	304	< 0.5	0.09	4.7	1.5	13	< 1	9	13.8	31	11	2.3
315095	< 5	1.71	13	0.90	423	1.96	0.039	39	< 0.1	8.3	< 3	312	< 0.5	0.08	4.7	0.5	21	< 1	12	14.1	36	14	2.6
315096	< 5	1.67	12	0.52	269	1.93	0.014	57	0.2	6.4	< 3	295	< 0.5	0.27	4.9	< 0.5	47	< 1	8	14.1	35	8	2.3
315097	< 5	0.07	1	0.25	213	0.07	0.057	< 15	0.2	2.1	< 3	61	< 0.5	0.02	1.6	< 0.5	7	< 1	7	9.5	11	12	1.8
315098	< 5	1.65	21	0.67	317	1.93	0.015	25	0.2	8.3	< 3	279	< 0.5	0.30	5.8	1.8	73	< 1	10	14.7	36	8	2.4
315099	< 5	1.62	19	0.68	310	1.93	0.017	16	< 0.1	8.1	< 3	281	< 0.5	0.08	5.7	1.8	30	< 1	9	14.4	35	16	2.4
315100	< 5	0.14	8	0.07	125	0.17	0.006	< 15	0.2	0.8	< 3	7	< 0.5	0.04	1.3	< 0.5	8	< 1	4	2.6	8	< 5	0.6
315101	< 5	1.51	18	0.45	253	1.48	0.026	35	0.1	5.8	< 3	252	< 0.5	0.16	6.1	0.9	34	< 1	8	13.4	31	6	2.2
315102	< 5	0.28	7	1.83	621	0.55	0.066	< 15	0.2	15.9	5	79	< 0.5	0.24	2.1	< 0.5	81	< 1	13	7.4	19	7	1.9

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315103	< 5	0.06	< 1	0.25	307	0.04	0.088	< 15	0.1	2.2	< 3	51	< 0.5	0.02	1.8	< 0.5	9	< 1	11	13.5	16	8	2.3
315104	< 5	0.10	2	0.26	351	0.06	0.074	< 15	< 0.1	2.6	< 3	61	< 0.5	0.03	2.4	< 0.5	9	< 1	12	14.9	14	10	2.4
315105	< 5	0.06	1	0.24	318	0.06	0.063	< 15	< 0.1	2.6	< 3	51	< 0.5	0.02	2.1	0.8	11	< 1	8	8.9	16	9	1.7
315106	< 5	0.05	< 1	0.23	534	0.05	0.079	< 15	0.2	1.6	< 3	52	< 0.5	0.02	1.5	< 0.5	7	< 1	5	5.3	13	8	1.1
315107	< 5	0.15	2	0.24	334	0.13	0.096	< 15	< 0.1	4.4	< 3	57	< 0.5	0.04	3.8	1.7	30	< 1	16	21.6	35	19	3.9
315108	< 5	0.11	2	0.23	310	0.12	0.099	< 15	< 0.1	3.7	< 3	51	< 0.5	0.03	2.9	1.9	31	< 1	16	25.7	32	17	3.8
315109	< 5	0.19	3	0.23	391	0.20	0.133	< 15	< 0.1	5.1	< 3	61	< 0.5	0.05	4.8	2.8	43	< 1	19	32.8	42	23	4.8
315110	< 5	0.26	5	0.26	614	0.24	0.266	< 15	< 0.1	8.2	< 3	73	< 0.5	0.08	6.8	3.7	86	< 1	26	49.1	75	43	7.4
315111	< 5	0.20	3	0.31	7620	0.21	0.083	< 15	0.3	2.3	< 3	83	< 0.5	0.07	1.3	0.7	16	< 1	7	10.9	18	< 5	1.6
315112	< 5	1.74	15	0.71	356	2.00	0.038	73	< 0.1	7.8	< 3	314	< 0.5	0.25	4.1	0.8	62	< 1	10	13.6	32	7	2.3
315113	< 5	1.00	10	0.49	290	1.03	0.150	28	0.3	8.3	< 3	198	< 0.5	0.13	6.3	2.9	38	< 1	18	32.0	56	27	5.3
315114	< 5	0.78	8	0.43	357	0.81	0.108	< 15	< 0.1	6.3	< 3	155	< 0.5	0.13	5.3	2.7	37	< 1	18	31.7	54	24	4.7
315115	< 5	0.50	5	0.32	440	0.47	0.108	< 15	< 0.1	4.5	< 3	112	< 0.5	0.09	3.4	2.3	20	< 1	14	22.0	30	20	3.3
315116	< 5	0.11	2	0.23	393	0.14	0.086	< 15	0.3	2.9	< 3	57	< 0.5	0.03	2.5	< 0.5	16	< 1	10	17.2	23	8	2.6
315117	< 5	1.26	21	1.37	606	1.79	0.028	23	< 0.1	13.7	< 3	262	< 0.5	0.24	4.5	< 0.5	83	< 1	11	12.2	30	10	2.5
315118	< 5	1.59	11	0.86	382	1.86	0.026	77	< 0.1	8.2	< 3	293	< 0.5	0.14	5.1	0.9	37	< 1	10	17.7	39	12	2.8
315119	< 5	1.89	15	0.44	222	1.72	0.011	107	0.2	5.4	< 3	297	< 0.5	0.26	4.4	< 0.5	43	< 1	9	14.4	30	11	2.3
315120	< 5	2.45	10	0.52	284	1.98	0.021	19	< 0.1	5.9	< 3	338	< 0.5	0.24	5.5	1.1	40	< 1	10	18.9	42	12	3.1
315121	< 5	1.80	14	0.49	249	1.72	0.032	32	< 0.1	5.5	< 3	311	< 0.5	0.11	4.6	1.4	23	< 1	10	15.2	34	13	2.7
315122	< 5	0.09	1	0.25	139	0.09	0.109	< 15	< 0.1	6.5	< 3	61	< 0.5	0.03	4.4	0.6	11	< 1	28	41.9	29	31	6.7
315123	< 5	1.69	14	0.63	295	1.74	0.031	< 15	< 0.1	6.7	< 3	296	< 0.5	0.19	3.9	0.8	42	< 1	9	14.1	35	10	2.3
315124	< 5	1.60	14	0.58	263	1.74	0.023	26	< 0.1	6.7	< 3	279	< 0.5	0.10	3.4	0.7	25	< 1	9	14.0	29	8	2.3
315125	< 5	1.58	19	1.41	595	1.27	0.107	79	0.2	9.2	< 3	416	1.5	0.17	7.8	2.2	27	< 1	20	37.3	71	36	6.4
315126	< 5	0.04	< 1	0.25	198	0.07	0.077	23	0.1	2.1	< 3	51	< 0.5	0.01	1.4	< 0.5	8	< 1	9	14.2	12	14	2.2
315127	< 5	0.08	2	0.22	250	0.10	0.126	< 15	< 0.1	6.9	< 3	55	< 0.5	0.03	4.4	1.6	17	< 1	34	61.2	63	51	9.6
315128	< 5	0.51	9	0.62	769	0.61	0.044	< 15	< 0.1	13.8	< 3	100	< 0.5	0.19	3.5	< 0.5	53	< 1	15	17.9	29	13	3.0
315129	< 5	1.75	18	0.37	191	1.56	0.021	50	< 0.1	5.1	< 3	268	< 0.5	0.09	4.5	0.9	25	< 1	8	13.4	28	10	2.2
315130	< 5	1.45	10	0.89	419	1.73	0.008	< 15	< 0.1	10.3	< 3	260	< 0.5	0.12	3.8	< 0.5	29	< 1	10	11.3	27	8	2.0
315131	< 5	1.47	16	1.16	395	1.81	0.022	49	< 0.1	10.6	< 3	264	< 0.5	0.21	3.1	0.9	56	< 1	9	11.9	28	8	2.3
315132	< 5	1.22	16	1.63	546	1.58	0.027	< 15	< 0.1	12.9	< 3	226	< 0.5	0.22	3.5	0.6	79	< 1	10	9.4	24	< 5	2.0
315133	< 5	1.65	17	0.91	361	1.75	0.027	58	0.1	8.5	< 3	269	< 0.5	0.13	3.7	< 0.5	34	< 1	9	12.6	28	7	2.3
315134	< 5	1.93	10	0.53	252	1.81	0.016	< 15	< 0.1	5.9	< 3	302	< 0.5	0.25	4.5	1.0	50	< 1	8	13.8	33	10	2.3
315135	< 5	0.09	1	0.32	92	0.10	0.103	< 15	0.2	5.1	< 3	77	< 0.5	0.03	3.0	2.3	11	< 1	41	69.7	26	87	10.8
315136	< 5	0.13	2	0.34	173	0.12	0.134	< 15	0.3	10.0	< 3	80	< 0.5	0.05	5.4	5.8	15	< 1	62	96.2	39	82	15.1
315137	< 5	1.39	13	1.14	442	1.76	0.026	19	< 0.1	11.1	< 3	260	< 0.5	0.19	4.3	0.9	56	< 1	11	13.9	34	14	2.7
315138	< 5	0.15	1	0.28	132	0.12	0.090	< 15	0.3	2.4	< 3	73	< 0.5	0.04	2.1	< 0.5	10	< 1	14	29.5	44	41	4.3
315139	< 5	1.44	18	0.95	370	1.61	0.024	< 15	0.1	9.3	< 3	249	< 0.5	0.23	3.7	< 0.5	64	< 1	9	11.4	31	7	2.2
315140	< 5	0.08	1	0.34	233	0.13	0.060	< 15	< 0.1	2.4	< 3	62	< 0.5	0.02	1.3	7.4	11	< 1	13	22.7	7	23	3.5
315141	< 5	1.85	13	0.63	312	2.04	0.030	79	< 0.1	6.9	< 3	318	< 0.5	0.25	4.4	0.8	47	< 1	10	15.7	34	9	2.9
315142	< 5	1.76	11	0.27	157	1.83	0.011	74	< 0.1	4.7	< 3	282	< 0.5	0.24	4.8	< 0.5	37	< 1	7	13.9	29	13	2.3
315143	< 5	2.41	14	0.44	332	1.89	0.022	103	< 0.1	5.1	< 3	316	< 0.5	0.25	4.7	0.5	46	< 1	9	13.8	31	7	2.3
315144	< 5	1.92	16	0.46	246	1.99	0.043	83	< 0.1	5.4	< 3	323	< 0.5	0.13	4.7	1.6	31	< 1	8	14.8	32	12	2.5
315145	< 5	1.98	18	0.56	286	1.86	0.043	89	0.1	6.1	< 3	307	< 0.5	0.22	4.8	1.0	44	< 1	9	15.9	36	14	2.7
315146	< 5	1.98	13	0.47	239	1.90	0.035	70	0.2	5.2	< 3	319	< 0.5	0.23	4.1	< 0.5	42	< 1	8	13.4	35	10	2.3
315147	< 5	1.89	16	0.45	250	1.92	0.045	84	< 0.1	5.2	< 3	327	< 0.5	0.26	4.6	0.7	47	< 1	8	13.7	34	9	2.3
315148	< 5	1.85	21	0.60	272	1.89	0.043	89	< 0.1	7.0	< 3	303	< 0.5	0.17	4.9	< 0.5	40	< 1	10	15.3	48	14	2.8
315149	< 5	1.75	20	0.60	270	1.92	0.028	82	< 0.1	7.0	< 3	298	< 0.5	0.12	4.8	0.9	28	< 1	9	14.9	40	14	2.7
315150	< 5	0.20	13	0.25	404	0.12	0.021	< 15	0.5	57.8	< 3	29	1.0	0.50	7.6	0.8	173	< 1	11	12.8	28	6	2.6
315151	< 5	1.95	14	0.51	283	2.08	0.034	72	< 0.1	5.9	< 3	351	< 0.5	0.12	4.9	1.7	23	< 1	10	16.8	37	14	3.2
315152	< 5	0.68	9	0.47	653	0.63	0.136	< 15	0.3	4.1	< 3	153	< 0.5	0.15	4.2	9.7	27	< 1	8	13.9	27	7	2.2
315153	< 5	1.12	23	0.79	829	1.13	0.138	< 15	0.3	8.7	< 3	222	< 0.5	0.28	7.6	7.2	58	< 1	13	25.3	54	23	4.3

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315154	< 5	1.87	15	0.43	232	1.74	0.039	46	< 0.1	4.7	< 3	309	< 0.5	0.23	4.1	< 0.5	45	< 1	8	12.6	31	7	2.1
315155	< 5	2.01	10	0.43	266	2.01	0.020	58	< 0.1	4.7	< 3	353	< 0.5	0.13	3.8	1.7	19	< 1	8	12.7	28	9	2.2
315156	< 5	1.95	15	0.55	432	2.14	0.053	25	< 0.1	5.2	< 3	463	< 0.5	0.22	3.6	0.8	40	< 1	9	11.8	31	11	2.2
315157	< 5	1.84	10	0.43	228	1.94	0.036	69	< 0.1	4.6	< 3	348	< 0.5	0.21	3.9	1.6	37	< 1	9	13.3	33	8	2.4
315158	< 5	1.90	9	0.43	249	2.03	0.046	82	< 0.1	4.8	< 3	350	< 0.5	0.21	4.6	0.7	33	< 1	10	14.4	33	11	2.8
315159	< 5	1.80	13	0.52	269	1.96	0.031	28	< 0.1	5.6	< 3	345	< 0.5	0.23	4.7	0.8	45	< 1	9	14.4	53	11	2.5
315160	< 5	1.82	13	0.44	233	1.89	0.039	43	< 0.1	5.3	< 3	319	< 0.5	0.17	4.8	< 0.5	35	< 1	9	14.1	39	11	2.5
315161	< 5	1.82	15	0.46	249	1.92	0.063	19	< 0.1	5.6	< 3	319	< 0.5	0.24	5.3	1.8	47	< 1	9	17.6	48	12	2.7
315162	< 5	1.88	14	0.49	256	1.96	0.077	70	< 0.1	5.7	< 3	325	< 0.5	0.24	5.5	0.6	49	< 1	9	16.1	39	13	2.7
315163	< 5	1.88	13	0.44	221	1.93	0.049	20	0.1	5.0	< 3	314	< 0.5	0.22	4.7	0.7	41	< 1	8	15.1	43	10	2.4
315164	< 5	1.90	11	0.45	236	1.86	0.033	< 15	< 0.1	4.7	< 3	329	< 0.5	0.22	4.9	1.0	38	< 1	9	15.2	47	< 5	2.3
315165	< 5	1.91	16	0.46	234	1.83	0.030	92	< 0.1	5.2	< 3	311	< 0.5	0.12	4.7	0.5	23	< 1	9	14.8	35	8	2.4
315166	< 5	1.79	11	0.89	349	1.95	0.056	30	< 0.1	8.4	< 3	303	< 0.5	0.18	4.3	< 0.5	48	< 1	11	16.0	33	8	2.9
315167	< 5	1.72	11	0.51	238	1.71	0.025	< 15	< 0.1	5.6	< 3	292	< 0.5	0.17	4.4	< 0.5	37	< 1	8	13.4	36	7	2.2
315168	< 5	1.97	9	0.45	264	2.00	0.034	80	< 0.1	4.7	< 3	362	< 0.5	0.18	4.0	0.7	30	< 1	10	14.6	32	9	2.5
315169	< 5	1.87	12	0.70	300	2.02	0.036	117	< 0.1	7.0	< 3	327	< 0.5	0.22	3.9	< 0.5	45	< 1	11	17.4	35	15	3.1
315170	< 5	1.81	10	0.67	295	2.02	0.031	80	< 0.1	6.5	< 3	322	< 0.5	0.22	3.7	< 0.5	46	< 1	10	13.9	31	10	2.6
315171	< 5	1.84	11	0.45	209	1.95	0.008	50	< 0.1	5.0	< 3	328	< 0.5	0.17	4.1	0.7	21	< 1	8	13.8	30	9	2.3
315172	< 5	1.79	14	0.64	295	2.12	0.022	49	< 0.1	6.4	< 3	321	< 0.5	0.22	4.3	1.0	42	< 1	9	16.0	32	9	2.8
315173	< 5	1.36	8	0.98	409	1.88	0.015	< 15	< 0.1	11.5	< 3	245	< 0.5	0.09	3.5	< 0.5	26	< 1	10	12.8	26	11	2.2
315174	< 5	1.41	8	1.04	428	1.84	0.013	20	< 0.1	10.9	< 3	250	< 0.5	0.08	3.3	0.8	19	< 1	10	12.4	28	< 5	2.1
315175	< 5	0.13	8	0.03	204	0.12	0.003	< 15	0.2	0.8	< 3	6	< 0.5	0.03	1.6	< 0.5	6	< 1	3	3.0	6	< 5	0.5
315176	< 5	1.65	9	0.99	358	1.84	0.015	89	< 0.1	9.1	< 3	281	< 0.5	0.09	3.3	0.6	29	< 1	8	11.0	27	11	1.9
315177	< 5	1.92	14	0.55	254	2.01	0.030	31	< 0.1	6.1	< 3	327	< 0.5	0.21	4.8	0.6	41	< 1	9	15.6	33	13	2.6
315178	< 5	1.46	7	0.45	277	1.48	0.011	50	< 0.1	5.9	< 3	234	< 0.5	0.24	4.9	0.8	29	< 1	9	13.5	32	6	2.0
315179	< 5	1.89	15	0.56	353	1.81	0.091	92	0.2	7.2	< 3	317	1.4	0.23	5.5	0.6	45	< 1	17	24.4	41	15	4.3
315180	< 5	1.78	14	0.56	271	2.00	0.034	38	< 0.1	7.0	< 3	322	< 0.5	0.14	5.7	0.6	30	< 1	13	24.0	51	20	4.7
315181	< 5	1.73	15	0.57	304	1.94	0.048	50	0.1	6.9	< 3	311	< 0.5	0.19	4.6	0.9	42	< 1	10	15.4	39	13	2.8
315182	< 5	1.79	15	0.49	314	1.99	0.060	113	< 0.1	7.3	< 3	301	< 0.5	0.22	4.9	< 0.5	55	< 1	9	16.7	35	12	2.8
315183	< 5	1.76	11	0.59	305	1.96	0.062	27	< 0.1	6.5	< 3	323	< 0.5	0.22	5.3	0.9	48	< 1	10	16.0	45	9	2.7
315184	< 5	1.89	15	0.48	248	1.83	0.033	94	< 0.1	5.7	< 3	305	< 0.5	0.24	4.8	0.6	42	< 1	9	15.8	34	12	2.5
315185	< 5	1.66	13	0.69	263	1.50	0.010	79	< 0.1	7.8	< 3	229	< 0.5	0.13	4.7	1.5	23	< 1	10	14.6	31	8	2.3
315186	< 5	1.50	13	0.68	325	1.59	0.020	46	< 0.1	7.5	< 3	260	< 0.5	0.22	4.8	< 0.5	51	< 1	9	13.1	26	9	2.2
315187	< 5	1.75	12	0.41	220	1.67	0.013	33	0.2	5.6	< 3	276	< 0.5	0.06	5.0	0.7	14	< 1	8	14.6	30	11	2.3
315188	< 5	1.93	12	0.48	250	1.95	0.014	50	< 0.1	5.8	< 3	336	< 0.5	0.15	5.2	< 0.5	25	< 1	9	17.3	32	11	2.8
315189	< 5	1.75	14	0.77	365	1.77	0.027	45	< 0.1	7.1	< 3	294	< 0.5	0.22	4.7	< 0.5	49	< 1	10	14.1	34	9	2.4
315190	< 5	1.83	18	0.43	224	1.58	0.031	18	0.1	5.1	< 3	288	< 0.5	0.23	4.7	0.8	48	< 1	7	12.8	25	8	2.0
315191	< 5	1.86	13	0.44	224	1.77	0.024	66	0.3	5.8	< 3	299	< 0.5	0.17	5.6	0.7	37	< 1	8	15.4	34	12	2.4
315192	< 5	1.21	13	3.32	674	1.26	0.023	41	< 0.1	12.1	< 3	182	< 0.5	0.17	3.5	< 0.5	83	< 1	9	11.7	26	7	2.1
315193	< 5	1.81	15	0.67	288	1.89	0.009	66	< 0.1	6.3	< 3	298	< 0.5	0.28	4.3	1.1	55	< 1	8	13.9	27	10	2.3
315194	< 5	1.45	18	1.02	864	1.76	0.047	< 15	0.2	14.2	< 3	261	< 0.5	0.16	6.6	1.0	50	< 1	24	33.6	55	33	7.3
315195	< 5	1.35	21	0.77	663	1.48	0.130	63	< 0.1	9.3	< 3	238	< 0.5	0.25	5.8	1.3	68	< 1	16	22.1	49	20	4.2
315196	< 5	1.93	13	0.56	292	1.73	0.011	73	< 0.1	6.9	< 3	283	< 0.5	0.08	4.5	1.0	18	< 1	9	14.7	30	10	2.4
315197	< 5	1.80	13	0.48	245	1.86	0.025	26	< 0.1	5.8	< 3	298	< 0.5	0.17	4.9	< 0.5	34	< 1	8	14.6	32	9	2.4
315198	< 5	1.81	12	0.36	193	1.77	0.012	59	< 0.1	5.3	< 3	283	< 0.5	0.12	4.8	1.8	24	< 1	7	13.9	32	10	2.1
315199	< 5	1.79	13	0.36	196	1.63	0.010	55	0.2	5.0	< 3	275	< 0.5	0.26	4.2	1.1	49	< 1	7	12.7	29	8	1.9
315200	< 5	1.59	20	1.44	619	1.40	0.112	126	0.2	9.8	< 3	423	< 0.5	0.36	9.0	1.1	48	< 1	21	38.8	77	31	7.2
315201	< 5	0.54	32	1.24	744	2.05	0.035	< 15	< 0.1	21.6	< 3	120	< 0.5	0.07	1.4	< 0.5	41	< 1	14	9.0	20	10	2.6
315202	< 5	1.37	16	1.31	475	1.80	0.020	19	< 0.1	12.3	< 3	257	< 0.5	0.08	3.6	< 0.5	29	< 1	11	12.1	35	11	2.4
315203	< 5	1.76	18	0.45	245	1.81	0.040	44	< 0.1	5.8	< 3	291	< 0.5	0.15	5.0	1.5	35	< 1	9	15.2	37	8	2.6
315204	< 5	1.69	11	0.63	303	1.77	0.019	106	< 0.1	7.2	< 3	281	< 0.5	0.07	5.0	2.0	24	< 1	8	13.1	28	10	2.1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315205	< 5	1.78	14	0.40	194	1.68	0.015	49	< 0.1	5.3	< 3	274	< 0.5	0.06	4.8	0.7	11	< 1	8	15.6	34	12	2.4
315206	< 5	1.91	13	0.46	219	1.99	0.010	64	< 0.1	5.3	< 3	331	< 0.5	0.06	4.3	< 0.5	7	< 1	9	13.7	32	7	2.4
315207	< 5	0.76	8	2.24	832	1.20	0.009	< 15	< 0.1	18.4	< 3	133	< 0.5	0.10	3.4	1.4	29	< 1	14	9.2	24	13	2.2
315208	< 5	1.79	11	0.47	247	1.92	0.006	60	< 0.1	5.7	< 3	313	< 0.5	0.24	4.2	1.9	44	< 1	8	12.8	27	10	2.1
315209	< 5	1.93	10	0.46	234	2.00	0.006	63	< 0.1	5.3	< 3	330	< 0.5	0.13	4.0	1.3	15	< 1	8	12.6	27	10	2.0
315210	< 5	1.66	21	0.50	307	1.61	0.058	55	< 0.1	5.9	< 3	281	< 0.5	0.22	5.1	0.6	51	< 1	9	12.5	32	7	2.3
315211	< 5	1.83	17	0.48	230	1.69	0.035	73	0.1	5.6	< 3	290	< 0.5	0.14	5.0	0.9	34	< 1	9	14.1	38	9	2.5
315212	< 5	1.73	15	0.46	235	1.82	0.056	57	< 0.1	5.9	< 3	301	< 0.5	0.18	4.9	< 0.5	41	< 1	9	14.0	34	11	2.5
315213	< 5	0.11	2	0.33	337	0.13	0.094	< 15	0.2	3.5	< 3	77	< 0.5	0.04	2.2	0.7	11	< 1	14	21.0	25	24	3.9
315214	< 5	1.64	12	1.09	399	1.94	0.024	19	< 0.1	9.6	< 3	298	< 0.5	0.20	3.6	< 0.5	53	< 1	10	11.4	26	9	2.3
315215	< 5	1.95	10	0.41	232	1.68	0.008	48	< 0.1	4.8	< 3	307	< 0.5	0.23	4.8	< 0.5	36	< 1	8	13.4	29	6	2.1
315216	< 5	1.91	15	0.43	234	1.81	0.028	48	< 0.1	4.8	< 3	310	< 0.5	0.12	4.7	0.6	25	< 1	8	13.6	31	9	2.2
315217	< 5	1.91	13	0.48	262	1.96	0.055	39	< 0.1	5.2	< 3	330	< 0.5	0.23	4.4	1.0	41	< 1	10	15.9	43	18	2.7
315218	< 5	1.97	10	0.46	247	2.08	0.033	52	0.2	5.4	< 3	358	< 0.5	0.19	4.4	< 0.5	31	< 1	11	19.0	39	25	3.3
315219	< 5	1.92	12	0.48	269	1.99	0.038	112	< 0.1	5.7	< 3	340	< 0.5	0.19	5.1	0.6	32	< 1	12	23.1	39	24	3.7
315220	< 5	1.93	12	0.46	242	1.98	0.040	< 15	< 0.1	5.6	< 3	327	< 0.5	0.20	5.4	1.5	39	< 1	9	15.6	38	12	2.7
315221	< 5	1.84	16	0.47	234	1.85	0.042	98	< 0.1	5.6	< 3	306	< 0.5	0.24	4.7	1.1	48	< 1	9	15.2	33	12	2.5
315222	< 5	1.79	17	0.42	212	1.73	0.043	27	< 0.1	5.4	< 3	286	< 0.5	0.27	4.6	< 0.5	57	< 1	8	15.7	33	14	2.5
315223	< 5	1.79	16	0.43	214	1.62	0.024	45	0.3	5.5	< 3	285	< 0.5	0.11	5.2	< 0.5	22	< 1	9	13.8	30	14	2.3
315224	< 5	1.79	16	0.44	219	1.70	0.034	92	< 0.1	5.7	< 3	283	< 0.5	0.16	5.3	< 0.5	33	< 1	9	14.6	33	12	2.5
315225	< 5	0.19	13	0.23	413	0.11	0.020	38	0.8	49.9	< 3	31	< 0.5	0.74	6.8	1.2	263	< 1	9	11.7	21	< 5	2.2
315226	< 5	1.86	13	0.48	257	1.84	0.027	20	< 0.1	5.5	< 3	306	< 0.5	0.22	4.8	1.9	43	< 1	9	15.6	34	17	2.6
315227	< 5	1.82	11	0.60	295	1.96	0.039	< 15	< 0.1	6.2	< 3	336	< 0.5	0.16	4.8	< 0.5	34	< 1	9	14.9	31	14	2.6
315228	< 5	1.89	12	0.44	221	1.99	0.004	79	< 0.1	5.2	< 3	324	< 0.5	0.21	4.5	0.7	34	< 1	8	13.8	28	9	2.3
315229	< 5	1.70	11	0.54	252	1.91	0.037	74	< 0.1	5.4	< 3	317	< 0.5	0.22	4.1	0.6	46	< 1	9	14.8	33	10	2.5
315230	< 5	1.88	12	0.46	228	2.00	0.016	66	0.2	5.2	< 3	327	< 0.5	0.21	4.8	1.8	38	< 1	8	15.1	34	12	2.3
315231	< 5	1.79	12	0.49	220	1.97	0.004	96	< 0.1	5.2	< 3	311	< 0.5	0.16	4.0	0.9	20	< 1	7	12.8	28	12	2.0
315232	< 5	1.81	15	0.44	207	1.89	0.020	90	< 0.1	4.8	< 3	316	< 0.5	0.12	4.7	1.0	22	< 1	8	13.1	27	12	2.3
315233	< 5	1.88	12	0.44	222	1.96	0.031	112	0.1	5.0	< 3	330	< 0.5	0.18	4.3	1.6	36	< 1	8	13.5	28	13	2.3
315234	< 5	1.86	15	0.61	257	2.02	0.013	91	0.2	6.8	< 3	306	< 0.5	0.07	4.4	1.5	14	< 1	9	15.0	32	15	2.5
315235	< 5	1.66	10	0.63	277	1.55	0.005	25	0.2	7.4	< 3	245	< 0.5	0.06	4.7	2.2	12	< 1	9	13.7	31	13	2.1
315236	< 5	1.90	11	0.57	266	2.11	0.031	< 15	< 0.1	5.7	< 3	337	< 0.5	0.21	5.1	< 0.5	40	< 1	10	15.6	32	16	2.6
315237	< 5	1.46	15	0.75	287	2.05	0.026	102	< 0.1	7.5	< 3	287	< 0.5	0.23	4.1	< 0.5	54	< 1	9	13.9	29	7	2.4
315238	< 5	1.65	13	0.50	250	1.88	0.016	< 15	< 0.1	5.6	< 3	289	< 0.5	0.21	4.5	1.6	46	< 1	8	13.4	30	13	2.0
315239	< 5	1.84	13	0.46	243	2.05	0.029	71	0.4	5.1	< 3	322	< 0.5	0.19	4.9	1.5	36	< 1	9	16.0	31	15	2.5
315240	8	1.75	14	1.14	406	2.06	0.022	< 15	< 0.1	9.3	< 3	294	< 0.5	0.08	4.2	< 0.5	23	< 1	10	14.5	31	10	2.5
315241	< 5	1.88	14	0.44	219	1.92	0.016	140	< 0.1	4.8	3	298	< 0.5	0.10	3.4	1.8	21	< 1	8	13.4	25	14	2.0
315242	< 5	1.88	13	0.48	257	2.06	0.035	100	0.3	5.5	< 3	328	< 0.5	0.14	5.5	< 0.5	33	< 1	9	16.4	38	8	2.5
315243	< 5	1.91	12	0.39	208	1.96	0.010	75	< 0.1	4.7	< 3	305	< 0.5	0.10	5.3	1.6	8	< 1	8	15.4	35	21	2.2
315244	< 5	1.56	10	0.45	255	1.99	0.035	106	< 0.1	4.5	< 3	344	< 0.5	0.21	4.1	< 0.5	37	< 1	9	14.0	29	17	2.4
315245	< 5	1.59	11	0.45	272	2.14	0.008	109	< 0.1	5.2	< 3	340	< 0.5	0.21	5.5	< 0.5	35	< 1	9	16.2	35	18	2.6
315246	< 5	1.73	12	0.47	277	1.96	0.013	38	< 0.1	5.1	< 3	319	< 0.5	0.19	5.1	< 0.5	34	< 1	9	16.1	32	14	2.6
315247	< 5	1.74	17	0.80	369	2.01	0.041	< 15	< 0.1	7.8	< 3	307	< 0.5	0.12	5.6	< 0.5	37	< 1	10	16.4	55	13	2.6
315248	< 5	1.83	17	0.58	310	1.85	0.049	67	< 0.1	6.4	< 3	289	< 0.5	0.19	5.0	1.0	46	< 1	9	14.8	39	11	2.3
315249	< 5	1.72	17	0.58	329	1.82	0.057	30	< 0.1	6.5	< 3	283	< 0.5	0.25	5.1	1.1	55	< 1	9	14.8	39	10	2.4
315250	< 5	0.11	8	0.02	71	0.07	0.003	< 15	0.4	0.5	< 3	4	< 0.5	0.02	1.7	< 0.5	5	< 1	3	2.5	3	< 5	0.4
315251	< 5	1.87	16	0.48	237	1.93	0.034	< 15	< 0.1	5.6	< 3	284	< 0.5	0.14	5.6	2.7	33	< 1	8	15.2	33	13	2.3
315252	< 5	1.62	15	0.60	297	1.88	0.039	< 15	< 0.1	6.9	< 3	285	< 0.5	0.27	5.2	< 0.5	57	< 1	10	15.5	37	14	2.6
315253	< 5	1.49	13	0.49	255	2.06	0.034	98	0.3	5.6	< 3	320	< 0.5	0.24	5.8	< 0.5	46	< 1	9	15.8	44	9	2.6
315254	< 5	1.47	16	0.40	210	1.83	0.013	78	0.2	5.2	< 3	278	< 0.5	0.27	5.3	2.5	53	< 1	9	16.5	34	26	2.5
315255	< 5	1.69	16	0.59	272	1.60	0.022	40	< 0.1	6.1	< 3	266	< 0.5	0.08	5.7	1.4	18	< 1	9	14.7	33	16	2.3

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315256	< 5	1.81	14	0.67	286	1.83	0.010	< 15	0.4	6.1	< 3	308	< 0.5	0.10	4.5	< 0.5	18	< 1	8	12.8	26	11	1.9
315257	< 5	1.90	11	0.50	252	2.02	0.020	59	< 0.1	5.7	< 3	292	< 0.5	0.22	4.4	< 0.5	56	< 1	8	13.6	33	11	2.3
315258	< 5	1.94	13	0.44	234	1.95	0.026	95	< 0.1	4.7	< 3	318	< 0.5	0.15	4.7	0.8	28	< 1	9	13.8	28	11	2.3
315259	< 5	1.66	13	0.50	242	2.04	0.005	57	< 0.1	5.3	< 3	318	< 0.5	0.23	3.9	1.9	39	< 1	8	12.8	28	11	2.0
315260	< 5	1.40	12	0.46	236	1.93	0.030	67	< 0.1	4.6	< 3	329	< 0.5	0.22	4.7	2.4	39	< 1	9	13.3	30	8	2.2
315261	< 5	1.72	20	0.51	251	1.82	0.015	60	< 0.1	5.4	< 3	294	< 0.5	0.14	5.2	1.9	26	< 1	11	17.9	35	16	3.1
315262	< 5	1.82	16	0.70	304	1.99	0.016	71	< 0.1	6.6	< 3	300	< 0.5	0.05	5.2	1.5	14	< 1	10	15.0	39	12	2.5
315263	< 5	1.80	15	0.55	267	2.04	0.026	< 15	< 0.1	6.1	< 3	316	< 0.5	0.10	5.9	1.3	23	< 1	13	23.1	48	19	3.8
315264	< 5	0.89	14	2.22	473	0.81	0.053	< 15	< 0.1	6.8	< 3	149	< 0.5	0.23	4.7	< 0.5	52	< 1	12	15.7	32	17	2.8
315265	< 5	1.77	15	0.46	232	1.77	0.019	< 15	< 0.1	5.7	< 3	272	< 0.5	0.05	5.5	2.9	17	< 1	8	12.9	30	14	1.8
315266	< 5	2.02	10	0.35	186	1.95	0.006	98	< 0.1	4.8	< 3	296	< 0.5	0.12	5.1	1.4	16	< 1	7	13.4	31	13	2.0
315267	< 5	1.37	17	0.88	407	1.61	0.061	60	< 0.1	9.4	< 3	228	< 0.5	0.32	5.2	2.1	95	< 1	11	13.1	33	13	2.2
315268	< 5	1.60	14	0.75	341	2.14	0.012	92	< 0.1	8.0	< 3	307	< 0.5	0.15	4.8	1.3	32	< 1	10	14.4	29	16	2.9
315269	< 5	1.60	15	0.94	406	2.21	0.016	139	< 0.1	10.8	< 3	312	< 0.5	0.09	5.9	< 0.5	26	< 1	14	20.5	41	22	4.3
315270	< 5	1.83	15	0.60	306	2.13	0.018	130	< 0.1	7.4	< 3	314	< 0.5	0.09	5.2	< 0.5	20	< 1	10	18.0	37	14	3.5
315271	< 5	1.72	19	0.49	230	1.59	0.034	51	< 0.1	7.1	< 3	257	< 0.5	0.12	5.4	0.6	35	< 1	9	16.7	30	15	3.2
315272	< 5	1.48	19	0.71	322	1.90	0.015	28	< 0.1	7.6	< 3	308	< 0.5	0.26	4.6	1.3	61	< 1	9	15.8	35	10	3.0
315273	< 5	1.38	18	0.64	312	2.10	0.014	< 15	< 0.1	7.9	< 3	297	< 0.5	0.27	4.4	< 0.5	72	< 1	8	14.2	31	17	2.8
315274	< 5	1.42	18	0.65	308	1.91	0.013	< 15	0.1	7.4	< 3	297	< 0.5	0.22	4.9	< 0.5	59	< 1	9	13.4	30	13	2.8
315275	< 5	1.61	20	1.43	605	1.44	0.111	37	< 0.1	9.9	< 3	415	1.7	0.10	8.1	< 0.5	24	< 1	20	40.5	72	29	8.4
315276	< 5	1.96	22	0.58	285	1.98	0.027	89	< 0.1	7.5	< 3	283	< 0.5	0.06	5.0	< 0.5	19	< 1	11	18.2	36	10	3.6
315277	< 5	2.02	13	0.48	249	2.26	0.014	58	< 0.1	6.2	< 3	333	< 0.5	0.10	4.9	0.7	19	< 1	10	18.4	35	12	3.6
315278	< 5	1.90	14	0.43	231	1.77	0.019	< 15	< 0.1	5.3	< 3	290	< 0.5	0.07	4.3	< 0.5	16	< 1	8	14.9	33	9	2.7
315279	< 5	1.72	18	0.53	248	1.79	0.026	20	< 0.1	6.8	< 3	262	< 0.5	0.10	4.3	0.8	27	< 1	9	15.3	31	16	2.9
315280	< 5	1.37	14	0.96	402	2.06	0.008	43	0.1	9.9	< 3	290	< 0.5	0.25	3.8	< 0.5	65	< 1	10	13.6	30	11	2.9
315281	< 5	1.35	13	0.55	289	1.98	0.032	106	< 0.1	6.5	< 3	309	< 0.5	0.23	4.4	1.2	52	< 1	10	13.5	42	10	2.8
315282	< 5	1.46	20	0.52	316	1.90	0.047	33	< 0.1	7.4	< 3	308	< 0.5	0.22	5.8	1.6	44	< 1	15	29.5	45	30	6.1
315283	< 5	0.84	15	1.73	712	1.54	0.010	< 15	< 0.1	14.8	< 3	185	< 0.5	0.07	3.7	0.9	18	< 1	17	10.8	24	10	3.1
315284	< 5	1.73	27	0.66	269	1.82	0.020	97	< 0.1	8.6	< 3	274	< 0.5	0.08	8.1	2.2	19	< 1	15	38.1	69	39	7.9
315285	< 5	1.94	11	0.48	248	2.10	0.023	23	< 0.1	5.4	< 3	351	< 0.5	0.12	4.3	0.8	21	< 1	9	15.9	33	14	3.1
315286	< 5	1.69	14	0.60	308	2.24	0.013	98	< 0.1	7.1	< 3	330	< 0.5	0.16	4.4	0.7	29	< 1	9	15.3	30	18	3.0
315287	< 5	1.42	14	0.49	258	2.06	0.022	48	0.1	5.6	< 3	330	< 0.5	0.24	5.1	< 0.5	50	< 1	8	14.2	28	14	2.8
315288	< 5	1.37	17	0.47	238	1.94	0.020	< 15	< 0.1	5.8	< 3	302	< 0.5	0.25	4.5	0.9	54	< 1	8	15.4	31	15	2.9
315289	< 5	1.33	15	0.43	243	1.85	0.027	< 15	< 0.1	5.7	< 3	302	< 0.5	0.26	5.4	1.2	52	< 1	8	15.1	32	14	2.5
315290	< 5	1.32	19	0.63	306	1.78	0.030	62	0.1	7.8	< 3	284	< 0.5	0.28	5.2	0.7	66	< 1	10	14.1	38	6	2.4
315291	< 5	1.40	8	2.10	232	1.69	0.040	75	< 0.1	4.4	< 3	292	< 0.5	0.15	4.5	0.8	27	< 1	10	16.8	35	14	2.8
315292	< 5	1.36	15	0.60	300	1.83	0.026	36	< 0.1	6.8	< 3	308	< 0.5	0.26	4.7	0.7	57	< 1	9	14.5	38	7	2.5
315293	< 5	1.35	14	0.49	291	1.98	0.006	25	< 0.1	6.1	< 3	321	< 0.5	0.23	4.6	0.9	38	< 1	9	16.9	40	12	2.8
315294	< 5	1.32	18	0.55	243	1.88	0.006	15	0.2	6.2	< 3	296	< 0.5	0.25	4.0	< 0.5	46	< 1	8	13.6	31	11	2.3
315295	< 5	1.34	17	0.55	259	1.68	0.016	37	0.2	6.3	< 3	272	< 0.5	0.27	4.5	1.4	50	< 1	8	14.8	33	9	2.5
315296	< 5	1.37	14	0.55	260	1.73	0.030	25	< 0.1	5.9	< 3	293	< 0.5	0.22	5.4	< 0.5	46	< 1	9	16.3	41	12	2.7
315297	< 5	1.52	15	0.51	251	1.91	0.014	77	< 0.1	5.8	< 3	309	< 0.5	0.22	4.8	1.2	42	< 1	9	15.4	36	10	2.5
315298	< 5	1.60	15	0.48	242	1.75	0.014	55	0.2	5.9	< 3	280	< 0.5	0.23	5.8	1.8	44	< 1	9	16.2	34	12	2.5
315299	< 5	1.60	15	0.47	239	1.71	0.015	47	< 0.1	5.5	< 3	287	< 0.5	0.24	5.4	1.7	45	< 1	9	15.6	34	12	2.5
315300	< 5	0.20	14	0.25	400	0.11	0.019	23	0.5	49.3	< 3	29	< 0.5	0.37	6.6	2.0	150	< 1	11	12.5	23	5	2.3
315301	< 5	1.01	17	1.72	573	1.33	0.039	< 15	0.2	16.3	< 3	173	< 0.5	0.26	3.9	1.6	92	< 1	11	13.7	26	9	2.5
315302	< 5	1.69	15	0.63	254	1.69	0.014	68	< 0.1	5.3	< 3	292	< 0.5	0.26	4.4	1.3	50	< 1	8	15.2	29	9	2.3
315303	< 5	1.61	19	1.20	413	1.46	0.006	101	< 0.1	6.7	< 3	273	< 0.5	0.28	3.6	1.0	54	< 1	9	14.4	26	10	2.4
315304	< 5	1.52	16	0.78	322	1.58	0.011	25	0.1	7.3	< 3	270	< 0.5	0.30	4.8	1.1	54	< 1	9	16.8	32	11	2.7
315305	< 5	1.74	11	0.45	246	1.94	0.018	65	< 0.1	4.9	< 3	336	< 0.5	0.22	4.6	0.6	38	< 1	9	17.5	33	9	2.9
315306	< 5	1.69	13	0.50	270	1.71	0.014	< 15	0.1	4.9	< 3	313	< 0.5	0.24	4.8	< 0.5	41	< 1	9	16.4	35	11	2.7

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315307	< 5	1.56	19	0.75	373	1.61	0.056	< 15	< 0.1	7.0	< 3	286	< 0.5	0.26	5.8	1.2	50	< 1	14	24.8	46	19	4.7
315308	< 5	1.89	13	0.52	259	1.84	0.051	< 15	0.3	5.6	< 3	314	< 0.5	0.21	3.5	< 0.5	47	< 1	10	16.4	30	11	3.1
315309	< 5	1.94	16	0.49	242	1.77	0.021	53	< 0.1	5.4	< 3	301	< 0.5	0.18	3.8	< 0.5	35	< 1	9	16.1	31	10	2.8
315310	< 5	1.79	12	0.50	295	1.67	0.041	62	0.1	5.1	< 3	314	< 0.5	0.24	3.8	0.5	43	< 1	10	15.2	33	9	2.9
315311	< 5	1.86	19	0.54	284	1.98	0.020	29	0.3	7.2	< 3	305	< 0.5	0.17	6.1	1.1	36	< 1	13	23.2	56	22	5.3
315312	< 5	1.74	14	0.46	246	1.93	0.015	64	0.2	6.0	< 3	295	< 0.5	0.25	4.8	< 0.5	50	< 1	8	14.2	34	8	2.9
315313	< 5	1.48	18	1.16	447	1.89	0.012	37	< 0.1	11.4	< 3	265	< 0.5	0.23	4.2	0.8	61	< 1	11	14.1	32	10	3.2
315314	< 5	1.59	13	0.45	235	1.76	0.010	60	0.2	6.1	< 3	277	< 0.5	0.18	4.3	0.6	43	< 1	7	12.4	27	10	2.3
315315	< 5	1.74	16	0.75	369	1.98	0.020	79	< 0.1	9.4	< 3	291	< 0.5	0.12	3.9	< 0.5	33	< 1	10	12.3	29	8	3.0
315316	< 5	1.85	13	0.39	213	1.82	0.017	50	< 0.1	5.4	< 3	282	< 0.5	0.10	5.2	1.1	21	< 1	8	14.2	37	10	2.6
315317	< 5	1.64	18	0.54	280	1.62	0.037	68	0.3	6.9	< 3	249	< 0.5	0.13	5.1	0.9	43	< 1	9	14.8	34	16	3.0
315318	< 5	1.59	18	0.69	323	1.70	0.017	17	< 0.1	10.1	< 3	262	< 0.5	0.05	4.3	0.5	20	< 1	9	12.5	26	12	2.6
315319	< 5	1.64	13	0.73	329	1.89	0.025	30	0.1	7.3	< 3	300	< 0.5	0.26	4.8	1.9	55	< 1	9	13.5	32	8	2.7
315320	< 5	1.72	17	0.52	283	1.92	0.022	< 15	< 0.1	6.4	< 3	297	< 0.5	0.26	5.2	0.8	50	< 1	9	15.8	37	10	3.3
315321	< 5	1.89	17	0.44	226	1.83	0.021	45	< 0.1	5.1	< 3	294	< 0.5	0.22	5.1	< 0.5	43	< 1	8	14.6	32	11	2.8
315322	< 5	1.90	14	0.49	262	1.93	0.022	88	< 0.1	5.5	< 3	302	< 0.5	0.18	4.5	1.5	46	< 1	8	15.4	33	10	2.8
315323	< 5	1.95	15	0.48	255	1.84	0.015	< 15	0.2	5.2	< 3	296	< 0.5	0.07	4.3	< 0.5	20	< 1	8	12.8	36	12	2.3
315324	< 5	1.95	15	0.47	254	1.70	0.014	84	< 0.1	5.0	< 3	288	< 0.5	0.06	4.8	1.3	19	< 1	7	12.6	28	10	2.2
315325	< 5	0.06	9	0.02	95	0.09	0.002	< 15	0.3	0.5	< 3	4	< 0.5	0.02	1.6	< 0.5	4	< 1	3	2.7	6	< 5	0.5
315326	< 5	1.58	20	0.70	319	1.97	0.006	63	< 0.1	6.9	< 3	300	< 0.5	0.21	5.1	1.9	38	< 1	9	12.9	31	11	2.5
315327	< 5	1.44	11	0.43	215	1.92	0.026	20	< 0.1	4.8	< 3	276	< 0.5	0.20	3.9	0.9	59	< 1	6	10.2	22	13	1.8
315328	< 5	1.61	18	0.47	261	1.62	0.036	61	< 0.1	5.0	< 3	282	< 0.5	0.27	5.1	2.2	57	< 1	9	14.3	36	5	2.5
315329	< 5	1.74	15	0.48	249	1.75	0.026	48	0.1	5.8	< 3	281	< 0.5	0.23	4.8	0.8	49	< 1	9	14.4	35	12	2.8
315330	< 5	1.53	13	0.43	224	1.85	0.025	94	< 0.1	5.8	< 3	274	< 0.5	0.22	5.1	0.7	51	< 1	8	13.6	32	8	2.7
315331	< 5	1.73	16	0.42	210	1.62	0.026	40	0.2	5.4	< 3	256	< 0.5	0.16	4.9	1.6	34	< 1	8	13.7	29	12	2.6
315332	< 5	1.58	10	0.36	210	1.57	0.010	< 15	0.3	4.6	< 3	275	< 0.5	0.25	4.3	2.0	39	< 1	7	14.0	27	7	2.3
315333	< 5	1.68	14	0.44	235	1.62	0.032	17	< 0.1	4.8	< 3	292	< 0.5	0.24	4.3	< 0.5	47	< 1	8	15.0	32	8	2.8
315334	< 5	1.59	13	0.72	323	1.67	0.006	< 15	0.3	7.1	< 3	291	< 0.5	0.20	5.0	1.5	35	< 1	11	18.4	40	17	3.4
315335	< 5	0.08	1	0.22	43	0.07	0.065	< 15	< 0.1	4.0	< 3	61	< 0.5	0.03	2.9	3.1	8	< 1	13	30.9	57	27	5.8
315336	< 5	0.08	1	0.29	71	0.08	0.068	< 15	< 0.1	1.3	< 3	68	< 0.5	0.02	1.0	< 0.5	6	< 1	5	8.2	16	7	1.5
315337	< 5	1.62	16	0.61	353	1.70	0.015	< 15	< 0.1	6.5	< 3	304	< 0.5	0.09	5.0	1.4	21	< 1	10	15.5	33	10	3.2
315338	< 5	1.79	16	0.44	228	1.52	0.015	60	< 0.1	5.0	< 3	280	< 0.5	0.07	4.3	< 0.5	18	< 1	8	13.1	27	9	2.4
315339	< 5	1.82	16	0.46	214	1.43	0.014	73	0.3	5.0	< 3	254	< 0.5	0.13	4.0	< 0.5	25	< 1	8	13.3	26	6	2.5
315340	< 5	1.60	17	0.41	212	1.57	0.012	28	< 0.1	4.5	< 3	286	< 0.5	0.25	4.4	< 0.5	44	< 1	8	13.4	25	7	2.5
315341	< 5	1.64	16	0.53	253	1.60	0.011	< 15	< 0.1	5.6	< 3	282	< 0.5	0.25	4.3	0.7	44	< 1	8	14.3	27	13	2.6
315342	< 5	1.72	20	0.59	258	1.41	0.021	31	0.2	6.0	< 3	249	< 0.5	0.08	4.7	< 0.5	22	< 1	9	16.3	37	10	3.1
315343	< 5	1.82	15	0.49	242	1.64	0.027	28	< 0.1	6.1	< 3	274	< 0.5	0.16	6.2	0.5	37	< 1	9	17.3	44	12	3.4
315344	< 5	1.58	21	0.61	272	1.23	0.053	86	0.3	7.1	< 3	203	< 0.5	0.29	5.8	2.5	72	< 1	9	17.5	39	12	3.2
315345	< 5	1.74	28	0.61	278	1.56	0.014	61	0.3	5.8	< 3	262	< 0.5	0.11	5.1	< 0.5	25	< 1	9	15.6	32	11	3.0
315346	< 5	1.60	20	0.51	247	1.35	0.031	< 15	< 0.1	6.3	< 3	233	< 0.5	0.18	4.5	0.7	44	< 1	9	15.1	33	12	2.9
315347	< 5	1.22	35	1.20	387	1.39	0.031	43	< 0.1	10.2	< 3	201	< 0.5	0.31	4.8	1.8	78	< 1	11	16.9	37	8	3.4
315348	< 5	1.35	18	1.06	405	1.27	0.019	53	< 0.1	9.8	< 3	203	< 0.5	0.31	4.8	1.2	86	< 1	10	14.1	35	13	2.8
315349	< 5	1.39	18	1.05	394	1.19	0.025	44	0.3	9.6	< 3	193	< 0.5	0.25	4.3	1.4	77	< 1	10	13.4	30	9	2.5
315350	< 5	1.52	20	1.44	613	1.29	0.106	98	0.6	9.1	< 3	415	1.5	0.18	8.9	2.5	32	< 1	20	38.2	75	31	7.8
315351	< 5	1.64	16	0.43	218	1.40	0.038	59	< 0.1	5.4	< 3	244	< 0.5	0.12	5.0	1.3	33	< 1	8	14.8	31	8	2.8
315352	< 5	1.76	17	0.49	241	1.60	0.013	24	< 0.1	5.9	< 3	274	< 0.5	0.06	4.8	1.6	17	< 1	8	15.1	32	9	2.8
315353	< 5	1.62	15	0.66	310	1.61	0.020	< 15	0.1	7.4	< 3	256	< 0.5	0.10	4.9	< 0.5	29	< 1	9	14.5	33	12	2.8
315354	< 5	1.73	14	0.51	276	1.71	0.021	< 15	< 0.1	6.5	< 3	280	< 0.5	0.07	4.9	0.9	19	< 1	9	16.0	36	9	3.1
315355	< 5	1.69	17	0.54	277	1.78	0.016	41	0.2	6.2	< 3	306	< 0.5	0.26	4.9	1.7	50	< 1	9	15.5	37	8	2.9
315356	< 5	1.55	22	0.78	377	1.86	0.023	92	0.2	9.0	< 3	350	< 0.5	0.25	4.8	1.0	65	< 1	15	31.5	45	23	6.6
315357	< 5	0.07	1	0.15	34	0.08	0.076	< 15	< 0.1	1.7	< 3	46	< 0.5	0.02	1.0	< 0.5	9	< 1	6	11.2	20	7	2.2

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315358	< 5	1.33	13	0.72	463	1.82	0.011	< 15	0.2	11.9	< 3	265	< 0.5	0.18	4.2	0.9	38	< 1	12	12.9	28	< 5	3.0
315359	< 5	1.30	44	0.99	555	1.77	0.156	< 15	0.3	11.5	< 3	583	< 0.5	0.33	6.7	1.1	95	< 1	18	28.0	59	29	7.1
315360	< 5	1.19	6	0.14	50	3.04	0.013	51	< 0.1	1.5	< 3	943	< 0.5	0.06	9.7	1.5	5	< 1	4	36.7	78	19	4.6
315361	< 5	1.96	10	0.49	286	2.08	0.044	30	0.1	5.8	< 3	343	< 0.5	0.20	4.7	< 0.5	38	< 1	11	16.8	38	17	3.7
315362	< 5	2.19	16	0.44	226	1.92	0.005	55	< 0.1	5.4	< 3	307	< 0.5	0.07	4.5	< 0.5	6	< 1	9	15.9	37	10	3.2
315363	< 5	1.57	17	0.46	242	1.73	0.037	106	< 0.1	6.3	< 3	275	< 0.5	0.30	4.1	< 0.5	71	< 1	8	12.9	28	13	2.5
315364	< 5	1.64	13	0.43	224	2.11	0.022	54	0.1	5.1	< 3	345	< 0.5	0.21	5.1	< 0.5	35	< 1	8	14.1	32	9	2.5
315365	< 5	1.60	16	0.53	279	1.85	0.030	< 15	0.1	6.3	< 3	295	< 0.5	0.26	5.2	1.5	55	< 1	9	14.4	41	11	2.5
315366	< 5	1.89	11	0.42	244	2.20	0.022	129	0.1	5.2	< 3	348	< 0.5	0.18	4.8	< 0.5	33	< 1	9	15.8	36	16	3.0
315367	< 5	1.84	10	0.52	313	1.79	0.007	106	0.2	7.2	< 3	290	< 0.5	0.04	4.9	1.6	9	< 1	10	15.1	34	9	2.5
315368	< 5	1.62	19	0.54	298	1.59	0.037	< 15	< 0.1	7.8	< 3	250	< 0.5	0.20	5.4	0.9	52	< 1	9	16.8	39	13	3.1
315369	< 5	1.47	18	0.79	491	1.70	0.015	< 15	< 0.1	11.5	< 3	244	< 0.5	0.10	5.6	1.7	23	< 1	14	16.3	38	10	2.9
315370	< 5	1.26	9	0.85	509	1.66	0.014	35	0.1	11.8	< 3	226	< 0.5	0.28	3.6	< 0.5	67	< 1	11	12.2	31	11	2.3
315371	< 5	1.64	13	0.48	262	1.81	0.023	62	< 0.1	5.9	< 3	294	< 0.5	0.25	4.8	< 0.5	48	< 1	9	14.4	37	11	2.4
315372	< 5	1.39	9	1.28	488	1.42	0.014	21	< 0.1	12.5	< 3	196	< 0.5	0.28	5.4	1.9	64	< 1	12	15.9	37	15	2.7
315373	< 5	1.71	14	0.45	239	1.86	0.011	93	0.1	6.2	< 3	299	< 0.5	0.24	6.0	0.6	44	< 1	9	16.1	40	8	2.8
315374	< 5	1.84	14	0.45	229	1.86	0.014	57	< 0.1	6.1	< 3	294	< 0.5	0.11	5.8	1.1	26	< 1	8	15.8	38	6	2.7
315375	< 5	0.20	14	0.24	405	0.10	0.021	28	0.3	46.9	< 3	29	< 0.5	0.61	7.1	0.8	209	< 1	10	12.0	25	< 5	2.1
315376	< 5	1.40	19	0.54	346	1.31	0.034	< 15	< 0.1	7.2	< 3	274	< 0.5	0.10	5.4	1.5	38	< 1	9	18.3	35	15	2.5
315377	< 5	1.90	15	0.47	246	1.55	0.021	60	0.3	4.9	< 3	295	< 0.5	0.15	5.3	1.3	32	< 1	9	15.3	32	9	2.3
315378	< 5	1.39	21	0.51	293	1.13	0.032	< 15	0.1	6.4	< 3	226	< 0.5	0.31	4.6	0.7	82	< 1	9	14.1	27	8	2.2
315379	< 5	1.32	24	0.61	310	1.07	0.051	< 15	0.2	8.0	< 3	205	< 0.5	0.30	6.8	3.3	84	< 1	10	17.0	32	12	2.8
315380	< 5	1.73	13	0.47	244	1.73	0.008	32	< 0.1	5.4	< 3	318	< 0.5	0.19	4.4	0.7	34	< 1	10	16.7	34	11	3.0
315381	< 5	1.66	17	0.47	249	1.44	0.028	29	< 0.1	5.5	< 3	276	< 0.5	0.19	4.4	0.8	49	< 1	9	15.5	32	12	2.2
315382	< 5	1.77	19	0.56	256	1.49	0.018	< 15	< 0.1	5.5	< 3	290	< 0.5	0.15	4.5	0.5	33	< 1	10	16.0	30	10	2.5
315383	< 5	1.60	15	0.44	226	1.55	0.009	24	0.1	5.2	< 3	296	< 0.5	0.22	5.2	1.1	44	< 1	9	15.4	30	11	2.3
315384	< 5	1.46	20	0.78	294	1.48	0.005	< 15	0.3	7.5	< 3	234	< 0.5	0.25	4.8	1.3	45	< 1	9	16.8	31	9	2.4
315385	< 5	1.40	32	0.49	453	1.33	0.036	71	< 0.1	6.2	< 3	216	< 0.5	0.25	5.6	1.9	57	< 1	11	19.6	42	12	3.2
315386	< 5	1.62	19	0.42	232	1.40	0.019	51	0.4	5.5	< 3	228	< 0.5	0.23	5.3	1.9	50	< 1	9	20.7	37	13	2.6
315387	< 5	1.43	16	0.66	286	1.22	0.030	16	0.2	7.2	< 3	196	< 0.5	0.16	4.6	0.6	73	< 1	8	14.5	30	6	2.1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315001	< 0.02	8.9	13.8	1.09	10.8
315002	< 0.02	< 0.5	2.1	0.09	24.8
315003	< 0.02	< 0.5	1.3	0.05	39.3
315004	< 0.02	< 0.5	1.6	0.07	26.1
315005	< 0.02	< 0.5	2.0	0.08	23.3
315006	< 0.02	< 0.5	1.2	0.06	33.8
315007	< 0.02	< 0.5	1.7	0.08	31.1
315008	< 0.02	< 0.5	1.7	0.05	28.5
315009	< 0.02	< 0.5	1.4	0.08	26.7
315010	< 0.02	< 0.5	1.9	0.11	26.6
315011	< 0.02	< 0.5	1.2	0.06	31.4
315012	0.04	< 0.5	1.0	0.05	22.0
315013	< 0.02	< 0.5	0.9	< 0.05	35.8
315014	< 0.02	< 0.5	1.1	0.08	28.5
315015	< 0.02	< 0.5	1.0	0.06	27.1
315016	< 0.02	< 0.5	0.8	0.06	25.6
315017	< 0.02	< 0.5	0.9	0.05	28.3
315018	< 0.02	< 0.5	1.4	0.07	33.4
315019	< 0.02	< 0.5	1.0	0.05	22.2
315020	< 0.02	< 0.5	0.7	0.07	8.38
315021	< 0.02	< 0.5	1.0	0.06	25.9
315022	< 0.02	< 0.5	0.9	0.07	30.3
315023	< 0.02	< 0.5	1.3	0.06	22.8
315024	< 0.02	< 0.5	0.9	0.05	30.2
315025	< 0.02	< 0.5	0.4	< 0.05	26.4
315026	< 0.02	< 0.5	1.5	0.10	10.7
315027	< 0.02	< 0.5	1.5	0.09	26.1
315028	< 0.02	< 0.5	0.6	< 0.05	9.66
315029	< 0.02	< 0.5	0.8	< 0.05	11.5
315030	< 0.02	< 0.5	1.9	0.09	27.1
315031	< 0.02	< 0.5	1.5	0.07	30.0
315032	< 0.02	< 0.5	1.2	0.08	29.5
315033	< 0.02	< 0.5	0.9	0.05	32.5
315034	< 0.02	< 0.5	1.0	0.07	33.0
315035	< 0.02	< 0.5	1.6	0.09	22.2
315036	< 0.02	0.9	2.3	0.15	13.1
315037	< 0.02	< 0.5	1.6	0.10	22.8
315038	< 0.02	< 0.5	1.6	0.08	24.5
315039	< 0.02	< 0.5	1.1	0.06	30.4
315040	< 0.02	< 0.5	1.4	0.10	12.0
315041	< 0.02	< 0.5	1.0	0.05	10.6
315042	< 0.02	< 0.5	1.3	0.08	27.7
315043	< 0.02	< 0.5	1.5	0.07	30.2
315044	< 0.02	< 0.5	1.3	0.06	32.1
315045	< 0.02	< 0.5	1.1	0.05	31.4
315046	< 0.02	< 0.5	0.9	0.05	29.7
315047	< 0.02	< 0.5	0.9	0.05	30.8
315048	< 0.02	< 0.5	1.0	0.05	32.7
315049	0.02	< 0.5	0.9	< 0.05	32.4
315050	< 0.02	< 0.5	1.4	0.07	23.4
315051	< 0.02	< 0.5	1.0	0.06	12.1

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315052	< 0.02	< 0.5	< 0.2	< 0.05	9.01
315053	< 0.02	< 0.5	< 0.2	< 0.05	8.31
315054	< 0.02	< 0.5	1.1	0.05	32.1
315055	< 0.02	< 0.5	1.1	0.05	35.2
315056	< 0.02	< 0.5	1.5	< 0.05	11.7
315057	< 0.02	< 0.5	1.3	0.06	12.8
315058	< 0.02	< 0.5	0.8	< 0.05	8.06
315059	< 0.02	< 0.5	1.4	0.10	11.8
315060	< 0.02	< 0.5	1.6	0.09	11.3
315061	< 0.02	< 0.5	< 0.2	< 0.05	11.1
315062	< 0.02	< 0.5	0.8	0.07	12.3
315063	< 0.02	< 0.5	< 0.2	< 0.05	9.53
315064	< 0.02	< 0.5	1.3	0.06	21.9
315065	< 0.02	< 0.5	1.0	0.07	28.8
315066	< 0.02	< 0.5	1.1	0.06	27.7
315067	< 0.02	< 0.5	1.1	0.08	21.7
315068	< 0.02	< 0.5	1.1	0.05	26.3
315069	< 0.02	< 0.5	0.9	0.07	31.0
315070	< 0.02	< 0.5	1.0	0.06	33.3
315071	< 0.02	< 0.5	1.0	0.06	30.0
315072	< 0.02	< 0.5	1.1	0.06	31.9
315073	< 0.02	< 0.5	0.9	0.06	30.7
315074	< 0.02	< 0.5	0.9	0.06	32.7
315075	< 0.02	< 0.5	1.9	0.07	23.9
315076	< 0.02	< 0.5	1.2	0.08	27.3
315077	< 0.02	< 0.5	1.2	0.06	27.1
315078	< 0.02	< 0.5	1.0	0.06	28.4
315079	< 0.02	< 0.5	1.2	0.07	32.2
315080	< 0.02	< 0.5	0.9	0.06	29.8
315081	< 0.02	< 0.5	1.3	0.06	29.3
315082	< 0.02	< 0.5	1.4	0.06	28.7
315083	< 0.02	0.6	3.8	0.28	13.5
315084	< 0.02	< 0.5	1.5	0.08	29.4
315085	< 0.02	< 0.5	1.3	0.08	13.8
315086	0.02	< 0.5	1.5	0.09	29.0
315087	< 0.02	< 0.5	1.0	0.06	29.6
315088	< 0.02	< 0.5	1.1	0.06	32.3
315089	< 0.02	< 0.5	1.5	0.07	31.8
315090	< 0.02	< 0.5	1.1	0.06	24.0
315091	< 0.02	< 0.5	1.2	0.06	34.0
315092	< 0.02	< 0.5	1.3	0.07	31.6
315093	< 0.02	< 0.5	1.1	0.07	30.1
315094	< 0.02	< 0.5	1.1	0.06	27.4
315095	< 0.02	< 0.5	1.2	0.07	34.9
315096	< 0.02	< 0.5	1.0	0.05	24.8
315097	< 0.02	< 0.5	0.8	< 0.05	8.92
315098	< 0.02	< 0.5	1.1	0.08	27.8
315099	< 0.02	< 0.5	1.2	0.14	30.0
315100	< 0.02	< 0.5	0.3	0.05	27.3
315101	< 0.02	< 0.5	0.9	0.12	27.4
315102	< 0.02	< 0.5	1.5	0.11	13.6

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315103	< 0.02	< 0.5	0.8	0.10	10.4
315104	< 0.02	< 0.5	0.8	0.06	11.0
315105	< 0.02	< 0.5	0.7	< 0.05	9.14
315106	< 0.02	< 0.5	0.3	< 0.05	9.17
315107	< 0.02	< 0.5	1.3	0.16	9.28
315108	< 0.02	< 0.5	1.3	0.06	10.5
315109	< 0.02	0.6	1.4	0.07	10.8
315110	< 0.02	< 0.5	1.9	0.13	13.6
315111	< 0.02	< 0.5	0.7	< 0.05	11.1
315112	< 0.02	< 0.5	0.8	0.05	38.1
315113	< 0.02	< 0.5	1.6	0.09	18.6
315114	< 0.02	< 0.5	1.5	0.07	15.4
315115	< 0.02	< 0.5	1.2	0.05	12.9
315116	< 0.02	< 0.5	0.8	0.05	9.19
315117	< 0.02	< 0.5	1.5	0.06	32.0
315118	< 0.02	< 0.5	1.2	< 0.05	34.5
315119	< 0.02	< 0.5	1.1	0.07	36.7
315120	< 0.02	< 0.5	1.0	0.06	39.6
315121	< 0.02	< 0.5	1.1	0.05	29.9
315122	< 0.02	< 0.5	2.0	0.11	11.4
315123	< 0.02	< 0.5	0.9	0.05	36.8
315124	< 0.02	< 0.5	0.9	0.06	38.1
315125	< 0.02	< 0.5	1.3	0.06	31.8
315126	< 0.02	< 0.5	0.6	< 0.05	8.92
315127	< 0.02	< 0.5	2.3	0.11	10.6
315128	< 0.02	< 0.5	1.7	0.08	15.3
315129	< 0.02	< 0.5	0.9	0.06	33.0
315130	< 0.02	< 0.5	1.1	0.07	35.8
315131	< 0.02	< 0.5	1.1	< 0.05	25.2
315132	< 0.02	< 0.5	0.9	0.06	32.4
315133	< 0.02	< 0.5	1.0	0.06	30.1
315134	< 0.02	< 0.5	1.0	0.07	31.1
315135	< 0.02	< 0.5	2.8	0.11	9.90
315136	< 0.02	0.8	3.5	0.23	11.9
315137	< 0.02	< 0.5	1.3	0.06	31.2
315138	0.04	< 0.5	0.9	< 0.05	9.87
315139	< 0.02	< 0.5	1.0	0.06	28.0
315140	< 0.02	< 0.5	0.9	0.08	11.4
315141	< 0.02	< 0.5	1.2	0.07	35.1
315142	< 0.02	< 0.5	1.1	0.06	25.2
315143	< 0.02	< 0.5	1.1	0.06	33.1
315144	< 0.02	< 0.5	1.2	0.06	32.0
315145	< 0.02	< 0.5	1.2	0.05	33.4
315146	< 0.02	< 0.5	1.1	0.05	33.5
315147	< 0.02	< 0.5	1.0	0.05	31.5
315148	0.04	< 0.5	1.1	0.05	29.5
315149	< 0.02	< 0.5	1.0	0.06	29.3
315150	< 0.02	< 0.5	1.6	0.10	24.9
315151	< 0.02	< 0.5	1.1	0.06	36.1
315152	< 0.02	< 0.5	1.0	0.07	13.6
315153	< 0.02	< 0.5	1.2	0.10	21.6

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315154	< 0.02	< 0.5	0.9	< 0.05	33.2
315155	< 0.02	< 0.5	0.9	0.05	40.6
315156	< 0.02	< 0.5	0.9	0.05	38.1
315157	< 0.02	< 0.5	1.1	0.05	37.5
315158	< 0.02	< 0.5	1.1	0.05	40.8
315159	< 0.02	< 0.5	0.9	0.07	31.4
315160	< 0.02	< 0.5	1.0	0.05	32.2
315161	< 0.02	< 0.5	1.2	0.06	30.5
315162	< 0.02	< 0.5	1.1	0.06	30.7
315163	< 0.02	< 0.5	0.9	0.05	32.9
315164	< 0.02	< 0.5	1.0	0.05	35.7
315165	< 0.02	< 0.5	0.9	0.07	32.4
315166	< 0.02	< 0.5	1.1	0.06	35.9
315167	< 0.02	< 0.5	1.0	0.07	28.2
315168	< 0.02	< 0.5	1.1	< 0.05	38.3
315169	< 0.02	< 0.5	1.1	0.07	37.9
315170	< 0.02	< 0.5	0.9	0.05	37.2
315171	< 0.02	< 0.5	1.0	< 0.05	34.1
315172	< 0.02	< 0.5	1.1	< 0.05	33.2
315173	< 0.02	< 0.5	1.3	< 0.05	29.4
315174	< 0.02	< 0.5	1.3	0.08	32.2
315175	< 0.02	< 0.5	0.3	< 0.05	31.4
315176	< 0.02	< 0.5	1.0	0.05	30.4
315177	< 0.02	< 0.5	0.9	0.07	32.5
315178	< 0.02	< 0.5	1.4	0.07	29.9
315179	< 0.02	< 0.5	1.4	0.08	30.5
315180	< 0.02	< 0.5	1.1	0.08	33.9
315181	< 0.02	< 0.5	1.2	0.06	36.2
315182	< 0.02	< 0.5	1.2	0.08	33.4
315183	< 0.02	< 0.5	0.9	0.06	38.5
315184	< 0.02	< 0.5	1.1	0.05	34.4
315185	< 0.02	< 0.5	1.5	0.06	25.2
315186	< 0.02	< 0.5	1.0	0.06	30.4
315187	< 0.02	< 0.5	1.0	0.05	33.2
315188	< 0.02	< 0.5	1.0	0.07	37.5
315189	< 0.02	< 0.5	1.0	0.06	33.1
315190	< 0.02	< 0.5	0.9	< 0.05	35.8
315191	< 0.02	< 0.5	0.9	0.07	36.4
315192	< 0.02	< 0.5	1.3	< 0.05	29.5
315193	< 0.02	< 0.5	1.0	0.06	35.7
315194	< 0.02	0.5	2.2	0.13	27.6
315195	< 0.02	< 0.5	1.5	0.07	24.4
315196	< 0.02	< 0.5	1.3	0.08	35.7
315197	< 0.02	< 0.5	1.0	0.09	32.9
315198	< 0.02	< 0.5	1.0	0.06	32.6
315199	< 0.02	< 0.5	1.0	0.05	33.7
315200	< 0.02	< 0.5	1.6	0.06	27.9
315201	< 0.02	< 0.5	1.5	0.06	29.2
315202	< 0.02	< 0.5	1.1	0.07	34.6
315203	< 0.02	< 0.5	1.1	0.06	33.9
315204	< 0.02	< 0.5	1.1	0.05	30.9

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315205	< 0.02	< 0.5	1.1	0.07	32.3
315206	< 0.02	< 0.5	0.9	0.07	40.1
315207	< 0.02	< 0.5	2.1	0.10	29.1
315208	< 0.02	< 0.5	1.0	0.06	33.2
315209	< 0.02	< 0.5	1.0	0.06	36.2
315210	0.03	< 0.5	0.8	0.06	34.4
315211	< 0.02	< 0.5	1.0	0.06	36.8
315212	< 0.02	< 0.5	0.9	0.05	36.4
315213	< 0.02	< 0.5	1.1	0.06	12.3
315214	< 0.02	< 0.5	1.0	0.06	40.8
315215	< 0.02	< 0.5	1.0	0.06	30.4
315216	0.04	< 0.5	1.2	0.05	31.5
315217	< 0.02	< 0.5	1.4	0.06	32.8
315218	< 0.02	< 0.5	1.1	0.06	35.6
315219	< 0.02	0.6	1.3	0.05	32.8
315220	< 0.02	< 0.5	1.1	0.07	32.5
315221	< 0.02	< 0.5	1.2	0.06	29.4
315222	< 0.02	< 0.5	1.1	0.05	28.6
315223	< 0.02	< 0.5	1.5	0.07	29.6
315224	< 0.02	< 0.5	1.0	0.06	28.5
315225	< 0.02	< 0.5	1.5	0.07	24.4
315226	0.04	< 0.5	1.0	0.05	32.0
315227	< 0.02	< 0.5	1.0	0.06	36.8
315228	< 0.02	< 0.5	1.1	0.07	31.7
315229	< 0.02	< 0.5	0.9	< 0.05	32.3
315230	< 0.02	< 0.5	1.3	0.05	35.6
315231	< 0.02	< 0.5	1.2	0.05	33.3
315232	< 0.02	< 0.5	1.1	0.05	32.5
315233	< 0.02	< 0.5	1.0	0.06	33.3
315234	< 0.02	< 0.5	1.1	0.08	31.9
315235	0.02	< 0.5	1.3	0.06	27.8
315236	< 0.02	< 0.5	1.1	0.08	36.3
315237	< 0.02	< 0.5	1.1	0.08	30.3
315238	< 0.02	< 0.5	0.9	0.05	28.8
315239	< 0.02	< 0.5	1.3	0.08	32.0
315240	< 0.02	< 0.5	1.3	0.05	33.1
315241	< 0.02	< 0.5	1.1	0.06	31.5
315242	< 0.02	< 0.5	1.4	0.06	32.0
315243	< 0.02	< 0.5	1.0	0.07	31.6
315244	< 0.02	< 0.5	0.8	0.06	35.5
315245	< 0.02	< 0.5	1.2	0.08	35.0
315246	< 0.02	< 0.5	1.1	0.07	35.5
315247	< 0.02	< 0.5	1.1	0.08	30.5
315248	< 0.02	< 0.5	1.1	0.06	30.6
315249	< 0.02	< 0.5	1.3	0.05	29.0
315250	< 0.02	< 0.5	0.3	< 0.05	32.0
315251	< 0.02	< 0.5	1.2	0.07	28.9
315252	< 0.02	< 0.5	1.2	0.09	28.4
315253	< 0.02	< 0.5	1.1	0.06	31.0
315254	< 0.02	< 0.5	1.2	0.08	30.8
315255	< 0.02	< 0.5	1.0	0.06	27.5

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315256	< 0.02	< 0.5	1.0	0.08	31.6
315257	< 0.02	< 0.5	1.1	0.07	29.3
315258	< 0.02	< 0.5	1.2	0.07	33.9
315259	< 0.02	< 0.5	0.9	0.05	32.7
315260	< 0.02	< 0.5	0.8	0.07	34.4
315261	< 0.02	< 0.5	1.5	0.06	30.0
315262	< 0.02	< 0.5	1.3	0.06	30.9
315263	< 0.02	< 0.5	1.3	0.06	34.3
315264	< 0.02	< 0.5	1.5	0.08	16.9
315265	< 0.02	< 0.5	0.9	0.05	28.4
315266	< 0.02	< 0.5	1.1	0.07	29.8
315267	< 0.02	< 0.5	1.0	0.06	27.4
315268	0.02	< 0.5	1.4	0.07	32.6
315269	< 0.02	< 0.5	1.7	0.06	35.1
315270	< 0.02	< 0.5	1.3	0.07	31.9
315271	< 0.02	< 0.5	1.4	0.07	26.8
315272	< 0.02	< 0.5	1.3	0.06	31.2
315273	0.03	< 0.5	1.1	0.05	27.4
315274	< 0.02	< 0.5	1.5	0.05	27.9
315275	< 0.02	< 0.5	1.7	0.06	27.6
315276	< 0.02	< 0.5	1.3	0.08	26.9
315277	< 0.02	< 0.5	1.1	0.07	33.4
315278	< 0.02	< 0.5	1.2	0.07	32.3
315279	< 0.02	< 0.5	1.3	0.07	29.5
315280	< 0.02	< 0.5	1.3	0.06	32.6
315281	< 0.02	< 0.5	1.1	0.05	35.2
315282	< 0.02	< 0.5	1.7	0.09	26.6
315283	0.02	< 0.5	2.3	0.10	28.2
315284	< 0.02	< 0.5	1.9	0.10	27.4
315285	< 0.02	< 0.5	1.1	0.08	35.1
315286	< 0.02	< 0.5	1.2	0.06	33.4
315287	< 0.02	< 0.5	1.0	0.05	30.6
315288	< 0.02	< 0.5	1.2	0.08	32.8
315289	< 0.02	< 0.5	0.9	0.06	32.2
315290	< 0.02	< 0.5	1.1	0.06	30.2
315291	< 0.02	< 0.5	0.9	< 0.05	36.5
315292	< 0.02	< 0.5	1.0	0.05	33.3
315293	< 0.02	< 0.5	1.4	0.07	30.0
315294	0.03	< 0.5	1.3	0.07	30.8
315295	< 0.02	< 0.5	1.3	0.05	28.0
315296	< 0.02	< 0.5	0.9	0.05	30.9
315297	< 0.02	< 0.5	0.9	0.06	30.1
315298	< 0.02	< 0.5	1.1	0.07	30.4
315299	< 0.02	< 0.5	1.1	0.06	30.9
315300	< 0.02	< 0.5	1.5	0.06	23.8
315301	< 0.02	< 0.5	1.3	0.08	25.7
315302	< 0.02	< 0.5	0.9	< 0.05	28.1
315303	< 0.02	< 0.5	1.1	0.06	31.1
315304	< 0.02	< 0.5	1.0	0.08	28.8
315305	< 0.02	< 0.5	0.9	0.06	34.0
315306	< 0.02	< 0.5	0.9	0.05	35.6

Results

Activation Laboratories Ltd.

Report: A21-19476

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315307	< 0.02	< 0.5	1.1	0.08	25.8
315308	< 0.02	< 0.5	1.0	0.05	31.3
315309	< 0.02	< 0.5	0.9	0.06	30.1
315310	< 0.02	< 0.5	0.8	< 0.05	33.9
315311	< 0.02	< 0.5	1.6	0.08	27.3
315312	< 0.02	< 0.5	1.1	0.06	30.0
315313	< 0.02	< 0.5	1.5	0.06	31.6
315314	< 0.02	< 0.5	0.9	0.05	29.0
315315	< 0.02	< 0.5	1.3	0.08	30.6
315316	< 0.02	< 0.5	1.1	0.07	29.2
315317	< 0.02	< 0.5	1.2	0.07	25.4
315318	< 0.02	< 0.5	1.1	0.06	29.1
315319	< 0.02	< 0.5	1.2	0.06	33.8
315320	< 0.02	< 0.5	1.1	0.07	29.8
315321	< 0.02	< 0.5	1.0	0.05	34.0
315322	< 0.02	< 0.5	1.0	0.07	34.1
315323	< 0.02	< 0.5	1.0	0.06	32.0
315324	< 0.02	< 0.5	0.8	0.05	31.7
315325	< 0.02	< 0.5	0.3	< 0.05	29.5
315326	< 0.02	< 0.5	1.0	0.05	30.8
315327	< 0.02	< 0.5	0.8	< 0.05	32.0
315328	< 0.02	< 0.5	1.1	0.06	30.4
315329	< 0.02	< 0.5	1.0	0.06	32.9
315330	< 0.02	< 0.5	1.1	0.06	34.8
315331	< 0.02	< 0.5	1.1	0.07	32.5
315332	< 0.02	< 0.5	0.9	0.06	31.2
315333	< 0.02	< 0.5	1.0	0.06	33.8
315334	< 0.02	< 0.5	1.3	0.06	27.7
315335	< 0.02	< 0.5	1.0	0.06	11.1
315336	< 0.02	< 0.5	0.5	< 0.05	10.8
315337	< 0.02	< 0.5	1.0	0.05	35.0
315338	< 0.02	< 0.5	0.9	< 0.05	35.5
315339	< 0.02	< 0.5	1.0	< 0.05	34.3
315340	< 0.02	< 0.5	0.9	0.05	36.3
315341	< 0.02	< 0.5	1.0	0.06	31.2
315342	< 0.02	< 0.5	1.1	0.06	31.9
315343	< 0.02	< 0.5	1.2	0.06	31.2
315344	< 0.02	< 0.5	1.1	0.07	27.5
315345	< 0.02	< 0.5	1.0	< 0.05	30.7
315346	< 0.02	< 0.5	1.1	0.06	30.6
315347	< 0.02	< 0.5	1.4	0.08	28.0
315348	< 0.02	< 0.5	1.4	0.08	29.4
315349	< 0.02	< 0.5	1.2	0.07	29.6
315350	< 0.02	< 0.5	1.5	0.08	26.9
315351	< 0.02	< 0.5	1.0	0.06	30.0
315352	< 0.02	< 0.5	1.0	0.06	34.3
315353	0.02	< 0.5	1.2	0.06	32.5
315354	< 0.02	< 0.5	1.2	0.06	31.7
315355	< 0.02	< 0.5	1.1	0.07	33.7
315356	< 0.02	< 0.5	1.3	0.07	39.4
315357	< 0.02	< 0.5	0.3	< 0.05	11.1

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315358	< 0.02	< 0.5	1.5	0.09	28.3
315359	< 0.02	< 0.5	1.6	0.11	27.3
315360	< 0.02	< 0.5	0.3	< 0.05	36.8
315361	< 0.02	< 0.5	0.9	0.06	39.6
315362	< 0.02	< 0.5	1.1	0.07	33.9
315363	< 0.02	< 0.5	1.0	0.06	24.5
315364	< 0.02	< 0.5	0.9	0.06	35.3
315365	0.04	< 0.5	1.1	0.06	34.2
315366	0.04	< 0.5	1.1	0.06	33.0
315367	< 0.02	< 0.5	1.3	0.06	35.4
315368	< 0.02	< 0.5	1.4	0.06	27.0
315369	< 0.02	< 0.5	1.8	0.09	29.2
315370	< 0.02	< 0.5	1.5	0.09	22.5
315371	< 0.02	< 0.5	1.1	0.05	33.4
315372	< 0.02	< 0.5	1.7	0.08	26.1
315373	< 0.02	< 0.5	1.3	0.06	32.3
315374	0.02	< 0.5	1.1	0.05	27.5
315375	< 0.02	< 0.5	1.4	0.05	24.3
315376	< 0.02	< 0.5	1.0	0.06	24.8
315377	< 0.02	< 0.5	0.9	0.05	38.7
315378	< 0.02	< 0.5	0.9	0.06	24.8
315379	< 0.02	< 0.5	1.0	0.05	23.3
315380	< 0.02	< 0.5	1.0	0.05	35.7
315381	< 0.02	< 0.5	1.0	0.05	28.3
315382	< 0.02	< 0.5	0.9	< 0.05	32.0
315383	< 0.02	< 0.5	1.0	0.06	35.4
315384	< 0.02	< 0.5	1.4	0.08	23.4
315385	< 0.02	< 0.5	1.5	0.09	25.4
315386	< 0.02	< 0.5	1.2	0.08	26.1
315387	< 0.02	< 0.5	1.1	0.07	25.4

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
Oreas 72a (4 Acid) Meas				321				6430				1.70											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				310				6320				1.65											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				308				6180				1.64											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				308				6240				1.65											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
OREAS 101b (4 Acid) Meas				416		20	24	9															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 101b (4 Acid) Meas				413		20	18	10															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 101b (4 Acid) Meas				415		20	18	9															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 98 (4 Acid) Meas		43.5		> 10000			324			1310		16.6					91						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		44.2		> 10000			319			1290		16.1					72						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		44.5		> 10000			301			1300		15.1					68						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		42.7		> 10000			296			1280		16.2					30						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		43.5		> 10000			302			1310		16.6					35						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 13b (4-Acid) Meas		0.9		2390		11		2100		117		1.13											
OREAS 13b (4-Acid) Cert		0.86		2327.000		9.0		2247.000		133		1.2											
OREAS 13b (4-Acid) Meas		0.9		2270		9		2090		136		1.16											
OREAS 13b (4-Acid) Cert		0.86		2327.000		9.0		2247.000		133		1.2											
OREAS 13b (4-Acid) Meas		0.7		2450		8		2150		125		1.21											

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
OREAS 13b (4-Acid) Cert		0.86		2327.0000		9.0		2247.0000		133		1.2											
OREAS 904 (4 Acid) Meas		0.9		6160		2	10	44		29		0.06	6.74			8	3		0.05				
OREAS 904 (4 Acid) Cert		0.551		6120		2.12	10.6	40.1		26.3		0.0630	6.30			7.86	4.05		0.0460				
OREAS 904 (4 Acid) Meas		0.3		5960		1	10	43		28		0.06	6.69			8	< 2		0.05				
OREAS 904 (4 Acid) Cert		0.551		6120		2.12	10.6	40.1		26.3		0.0630	6.30			7.86	4.05		0.0460				
OREAS 904 (4 Acid) Meas		0.9		5880		2	8	44		28		0.06	6.74			8	< 2		0.05				
OREAS 904 (4 Acid) Cert		0.551		6120		2.12	10.6	40.1		26.3		0.0630	6.30			7.86	4.05		0.0460				
OREAS 45d (4-Acid) Meas				380		1	22	239		46		0.04	8.22			< 1	2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 45d (4-Acid) Meas				362		1	20	237		44		0.05	8.24			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 45d (4-Acid) Meas				378		2	21	237		45		0.05	8.30			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 96 (4 Acid) Meas		11.8		> 10000			98			453		4.38					26						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 96 (4 Acid) Meas		11.9		> 10000			89			452		4.37					4						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 96 (4 Acid) Meas		11.7		> 10000			88			448		4.36					< 2						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 923 (4 Acid) Meas		2.3		4470	0.4	< 1	83	36		355		0.70	7.59			2	13		0.50				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 923 (4 Acid) Meas		1.7		4270	0.3	< 1	77	38		358		0.72	7.80			2	15		0.51				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 923 (4 Acid) Meas		3.1		4570	< 0.3	< 1	85	41		372		0.76	8.06			2	11		0.52				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 621 (4 Acid) Meas		70.6		3700	286	14	> 5000	27		> 10000		4.68	5.79			1	2		2.03				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
OREAS 621 (4 Acid) Meas		71.1		3650	285	14	> 5000	26		> 10000		4.56	6.09			2	3		2.08				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
OREAS 621 (4 Acid) Meas		71.5		3570	276	14	> 5000	29		> 10000		4.57	5.53			2	< 2		2.06				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
OREAS 621 (4 Acid) Meas		72.9		3560	279	15	> 5000	27		> 10000		4.68	5.41			2	< 2		2.08				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
Oreas 77b (4 Acid) Meas		1.7		3260	1.3		64 > 10000			181			1.83			< 1	< 2		2.69				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0 113000			205			1.94			0.470	3.44		3.06				
Oreas 77b (4 Acid) Meas		1.7		3760	0.7		70 > 10000			201			1.90			< 1	11		2.84				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0 113000			205			1.94			0.470	3.44		3.06				
Oreas 77b (4 Acid) Meas		1.5		3270	1.1		68 > 10000			182			1.70			< 1	5		2.62				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0 113000			205			1.94			0.470	3.44		3.06				
OREAS 681 (4 Acid) Meas		< 0.3		254		1	11	442		78		0.08	7.71			1	< 2		5.57				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		266		1	9	474		81		0.10	8.04			1	< 2		5.78				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		270		1	8	475		82		0.10	8.10			1	< 2		5.80				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		261		1	7	467		81		0.10	8.00			1	< 2		5.78				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		265		< 1	6	466		82		0.10	8.08			1	< 2		5.76				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 247 (4 Acid) Meas		2.3		41	< 0.3	< 1	29	46		85		0.68	6.24			2	< 2		0.87				
OREAS 247 (4 Acid) Cert		2.16		42.2	0.0650	1.76	31.9	45.9		86.0		0.714	6.08			2.23	0.580		0.826				
OREAS 147 (4 Acid) Meas				304		4	29	22		146		0.01	5.19			31	7		1.17				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
OREAS 147 (4 Acid) Meas				297		6	26	22		144		0.03	5.25			31	6		1.19				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
OREAS 147 (4 Acid) Meas				287		3	25	24		144		0.02	5.17			32	7		1.19				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
Oreas 521 (4 Acid) Meas		1.1		5740		115	13	72		26		1.72	4.71			< 1	8		3.73				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
Oreas 521 (4 Acid) Cert		0.89		6070		138	9.3	73		24		1.80	4.77			0.9	6		3.86				
Oreas 521 (4 Acid) Meas		1.1		5760		134	9	70		26		1.71	4.81			< 1	5		3.75				
Oreas 521 (4 Acid) Cert		0.89		6070		138	9	73		24		1.80	4.77			0.9	6		3.86				
Oreas 521 (4 Acid) Meas		1.2		5910		138	8	69		26		1.72	4.67			< 1	2		3.75				
Oreas 521 (4 Acid) Cert		0.89		6070		138	9	73		24		1.80	4.77			0.9	6		3.86				
OREAS 70b (4 Acid) Meas		< 0.3		46	< 0.3	4	12	1940		99		0.22	3.63			< 1	< 2		2.87				
OREAS 70b (4 Acid) Cert		0.2		52	0.4	3	14	2180		110		0.31	3.87			1	0.8		3.05				
OREAS 70b (4 Acid) Meas		< 0.3		48	< 0.3	2	13	2020		104		0.28	3.79			< 1	< 2		2.95				
OREAS 70b (4 Acid) Cert		0.2		52	0.4	3	14	2180		112		0.31	3.87			1	0.8		3.05				
OREAS 70b (4 Acid) Meas		< 0.3		48	0.4	3	11	2050		102		0.30	3.85			< 1	< 2		2.94				
OREAS 70b (4 Acid) Cert		0.2		52	0.4	3	14	2180		112		0.31	3.87			1	0.8		3.05				
DMMAS 124 Meas	2400								< 20					1530	< 50					54	98	1	0.2
DMMAS 124 Cert	2250								65.1					1590	351					57.4	113	2.33	0.713
DMMAS 124 Meas	2380								< 20					1590	290					60	106	1	0.6
DMMAS 124 Cert	2250								65.1					1590	351					57.4	113	2.33	0.713
DMMAS 124 Meas	2430								30					1630	90					59	122	< 1	0.6
DMMAS 124 Cert	2250								65.1					1590	351					57.4	113	2.33	0.713
DMMAS 124 Meas	2400								< 20					1470	190					58	110	< 1	0.5
DMMAS 124 Cert	2250								65.1					1590	351					57.4	113	2.33	0.713
315014 Orig		< 0.3		16	< 0.3	< 1	11	21		30		0.02	6.53			1	< 2		1.71				
315014 Dup		< 0.3		15	< 0.3	< 1	12	21		30		0.02	6.65			1	< 2		1.73				
315024 Orig		< 0.3		19	< 0.3	< 1	11	21		28		0.01	6.51			1	< 2		1.53				
315024 Dup		< 0.3		19	< 0.3	< 1	11	21		28		0.01	6.56			1	< 2		1.53				
315032 Orig	< 2		< 5						< 20		< 50			3.5	500			6.2		7	50	1	0.5
315032 Dup	< 2		< 5						< 20		< 50			2.5	410			6.5		8	44	1	0.5
315035 Orig		< 0.3		58	0.4	< 1	11	74		74		0.03	6.99			1	< 2		2.35				
315035 Dup		< 0.3		59	0.3	< 1	13	74		73		0.03	7.14			1	< 2		2.35				
315048 Orig		< 0.3		8	< 0.3	< 1	12	24		22		0.01	6.61			1	< 2		1.53				
315048 Dup		< 0.3		9	< 0.3	< 1	11	25		23		0.01	6.79			1	< 2		1.58				
315064 Orig	2		< 5						< 20		< 50			6.8	390			31.9		9	58	< 1	0.6
315064 Dup	< 2		< 5						< 20		< 50			4.1	330			29.2		9	47	3	0.6
315066 Orig		< 0.3		5	< 0.3	< 1	12	19		25		0.01	6.56			1	< 2		1.47				
315066 Dup		< 0.3		5	< 0.3	< 1	12	20		25		0.01	6.61			1	< 2		1.48				
315078 Orig		0.4		3	< 0.3	< 1	14	11		23		< 0.01	5.90			< 1	< 2		1.25				
315078 Dup		< 0.3		3	< 0.3	< 1	13	12		23		< 0.01	5.98			< 1	< 2		1.27				
315094 Orig		< 0.3		6	< 0.3	< 1	13	20		20		< 0.01	6.30			1	< 2		1.33				
315094 Dup		< 0.3		5	< 0.3	2	12	19		21		< 0.01	6.30			1	< 2		1.33				
315096 Orig	< 2		< 5						< 20		< 50			2.9	470			6.2		9	57	2	0.7
315105 Orig		< 0.3		77	0.5	< 1	< 3	19		20		0.39	0.64			< 1	< 2		4.10				
315105 Dup		< 0.3		79	0.6	1	< 3	19		19		0.39	0.65			< 1	< 2		4.09				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315122 Orig		< 0.3		131	0.4	< 1	< 3	21		12		0.44	1.15			< 1	< 2		3.58				
315122 Dup		< 0.3		134	0.5	< 1	< 3	21		12		0.45	1.18			< 1	< 2		3.64				
315128 Orig	7		< 5						< 20			< 50		4.9	80			15.9		14	88	4	0.8
315128 Dup	4		< 5						< 20			< 50		5.6	220			16.7		12	86	3	0.6
315136 Orig		< 0.3		596	0.7	< 1	< 3	37		29		0.25	1.78			< 1	< 2		4.27				
315136 Dup		< 0.3		629	0.6	< 1	< 3	36		28		0.24	1.78			< 1	< 2		4.23				
315160 Orig	< 2	< 0.3	< 5	2	< 0.3	2	12	17	< 20	23	< 50	0.01	6.60	3.1	370	1	< 2	5.4	1.44	7	47	2	0.7
315160 Dup	< 2	0.4	< 5	2	< 0.3	< 1	10	17	< 20	23	< 50	0.01	6.66	2.0	410	1	< 2	5.8	1.40	8	43	2	0.7
315162 Orig		0.5		4	< 0.3	< 1	11	18		26		0.01	6.60			1	< 2		1.55				
315162 Dup		0.5		4	< 0.3	1	11	18		25		0.02	6.51			1	< 2		1.52				
315175 Orig				6																			
315175 Dup				4																			
315180 Orig		< 0.3		9	< 0.3	< 1	10	26		25		0.03	6.73			1	< 2		1.66				
315180 Dup		0.4		9	< 0.3	< 1	11	24		25		0.03	6.84			1	< 2		1.67				
315192 Orig	2		< 5						340		< 50			0.9	230			2.2		35	772	3	0.6
315192 Dup	< 2		< 5						570		< 50			3.8	300			3.1		34	749	4	0.4
315195 Orig		< 0.3		70	0.4	< 1	9	134		48		0.08	6.16			< 1	< 2		2.30				
315195 Dup		0.5		71	< 0.3	1	9	135		49		0.08	6.27			< 1	< 2		2.32				
315210 Orig		< 0.3		9	< 0.3	1	13	30		27		0.02	7.63			1	< 2		1.35				
315210 Dup		0.4		8	< 0.3	1	13	29		27		0.02	7.52			1	< 2		1.35				
315223 Orig		< 0.3		9	< 0.3	1	12	23		24		0.02	7.00			1	< 2		1.23				
315223 Dup		< 0.3		9	< 0.3	1	12	21		24		0.02	7.05			1	< 2		1.24				
315224 Orig	< 2		< 5						< 20		< 50			4.6	390			8.8		10	44	4	0.6
315224 Dup	< 2		< 5						< 20		< 50			3.6	430			9.3		9	53	3	0.6
315245 Orig		< 0.3		79	< 0.3	< 1	13	26		23		< 0.01	6.07			1	< 2		1.53				
315245 Dup		< 0.3		85	< 0.3	< 1	12	26		23		< 0.01	6.19			1	< 2		1.55				
315256 Orig	< 2		< 5						< 20		< 50			3.7	670			< 0.5		10	52	3	0.5
315256 Dup	< 2		< 5						< 20		< 50			1.6	410			1.3		7	44	4	0.5
315261 Orig		< 0.3		42	< 0.3	< 1	13	85		35		0.01	6.69			1	< 2		1.40				
315261 Dup		< 0.3		43	< 0.3	< 1	14	87		36		0.01	6.75			1	< 2		1.41				
315269 Orig		< 0.3		21	< 0.3	< 1	11	27		29		< 0.01	6.67			1	< 2		2.27				
315269 Dup		< 0.3		19	< 0.3	< 1	12	27		29		< 0.01	6.59			< 1	< 2		2.29				
315270 Orig		0.4		17	< 0.3	< 1	13	20		25		0.01	6.43			< 1	< 2		1.65				
315270 Dup		0.4		19	< 0.3	< 1	12	21		25		0.02	6.64			1	< 2		1.66				
315288 Orig	< 2		< 5						< 20		< 50			2.5	530			3.9		10	46	5	0.6
315288 Dup	< 2		< 5						< 20		< 50			3.6	470			4.1		10	45	5	0.6
315314 Orig		< 0.3		5	< 0.3	< 1	13	12		22		< 0.01	5.87			< 1	< 2		1.35				
315314 Dup		< 0.3		5	< 0.3	< 1	14	12		22		< 0.01	5.90			< 1	< 2		1.36				
315320 Orig	7		< 5						< 20		< 50			2.8	350			5.1		9	53	3	0.6
315320 Dup	< 2		< 5						< 20		< 50			2.5	450			5.4		9	48	2	0.6
315328 Orig		< 0.3		6	< 0.3	< 1	15	20		27		0.02	6.44			1	< 2		1.27				
315328 Dup		< 0.3		5	< 0.3	< 1	15	20		28		0.02	6.52			1	< 2		1.27				
315340 Orig		0.5		11	< 0.3	< 1	13	22		26		< 0.01	6.24			< 1	< 2		1.24				
315340 Dup		< 0.3		11	< 0.3	< 1	13	23		27		< 0.01	6.37			1	< 2		1.25				
315352 Orig	< 2		< 5						< 20		< 50			2.9	350			9.0		7	41	4	0.6
315352 Dup	< 2		< 5						< 20		< 50			3.5	330			9.4		6	44	4	0.6
315368 Orig		0.4		23	< 0.3	< 1	12	16		35		0.03	6.33			< 1	< 2		1.44				
315368 Dup		0.4		23	< 0.3	< 1	12	17		36		0.02	6.34			1	< 2		1.44				
315378 Orig		0.6		20	< 0.3	< 1	13	19		52		0.03	6.32			< 1	< 2		1.26				
315378 Dup		< 0.3		21	< 0.3	< 1	13	20		52		0.03	6.38			< 1	< 2		1.24				
315384 Orig	5		< 5						< 20		< 50			2.1	260			4.7		8	66	3	0.5

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas					2.39		1.23	932		0.117							0.35			80			133
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 101b (4 Acid) Meas					2.30		1.23	931		0.114							0.37			79			139
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 101b (4 Acid) Meas					2.34		1.20	942		0.117							0.36			78			135
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
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OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas					3.60	17	0.59	460		0.106					31					87			35
OREAS 904 (4 Acid) Cert					3.31	16.7	0.556	410		0.0980					27.2					76.0			31.5
OREAS 904 (4 Acid) Meas					3.35	16	0.59	433		0.094					31					72			35
OREAS 904 (4 Acid) Cert					3.31	16.7	0.556	410		0.0980					27.2					76.0			31.5
OREAS 904 (4 Acid) Meas					3.43	16	0.60	465		0.108					31					88			35
OREAS 904 (4 Acid) Cert					3.31	16.7	0.556	410		0.0980					27.2					76.0			31.5
OREAS 45d (4-Acid) Meas					0.42	23	0.24	525		0.037					34		0.48			172			11
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 45d (4-Acid) Meas					0.41	22	0.24	509		0.035					34		0.41			158			11
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 45d (4-Acid) Meas					0.41	22	0.24	515		0.037					34		0.47			151			11
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 923 (4 Acid) Meas					2.53	31	1.74	974		0.066					46		0.41			95			26
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 923 (4 Acid) Meas					2.52	32	1.79	1050		0.068					48		0.44			99			26
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 923 (4 Acid) Meas					2.65	33	1.83	1060		0.071					48		0.45			103			28
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 621 (4 Acid) Meas					1.63	15	0.50	530		0.036					61		0.18			35			11
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1
OREAS 621 (4 Acid) Meas					1.86	15	0.51	510		0.036					69		0.19			35			11
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
OREAS 621 (4 Acid) Meas					1.85	14	0.52	515		0.035					62		0.19			35		11	
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8		11.1	
OREAS 621 (4 Acid) Meas					2.21	15	0.52	522		0.035					67		0.19			36		10	
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8		11.1	
Oreas 77b (4 Acid) Meas					0.33	18	2.49	611							32		0.06			35		6	
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6		6.55	
Oreas 77b (4 Acid) Meas					0.36	19	2.59	654							33		0.06			37		7	
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6		6.55	
Oreas 77b (4 Acid) Meas					0.31	17	2.33	626							31		0.06			36		7	
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6		6.55	
OREAS 681 (4 Acid) Meas					1.30	12	4.95	1230		0.135					429		0.54			229		16	
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253		17.5	
OREAS 681 (4 Acid) Meas					1.35	14	5.09	1280		0.141					461		0.57			245		16	
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253		17.5	
OREAS 681 (4 Acid) Meas					1.34	14	5.09	1280		0.141					460		0.57			248		16	
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253		17.5	
OREAS 681 (4 Acid) Meas					1.32	13	5.10	1290		0.142					460		0.59			246		16	
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253		17.5	
OREAS 681 (4 Acid) Meas					1.33	13	5.12	1280		0.142					453		0.59			246		16	
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253		17.5	
OREAS 247 (4 Acid) Meas					1.74	31	1.21	374		0.043					98		0.35			71		18	
OREAS 247 (4 Acid) Cert					2.45	31.8	1.22	360		0.0480					96.0		0.390			82.0		13.1	
OREAS 147 (4 Acid) Meas					1.68	2200	0.55	420		0.089					316		0.29			56		28	
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0		26.3	
OREAS 147 (4 Acid) Meas					1.83	2240	0.57	424		0.129					326		0.30			48		28	
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0		26.3	
OREAS 147 (4 Acid) Meas					1.79	2200	0.56	417		0.104					321		0.21			42		28	
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0		26.3	
Oreas 521 (4 Acid) Meas					3.08	17	1.13	3010		0.078					88		0.30			190		18	

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
Oreas 521 (4 Acid) Meas					3.07	17	1.13	3090		0.083					91		0.40			201			19
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
Oreas 521 (4 Acid) Meas					3.07	16	1.13	3090		0.082					90		0.43			210			19
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
OREAS 70b (4 Acid) Meas					0.58	30	12.6	1080		0.022					68		0.16			62			8
OREAS 70b (4 Acid) Cert					0.62	34	13.4	1150		0.022					74		0.18			67			10
OREAS 70b (4 Acid) Meas					0.59	33	12.9	1120		0.024					72		0.18			66			9
OREAS 70b (4 Acid) Cert					0.62	34	13.4	1150		0.022					74		0.18			67			10
OREAS 70b (4 Acid) Meas					0.59	32	12.7	1120		0.022					72		0.18			65			9
OREAS 70b (4 Acid) Cert					0.62	34	13.4	1150		0.022					74		0.18			67			10
DMMAS 124 Meas	13.9	2							0.67		< 15	4.7	15.6	< 3				1.1	13.6				10.9
DMMAS 124 Cert	14.8	1.33							0.687		46.3	4.99	16.2	5.85				1.81	13.6				10.4
DMMAS 124 Meas	14.9	1							0.72		23	5.6	16.0	< 3				2.0	14.1				10.4
DMMAS 124 Cert	14.8	1.33							0.687		46.3	4.99	16.2	5.85				1.81	13.6				10.4
DMMAS 124 Meas	15.4	< 1							0.72		70	4.9	16.9	< 3				1.9	13.9				10.3
DMMAS 124 Cert	14.8	1.33							0.687		46.3	4.99	16.2	5.85				1.81	13.6				10.4
DMMAS 124 Meas	14.1	2							0.70		< 15	5.1	15.4	< 3				1.5	12.9				10.1
DMMAS 124 Cert	14.8	1.33							0.687		46.3	4.99	16.2	5.85				1.81	13.6				10.4
315014 Orig					1.75	18	0.53	267		0.019					303		0.20			36			11
315014 Dup					1.77	18	0.53	263		0.019					307		0.23			42			11
315024 Orig					1.83	12	0.53	249		0.028					299		0.23			51			8
315024 Dup					1.83	12	0.54	246		0.026					303		0.22			49			9
315032 Orig	2.23	10	< 1	< 5					1.90		71	0.2	6.7	< 3		< 0.5		5.3	0.6		< 1		14.5
315032 Dup	2.22	10	< 1	< 5					1.87		17	< 0.1	6.6	< 3		< 0.5		4.9	< 0.5		< 1		13.8
315035 Orig					1.55	33	0.95	472		0.035					242		0.10			34			14
315035 Dup					1.54	34	0.96	471		0.035					244		0.10			35			14
315048 Orig					1.62	14	0.56	258		0.012					293		0.17			41			8
315048 Dup					1.70	15	0.60	262		0.012					297		0.12			29			8
315064 Orig	2.62	7	< 1	< 5					1.71		< 15	0.1	6.7	< 3		< 0.5		4.6	2.1		< 1		16.3
315064 Dup	2.51	7	< 1	< 5					1.70		59	0.4	6.8	< 3		< 0.5		5.4	< 0.5		< 1		16.7
315066 Orig					1.81	16	0.51	258		0.047					308		0.23			47			9
315066 Dup					1.81	16	0.52	264		0.050					305		0.25			50			9
315078 Orig					2.02	12	0.35	192		0.012					296		0.10			15			7
315078 Dup					2.03	13	0.36	195		0.012					303		0.08			13			7
315094 Orig					1.94	13	0.43	215		0.016					304		0.10			17			9
315094 Dup					1.88	13	0.43	215		0.011					305		0.07			10			9
315096 Orig	3.36	8	< 1	< 5					1.93		57	0.2	6.4	< 3		< 0.5		4.9	< 0.5		< 1		14.1
315105 Orig					0.06	1	0.24	322		0.063					51		0.02			10			8
315105 Dup					0.06	1	0.24	313		0.063					52		0.02			11			8

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
315122 Orig					0.08	1	0.25	138		0.108					60		0.03			10		28	
315122 Dup					0.09	2	0.26	139		0.109					63		0.03			11		29	
315128 Orig	3.13	3	< 1	< 5					0.63		< 15	0.3	14.3	< 3		< 0.5		4.1	< 0.5		< 1		18.4
315128 Dup	3.02	4	< 1	< 5					0.59		< 15	< 0.1	13.3	< 3		< 0.5		2.9	1.1		< 1		17.4
315136 Orig					0.13	2	0.34	170		0.135					81		0.05			15		63	
315136 Dup					0.13	2	0.33	176		0.133					79		0.05			14		62	
315160 Orig	2.07	7	< 1	< 5	1.82	13	0.44	238	1.89	0.036	67	< 0.1	5.3	< 3	317	< 0.5	0.15	4.4	0.8	32	< 1	9	14.0
315160 Dup	2.03	7	< 1	< 5	1.81	13	0.44	228	1.89	0.042	19	< 0.1	5.3	< 3	320	< 0.5	0.19	5.3	< 0.5	37	< 1	8	14.1
315162 Orig					1.88	14	0.49	261		0.079					330		0.25			50		9	
315162 Dup					1.87	14	0.49	250		0.074					321		0.24			48		9	
315175 Orig																							
315175 Dup																							
315180 Orig					1.79	14	0.56	269		0.032					319		0.13			29		13	
315180 Dup					1.77	14	0.56	273		0.036					324		0.15			31		13	
315192 Orig	6.71	6	< 1	< 5					1.28		34	< 0.1	12.2	< 3		< 0.5		3.5	1.1		< 1		11.9
315192 Dup	6.37	6	< 1	< 5					1.24		47	0.2	11.9	< 3		< 0.5		3.4	< 0.5		< 1		11.5
315195 Orig					1.36	21	0.75	650		0.129					236		0.25			68		16	
315195 Dup					1.34	21	0.78	675		0.132					240		0.25			69		16	
315210 Orig					1.69	21	0.50	305		0.056					281		0.21			50		9	
315210 Dup					1.63	20	0.50	310		0.059					281		0.24			53		8	
315223 Orig					1.76	16	0.43	214		0.024					283		0.12			24		9	
315223 Dup					1.82	16	0.44	214		0.025					287		0.10			20		9	
315224 Orig	2.29	8	< 1	< 5					1.72		62	< 0.1	5.8	< 3		< 0.5		5.3	< 0.5		< 1		14.6
315224 Dup	2.19	8	< 1	< 5					1.68		121	< 0.1	5.6	< 3		< 0.5		5.2	1.0		< 1		14.5
315245 Orig					1.47	11	0.44	270		0.008					335		0.21			35		9	
315245 Dup					1.71	11	0.45	274		0.008					346		0.21			35		9	
315256 Orig	1.89	9	< 1	< 5					1.85		< 15	0.5	6.2	< 3		< 0.5		4.3	< 0.5		< 1		12.9
315256 Dup	1.81	10	< 1	< 5					1.80		56	0.3	6.0	< 3		< 0.5		4.6	< 0.5		< 1		12.6
315261 Orig					1.53	20	0.51	254		0.016					292		0.21			39		10	
315261 Dup					1.91	20	0.51	248		0.015					295		0.07			13		11	
315269 Orig					1.50	15	0.93	407		0.014					314		0.10			31		14	
315269 Dup					1.70	15	0.94	406		0.018					311		0.08			22		14	
315270 Orig					1.83	14	0.60	302		0.019					310		0.08			19		10	
315270 Dup					1.83	15	0.61	309		0.018					318		0.09			22		10	
315288 Orig	2.34	8	< 1	< 5					1.96		< 15	< 0.1	5.8	< 3		< 0.5		4.9	1.0		< 1		15.6
315288 Dup	2.31	8	< 1	< 5					1.92		93	0.2	5.8	< 3		< 0.5		4.1	0.7		< 1		15.2
315314 Orig					1.62	13	0.45	236		0.010					276		0.20			46		7	
315314 Dup					1.56	13	0.45	235		0.010					278		0.17			40		8	
315320 Orig	2.11	8	< 1	< 5					1.95		19	< 0.1	6.6	< 3		< 0.5		4.7	0.7		< 1		16.2
315320 Dup	2.06	8	< 1	< 5					1.90		< 15	< 0.1	6.3	< 3		< 0.5		5.8	0.8		< 1		15.4
315328 Orig					1.57	18	0.47	259		0.036					281		0.27			57		9	
315328 Dup					1.66	18	0.48	263		0.036					284		0.27			57		9	
315340 Orig					1.67	17	0.40	207		0.016					284		0.26			45		8	
315340 Dup					1.54	17	0.41	217		0.009					288		0.24			43		8	
315352 Orig	2.19	7	< 1	< 5					1.61		25	< 0.1	5.9	< 3		< 0.5		4.9	1.4		< 1		15.3
315352 Dup	2.10	7	< 1	< 5					1.58		24	0.2	5.9	< 3		< 0.5		4.8	1.8		< 1		14.8
315368 Orig					1.62	19	0.54	301		0.036					250		0.19			50		10	
315368 Dup					1.62	19	0.54	295		0.037					249		0.21			53		9	
315378 Orig					1.36	21	0.52	295		0.035					227		0.32			84		9	
315378 Dup					1.41	21	0.51	291		0.028					224		0.30			81		9	
315384 Orig	1.68	7	< 1	< 5					1.43		< 15	0.4	7.1	< 3		< 0.5		4.8	1.0		< 1		16.2

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
315384 Dup	1.81	8	< 1	< 5					1.53		< 15	0.2	7.9	< 3		< 0.5		4.7	1.7		< 1		17.5
315387 Orig					1.41	17	0.65	284		0.030					193		0.17			74			8
315387 Dup					1.45	16	0.67	288		0.030					199		0.15			73			8
Method Blank					< 0.01	< 1	< 0.01	8		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	5		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	5		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	4		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	8		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	7		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	7		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank					< 0.01	< 1	< 0.01	6		< 0.001					< 1		< 0.01			< 2			< 1
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5
Method Blank					< 0.01	< 1	< 0.01	< 1		< 0.001					< 1		< 0.01			< 2			< 1

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 13b (4-Acid) Meas								
OREAS 13b (4-Acid) Cert								
OREAS 13b (4-Acid) Meas								
OREAS 13b (4-Acid) Cert								
OREAS 13b (4-Acid) Meas								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
OREAS 13b (4-Acid) Cert								
OREAS 904 (4 Acid) Meas								
OREAS 904 (4 Acid) Cert								
OREAS 904 (4 Acid) Meas								
OREAS 904 (4 Acid) Cert								
OREAS 904 (4 Acid) Meas								
OREAS 904 (4 Acid) Cert								
OREAS 904 (4 Acid) Meas								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 247 (4 Acid) Meas								
OREAS 247 (4 Acid) Cert								
OREAS 147 (4 Acid) Meas								
OREAS 147 (4 Acid) Cert								
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								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Oreas 521 (4 Acid) Cert								
Oreas 521 (4 Acid) Meas								
Oreas 521 (4 Acid) Cert								
Oreas 521 (4 Acid) Meas								
Oreas 521 (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								
OREAS 70b (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								
OREAS 70b (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								
OREAS 70b (4 Acid) Cert								
DMMAS 124 Meas	24	< 5	1.8		< 0.5	1.3	0.08	
DMMAS 124 Cert	18.0	9.10	1.94		0.40	1.52	0.251	
DMMAS 124 Meas	17	14	1.9		< 0.5	1.4	0.10	
DMMAS 124 Cert	18.0	9.10	1.94		0.40	1.52	0.251	
DMMAS 124 Meas	24	< 5	1.9		< 0.5	1.5	0.07	
DMMAS 124 Cert	18.0	9.10	1.94		0.40	1.52	0.251	
DMMAS 124 Meas	17	< 5	1.9		< 0.5	1.4	0.09	
DMMAS 124 Cert	18.0	9.10	1.94		0.40	1.52	0.251	
315014 Orig								
315014 Dup								
315024 Orig								
315024 Dup								
315032 Orig	34	10	2.2	< 0.02	< 0.5	1.3	0.09	29.8
315032 Dup	33	10	2.2	< 0.02	< 0.5	1.2	0.06	29.3
315035 Orig								
315035 Dup								
315048 Orig								
315048 Dup								
315064 Orig	39	16	2.4	< 0.02	< 0.5	1.4	0.05	23.0
315064 Dup	38	12	2.6	< 0.02	< 0.5	1.2	0.08	20.8
315066 Orig								
315066 Dup								
315078 Orig								
315078 Dup								
315094 Orig								
315094 Dup								
315096 Orig	35	8	2.3	< 0.02	< 0.5	1.0	0.05	24.8
315105 Orig								
315105 Dup								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315122 Orig								
315122 Dup								
315128 Orig	30	11	3.2	< 0.02	< 0.5	1.8	0.07	15.1
315128 Dup	28	14	2.9	0.03	< 0.5	1.6	0.08	15.4
315136 Orig								
315136 Dup								
315160 Orig	38	9	2.5	< 0.02	< 0.5	0.9	0.06	32.5
315160 Dup	39	13	2.6	< 0.02	< 0.5	1.1	0.05	31.8
315162 Orig								
315162 Dup								
315175 Orig								
315175 Dup								
315180 Orig								
315180 Dup								
315192 Orig	30	7	2.1	< 0.02	< 0.5	1.4	< 0.05	28.6
315192 Dup	23	7	2.0	< 0.02	< 0.5	1.1	< 0.05	30.4
315195 Orig								
315195 Dup								
315210 Orig								
315210 Dup								
315223 Orig								
315223 Dup								
315224 Orig	34	14	2.5	< 0.02	< 0.5	1.0	0.07	28.5
315224 Dup	31	10	2.4	0.05	< 0.5	1.1	0.06	28.6
315245 Orig								
315245 Dup								
315256 Orig	28	12	2.0	< 0.02	< 0.5	1.1	0.09	32.2
315256 Dup	25	9	1.9	< 0.02	< 0.5	1.0	0.06	31.0
315261 Orig								
315261 Dup								
315269 Orig								
315269 Dup								
315270 Orig								
315270 Dup								
315288 Orig	33	15	2.9	< 0.02	< 0.5	1.3	0.09	32.7
315288 Dup	30	14	2.9	< 0.02	< 0.5	1.0	0.06	32.8
315314 Orig								
315314 Dup								
315320 Orig	36	9	3.3	< 0.02	< 0.5	1.1	0.06	29.3
315320 Dup	38	10	3.3	< 0.02	< 0.5	1.2	0.08	30.2
315328 Orig								
315328 Dup								
315340 Orig								
315340 Dup								
315352 Orig	33	8	2.8	< 0.02	< 0.5	1.0	0.07	34.6
315352 Dup	31	11	2.7	< 0.02	< 0.5	1.0	0.06	34.0
315368 Orig								
315368 Dup								
315378 Orig								
315378 Dup								
315384 Orig	29	11	2.2	< 0.02	< 0.5	1.3	0.08	28.5

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315384 Dup	33	8	2.5	< 0.02	< 0.5	1.4	0.08	18.4
315387 Orig								
315387 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								
Method Blank								
Method Blank								
Method Blank								
Method Blank	< 3	< 5	< 0.1	< 0.02	< 0.5	< 0.2	< 0.05	20.3
Method Blank								



Report No.: A21-19478
Report Date: 26-Jan-22
Date Submitted: 15-Oct-21
Your Reference: Hambleton East

Haveman Brothers Ltd.
5378 Oliver Road
Kakabeka Falls Ontario
Canada

ATTN: Mike Haveman

CERTIFICATE OF ANALYSIS

388 Soil samples were submitted for analysis.

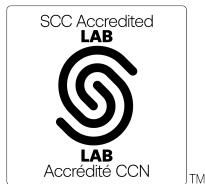
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 1H, QOP INAAGEO/QOP Total (INAA/Total Digestion ICPOES), 2021-11-24 18:39:05

REPORT A21-19478

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:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.



LabID: 266

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CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315388	< 2	0.5	28	< 0.3	< 1	12	24	38	0.03	6.22	4.5	300	< 1	< 2	15.8	1.61	9	61	3	0.7	3.45	6	< 1
315389	< 2	0.5	23	< 0.3	< 1	12	19	37	0.03	6.81	2.2	390	1	< 2	24.7	1.30	7	48	1	0.8	2.14	7	< 1
315390	< 2	0.5	20	< 0.3	< 1	8	34	51	0.01	6.85	0.7	290	< 1	< 2	< 0.5	3.96	21	102	3	0.4	4.24	5	< 1
315391	3	0.6	20	< 0.3	< 1	13	23	44	0.02	6.07	3.4	440	< 1	< 2	7.9	1.54	11	54	5	0.6	2.70	9	< 1
315392	< 2	0.5	51	< 0.3	< 1	7	67	53	0.05	8.51	2.1	< 50	1	< 2	22.0	3.44	34	160	3	0.9	5.44	3	< 1
315393	3	0.6	14	< 0.3	< 1	11	38	27	< 0.01	6.44	1.6	530	1	< 2	1.1	1.63	10	45	5	0.6	1.56	8	< 1
315394	< 2	0.5	12	< 0.3	< 1	13	24	27	< 0.01	6.54	< 0.5	410	1	< 2	3.2	1.81	11	46	5	0.7	1.90	7	< 1
315395	5	0.4	47	< 0.3	< 1	10	41	29	0.06	7.34	4.0	460	2	< 2	28.6	1.88	12	59	9	1.8	2.47	5	< 1
315396	3	0.4	58	0.4	< 1	10	48	20	0.10	4.01	2.5	290	< 1	< 2	23.6	3.39	8	40	7	1.4	1.48	5	< 1
315397	< 2	0.5	10	< 0.3	< 1	13	19	26	< 0.01	6.33	2.7	470	1	< 2	1.8	1.62	9	45	< 1	0.7	1.91	9	< 1
315398	< 2	0.5	9	< 0.3	< 1	14	16	21	0.01	6.49	2.6	380	< 1	< 2	5.1	1.41	8	38	3	0.5	2.05	8	< 1
315399	< 2	0.5	9	< 0.3	< 1	13	17	22	0.01	6.44	2.3	470	< 1	< 2	4.4	1.43	8	38	2	0.5	1.87	8	< 1
315400	< 2	< 0.3	10	< 0.3	11	4	14	9	< 0.01	0.46	1.5	< 50	< 1	< 2	< 0.5	0.03	2	53	< 1	< 0.2	1.53	1	< 1
315401	< 2	0.5	4	< 0.3	< 1	12	18	21	0.02	6.52	2.8	450	< 1	< 2	5.4	1.41	8	44	1	0.6	2.71	6	< 1
315402	< 2	0.5	6	< 0.3	< 1	13	16	23	< 0.01	6.58	1.9	430	1	< 2	3.6	1.46	8	38	2	0.6	1.67	8	< 1
315403	< 2	0.5	10	< 0.3	< 1	14	23	29	< 0.01	6.52	0.5	450	1	< 2	< 0.5	1.81	10	45	< 1	0.7	1.84	8	< 1
315404	< 2	0.5	25	< 0.3	< 1	11	46	45	0.03	7.09	2.1	490	< 1	< 2	1.6	2.58	18	85	3	0.8	3.10	6	< 1
315405	< 2	0.4	22	< 0.3	< 1	12	19	21	< 0.01	6.64	2.1	430	1	< 2	5.5	1.62	8	33	< 1	0.6	1.62	6	< 1
315406	< 2	0.4	28	< 0.3	< 1	16	24	29	< 0.01	6.53	0.9	400	1	< 2	2.8	1.71	10	42	1	0.7	1.87	7	< 1
315407	< 2	0.5	24	< 0.3	< 1	14	25	28	0.01	6.64	2.6	410	< 1	< 2	1.7	1.72	11	39	2	0.7	1.98	8	< 1
315408	< 2	0.4	12	< 0.3	< 1	14	18	23	0.01	6.54	1.5	450	1	< 2	4.1	1.67	8	40	2	0.9	1.67	8	< 1
315409	< 2	0.4	19	< 0.3	< 1	14	23	23	0.02	6.62	4.4	440	< 1	< 2	10.8	1.41	8	47	1	0.7	2.15	8	< 1
315410	3	0.5	8	< 0.3	< 1	14	13	23	0.02	6.08	3.0	390	< 1	< 2	8.5	1.25	8	43	3	0.5	3.08	8	< 1
315411	< 2	0.5	29	< 0.3	< 1	15	24	35	0.02	6.88	2.3	420	< 1	< 2	10.3	1.30	10	50	3	0.7	2.91	7	< 1
315412	< 2	0.5	6	< 0.3	< 1	14	16	22	< 0.01	6.22	1.3	390	< 1	< 2	5.9	1.41	9	41	2	0.6	2.17	9	< 1
315413	< 2	0.4	7	< 0.3	< 1	15	27	23	< 0.01	6.49	1.5	410	1	< 2	< 0.5	1.39	9	44	2	0.7	1.67	9	< 1
315414	< 2	< 0.3	11	0.5	2	3	14	9	0.16	0.79	3.7	< 50	< 1	< 2	14.9	2.33	2	9	< 1	< 0.2	0.45	< 1	< 1
315415	< 2	< 0.3	18	< 0.3	4	3	8	6	0.31	0.54	1.8	< 50	< 1	< 2	10.4	3.93	2	10	< 1	< 0.2	0.57	< 1	< 1
315416	< 2	0.3	10	< 0.3	< 1	12	18	21	0.01	6.26	1.3	460	< 1	< 2	4.2	1.68	8	45	3	0.3	1.48	10	< 1
315417	< 2	< 0.3	8	< 0.3	< 1	13	23	35	< 0.01	5.28	1.4	320	< 1	< 2	< 0.5	1.98	10	79	< 1	0.5	2.56	10	< 1
315418	< 2	0.5	8	< 0.3	< 1	14	26	27	0.01	6.79	2.3	400	1	< 2	5.2	1.65	10	55	3	0.7	2.21	8	< 1
315419	< 2	0.4	11	< 0.3	< 1	15	31	31	0.02	6.18	3.2	450	1	< 2	4.9	1.75	10	60	3	0.7	2.11	8	< 1
315420	6	0.3	18	< 0.3	< 1	12	13	15	< 0.01	5.11	0.6	500	< 1	< 2	< 0.5	1.31	6	52	< 1	0.6	1.52	10	< 1
315421	< 2	0.4	12	< 0.3	< 1	12	20	28	0.01	5.87	2.5	450	< 1	< 2	4.5	1.55	9	41	3	0.6	2.32	8	< 1
315422	< 2	0.4	11	< 0.3	< 1	19	27	30	< 0.01	6.20	2.3	490	< 1	< 2	3.8	1.75	10	53	3	0.7	2.24	7	< 1
315423	< 2	0.5	19	< 0.3	< 1	12	77	52	0.02	6.24	3.8	480	1	< 2	7.6	1.41	16	123	5	0.6	2.97	9	< 1
315424	< 2	0.4	20	< 0.3	< 1	14	82	53	0.02	6.22	4.5	370	< 1	< 2	7.7	1.42	19	136	5	0.6	3.18	9	< 1
315425	342	< 0.3	25	< 0.3	< 1	9	107	95	< 0.01	5.73	4.8	380	2	< 2	< 0.5	2.01	33	135	4	2.0	5.01	6	< 1
315426	< 2	0.4	17	< 0.3	< 1	15	30	25	0.01	6.60	2.5	440	1	< 2	7.4	1.25	11	54	6	0.6	2.24	9	< 1
315427	3	0.3	14	< 0.3	< 1	14	46	30	< 0.01	6.23	2.3	440	< 1	< 2	< 0.5	1.72	12	72	4	0.5	2.00	8	< 1
315428	2	< 0.3	20	< 0.3	< 1	15	14	26	0.02	6.11	2.6	420	< 1	< 2	18.7	1.18	8	56	3	0.5	2.56	9	< 1
315429	< 2	0.3	37	< 0.3	< 1	15	31	53	0.03	6.91	4.5	490	1	< 2	19.1	1.35	12	65	4	0.7	3.19	9	< 1
315430	8	0.4	8	< 0.3	< 1	14	21	25	0.02	6.61	3.0	480	< 1	< 2	8.0	1.02	7	47	4	0.6	1.89	9	< 1
315431	< 2	0.5	9	< 0.3	< 1	15	18	33	0.01	6.14	1.9	430	< 1	< 2	4.0	1.29	7	40	2	0.6	2.06	8	< 1
315432	< 2	0.5	9	< 0.3	< 1	15	30	41	< 0.01	5.98	0.8	560	< 1	< 2	< 0.5	1.59	11	67	4	0.6	1.69	10	< 1
315433	< 2	< 0.3	21	< 0.3	< 1	15	20	44	< 0.01	5.97	0.5	470	< 1	< 2	< 0.5	2.11	13	62	3	0.7	2.40	9	< 1
315434	< 2	< 0.3	19	< 0.3	< 1	12	21	38	0.01	5.49	< 0.5	340	< 1	< 2	4.1	1.60	7	51	3	0.6	2.44	9	< 1
315435	< 2	0.3	10	< 0.3	< 1	13	22	26	< 0.01	6.35	0.7	490	1	< 2	2.2	1.64	10	42	3	0.7	1.58	9	< 1
315436	< 2	< 0.3	20	0.5	< 1	13	41	121	0.03	5.63	3.4	420	< 1	< 2	4.2	4.91	34	139	2	0.5	6.49	4	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315437	< 2	< 0.3	68	< 0.3	< 1	15	22	59	0.02	6.32	2.9	520	< 1	< 2	12.0	1.80	13	52	7	0.7	3.44	8	< 1
315438	< 2	0.7	28	< 0.3	< 1	17	19	24	0.02	6.27	2.7	470	1	< 2	8.9	1.44	8	43	2	0.7	2.14	10	< 1
315439	< 2	0.5	27	< 0.3	< 1	13	23	34	0.02	6.03	2.8	390	1	< 2	6.3	1.52	12	52	4	0.7	2.89	8	< 1
315440	< 2	< 0.3	8	< 0.3	< 1	8	27	36	< 0.01	5.38	2.8	230	< 1	< 2	< 0.5	1.98	14	109	2	0.5	2.77	7	< 1
315441	< 2	0.4	13	< 0.3	< 1	13	21	22	< 0.01	6.34	2.1	450	1	< 2	2.2	1.64	8	43	2	0.6	1.53	10	< 1
315442	< 2	0.4	13	< 0.3	< 1	12	19	21	< 0.01	6.22	1.5	450	< 1	< 2	4.0	1.57	8	37	2	0.6	1.55	8	< 1
315443	< 2	0.4	18	< 0.3	< 1	15	19	28	0.01	6.10	< 0.5	480	< 1	< 2	< 0.5	1.55	7	45	3	0.4	1.73	8	< 1
315444	< 2	0.4	16	0.3	< 1	12	19	23	0.02	6.35	3.7	460	< 1	< 2	11.4	1.38	9	52	3	0.5	2.41	7	< 1
315445	3	0.4	11	< 0.3	< 1	13	23	24	< 0.01	6.45	2.0	430	1	< 2	2.5	1.48	10	46	3	0.5	1.80	8	< 1
315446	< 2	< 0.3	23	< 0.3	< 1	14	30	38	0.02	6.36	2.7	390	< 1	< 2	7.1	1.90	11	70	4	0.6	3.26	7	< 1
315447	< 2	< 0.3	19	< 0.3	< 1	13	17	23	0.01	6.16	2.9	410	< 1	< 2	6.3	1.42	8	42	3	0.6	1.74	8	< 1
315448	4	0.4	21	< 0.3	< 1	12	27	29	< 0.01	6.37	1.3	430	< 1	< 2	1.6	1.70	11	53	4	0.7	2.00	8	< 1
315449	< 2	0.3	19	< 0.3	1	12	25	31	< 0.01	6.23	2.3	490	< 1	< 2	< 0.5	1.67	9	47	3	0.6	1.98	8	< 1
315450	67	0.5	780	< 0.3	< 1	12	418	36	0.03	7.52	22.0	250	< 1	< 2	9.1	0.13	96	674	2	0.4	20.3	5	< 1
315451	< 2	0.4	16	< 0.3	< 1	15	26	51	0.01	6.57	4.1	420	1	< 2	2.3	1.90	11	60	4	0.6	3.06	8	< 1
315452	< 2	0.4	17	< 0.3	< 1	13	23	36	< 0.01	6.53	2.0	330	< 1	< 2	4.4	1.61	9	47	4	0.5	1.94	7	< 1
315453	< 2	< 0.3	9	< 0.3	< 1	13	15	31	0.01	5.53	1.1	340	< 1	< 2	3.0	1.78	8	50	2	0.5	1.85	6	< 1
315454	< 2	0.4	23	< 0.3	< 1	12	23	26	< 0.01	6.29	1.9	340	1	< 2	2.0	1.66	9	47	3	0.6	1.91	6	< 1
315455	< 2	0.4	47	< 0.3	< 1	12	30	27	0.01	6.73	1.6	360	1	< 2	8.8	1.76	13	52	4	0.6	2.22	6	< 1
315456	2	< 0.3	13	< 0.3	< 1	13	20	28	< 0.01	6.48	3.0	340	1	< 2	6.8	1.40	8	43	6	0.6	1.73	8	< 1
315457	8	0.3	6	< 0.3	< 1	11	19	34	< 0.01	5.76	1.7	260	< 1	< 2	1.2	2.25	11	56	4	0.5	2.40	7	< 1
315458	14	0.4	12	< 0.3	< 1	13	23	38	< 0.01	6.07	3.0	370	< 1	< 2	1.1	1.68	11	70	4	0.6	2.03	7	< 1
315459	< 2	0.3	17	0.5	2	13	22	32	0.01	6.02	3.0	310	< 1	2	5.6	1.69	9	49	2	0.6	2.10	6	< 1
315460	< 2	< 0.3	11	< 0.3	< 1	12	24	31	< 0.01	6.27	< 0.5	380	< 1	< 2	1.4	1.83	9	47	4	0.6	1.85	7	< 1
315461	2	< 0.3	16	< 0.3	< 1	14	27	28	< 0.01	6.11	2.3	330	< 1	< 2	1.2	1.49	8	50	4	0.6	1.72	8	< 1
315462	< 2	0.5	15	< 0.3	< 1	18	24	39	0.01	6.15	4.1	430	< 1	< 2	1.5	1.88	7	63	3	0.6	3.12	9	< 1
315463	< 2	0.3	25	0.7	< 1	13	23	64	0.02	5.50	2.9	370	< 1	< 2	< 0.5	2.44	13	63	2	0.4	3.96	8	< 1
315464	< 2	0.4	16	< 0.3	< 1	13	22	29	0.02	6.27	2.9	340	< 1	< 2	8.3	1.37	9	49	6	0.7	2.43	8	< 1
315465	< 2	0.3	41	< 0.3	< 1	14	20	26	0.03	6.64	3.3	370	< 1	< 2	20.5	1.31	9	58	4	0.7	2.51	7	< 1
315466	< 2	0.4	15	< 0.3	< 1	12	22	27	< 0.01	6.04	2.0	350	< 1	< 2	< 0.5	1.49	7	52	4	0.6	1.48	8	< 1
315467	< 2	0.3	23	< 0.3	< 1	14	18	24	0.01	6.42	2.0	340	< 1	< 2	7.9	1.39	7	46	3	0.6	1.67	7	< 1
315468	< 2	< 0.3	19	< 0.3	< 1	14	29	43	0.02	6.91	3.7	360	1	< 2	15.7	1.10	10	54	6	0.8	2.59	7	< 1
315469	3	0.6	11	< 0.3	< 1	13	28	27	< 0.01	6.48	1.7	320	1	< 2	0.8	1.62	8	46	3	0.6	1.46	8	< 1
315470	< 2	< 0.3	12	< 0.3	< 1	18	17	35	0.02	5.65	4.9	400	< 1	< 2	11.2	1.18	4	55	6	0.6	2.84	8	< 1
315471	< 2	< 0.3	23	< 0.3	< 1	14	35	29	< 0.01	6.39	1.9	350	1	< 2	6.1	1.37	9	53	4	0.7	1.98	8	< 1
315472	4	0.4	17	< 0.3	< 1	17	23	30	0.03	7.13	4.2	380	1	< 2	13.7	1.35	8	52	4	0.7	2.19	8	< 1
315473	< 2	< 0.3	10	< 0.3	< 1	14	17	24	0.02	6.13	3.4	380	< 1	< 2	6.5	1.41	7	48	4	0.6	2.44	7	< 1
315474	< 2	0.4	10	< 0.3	< 1	13	20	24	0.02	6.44	3.2	380	1	< 2	8.3	1.45	7	48	3	0.6	2.60	7	< 1
315475	< 2	< 0.3	11	< 0.3	< 1	< 3	5	11	< 0.01	0.40	1.3	< 50	< 1	< 2	< 0.5	0.04	2	23	< 1	< 0.2	1.61	1	< 1
315476	4	0.3	5	< 0.3	< 1	12	17	35	< 0.01	6.26	2.1	400	1	< 2	< 0.5	1.53	6	42	3	0.5	1.56	7	< 1
315477	< 2	< 0.3	9	< 0.3	< 1	12	36	26	< 0.01	6.39	0.9	380	1	< 2	3.5	1.64	7	47	4	0.7	1.58	8	< 1
315478	< 2	0.3	23	< 0.3	< 1	15	22	37	0.02	6.76	4.4	370	1	< 2	11.5	1.35	8	62	5	0.6	2.67	7	< 1
315479	< 2	< 0.3	16	< 0.3	< 1	14	20	28	0.01	6.60	2.4	340	< 1	< 2	7.3	1.49	9	43	3	0.6	2.23	7	< 1
315480	< 2	< 0.3	19	< 0.3	< 1	14	21	28	0.01	6.32	2.4	380	1	< 2	4.8	1.28	8	48	3	0.7	1.59	8	< 1
315481	< 2	0.3	18	< 0.3	< 1	13	17	23	0.01	6.16	2.8	310	< 1	< 2	6.8	1.39	6	46	3	0.6	1.60	7	< 1
315482	< 2	0.4	67	< 0.3	< 1	12	19	24	0.01	6.14	2.8	350	1	< 2	5.2	1.53	8	49	3	0.6	1.72	6	< 1
315483	< 2	< 0.3	12	< 0.3	< 1	12	19	25	< 0.01	6.31	4.9	340	< 1	< 2	4.2	1.46	7	48	2	0.6	2.08	6	< 1
315484	< 2	0.4	22	< 0.3	< 1	15	20	45	0.02	6.01	1.1	400	< 1	< 2	1.9	1.86	8	55	4	0.6	1.75	6	< 1
315485	< 2	0.3	12	< 0.3	< 1	13	64	29	< 0.01	6.73	1.6	380	1	< 2	< 0.5	1.66	10	52	5	0.8	1.88	6	< 1
315486	< 2	0.3	3	< 0.3	< 1	12	19	19	< 0.01	5.02	< 0.5	430	< 1	< 2	< 0.5	1.28	6	75	2	0.4	1.28	11	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315487	< 2	0.4	6	< 0.3	< 1	13	27	22	0.01	6.34	1.8	430	1	< 2	3.6	1.60	7	41	3	0.6	1.43	7	< 1
315488	< 2	0.4	8	< 0.3	< 1	16	19	25	< 0.01	6.17	2.2	410	< 1	< 2	4.7	1.52	8	60	3	0.4	2.29	7	< 1
315489	< 2	0.5	18	< 0.3	< 1	13	20	26	0.01	6.69	2.2	400	< 1	< 2	7.4	1.47	8	47	< 1	0.7	1.96	7	< 1
315490	< 2	0.3	8	< 0.3	< 1	12	20	24	0.02	6.59	2.2	350	1	< 2	6.9	1.67	9	43	< 1	0.7	2.10	6	< 1
315491	4	1.5	8	< 0.3	< 1	11	17	22	< 0.01	6.14	0.7	400	1	< 2	0.8	1.66	8	36	< 1	0.5	1.52	7	< 1
315492	< 2	0.3	6	< 0.3	< 1	15	11	18	0.01	6.08	1.7	360	< 1	< 2	6.1	1.31	6	40	< 1	0.5	1.88	7	< 1
315493	6	0.3	44	< 0.3	< 1	9	53	37	0.06	6.52	2.3	380	1	< 2	20.3	2.02	11	99	8	1.0	2.08	5	< 1
315494	< 2	0.3	6	< 0.3	< 1	15	15	23	0.01	5.87	2.2	420	< 1	< 2	4.9	1.52	4	41	3	0.7	1.66	7	< 1
315495	< 2	0.4	7	< 0.3	< 1	15	13	23	< 0.01	5.63	4.3	530	< 1	< 2	1.2	1.31	6	42	2	0.5	2.03	10	< 1
315496	10	0.4	12	< 0.3	< 1	13	20	20	< 0.01	6.15	3.3	550	< 1	< 2	1.6	1.58	8	48	3	0.5	1.77	9	< 1
315497	< 2	0.4	27	< 0.3	< 1	17	24	30	0.02	6.57	3.9	560	1	< 2	21.7	1.26	11	50	3	0.8	2.35	9	< 1
315498	6	0.3	29	< 0.3	< 1	12	21	27	0.02	6.69	4.7	490	1	< 2	22.4	1.22	9	50	4	0.6	2.30	8	< 1
315499	< 2	0.5	19	< 0.3	< 1	12	17	22	0.02	6.29	3.8	510	1	< 2	17.3	1.33	7	48	3	0.8	1.95	10	< 1
315500	339	< 0.3	24	< 0.3	< 1	8	106	93	< 0.01	5.62	7.6	380	2	< 2	< 0.5	1.99	33	132	4	1.7	5.00	7	< 1
315501	< 2	< 0.3	16	< 0.3	< 1	14	23	61	< 0.01	6.26	2.8	510	1	< 2	1.3	1.55	10	44	7	0.8	1.80	10	< 1
315502	< 2	0.5	10	< 0.3	< 1	13	26	28	< 0.01	6.29	3.2	470	1	< 2	1.3	1.65	9	47	5	0.6	1.87	10	< 1
315503	7	0.5	35	< 0.3	< 1	8	33	49	0.09	5.97	4.2	300	< 1	< 2	11.9	2.01	12	54	7	0.9	1.88	8	< 1
315504	3	< 0.3	283	1.2	2	6	59	48	0.31	4.60	3.4	< 50	1	< 2	24.4	2.77	18	45	8	4.1	1.41	5	2
315505	6	0.3	12	< 0.3	< 1	11	28	30	< 0.01	6.41	1.6	460	< 1	< 2	< 0.5	1.95	14	90	1	0.6	2.39	9	< 1
315506	5	0.5	27	< 0.3	< 1	17	38	33	0.01	6.36	2.9	430	< 1	< 2	6.8	1.82	14	63	4	0.6	2.65	8	< 1
315507	< 2	< 0.3	71	0.3	< 1	12	54	35	0.01	6.75	3.2	390	1	< 2	9.0	2.13	19	75	4	1.6	2.58	8	1
315508	< 2	0.3	16	< 0.3	< 1	15	27	35	< 0.01	5.77	1.3	590	< 1	< 2	< 0.5	2.03	12	57	5	0.5	2.49	8	< 1
315509	6	0.5	23	< 0.3	< 1	16	30	30	0.01	6.49	2.3	520	1	< 2	1.5	2.07	12	44	4	0.6	2.23	8	< 1
315510	< 2	0.4	19	< 0.3	< 1	13	25	34	< 0.01	6.40	2.4	470	1	< 2	< 0.5	2.17	12	56	6	0.6	2.63	7	< 1
315511	< 2	0.4	91	< 0.3	< 1	11	48	37	0.01	6.54	< 0.5	450	1	< 2	8.7	2.59	17	66	6	1.1	2.83	7	< 1
315512	4	0.6	25	< 0.3	< 1	15	23	38	0.01	6.58	0.9	490	1	< 2	4.9	1.89	11	42	7	0.7	2.10	8	< 1
315513	< 2	0.5	17	< 0.3	< 1	16	30	32	< 0.01	6.49	< 0.5	410	1	< 2	2.3	2.06	9	53	4	0.9	2.08	8	< 1
315514	< 2	0.3	20	< 0.3	< 1	13	29	32	< 0.01	6.52	< 0.5	550	1	< 2	5.3	1.84	12	62	4	0.6	2.40	8	< 1
315515	< 2	0.3	12	< 0.3	< 1	17	22	35	< 0.01	6.23	1.2	450	< 1	< 2	3.3	1.70	10	50	3	0.6	2.13	10	< 1
315516	< 2	< 0.3	11	< 0.3	< 1	11	19	27	< 0.01	6.12	3.7	410	1	< 2	4.2	1.60	9	42	3	0.7	1.87	10	< 1
315517	< 2	0.3	19	< 0.3	< 1	12	19	23	< 0.01	6.07	2.3	450	< 1	< 2	4.2	1.51	8	40	3	0.5	1.70	10	< 1
315518	< 2	0.4	23	< 0.3	< 1	15	38	39	0.01	6.79	4.9	580	1	< 2	6.9	1.48	12	67	6	0.6	2.94	7	< 1
315519	< 2	0.4	13	< 0.3	< 1	13	21	29	< 0.01	6.20	4.1	480	< 1	< 2	5.5	1.48	9	48	4	0.6	2.04	10	< 1
315520	< 2	< 0.3	12	< 0.3	< 1	10	25	41	< 0.01	5.67	< 0.5	410	< 1	< 2	3.3	2.38	15	73	4	0.8	2.79	10	< 1
315521	< 2	0.4	11	< 0.3	< 1	12	23	25	< 0.01	6.19	0.6	390	1	< 2	6.1	1.46	9	44	3	0.5	1.75	8	< 1
315522	< 2	< 0.3	23	< 0.3	< 1	12	26	29	0.02	6.05	0.5	400	1	< 2	9.0	1.57	8	42	6	0.6	1.62	9	< 1
315523	< 2	0.4	4	< 0.3	< 1	15	18	23	< 0.01	6.51	1.8	500	1	< 2	6.6	1.46	7	42	3	0.6	1.83	9	< 1
315524	< 2	0.4	5	< 0.3	< 1	15	17	23	< 0.01	6.64	3.2	590	1	< 2	5.9	1.42	9	42	3	0.6	2.06	9	< 1
315525	< 2	< 0.3	13	< 0.3	15	4	15	15	< 0.01	0.41	3.1	< 50	< 1	< 2	< 0.5	0.04	2	63	< 1	< 0.2	1.97	1	< 1
315526	< 2	0.4	11	< 0.3	< 1	12	24	33	0.01	6.51	2.9	400	< 1	< 2	6.6	1.88	12	52	4	0.6	2.90	7	< 1
315527	< 2	0.3	4	< 0.3	< 1	13	14	26	< 0.01	5.99	2.6	480	1	< 2	4.3	1.39	7	38	2	0.6	1.96	9	< 1
315528	< 2	0.5	5	< 0.3	< 1	12	19	26	0.01	6.46	2.4	480	1	< 2	3.6	1.57	8	42	2	0.3	2.02	7	< 1
315529	< 2	< 0.3	8	< 0.3	< 1	13	25	35	< 0.01	6.43	2.4	440	1	< 2	4.9	1.58	10	44	3	0.6	2.31	7	< 1
315530	< 2	0.4	5	< 0.3	< 1	16	24	25	0.01	6.61	3.3	490	1	< 2	5.4	1.53	10	39	1	0.5	2.03	8	< 1
315531	< 2	0.4	8	< 0.3	< 1	14	24	28	0.01	6.52	3.3	510	1	< 2	5.6	1.43	10	45	3	0.6	2.43	9	< 1
315532	< 2	0.4	14	< 0.3	< 1	14	48	47	0.01	6.74	4.1	470	1	< 2	4.9	2.07	17	67	2	0.6	2.62	6	< 1
315533	< 2	< 0.3	182	0.6	1	4	46	48	0.30	1.31	5.0	< 50	< 1	< 2	40.4	5.07	4	13	2	0.9	0.76	< 1	< 1
315534	< 2	0.4	12	< 0.3	< 1	14	21	30	0.01	6.20	3.7	460	< 1	< 2	5.7	1.56	8	43	4	0.5	2.76	9	< 1
315535	< 2	< 0.3	14	< 0.3	< 1	16	21	47	0.01	6.34	4.3	440	< 1	< 2	4.9	1.44	8	39	2	0.6	2.49	8	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315536	< 2	< 0.3	8	< 0.3	< 1	13	22	30	0.01	6.41	3.8	460	1	< 2	5.7	1.36	9	41	1	0.6	2.01	8	< 1
315537	< 2	0.3	18	0.3	< 1	16	19	37	0.01	5.95	4.2	400	< 1	< 2	7.7	1.50	6	46	3	0.5	2.62	9	< 1
315538	< 2	0.4	10	< 0.3	< 1	14	13	22	< 0.01	5.86	2.6	470	< 1	< 2	2.2	1.30	7	39	3	0.5	1.49	11	< 1
315539	< 2	0.4	33	< 0.3	< 1	14	20	22	0.02	5.93	2.8	500	1	< 2	5.7	2.10	9	44	4	0.8	1.86	9	< 1
315540	3	< 0.3	88	< 0.3	< 1	13	46	27	0.02	6.10	3.3	500	1	< 2	5.2	1.81	12	46	6	1.1	2.34	9	< 1
315541	< 2	0.3	12	< 0.3	< 1	14	31	25	0.02	6.54	3.6	420	1	< 2	8.1	1.25	12	48	2	0.5	2.50	8	< 1
315542	< 2	0.3	10	< 0.3	< 1	14	23	27	< 0.01	6.36	2.3	520	< 1	< 2	< 0.5	1.76	13	42	4	0.7	2.26	9	< 1
315543	< 2	0.4	7	< 0.3	< 1	14	27	27	< 0.01	6.61	3.2	520	1	< 2	6.0	1.51	10	49	3	0.6	2.34	9	< 1
315544	< 2	0.4	6	< 0.3	< 1	14	25	23	0.02	7.03	3.3	430	1	< 2	8.1	1.27	9	53	< 1	0.5	2.26	6	< 1
315545	< 2	0.4	10	< 0.3	< 1	13	22	26	0.01	6.73	2.7	380	1	< 2	7.0	1.36	10	51	1	0.4	2.16	7	< 1
315546	< 2	< 0.3	17	< 0.3	< 1	13	18	24	< 0.01	6.19	2.9	470	1	< 2	< 0.5	1.43	7	46	< 1	0.6	1.63	7	< 1
315547	3	0.3	24	< 0.3	< 1	13	26	36	0.02	6.66	4.2	430	< 1	< 2	13.0	1.63	11	72	3	0.6	2.99	7	< 1
315548	< 2	< 0.3	17	< 0.3	< 1	13	27	31	0.01	6.59	3.0	320	1	< 2	5.6	1.67	10	54	1	0.5	2.56	8	< 1
315549	5	0.4	16	< 0.3	< 1	14	27	31	0.01	6.46	1.9	400	1	< 2	5.5	1.65	11	48	1	0.6	2.45	7	< 1
315550	294	0.4	24	< 0.3	< 1	10	107	95	< 0.01	5.65	2.9	250	2	< 2	< 0.5	2.00	30	114	3	1.6	4.28	5	< 1
315551	4	0.4	22	< 0.3	< 1	10	26	46	0.02	6.21	0.9	420	< 1	< 2	5.9	2.27	11	53	4	0.6	2.01	5	< 1
315552	< 2	0.4	33	< 0.3	< 1	10	31	47	0.01	6.18	< 0.5	390	< 1	< 2	1.2	3.00	14	55	4	0.6	2.45	6	< 1
315553	< 2	< 0.3	88	0.3	< 1	< 3	19	12	0.36	0.75	1.5	< 50	< 1	< 2	21.6	4.79	2	13	1	< 0.2	0.52	< 1	< 1
315554	< 2	< 0.3	65	< 0.3	< 1	< 3	16	9	0.31	0.78	2.3	< 50	< 1	< 2	13.9	3.98	3	12	1	0.3	0.60	< 1	< 1
315555	< 2	0.4	23	0.4	< 1	10	14	27	0.19	1.09	4.9	140	< 1	< 2	18.9	4.78	6	4	1	< 0.2	0.89	< 1	< 1
315556	< 2	< 0.3	213	< 0.3	< 1	6	68	24	0.15	3.58	1.3	230	< 1	< 2	24.5	3.49	30	115	5	0.6	2.80	2	< 1
315557	5	< 0.3	62	< 0.3	2	< 3	15	12	0.41	0.64	2.6	< 50	< 1	< 2	23.8	3.90	4	9	2	< 0.2	0.42	< 1	< 1
315558	< 2	< 0.3	91	0.5	1	< 3	20	42	0.42	0.70	4.6	< 50	< 1	< 2	26.4	3.64	7	14	4	0.2	0.81	< 1	< 1
315559	< 2	< 0.3	85	0.4	< 1	7	46	37	0.34	2.79	0.9	160	< 1	< 2	27.6	3.52	14	58	1	0.7	2.26	2	< 1
315560	< 2	0.3	18	< 0.3	< 1	12	23	27	< 0.01	6.28	0.9	450	1	< 2	1.0	1.82	9	49	< 1	0.7	2.09	8	< 1
315561	< 2	0.5	15	< 0.3	< 1	13	14	22	0.06	6.92	3.0	460	1	< 2	10.9	1.29	7	47	2	0.6	2.32	9	< 1
315562	< 2	0.4	14	< 0.3	< 1	15	37	25	< 0.01	6.49	3.6	400	< 1	< 2	4.3	1.64	14	54	2	0.7	2.54	8	< 1
315563	< 2	0.3	18	< 0.3	< 1	14	26	31	0.01	6.02	< 0.5	430	< 1	< 2	2.1	1.82	9	62	3	0.6	2.16	8	< 1
315564	< 2	0.4	54	< 0.3	< 1	13	54	43	0.01	6.81	3.1	450	1	< 2	7.1	2.09	26	70	3	0.8	3.76	6	< 1
315565	< 2	0.5	21	< 0.3	2	13	44	39	0.02	6.79	4.1	380	1	< 2	6.3	1.73	19	65	3	0.9	3.10	7	< 1
315566	< 2	0.6	22	< 0.3	< 1	11	44	40	< 0.01	6.69	< 0.5	350	< 1	< 2	1.1	2.59	17	77	4	0.7	3.07	5	< 1
315567	< 2	0.4	7	< 0.3	< 1	14	22	29	0.01	6.25	4.0	510	< 1	< 2	5.8	1.64	9	52	5	0.6	2.50	8	< 1
315568	< 2	0.4	4	< 0.3	< 1	14	18	27	0.01	6.36	2.8	480	1	< 2	6.1	1.48	8	39	2	0.6	2.31	8	< 1
315569	3	0.4	6	< 0.3	< 1	15	18	48	0.02	6.20	3.3	520	1	< 2	5.9	1.39	6	46	3	0.6	2.70	8	< 1
315570	< 2	0.5	8	< 0.3	< 1	11	22	24	0.02	6.49	2.5	550	1	< 2	4.8	1.98	10	47	3	0.7	2.06	7	< 1
315571	< 2	0.4	6	< 0.3	< 1	12	21	26	< 0.01	6.12	1.5	450	< 1	< 2	1.1	1.77	9	45	2	0.6	1.75	7	< 1
315572	< 2	0.5	10	< 0.3	< 1	12	32	34	0.02	6.57	2.9	430	1	< 2	7.8	1.67	13	59	2	0.6	3.00	8	< 1
315573	3	0.4	5	< 0.3	< 1	15	16	32	0.01	6.17	2.2	450	1	< 2	3.8	1.36	6	39	3	0.6	2.23	8	< 1
315574	< 2	0.3	8	< 0.3	< 1	14	18	34	0.01	6.12	3.3	520	1	< 2	4.1	1.37	8	40	3	0.6	2.24	8	< 1
315575	85	0.6	787	< 0.3	1	13	417	41	0.03	7.58	30.5	< 50	< 1	< 2	< 0.5	0.13	127	809	< 1	0.3	26.4	8	< 1
315576	< 2	0.4	83	< 0.3	< 1	14	49	27	< 0.01	6.31	3.5	470	1	< 2	6.3	1.95	10	57	4	1.4	1.95	8	< 1
315577	< 2	0.5	21	< 0.3	< 1	16	36	46	0.02	6.90	5.8	340	1	< 2	6.8	1.90	16	67	3	0.7	2.91	6	< 1
315578	< 2	0.5	24	< 0.3	< 1	12	19	24	0.01	6.74	2.5	430	1	< 2	4.6	1.64	9	37	1	0.7	1.65	8	< 1
315579	< 2	0.5	8	< 0.3	< 1	15	26	33	0.02	6.42	3.3	420	1	< 2	5.6	1.60	9	49	3	0.6	2.36	8	< 1
315580	< 2	0.5	6	< 0.3	< 1	12	22	28	0.01	6.20	1.8	540	1	< 2	4.5	1.58	8	42	2	0.6	2.21	8	< 1
315581	< 2	0.5	5	< 0.3	< 1	14	20	30	0.01	6.46	4.2	440	1	< 2	4.0	1.46	9	39	3	0.6	2.18	8	< 1
315582	< 2	0.5	39	< 0.3	< 1	12	51	45	0.01	6.69	0.8	390	< 1	< 2	3.2	2.09	13	67	4	0.8	2.14	6	< 1
315583	< 2	0.3	94	< 0.3	< 1	11	195	148	< 0.01	6.57	< 0.5	400	1	< 2	1.4	1.86	16	57	5	0.8	1.98	6	< 1
315584	< 2	0.4	6	0.3	< 1	14	28	31	0.01	6.82	3.7	480	1	< 2	5.0	1.38	12	45	2	0.6	2.00	8	< 1
315585	< 2	0.4	12	< 0.3	< 1	14	30	29	0.02	6.72	2.4	450	1	< 2	7.9	1.65	12	48	3	0.6	2.57	7	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315586	< 2	0.5	8	< 0.3	< 1	14	23	28	< 0.01	6.29	2.8	390	1	< 2	4.8	1.77	8	48	2	0.6	2.12	8	< 1
315587	< 2	0.4	8	< 0.3	< 1	12	20	23	0.01	6.54	1.9	410	1	< 2	6.0	1.43	7	39	2	0.6	1.78	7	< 1
315588	< 2	< 0.3	6	< 0.3	< 1	12	20	25	0.02	6.41	1.5	430	1	< 2	5.5	1.62	8	47	3	0.6	1.97	7	< 1
315589	< 2	0.3	10	< 0.3	< 1	12	26	31	0.02	6.75	1.6	390	1	< 2	6.3	1.40	11	45	3	0.6	2.17	8	< 1
315590	< 2	0.4	7	< 0.3	< 1	13	16	25	< 0.01	6.09	1.4	360	< 1	< 2	3.2	1.43	6	38	7	0.5	1.78	7	< 1
315591	< 2	0.3	26	< 0.3	< 1	11	31	37	0.01	6.02	0.9	540	< 1	< 2	4.3	3.00	14	51	3	0.8	2.32	7	< 1
315592	3	0.4	9	< 0.3	< 1	13	28	37	0.01	6.72	2.9	470	1	< 2	4.6	1.49	14	52	1	0.7	2.63	8	< 1
315593	< 2	0.3	12	< 0.3	< 1	12	28	28	0.01	6.43	2.8	460	1	< 2	4.9	1.55	11	42	3	0.6	2.07	7	< 1
315594	< 2	0.3	15	< 0.3	< 1	11	24	31	0.01	6.15	2.7	340	1	< 2	4.2	1.61	11	50	4	0.6	2.94	8	< 1
315595	4	0.5	11	< 0.3	< 1	14	23	23	< 0.01	6.39	2.3	520	< 1	< 2	0.9	1.73	9	44	2	0.6	1.95	8	< 1
315596	10	0.4	22	< 0.3	< 1	12	40	41	< 0.01	6.50	< 0.5	440	< 1	< 2	< 0.5	1.98	15	65	2	0.7	2.55	8	< 1
315597	4	0.3	25	< 0.3	< 1	11	48	42	0.01	5.94	1.8	340	< 1	< 2	1.4	2.38	14	88	4	0.6	2.93	7	< 1
315598	< 2	0.6	23	< 0.3	< 1	16	70	28	< 0.01	5.59	4.1	470	< 1	< 2	2.9	1.29	9	132	4	0.4	2.12	9	< 1
315599	< 2	< 0.3	27	< 0.3	< 1	14	69	29	< 0.01	5.64	2.3	580	< 1	< 2	< 0.5	1.28	9	133	6	0.7	2.46	9	< 1
315600	< 2	< 0.3	4	< 0.3	< 1	< 3	3	10	< 0.01	0.47	1.2	< 50	< 1	< 2	< 0.5	0.18	< 1	8	< 1	< 0.2	1.05	1	< 1
315601	< 2	0.4	19	< 0.3	< 1	15	30	40	0.02	5.72	4.1	430	< 1	< 2	5.3	1.24	9	90	6	0.6	3.30	9	< 1
315602	30	< 0.3	16	0.5	< 1	9	45	136	0.01	5.96	1.6	< 50	< 1	< 2	0.9	4.37	31	230	3	0.6	6.90	4	< 1
315603	< 2	< 0.3	11	< 0.3	< 1	13	33	27	< 0.01	6.28	2.6	410	1	< 2	5.4	1.44	8	49	4	0.5	2.12	7	< 1
315604	< 2	< 0.3	111	< 0.3	< 1	12	28	23	< 0.01	6.47	0.7	410	1	< 2	2.8	1.68	8	44	3	0.9	1.62	8	< 1
315605	< 2	0.3	9	< 0.3	< 1	13	17	24	0.01	6.24	0.9	450	< 1	< 2	3.6	1.37	6	181	3	0.6	1.71	8	< 1
315606	< 2	0.4	6	< 0.3	< 1	14	17	26	< 0.01	6.12	< 0.5	570	1	< 2	2.8	1.44	8	42	5	0.6	1.96	8	< 1
315607	4	0.4	11	< 0.3	< 1	12	26	24	0.02	6.66	4.1	340	1	< 2	5.4	1.44	14	47	3	0.7	2.35	8	< 1
315608	< 2	0.6	64	< 0.3	< 1	12	21	22	< 0.01	6.01	< 0.5	480	1	< 2	< 0.5	1.64	8	40	3	0.7	1.42	7	< 1
315609	< 2	< 0.3	19	< 0.3	< 1	11	18	22	0.02	6.11	2.7	380	1	< 2	4.0	1.70	5	32	2	0.7	1.38	7	< 1
315610	< 2	0.4	18	< 0.3	< 1	13	30	32	0.02	6.47	3.0	510	< 1	< 2	9.1	1.66	13	53	4	0.7	2.67	8	< 1
315611	< 2	< 0.3	25	< 0.3	< 1	12	21	23	0.01	6.58	3.1	420	1	< 2	7.5	1.45	8	46	3	0.6	2.11	8	< 1
315612	< 2	0.4	14	< 0.3	< 1	12	26	26	< 0.01	6.43	2.5	500	1	< 2	3.9	1.59	11	45	4	0.6	2.39	8	< 1
315613	< 2	0.3	15	< 0.3	< 1	13	38	29	< 0.01	6.47	1.9	420	1	< 2	2.5	1.63	14	58	5	0.8	2.21	9	< 1
315614	< 2	0.5	8	< 0.3	< 1	13	21	23	0.01	6.41	2.5	460	1	< 2	5.6	1.52	10	49	4	0.8	2.36	9	< 1
315615	< 2	< 0.3	15	< 0.3	< 1	14	18	34	0.01	5.85	1.9	440	< 1	< 2	4.1	1.70	10	54	4	0.6	3.27	8	< 1
315616	< 2	0.6	17	< 0.3	< 1	11	16	24	< 0.01	6.20	1.7	630	1	< 2	0.5	1.66	7	35	3	0.9	1.52	9	< 1
315617	< 2	< 0.3	17	< 0.3	< 1	12	22	41	< 0.01	6.35	0.9	360	1	2	2.7	1.71	8	49	6	0.6	2.06	10	< 1
315618	< 2	< 0.3	5	< 0.3	< 1	15	20	37	0.01	6.43	3.0	500	1	< 2	4.9	1.53	11	41	5	0.6	2.25	8	< 1
315619	< 2	0.5	6	< 0.3	< 1	17	21	33	0.02	6.68	3.4	470	1	< 2	8.1	1.35	9	45	4	0.7	2.75	9	< 1
315620	4	0.3	9	< 0.3	< 1	15	20	34	0.01	6.40	3.2	460	1	< 2	6.9	1.53	11	51	4	0.8	2.74	8	< 1
315621	< 2	0.5	26	< 0.3	< 1	12	35	44	< 0.01	6.14	2.5	450	< 1	< 2	3.2	1.72	12	61	4	0.7	2.71	10	< 1
315622	4	< 0.3	15	< 0.3	< 1	12	23	29	< 0.01	6.13	2.5	460	< 1	< 2	1.8	1.55	8	47	4	0.6	1.71	10	< 1
315623	< 2	0.5	65	< 0.3	< 1	11	41	38	0.03	7.22	3.5	340	< 1	< 2	14.8	1.72	17	67	3	0.6	3.51	6	< 1
315624	6	0.3	52	< 0.3	< 1	10	35	39	0.03	7.48	4.5	340	< 1	< 2	15.4	1.89	16	83	3	0.6	4.42	6	< 1
315625	320	< 0.3	25	< 0.3	< 1	8	108	97	< 0.01	5.88	5.8	350	3	< 2	< 0.5	2.01	31	124	5	1.9	4.71	5	< 1
315626	< 2	0.4	31	< 0.3	< 1	11	28	33	0.01	6.66	< 0.5	380	1	< 2	5.9	1.64	11	45	3	0.6	2.51	8	< 1
315627	< 2	0.4	24	< 0.3	< 1	9	29	27	0.02	6.80	1.5	430	1	< 2	8.3	1.73	13	45	1	0.6	2.03	6	< 1
315628	< 2	< 0.3	18	< 0.3	1	10	31	39	0.02	6.84	3.6	430	1	< 2	15.1	1.35	9	50	3	0.7	2.45	8	< 1
315629	< 2	0.4	5	< 0.3	< 1	11	17	20	< 0.01	6.52	2.2	390	1	< 2	3.6	1.49	6	36	1	0.6	1.43	7	< 1
315630	3	0.4	3	< 0.3	< 1	10	18	22	< 0.01	6.40	1.5	440	1	< 2	< 0.5	1.76	7	37	< 1	0.6	1.59	6	< 1
315631	< 2	0.4	10	< 0.3	< 1	10	20	24	< 0.01	6.29	2.7	440	1	< 2	0.9	1.66	9	45	2	0.9	1.75	8	< 1
315632	< 2	0.4	23	< 0.3	< 1	9	27	30	0.04	7.34	2.2	410	1	< 2	13.6	1.75	12	70	3	0.7	3.05	6	< 1
315633	< 2	< 0.3	39	< 0.3	1	9	32	39	0.08	5.96	4.0	560	1	< 2	9.1	1.74	10	49	5	1.7	1.44	6	< 1
315634	3	< 0.3	184	< 0.3	< 1	11	39	31	0.01	6.58	1.9	510	1	< 2	6.3	1.96	13	58	5	1.3	2.12	9	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315635	< 2	< 0.3	8	< 0.3	1	12	19	22	0.01	6.70	2.2	490	1	< 2	4.8	1.48	11	47	2	0.7	2.19	8	< 1
315636	< 2	< 0.3	9	< 0.3	< 1	12	24	28	0.01	6.67	1.8	430	1	< 2	4.9	1.65	11	48	2	0.6	2.53	7	< 1
315637	< 2	0.5	6	< 0.3	< 1	11	26	26	0.02	6.83	2.8	380	1	< 2	7.9	1.46	11	47	2	0.7	2.64	7	< 1
315638	< 2	< 0.3	6	< 0.3	< 1	12	18	23	< 0.01	6.12	1.4	520	1	< 2	0.7	1.60	9	44	1	0.8	1.93	9	< 1
315639	3	< 0.3	9	< 0.3	< 1	14	15	30	< 0.01	5.56	3.2	430	< 1	< 2	2.9	1.33	8	54	3	0.6	2.13	10	< 1
315640	< 2	< 0.3	17	< 0.3	< 1	11	44	63	0.02	8.24	2.1	420	1	< 2	4.1	4.34	27	87	2	0.8	4.90	4	< 1
315641	< 2	< 0.3	59	0.4	< 1	< 3	12	4	0.44	1.46	2.0	< 50	< 1	< 2	12.4	3.66	3	17	< 1	0.9	0.58	< 1	< 1
315642	< 2	0.5	34	< 0.3	< 1	10	24	23	< 0.01	6.41	1.7	630	1	< 2	< 0.5	1.86	8	46	4	1.0	1.83	9	< 1
315643	< 2	< 0.3	11	< 0.3	< 1	13	17	27	0.02	6.72	4.3	410	1	< 2	11.6	1.24	7	54	3	0.7	2.83	9	< 1
315644	5	0.4	38	< 0.3	< 1	9	42	28	0.03	7.39	2.1	400	2	< 2	10.3	1.86	17	70	1	1.4	2.46	7	< 1
315645	< 2	0.4	13	< 0.3	< 1	10	18	23	< 0.01	6.41	3.3	460	1	< 2	< 0.5	1.71	11	51	2	0.9	2.17	7	< 1
315646	< 2	< 0.3	87	< 0.3	< 1	14	20	42	0.14	4.93	5.7	330	1	< 2	15.2	2.70	27	69	4	1.4	3.13	4	< 1
315647	< 2	0.5	19	< 0.3	< 1	10	25	31	0.01	6.88	0.8	390	1	< 2	8.0	1.46	10	65	1	0.6	2.32	7	< 1
315648	< 2	0.5	19	< 0.3	< 1	12	21	34	0.02	6.26	3.3	370	< 1	< 2	11.1	1.71	10	99	2	0.6	3.88	7	< 1
315649	< 2	0.4	20	< 0.3	< 1	11	22	34	0.02	6.25	3.7	340	< 1	< 2	10.8	1.75	10	98	< 1	0.6	3.91	7	< 1
315650	56	0.5	788	0.9	< 1	15	427	42	0.03	7.97	18.4	150	1	< 2	8.3	0.15	95	718	1	0.4	19.6	4	< 1
315651	< 2	< 0.3	18	< 0.3	< 1	10	28	32	0.01	6.59	2.2	310	1	< 2	6.1	2.26	14	84	1	0.6	3.15	5	< 1
315652	< 2	< 0.3	26	< 0.3	< 1	10	25	29	0.02	6.19	3.3	370	< 1	< 2	9.4	1.77	11	86	3	0.7	3.11	7	< 1
315653	< 2	0.3	39	< 0.3	< 1	12	72	30	0.01	6.44	1.8	390	1	< 2	0.9	2.22	17	158	3	0.8	2.54	6	< 1
315654	< 2	< 0.3	23	< 0.3	< 1	11	38	23	< 0.01	6.19	2.1	450	1	< 2	2.3	1.55	9	49	3	0.7	1.60	7	< 1
315655	< 2	0.4	16	< 0.3	< 1	12	37	29	< 0.01	6.25	3.5	490	1	< 2	3.5	1.79	11	54	5	0.6	2.46	9	< 1
315656	< 2	< 0.3	10	< 0.3	< 1	11	26	32	< 0.01	5.90	2.2	390	1	< 2	< 0.5	1.97	12	62	5	0.6	2.94	8	< 1
315657	< 2	< 0.3	32	< 0.3	< 1	10	41	43	0.02	6.69	2.9	530	1	< 2	4.6	2.58	20	64	4	0.6	3.77	6	< 1
315658	8	< 0.3	8	< 0.3	< 1	9	19	41	< 0.01	6.32	< 0.5	370	1	< 2	< 0.5	2.00	10	40	5	0.3	2.02	7	< 1
315659	< 2	0.3	25	< 0.3	< 1	10	28	32	< 0.01	6.42	1.0	490	1	< 2	< 0.5	2.17	11	49	4	0.5	2.25	6	< 1
315660	< 2	0.4	25	< 0.3	< 1	12	50	44	< 0.01	6.17	1.4	370	2	< 2	5.6	2.61	20	125	3	1.1	3.83	8	3
315661	< 2	< 0.3	16	< 0.3	< 1	11	21	26	< 0.01	6.38	2.0	450	1	< 2	5.2	1.67	9	41	4	0.6	1.95	8	< 1
315662	< 2	< 0.3	6	< 0.3	< 1	15	20	23	0.01	6.56	2.6	390	1	< 2	5.9	1.42	8	39	2	0.6	1.95	8	< 1
315663	< 2	0.4	6	< 0.3	1	11	16	29	< 0.01	6.14	2.5	430	1	< 2	1.3	1.49	8	40	4	0.6	1.60	8	< 1
315664	< 2	0.4	14	< 0.3	< 1	12	21	32	0.02	6.48	2.3	480	1	< 2	6.4	1.37	10	40	4	0.6	2.18	9	< 1
315665	< 2	0.5	25	< 0.3	< 1	13	26	65	0.02	6.53	2.8	420	1	< 2	8.9	1.29	10	41	3	0.5	1.93	9	< 1
315666	< 2	0.4	34	< 0.3	< 1	13	22	96	0.02	6.27	4.0	430	1	< 2	14.4	1.37	8	53	5	0.7	2.48	10	< 1
315667	< 2	0.5	30	< 0.3	2	10	25	54	0.02	6.81	3.6	400	3	< 2	20.2	1.18	9	51	5	0.9	2.78	8	< 1
315668	3	< 0.3	15	< 0.3	< 1	11	37	67	0.01	6.95	3.5	330	2	< 2	< 0.5	4.06	24	97	2	0.3	4.94	7	< 1
315669	9	< 0.3	23	< 0.3	< 1	12	58	41	0.01	6.34	2.5	410	1	< 2	9.1	1.40	11	55	6	0.5	2.53	9	< 1
315670	< 2	< 0.3	21	< 0.3	< 1	12	33	28	0.02	6.54	2.8	510	1	< 2	12.6	1.45	11	51	3	0.6	2.20	9	< 1
315671	< 2	0.5	11	< 0.3	< 1	12	21	27	< 0.01	5.83	1.9	470	1	< 2	1.3	1.54	9	47	3	0.5	1.77	10	< 1
315672	< 2	0.3	9	< 0.3	< 1	12	21	27	< 0.01	5.75	2.6	440	1	< 2	1.0	1.43	7	36	3	0.5	1.80	9	< 1
315673	< 2	0.4	16	< 0.3	< 1	11	26	28	< 0.01	6.26	3.2	530	1	< 2	1.5	1.67	11	42	2	0.6	1.80	8	< 1
315674	< 2	0.3	18	< 0.3	< 1	10	27	29	< 0.01	6.35	2.7	510	1	< 2	3.2	1.67	10	45	2	0.7	1.86	8	< 1
315675	< 2	< 0.3	5	< 0.3	< 1	< 3	3	7	< 0.01	0.36	3.2	< 50	< 1	< 2	< 0.5	0.15	< 1	10	< 1	< 0.2	1.09	2	< 1
315676	4	0.5	14	< 0.3	< 1	12	51	24	0.02	6.12	3.1	480	1	< 2	4.1	1.70	10	55	1	0.5	1.78	7	< 1
315677	5	< 0.3	27	< 0.3	< 1	11	41	34	0.04	6.23	3.2	390	1	< 2	6.6	1.62	11	47	2	1.3	1.58	7	< 1
315678	11	< 0.3	4	< 0.3	< 1	11	12	21	< 0.01	5.76	1.7	440	1	< 2	2.9	1.55	6	35	1	0.5	1.43	10	< 1
315679	< 2	0.4	8	< 0.3	< 1	13	19	26	0.01	6.28	4.6	430	1	< 2	5.3	1.37	10	42	3	0.6	1.89	9	< 1
315680	3	0.4	8	< 0.3	1	14	18	24	0.01	6.30	3.4	390	1	< 2	4.1	1.33	10	40	3	0.6	2.07	10	< 1
315681	6	< 0.3	11	< 0.3	< 1	12	17	28	0.02	5.64	4.3	440	< 1	< 2	4.6	1.56	9	46	2	0.6	2.83	9	< 1
315682	< 2	< 0.3	12	< 0.3	< 1	11	22	26	< 0.01	6.25	2.6	380	1	< 2	2.2	1.76	10	43	2	0.6	1.83	7	< 1
315683	4	< 0.3	8	< 0.3	< 1	12	21	28	< 0.01	6.45	3.8	380	1	< 2	5.9	1.63	10	39	2	0.6	2.20	7	< 1
315684	7	< 0.3	11	< 0.3	< 1	13	24	30	0.02	6.58	4.1	440	1	< 2	7.2	1.80	13	48	2	0.5	2.87	6	< 1

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315685	3	< 0.3	22	0.3	< 1	11	21	24	0.02	6.79	4.0	450	1	< 2	8.4	1.76	10	46	1	0.5	2.78	7	< 1
315686	< 2	0.4	8	< 0.3	< 1	13	16	23	< 0.01	6.31	2.8	530	1	< 2	3.0	1.47	6	41	< 1	0.6	1.61	9	< 1
315687	< 2	0.4	5	< 0.3	< 1	11	19	25	< 0.01	6.20	3.3	480	1	< 2	3.2	1.45	9	46	2	0.6	1.97	10	< 1
315688	11	0.6	6	< 0.3	1	13	20	26	0.01	6.25	4.8	510	1	< 2	3.2	1.35	9	44	1	0.6	2.30	10	< 1
315689	5	< 0.3	11	< 0.3	< 1	14	22	30	< 0.01	6.44	3.6	470	1	< 2	< 0.5	1.60	11	52	2	0.6	2.31	10	< 1
315690	4	0.4	4	< 0.3	< 1	12	14	25	0.02	6.02	4.4	540	1	< 2	1.4	1.45	6	38	< 1	0.5	1.70	10	< 1
315691	< 2	0.6	5	< 0.3	< 1	12	18	24	0.02	6.85	6.8	480	1	< 2	9.7	1.60	10	51	1	0.6	2.90	7	< 1
315692	< 2	< 0.3	63	< 0.3	< 1	6	55	52	0.01	7.47	3.3	210	< 1	< 2	< 0.5	3.73	33	115	< 1	0.8	5.42	5	< 1
315693	< 2	< 0.3	12	< 0.3	< 1	11	21	28	< 0.01	6.37	4.3	450	1	< 2	2.5	1.68	9	42	4	0.6	1.84	9	< 1
315694	< 2	< 0.3	27	< 0.3	< 1	11	35	36	< 0.01	6.67	4.0	480	1	< 2	1.2	2.21	15	56	4	0.7	2.62	9	< 1
315695	< 2	0.3	39	< 0.3	< 1	10	23	28	< 0.01	6.14	2.8	390	1	< 2	4.2	1.76	11	50	5	0.8	1.97	9	< 1
315696	< 2	< 0.3	10	< 0.3	< 1	9	24	42	< 0.01	6.06	3.1	580	1	< 2	0.9	2.02	13	56	6	0.6	2.25	9	< 1
315697	3	0.4	9	< 0.3	< 1	9	25	32	0.01	6.40	4.1	500	< 1	< 2	2.4	2.13	13	59	6	0.7	2.08	9	< 1
315698	< 2	0.3	8	< 0.3	< 1	12	20	27	< 0.01	6.17	2.2	590	1	< 2	< 0.5	1.55	8	49	3	0.6	1.74	9	< 1
315699	5	0.4	7	< 0.3	< 1	11	19	25	< 0.01	6.32	2.5	660	1	< 2	1.1	1.55	8	49	2	0.7	1.71	9	< 1
315700	332	< 0.3	24	< 0.3	< 1	8	106	98	< 0.01	5.57	8.5	580	3	< 2	< 0.5	1.99	32	141	4	1.9	4.91	6	< 1
315701	3	0.5	15	< 0.3	< 1	12	17	22	< 0.01	6.22	2.9	580	1	< 2	2.8	1.57	7	46	2	0.9	1.64	9	< 1
315702	< 2	0.4	18	< 0.3	2	12	17	24	< 0.01	5.97	3.5	540	1	< 2	3.2	1.35	7	41	3	0.7	1.77	8	< 1
315703	5	0.3	15	< 0.3	< 1	12	18	24	< 0.01	6.16	3.3	540	1	< 2	5.1	1.39	10	46	3	0.7	1.89	9	< 1
315704	9	< 0.3	29	< 0.3	< 1	11	23	31	0.01	6.11	3.5	500	1	< 2	6.3	1.36	8	49	4	0.6	2.43	9	< 1
315705	< 2	0.5	16	< 0.3	< 1	12	18	27	< 0.01	5.83	3.3	500	< 1	< 2	1.6	1.50	9	49	4	0.7	2.27	9	< 1
315706	< 2	0.3	46	< 0.3	< 1	10	36	61	0.02	6.80	4.9	620	1	< 2	8.7	2.07	17	49	5	0.9	3.99	9	< 1
315707	5	< 0.3	12	< 0.3	< 1	13	18	39	0.01	5.35	4.9	530	< 1	< 2	3.7	1.66	10	69	4	0.6	2.86	11	< 1
315708	< 2	0.3	15	< 0.3	1	13	21	26	0.01	6.63	3.7	380	1	< 2	9.8	1.24	9	44	3	0.8	2.14	7	< 1
315709	< 2	< 0.3	23	< 0.3	< 1	12	17	73	0.03	6.65	3.2	290	1	< 2	12.5	1.23	5	59	2	0.5	2.84	7	< 1
315710	< 2	< 0.3	7	< 0.3	< 1	12	18	25	< 0.01	6.41	1.3	420	1	< 2	< 0.5	1.42	8	39	< 1	0.6	1.40	7	< 1
315711	< 2	< 0.3	18	< 0.3	< 1	13	22	33	0.02	6.76	2.8	320	1	< 2	5.5	1.37	8	63	3	0.8	1.88	8	< 1
315712	< 2	< 0.3	24	< 0.3	< 1	14	35	66	0.03	5.43	9.3	260	< 1	2	16.8	2.28	15	110	2	0.3	4.98	5	< 1
315713	< 2	< 0.3	18	< 0.3	1	14	20	23	0.02	6.56	3.5	420	1	< 2	17.0	1.17	8	56	3	0.8	2.15	8	< 1
315714	3	< 0.3	14	< 0.3	< 1	13	27	35	0.03	6.65	7.3	340	1	< 2	16.2	1.16	8	61	3	0.4	2.34	8	< 1
315715	< 2	< 0.3	25	< 0.3	< 1	11	21	35	0.03	6.39	4.9	300	1	< 2	29.0	1.32	7	53	3	0.5	3.03	6	< 1
315716	7	< 0.3	19	< 0.3	1	11	19	29	0.02	6.16	5.3	390	1	< 2	12.6	1.27	7	53	< 1	0.4	2.43	8	< 1
315717	< 2	0.3	31	< 0.3	< 1	13	22	40	< 0.01	5.83	< 0.5	330	1	< 2	2.5	1.65	8	62	1	0.7	2.23	8	< 1
315718	< 2	< 0.3	11	< 0.3	< 1	11	17	29	< 0.01	5.62	5.3	340	< 1	< 2	4.0	1.67	8	61	< 1	0.9	2.23	9	< 1
315719	< 2	< 0.3	12	< 0.3	< 1	12	22	30	< 0.01	5.94	2.5	400	1	< 2	< 0.5	1.40	7	48	5	0.6	1.60	8	< 1
315720	4	< 0.3	92	< 0.3	3	10	56	29	0.10	7.10	2.8	270	2	< 2	39.2	1.60	19	92	4	1.8	3.64	4	< 1
315721	< 2	0.4	12	< 0.3	< 1	11	24	27	< 0.01	6.22	< 0.5	450	1	< 2	1.3	1.75	9	44	< 1	0.6	1.71	7	< 1
315722	< 2	< 0.3	19	0.3	< 1	4	66	57	0.06	5.30	< 0.5	< 50	1	< 2	< 0.5	4.99	31	257	2	0.6	5.75	3	< 1
315723	< 2	0.3	44	< 0.3	< 1	11	37	37	0.03	6.80	< 0.5	480	1	< 2	2.0	2.37	15	61	< 1	1.9	2.98	8	1
315724	< 2	< 0.3	42	< 0.3	< 1	12	32	35	0.03	6.62	< 0.5	360	1	< 2	4.5	2.09	12	46	1	1.5	2.64	8	< 1
315725	40	0.5	777	0.8	< 1	7	421	39	0.03	7.79	19.8	270	1	3	9.1	0.14	91	635	2	0.4	19.2	5	< 1
315726	9	< 0.3	22	0.6	1	15	8	18	0.55	0.61	5.7	< 50	< 1	< 2	29.7	2.16	< 1	< 2	< 1	0.3	0.39	< 1	< 1
315727	< 2	0.3	12	< 0.3	< 1	13	21	27	0.01	6.55	2.0	420	1	< 2	8.1	1.58	13	58	4	0.7	2.88	8	< 1
315728	< 2	< 0.3	13	< 0.3	< 1	13	15	25	0.02	5.60	3.9	360	< 1	< 2	13.3	1.32	7	66	3	0.4	3.35	7	< 1
315729	< 2	0.4	9	< 0.3	< 1	12	18	22	0.02	6.56	3.7	250	1	< 2	12.1	1.32	9	48	1	0.6	2.41	7	< 1
315730	< 2	0.6	5	< 0.3	1	12	22	22	0.03	6.89	3.4	440	1	< 2	11.8	1.12	7	49	3	0.5	2.72	7	< 1
315731	< 2	0.4	5	< 0.3	1	14	21	26	0.02	6.57	4.4	400	1	< 2	11.2	1.41	9	53	1	0.5	2.62	6	< 1
315732	4	< 0.3	14	< 0.3	< 1	12	18	24	0.03	6.42	3.5	310	1	< 2	12.6	1.31	7	44	3	0.6	2.17	6	< 1
315733	< 2	0.5	13	< 0.3	1	12	18	22	0.02	6.51	2.2	310	1	< 2	10.7	1.44	8	41	1	0.6	1.99	8	< 1

Results

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
315734	< 2	< 0.3	10	< 0.3	< 1	13	18	32	0.01	5.94	3.3	390	< 1	< 2	4.2	1.53	8	44	2	0.6	1.94	7	< 1
315735	< 2	< 0.3	9	< 0.3	< 1	10	12	20	< 0.01	5.57	2.2	320	< 1	< 2	< 0.5	1.36	5	38	< 1	0.5	1.35	7	< 1
315736	< 2	< 0.3	9	< 0.3	< 1	13	18	31	< 0.01	5.96	3.4	400	< 1	< 2	3.6	1.56	8	52	5	0.5	2.47	7	< 1
315737	< 2	0.4	4	< 0.3	1	12	18	21	< 0.01	6.42	1.2	370	1	< 2	< 0.5	1.53	7	38	1	0.5	1.58	7	< 1
315738	5	< 0.3	3	< 0.3	< 1	10	22	34	0.02	6.34	< 0.5	380	1	< 2	< 0.5	1.96	8	53	2	0.6	1.90	6	< 1
315739	< 2	0.4	8	< 0.3	< 1	13	14	24	0.01	6.14	3.9	340	1	< 2	10.8	1.32	6	44	2	0.6	1.86	8	< 1
315740	< 2	< 0.3	12	< 0.3	< 1	14	15	31	0.01	5.54	4.9	350	< 1	< 2	6.7	1.54	9	49	1	0.5	2.72	8	< 1
315741	< 2	0.3	19	< 0.3	< 1	11	22	27	0.01	6.83	2.0	320	1	< 2	8.3	1.50	12	60	1	0.7	2.34	7	< 1
315742	< 2	< 0.3	9	< 0.3	< 1	12	19	24	< 0.01	6.39	2.7	380	1	< 2	2.8	1.46	8	40	2	0.5	1.82	6	< 1
315743	< 2	< 0.3	13	< 0.3	< 1	12	22	24	0.01	6.52	1.9	320	1	< 2	6.4	1.50	8	43	2	0.5	2.25	5	< 1
315744	< 2	0.4	16	< 0.3	< 1	14	31	32	0.03	6.65	5.4	330	1	< 2	7.2	1.52	10	58	5	0.8	2.22	6	< 1
315745	< 2	< 0.3	9	< 0.3	< 1	13	17	22	0.02	5.96	3.0	380	1	< 2	7.0	1.19	7	44	2	0.6	1.94	8	< 1
315746	< 2	< 0.3	5	< 0.3	< 1	12	20	25	0.01	6.48	2.5	400	1	< 2	6.5	1.54	8	43	3	0.5	2.02	5	< 1
315747	< 2	0.3	15	< 0.3	< 1	10	20	27	< 0.01	6.21	1.3	370	1	< 2	1.3	1.52	7	38	5	0.6	1.54	7	< 1
315748	< 2	0.5	9	< 0.3	< 1	11	19	22	0.01	6.15	2.5	390	1	< 2	5.3	1.42	8	39	3	0.6	1.80	7	< 1
315749	< 2	< 0.3	9	< 0.3	1	11	19	22	< 0.01	6.39	2.5	370	1	< 2	5.7	1.45	7	41	4	0.6	1.72	8	< 1
315750	< 2	< 0.3	5	< 0.3	< 1	3	3	7	< 0.01	0.36	2.8	< 50	< 1	< 2	< 0.5	0.04	< 1	11	< 1	< 0.2	0.96	1	< 1
315751	< 2	< 0.3	11	< 0.3	< 1	12	17	23	< 0.01	6.41	1.6	400	1	< 2	8.1	1.45	6	44	2	0.6	1.76	7	< 1
315752	< 2	< 0.3	26	< 0.3	< 1	10	25	34	0.01	6.46	1.3	380	1	< 2	7.8	1.95	11	60	3	0.6	2.34	7	< 1
315753	< 2	< 0.3	8	< 0.3	< 1	13	15	35	< 0.01	5.17	1.9	450	< 1	< 2	1.5	1.75	8	59	2	0.6	2.21	9	< 1
315754	< 2	0.4	22	< 0.3	2	11	18	22	0.03	7.18	3.6	410	1	< 2	19.1	1.26	8	49	2	0.6	2.67	5	< 1
315755	< 2	< 0.3	27	< 0.3	< 1	13	24	29	0.02	6.68	2.8	420	1	< 2	15.3	1.65	11	59	1	0.6	2.62	6	< 1
315756	< 2	0.5	13	< 0.3	2	12	16	30	0.02	6.33	2.6	350	1	< 2	8.1	1.29	7	62	3	0.6	3.01	8	< 1
315757	< 2	0.4	6	< 0.3	< 1	9	24	25	< 0.01	6.24	< 0.5	440	1	< 2	< 0.5	1.86	8	58	1	0.6	1.79	6	< 1
315758	< 2	0.3	20	< 0.3	< 1	12	40	32	0.02	6.29	1.9	440	1	< 2	< 0.5	1.52	10	51	3	0.6	1.85	7	< 1
315759	3	< 0.3	16	< 0.3	1	12	22	23	0.02	6.26	0.7	410	1	< 2	15.7	1.31	7	54	3	0.6	2.00	8	< 1
315760	< 2	0.4	25	< 0.3	< 1	12	20	39	0.01	6.30	2.8	410	1	< 2	6.4	1.32	8	53	4	0.7	2.03	8	< 1
315761	< 2	< 0.3	20	< 0.3	< 1	14	17	32	0.02	5.28	3.4	400	< 1	< 2	5.6	1.42	7	58	3	0.6	2.69	9	< 1
315762	< 2	< 0.3	28	< 0.3	< 1	14	20	38	0.03	6.35	2.9	590	1	< 2	14.0	1.34	9	64	4	0.8	3.30	9	< 1
315763	< 2	< 0.3	5	< 0.3	< 1	11	14	24	< 0.01	5.91	< 0.5	590	1	< 2	0.9	1.39	5	42	4	0.6	1.25	10	< 1
315764	< 2	0.4	9	< 0.3	< 1	11	18	30	< 0.01	5.76	1.4	480	1	< 2	0.7	1.37	7	42	5	0.6	1.60	9	< 1
315765	< 2	< 0.3	34	< 0.3	< 1	9	46	44	0.03	6.58	0.7	500	1	< 2	7.3	1.40	28	45	4	0.6	1.65	7	< 1
315766	< 2	< 0.3	7	< 0.3	< 1	13	17	33	< 0.01	5.49	2.0	470	< 1	< 2	3.0	1.32	6	53	5	0.5	1.90	10	< 1
315767	< 2	0.3	16	< 0.3	< 1	14	43	36	< 0.01	5.89	2.5	670	1	< 2	3.2	1.21	8	46	4	0.5	2.04	9	< 1
315768	< 2	< 0.3	3	< 0.3	< 1	15	19	23	< 0.01	5.25	0.7	540	< 1	< 2	2.7	1.65	7	57	2	0.4	1.49	8	< 1
315769	315	< 0.3	11	< 0.3	< 1	11	17	28	< 0.01	5.80	1.2	480	1	< 2	2.5	1.39	6	50	2	0.6	1.50	9	< 1
315770	< 2	< 0.3	15	< 0.3	< 1	12	24	40	< 0.01	6.07	< 0.5	490	1	< 2	1.1	1.40	8	44	3	0.5	1.70	9	< 1
315771	< 2	< 0.3	10	< 0.3	< 1	13	23	33	0.01	5.81	2.9	560	1	< 2	4.9	1.11	6	68	4	0.5	2.60	9	< 1
315772	< 2	< 0.3	14	< 0.3	< 1	13	196	55	< 0.01	6.40	1.7	680	1	< 2	4.0	1.36	15	129	10	0.7	2.20	10	< 1
315773	< 2	< 0.3	8	< 0.3	< 1	14	36	46	< 0.01	5.86	0.8	570	1	< 2	< 0.5	1.50	9	60	5	0.6	1.67	10	< 1
315774	< 2	< 0.3	8	< 0.3	< 1	11	34	33	< 0.01	5.99	0.8	600	1	< 2	< 0.5	1.52	8	58	5	0.6	1.69	10	< 1
315775	332	< 0.3	23	< 0.3	< 1	9	106	98	< 0.01	5.82	6.1	510	3	< 2	< 0.5	1.99	33	137	3	2.0	4.71	8	< 1

Results

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Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315388	< 5	1.28	14	0.71	302	1.59	0.033	< 15	0.3	7.5	< 3	245	< 0.5	0.27	5.4	1.4	66	< 1	9	18.0	31	14	3.0
315389	< 5	1.24	16	0.48	234	1.61	0.045	61	< 0.1	6.1	< 3	253	< 0.5	0.25	6.2	1.8	51	< 1	9	17.6	38	18	3.1
315390	< 5	0.86	15	2.25	760	1.91	0.019	< 15	< 0.1	19.7	< 3	202	< 0.5	0.26	2.9	< 0.5	93	< 1	12	9.7	22	16	2.2
315391	< 5	1.26	17	0.85	325	1.71	0.032	54	< 0.1	7.5	< 3	234	< 0.5	0.31	4.5	< 0.5	68	< 1	9	16.3	33	8	2.9
315392	< 5	0.47	35	2.32	871	1.50	0.088	< 15	< 0.1	22.3	< 3	174	< 0.5	0.34	6.1	< 0.5	128	< 1	19	15.5	40	24	5.0
315393	< 5	1.46	14	0.57	280	2.11	0.020	60	< 0.1	5.7	< 3	337	< 0.5	0.22	3.8	< 0.5	39	< 1	9	14.6	28	11	2.8
315394	< 5	1.56	18	0.70	320	2.03	0.016	44	0.1	6.8	< 3	327	< 0.5	0.25	4.0	0.6	51	< 1	11	15.9	33	17	3.1
315395	< 5	1.30	30	0.50	365	1.11	0.094	< 15	0.2	7.3	< 3	200	< 0.5	0.22	7.8	3.4	46	< 1	22	46.0	99	46	9.4
315396	< 5	0.88	12	0.54	356	0.90	0.091	< 15	< 0.1	6.7	< 3	167	< 0.5	0.20	6.5	3.7	35	< 1	19	43.2	68	37	6.8
315397	< 5	1.52	13	0.53	260	2.02	0.029	52	< 0.1	5.6	< 3	317	< 0.5	0.23	3.8	1.7	44	< 1	9	15.5	32	11	2.9
315398	< 5	1.57	16	0.48	239	1.83	0.021	76	0.1	5.4	< 3	291	< 0.5	0.19	3.9	< 0.5	42	< 1	8	14.2	29	9	2.6
315399	< 5	1.69	15	0.48	236	1.85	0.021	66	< 0.1	5.4	< 3	291	< 0.5	0.19	4.1	0.8	40	< 1	8	14.1	29	10	2.5
315400	< 5	0.13	7	0.05	168	0.14	0.004	< 15	0.3	0.7	< 3	6	< 0.5	0.03	1.3	< 0.5	6	< 1	4	2.5	10	< 5	0.5
315401	< 5	1.52	17	0.46	242	1.71	0.030	25	< 0.1	5.5	< 3	277	< 0.5	0.23	3.6	0.7	54	< 1	8	13.3	28	12	2.3
315402	< 5	1.51	16	0.50	270	1.75	0.017	32	0.1	5.3	< 3	300	< 0.5	0.25	4.2	1.5	43	< 1	9	15.2	30	14	2.7
315403	< 5	1.41	14	0.65	321	2.01	0.028	65	< 0.1	6.5	< 3	330	< 0.5	0.24	4.8	2.5	44	< 1	11	16.7	32	11	3.1
315404	< 5	1.41	24	0.97	448	1.77	0.016	50	< 0.1	12.2	< 3	296	< 0.5	0.06	4.4	1.9	26	< 1	12	15.8	33	11	3.4
315405	< 5	1.85	12	0.53	251	1.95	0.014	52	0.1	5.5	< 3	325	< 0.5	0.11	3.6	1.3	25	< 1	9	12.4	26	9	2.2
315406	< 5	1.85	15	0.60	326	1.91	0.018	80	0.1	6.7	< 3	314	< 0.5	0.11	4.5	< 0.5	28	< 1	12	19.5	38	15	3.7
315407	< 5	1.71	20	0.60	282	1.83	0.016	50	< 0.1	6.8	< 3	287	< 0.5	0.11	4.9	1.4	29	< 1	11	20.7	44	21	3.8
315408	< 5	1.71	16	0.53	302	2.02	0.026	85	< 0.1	6.6	< 3	311	< 0.5	0.17	5.6	0.7	33	< 1	13	23.1	45	20	4.4
315409	< 5	1.66	14	0.52	266	1.74	0.027	69	0.2	5.9	< 3	273	< 0.5	0.19	5.0	1.6	42	< 1	9	15.1	32	11	2.6
315410	< 5	1.34	16	0.46	243	1.71	0.027	91	0.3	6.1	< 3	253	< 0.5	0.31	4.6	1.3	65	< 1	8	14.3	31	13	2.4
315411	< 5	1.45	21	0.60	269	1.56	0.030	< 15	0.3	7.4	< 3	232	< 0.5	0.23	5.6	1.6	54	< 1	11	20.4	41	12	3.4
315412	< 5	1.72	17	0.47	244	1.88	0.013	89	0.3	5.7	< 3	292	< 0.5	0.08	4.3	0.8	21	< 1	8	14.5	30	17	2.6
315413	< 5	2.02	16	0.48	236	1.90	0.008	41	< 0.1	5.5	< 3	300	< 0.5	0.06	4.2	1.0	12	< 1	9	15.5	31	13	2.9
315414	< 5	0.14	2	0.36	50	0.16	0.054	< 15	0.2	2.1	< 3	80	2.5	0.05	1.8	< 0.5	11	< 1	4	6.8	15	< 5	1.4
315415	< 5	0.07	< 1	0.24	61	0.08	0.053	< 15	0.1	1.3	< 3	58	< 0.5	0.02	1.2	< 0.5	9	< 1	3	4.4	10	< 5	1.0
315416	< 5	1.72	16	0.51	275	1.89	0.018	82	0.1	6.2	< 3	297	< 0.5	0.11	5.1	1.5	23	< 1	10	18.3	36	15	3.5
315417	< 5	1.34	8	1.16	470	1.55	0.008	< 15	0.1	10.8	< 3	226	< 0.5	0.25	5.2	1.4	56	< 1	11	13.2	32	11	2.6
315418	< 5	1.86	15	0.57	301	2.02	0.041	46	< 0.1	6.5	< 3	308	< 0.5	0.21	4.9	< 0.5	44	< 1	10	16.5	51	14	3.2
315419	< 5	1.75	12	0.67	370	1.99	0.039	63	< 0.1	6.3	< 3	293	< 0.5	0.16	4.6	1.1	36	< 1	9	15.7	40	10	3.0
315420	< 5	1.66	6	0.48	225	1.86	0.008	64	< 0.1	5.4	< 3	272	< 0.5	0.09	4.4	1.3	20	< 1	7	13.9	27	11	2.0
315421	< 5	1.73	14	0.58	293	1.99	0.018	23	0.2	6.9	< 3	273	< 0.5	0.09	4.1	1.0	25	< 1	8	13.7	28	10	2.2
315422	< 5	1.77	14	0.72	320	2.13	0.040	42	0.2	7.2	< 3	317	< 0.5	0.19	4.4	0.8	43	< 1	10	15.7	41	14	2.7
315423	< 5	1.42	17	0.85	305	1.66	0.036	19	0.3	6.8	< 3	257	< 0.5	0.29	4.7	0.9	56	< 1	9	15.0	30	12	2.3
315424	< 5	1.41	17	0.92	302	1.67	0.034	74	0.4	6.9	< 3	252	< 0.5	0.27	4.8	1.9	56	< 1	8	15.1	33	14	2.3
315425	< 5	1.50	21	1.46	614	1.52	0.102	53	0.5	10.3	< 3	409	2.3	0.16	8.5	2.1	32	< 1	21	42.2	76	32	7.3
315426	< 5	1.75	20	0.47	223	1.75	0.017	57	0.2	5.7	< 3	272	< 0.5	0.09	5.4	1.5	22	< 1	9	16.5	35	12	2.5
315427	< 5	1.86	16	0.82	318	2.02	0.009	74	< 0.1	7.3	< 3	297	< 0.5	0.06	4.3	< 0.5	14	< 1	8	13.6	28	13	2.3
315428	< 5	1.49	14	0.44	225	1.61	0.024	68	0.3	6.6	< 3	237	< 0.5	0.20	5.5	2.1	45	< 1	8	15.6	34	14	2.4
315429	< 5	1.61	20	0.61	272	1.71	0.028	28	0.3	7.5	< 3	245	< 0.5	0.10	5.1	1.8	32	< 1	9	16.7	36	12	2.8
315430	< 5	1.76	15	0.32	173	1.64	0.018	35	0.2	5.5	< 3	247	< 0.5	0.12	4.6	0.9	29	< 1	8	14.8	31	10	2.3
315431	< 5	1.52	15	0.46	242	1.89	0.020	84	< 0.1	5.2	< 3	296	< 0.5	0.25	4.1	0.7	47	< 1	8	14.4	30	11	2.2
315432	< 5	1.48	18	0.78	323	1.91	0.010	73	0.1	6.8	< 3	293	< 0.5	0.19	4.6	< 0.5	34	< 1	9	15.2	32	16	2.4
315433	< 5	1.45	15	0.70	403	1.67	0.012	37	< 0.1	10.2	< 3	227	< 0.5	0.10	5.0	0.7	25	< 1	14	15.0	33	14	2.6
315434	< 5	1.43	12	0.71	357	1.53	0.009	70	0.2	7.7	< 3	233	< 0.5	0.05	4.5	2.3	17	< 1	10	13.7	28	7	2.2
315435	< 5	1.86	13	0.53	277	2.11	0.016	< 15	< 0.1	6.1	< 3	323	< 0.5	0.08	5.4	0.7	15	< 1	11	18.1	40	14	3.2
315436	< 5	0.60	10	2.36	1070	1.24	0.025	< 15	0.2	31.5	< 3	214	< 0.5	0.36	2.0	< 0.5	157	< 1	16	6.8	17	< 5	1.9
315437	< 5	1.36	29	0.73	415	1.41	0.023	83	0.4	10.2	< 3	273	< 0.5	0.04	5.6	2.9	20	< 1	12	16.2	37	13	2.7
315438	< 5	1.50	15	0.49	275	1.90	0.019	74	0.3	6.0	< 3	306	< 0.5	0.26	5.8	1.3	48	< 1	10	18.1	44	12	2.9

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315439	< 5	1.42	17	0.63	300	1.78	0.020	104	0.2	6.6	< 3	259	< 0.5	0.24	4.6	1.7	53	< 1	10	17.1	43	12	2.7
315440	< 5	1.01	8	0.83	634	1.67	0.008	19	< 0.1	14.1	< 3	212	< 0.5	0.15	3.1	0.6	33	< 1	11	9.4	22	9	1.8
315441	< 5	1.82	12	0.54	278	2.02	0.017	95	< 0.1	5.9	< 3	318	< 0.5	0.11	5.3	2.7	21	< 1	10	16.1	35	14	2.7
315442	< 5	1.81	12	0.47	248	2.09	0.026	98	< 0.1	5.7	< 3	323	< 0.5	0.14	5.1	< 0.5	26	< 1	9	16.6	31	14	2.6
315443	< 5	1.79	15	0.55	269	1.96	0.012	151	< 0.1	6.5	< 3	300	< 0.5	0.08	4.4	0.9	14	< 1	9	16.9	45	11	2.5
315444	< 5	1.64	17	0.46	259	1.69	0.025	38	0.1	6.8	< 3	264	< 0.5	0.19	5.1	0.8	42	< 1	9	17.4	38	12	2.7
315445	< 5	1.81	17	0.50	253	1.92	0.014	112	< 0.1	5.8	< 3	301	< 0.5	0.08	5.3	< 0.5	16	< 1	9	16.3	36	12	2.7
315446	< 5	1.58	18	0.85	404	1.83	0.029	27	< 0.1	9.5	< 3	264	< 0.5	0.07	4.5	1.2	25	< 1	11	16.6	38	7	2.6
315447	< 5	1.46	17	0.46	245	1.85	0.008	< 15	< 0.1	6.1	< 3	294	< 0.5	0.20	4.8	< 0.5	36	< 1	9	16.0	30	12	2.5
315448	< 5	1.65	14	0.63	314	1.97	0.027	25	< 0.1	6.9	< 3	315	< 0.5	0.11	4.2	1.2	27	< 1	10	16.4	36	11	2.5
315449	< 5	1.76	14	0.60	315	1.93	0.026	27	< 0.1	6.7	< 3	312	< 0.5	0.10	4.5	1.4	23	< 1	10	16.1	31	17	2.5
315450	< 5	0.21	14	0.24	408	0.13	0.022	16	0.5	57.3	< 3	29	< 0.5	0.82	8.4	1.1	253	< 1	11	13.5	27	7	2.5
315451	< 5	1.64	24	0.87	389	1.89	0.027	< 15	< 0.1	8.3	< 3	367	< 0.5	0.16	4.7	< 0.5	42	< 1	10	15.3	33	8	2.6
315452	< 5	1.76	17	0.58	289	1.78	0.018	27	< 0.1	6.4	< 3	295	< 0.5	0.07	4.2	< 0.5	15	< 1	10	15.0	30	13	2.9
315453	< 5	1.43	9	0.61	339	1.68	0.021	89	0.1	8.1	< 3	273	< 0.5	0.18	4.2	0.5	37	< 1	9	12.6	23	7	2.5
315454	< 5	1.47	14	0.58	290	1.85	0.030	25	< 0.1	6.7	< 3	308	< 0.5	0.24	4.3	< 0.5	51	< 1	10	15.4	31	11	3.1
315455	< 5	1.56	16	0.66	320	1.77	0.049	107	< 0.1	7.3	< 3	306	< 0.5	0.21	4.7	0.6	51	< 1	10	14.5	35	14	3.1
315456	< 5	1.67	17	0.52	264	1.73	0.011	43	< 0.1	5.7	< 3	292	< 0.5	0.08	5.3	1.7	11	< 1	9	15.4	32	13	2.8
315457	< 5	1.54	15	0.68	428	1.69	0.010	59	0.1	10.1	< 3	254	< 0.5	0.06	4.3	< 0.5	17	< 1	12	13.5	30	10	2.9
315458	< 5	1.77	18	0.71	438	1.75	0.016	17	< 0.1	6.9	< 3	298	< 0.5	0.09	4.4	< 0.5	17	< 1	8	13.3	28	10	2.5
315459	< 5	1.80	14	0.66	311	1.71	0.033	< 15	< 0.1	6.7	< 3	288	< 0.5	0.13	4.2	1.0	34	< 1	9	13.4	30	11	2.5
315460	< 5	1.87	16	0.69	354	1.93	0.023	77	0.2	7.3	< 3	315	< 0.5	0.08	4.4	< 0.5	18	< 1	10	14.8	32	8	2.9
315461	< 5	1.57	17	0.57	271	1.87	0.011	43	< 0.1	6.3	< 3	304	< 0.5	0.26	4.6	1.4	45	< 1	9	17.0	33	8	3.0
315462	< 5	1.32	15	0.91	392	1.80	0.019	29	0.1	8.9	< 3	359	< 0.5	0.20	5.6	1.0	87	< 1	11	14.9	35	12	3.2
315463	< 5	1.22	16	1.21	629	1.51	0.013	< 15	< 0.1	14.7	< 3	205	< 0.5	0.18	5.5	2.1	52	< 1	14	15.4	36	13	2.8
315464	< 5	1.79	15	0.50	247	1.78	0.027	25	< 0.1	5.8	< 3	288	< 0.5	0.14	5.2	0.6	35	< 1	8	15.8	34	10	2.6
315465	< 5	1.55	20	0.52	256	1.51	0.036	< 15	< 0.1	7.2	< 3	249	< 0.5	0.16	6.4	1.6	43	< 1	10	20.4	46	17	3.2
315466	< 5	2.06	16	0.59	277	1.86	0.007	23	0.2	6.1	< 3	306	< 0.5	0.07	4.4	1.8	11	< 1	8	16.2	31	13	2.3
315467	< 5	1.95	14	0.48	233	1.86	0.025	89	< 0.1	5.4	< 3	298	< 0.5	0.12	4.4	1.4	24	< 1	9	15.7	39	13	2.4
315468	< 5	1.54	22	0.49	228	1.58	0.028	< 15	0.1	6.4	< 3	243	< 0.5	0.26	6.4	0.7	50	< 1	9	18.8	44	12	3.1
315469	< 5	1.52	14	0.57	271	1.93	0.026	36	0.1	5.9	< 3	327	< 0.5	0.24	4.9	< 0.5	39	< 1	10	16.8	37	13	2.8
315470	< 5	1.57	17	0.46	234	1.36	0.023	33	< 0.1	6.2	< 3	224	< 0.5	0.23	4.8	< 0.5	59	< 1	9	15.5	34	11	2.6
315471	< 5	1.72	18	0.50	233	1.81	0.008	99	< 0.1	6.1	< 3	287	< 0.5	0.16	4.6	2.2	29	< 1	10	16.9	36	12	2.8
315472	< 5	1.75	16	0.50	248	1.81	0.037	< 15	< 0.1	6.5	< 3	275	< 0.5	0.20	6.9	0.8	42	< 1	9	17.6	38	14	2.9
315473	< 5	1.82	14	0.47	239	1.74	0.025	20	< 0.1	5.7	< 3	284	< 0.5	0.09	4.3	1.3	26	< 1	8	12.9	29	13	2.1
315474	< 5	1.82	14	0.47	246	1.88	0.038	62	< 0.1	5.8	< 3	298	< 0.5	0.15	4.6	< 0.5	36	< 1	9	15.8	43	13	3.1
315475	< 5	0.09	7	0.01	176	0.12	0.002	< 15	0.1	0.9	< 3	5	< 0.5	0.02	1.5	< 0.5	11	< 1	3	2.4	8	< 5	0.5
315476	< 5	1.86	14	0.51	259	1.97	0.013	107	< 0.1	5.5	< 3	315	< 0.5	0.10	4.0	0.8	19	< 1	8	13.0	28	9	2.5
315477	< 5	1.72	15	0.53	285	1.97	0.026	< 15	< 0.1	5.8	< 3	324	< 0.5	0.18	5.1	1.8	30	< 1	11	17.6	39	11	3.5
315478	< 5	1.71	21	0.56	260	1.59	0.026	61	< 0.1	7.1	< 3	260	< 0.5	0.09	6.1	0.7	30	< 1	9	15.8	33	13	3.1
315479	< 5	1.68	18	0.56	255	1.84	0.016	33	0.1	6.6	< 3	304	< 0.5	0.06	4.7	< 0.5	15	< 1	9	14.5	32	14	2.7
315480	< 5	1.65	15	0.49	224	1.69	0.010	33	< 0.1	5.9	< 3	271	< 0.5	0.05	5.3	1.8	11	< 1	11	20.0	43	14	3.6
315481	< 5	1.75	15	0.50	247	1.71	0.012	16	< 0.1	5.6	< 3	284	< 0.5	0.07	4.3	1.5	17	< 1	9	13.8	27	8	2.6
315482	< 5	1.48	16	0.54	247	1.88	0.019	69	< 0.1	6.4	< 3	285	< 0.5	0.13	3.6	< 0.5	27	< 1	9	14.1	29	14	2.9
315483	< 5	1.34	16	0.52	246	1.88	0.027	61	< 0.1	6.1	< 3	289	< 0.5	0.25	4.4	0.8	47	< 1	9	14.3	33	10	3.0
315484	< 5	1.54	19	0.71	296	1.75	0.019	76	< 0.1	7.5	< 3	263	< 0.5	0.13	4.9	0.6	28	< 1	10	16.3	36	13	2.8
315485	< 5	1.91	19	0.60	282	1.95	0.016	87	0.1	6.9	< 3	307	< 0.5	0.07	4.7	1.2	15	< 1	12	19.3	41	17	3.4
315486	< 5	1.52	9	0.58	230	1.60	0.005	60	0.1	5.6	< 3	253	< 0.5	0.09	5.3	2.3	8	< 1	8	15.7	32	13	2.3
315487	< 5	1.96	16	0.48	398	1.96	0.032	26	< 0.1	5.7	< 3	326	< 0.5	0.14	5.3	< 0.5	26	< 1	10	15.5	37	17	2.8
315488	< 5	1.75	17	0.60	271	1.87	0.014	107	< 0.1	6.3	< 3	311	< 0.5	0.12	4.1	< 0.5	25	< 1	8	12.8	29	7	2.2
315489	< 5	1.89	15	0.52	274	1.89	0.030	21	< 0.1	6.1	< 3	299	< 0.5	0.19	6.0	1.3	38	< 1	10	15.4	35	11	2.5

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315490	< 5	1.77	13	0.54	285	1.86	0.037	< 15	< 0.1	6.5	< 3	306	< 0.5	0.12	4.7	1.0	32	< 1	12	17.7	47	16	3.3
315491	< 5	1.41	11	0.51	262	2.01	0.025	17	< 0.1	5.6	< 3	325	< 0.5	0.20	4.2	< 0.5	38	< 1	9	15.0	33	11	2.7
315492	< 5	1.54	12	0.40	218	1.72	0.011	40	< 0.1	5.9	< 3	265	< 0.5	0.16	4.6	1.3	33	< 1	8	12.9	30	8	2.1
315493	< 5	1.54	32	0.62	592	1.49	0.122	29	0.3	7.9	< 3	238	< 0.5	0.25	6.9	2.7	45	< 1	15	25.4	59	23	4.7
315494	< 5	1.67	12	0.41	236	1.79	0.020	16	< 0.1	5.1	< 3	283	< 0.5	0.10	4.8	< 0.5	19	< 1	8	14.2	36	9	2.4
315495	< 5	1.62	11	0.46	228	2.05	0.013	41	0.1	5.9	< 3	284	< 0.5	0.09	5.2	< 0.5	24	< 1	7	15.7	34	10	2.3
315496	< 5	1.94	13	0.53	251	2.35	0.009	49	< 0.1	6.3	< 3	319	< 0.5	0.12	4.7	1.3	20	< 1	8	14.6	32	8	2.2
315497	< 5	1.64	16	0.50	233	1.98	0.018	93	< 0.1	6.2	< 3	283	< 0.5	0.07	5.6	0.5	19	< 1	9	18.7	45	11	2.8
315498	< 5	1.57	16	0.48	233	1.86	0.022	< 15	0.2	5.9	< 3	277	< 0.5	0.23	6.1	< 0.5	43	< 1	9	17.6	40	14	2.7
315499	< 5	1.57	12	0.45	242	2.07	0.019	56	0.2	6.3	< 3	291	< 0.5	0.21	6.9	2.0	37	< 1	10	19.6	47	15	3.2
315500	< 5	1.39	20	1.43	598	1.60	0.107	35	0.5	10.7	< 3	405	< 0.5	0.18	11.2	2.4	32	< 1	20	44.0	90	35	7.5
315501	< 5	1.68	18	0.59	277	1.97	0.013	29	0.2	6.6	< 3	301	< 0.5	0.06	5.7	1.0	12	< 1	10	19.9	42	10	3.0
315502	< 5	1.69	12	0.57	287	2.13	0.024	51	< 0.1	6.2	< 3	325	< 0.5	0.12	5.2	1.0	22	< 1	10	17.9	40	12	2.8
315503	< 5	1.79	18	0.57	338	1.90	0.103	37	< 0.1	8.1	< 3	276	< 0.5	0.23	6.9	1.8	39	< 1	15	26.9	68	26	4.8
315504	< 5	0.89	18	0.43	195	0.94	0.118	< 15	0.2	11.6	< 3	169	< 0.5	0.15	9.1	6.3	41	< 1	58	146	241	131	20.6
315505	< 5	1.71	14	0.74	405	2.42	0.023	74	< 0.1	9.1	< 3	309	< 0.5	0.06	5.4	0.9	19	< 1	11	15.1	32	15	2.5
315506	< 5	1.71	17	0.74	346	1.98	0.035	87	0.2	8.5	< 3	275	< 0.5	0.18	4.9	< 0.5	51	< 1	11	15.4	39	12	3.2
315507	< 5	1.71	16	0.85	430	2.16	0.040	18	< 0.1	10.5	< 3	300	< 0.5	0.15	5.2	1.8	47	< 1	23	46.8	53	54	9.9
315508	< 5	1.81	11	0.88	407	1.99	0.009	82	< 0.1	10.1	< 3	281	< 0.5	0.04	4.3	< 0.5	14	< 1	10	12.3	30	13	2.5
315509	< 5	1.80	16	0.71	419	2.14	0.053	< 15	< 0.1	7.8	< 3	352	< 0.5	0.19	5.3	0.9	45	< 1	12	17.0	40	13	3.8
315510	< 5	1.73	17	0.90	412	2.11	0.012	< 15	0.1	9.9	< 3	322	< 0.5	0.15	4.0	1.6	33	< 1	10	12.9	32	10	2.7
315511	< 5	1.67	19	0.99	455	2.17	0.039	40	< 0.1	12.4	< 3	315	< 0.5	0.10	6.1	< 0.5	32	< 1	19	31.9	55	25	6.3
315512	< 5	1.76	22	0.74	439	2.00	0.029	43	< 0.1	7.4	< 3	355	< 0.5	0.07	5.1	0.8	20	< 1	12	19.0	48	17	4.0
315513	< 5	1.65	14	0.76	388	2.10	0.037	< 15	< 0.1	7.9	< 3	324	< 0.5	0.19	5.2	1.1	46	< 1	12	17.5	41	12	3.6
315514	< 5	1.68	18	0.77	352	2.15	0.024	< 15	0.1	8.3	< 3	311	< 0.5	0.18	4.6	< 0.5	43	< 1	10	14.9	35	10	3.1
315515	< 5	1.86	16	0.65	316	2.11	0.010	39	< 0.1	7.6	< 3	304	< 0.5	0.04	5.2	0.9	11	< 1	10	15.9	36	13	3.1
315516	< 5	1.98	15	0.56	269	2.21	0.017	34	< 0.1	6.4	< 3	308	< 0.5	0.06	5.4	1.5	12	< 1	9	16.5	40	9	3.3
315517	< 5	1.97	13	0.51	255	2.16	0.009	51	< 0.1	5.9	< 3	315	< 0.5	0.09	5.5	1.3	15	< 1	9	15.6	37	11	2.9
315518	< 5	2.01	29	0.81	318	2.00	0.039	62	< 0.1	7.1	< 3	290	< 0.5	0.26	5.2	0.8	57	< 1	9	16.9	51	14	3.3
315519	< 5	2.06	17	0.57	284	2.01	0.012	29	< 0.1	6.0	< 3	299	< 0.5	0.10	5.4	0.8	19	< 1	9	16.1	38	13	3.0
315520	< 5	1.31	16	1.26	493	1.72	0.006	64	0.2	13.3	< 3	210	< 0.5	0.05	5.4	1.3	16	< 1	12	14.9	36	13	3.1
315521	< 5	1.59	15	0.53	237	2.14	0.013	< 15	0.1	6.1	< 3	294	< 0.5	0.19	5.6	< 0.5	34	< 1	8	14.8	36	12	2.8
315522	< 5	1.59	18	0.50	292	1.93	0.028	58	< 0.1	6.0	< 3	289	< 0.5	0.21	5.6	1.1	36	< 1	10	17.4	40	14	3.5
315523	< 5	2.00	12	0.47	242	2.11	0.026	24	< 0.1	5.6	< 3	318	< 0.5	0.11	5.9	1.3	22	< 1	9	14.8	44	14	2.9
315524	< 5	2.00	13	0.46	258	2.15	0.024	46	< 0.1	5.6	< 3	316	< 0.5	0.13	5.3	0.8	25	< 1	9	14.9	41	13	2.9
315525	< 5	0.13	9	0.03	185	0.12	0.003	< 15	0.3	0.7	< 3	5	< 0.5	0.03	2.1	< 0.5	7	< 1	5	3.1	8	< 5	0.6
315526	< 5	1.82	17	0.75	368	2.12	0.052	43	0.1	8.6	< 3	292	< 0.5	0.17	5.2	< 0.5	46	< 1	10	13.2	42	9	2.8
315527	< 5	1.99	14	0.42	237	1.99	0.045	81	< 0.1	5.3	< 3	299	< 0.5	0.15	5.2	2.3	35	< 1	8	14.5	34	16	2.8
315528	< 5	1.59	14	0.53	257	2.02	0.043	59	< 0.1	5.8	< 3	299	< 0.5	0.23	4.3	0.8	45	< 1	9	12.5	33	7	2.5
315529	< 5	1.69	17	0.56	281	1.97	0.070	57	< 0.1	6.2	< 3	291	< 0.5	0.25	5.2	0.8	53	< 1	9	13.3	37	12	2.8
315530	< 5	1.90	15	0.50	254	1.94	0.046	29	< 0.1	5.5	< 3	307	< 0.5	0.19	5.6	0.8	40	< 1	10	14.7	42	12	2.9
315531	< 5	1.84	18	0.53	243	1.90	0.036	83	< 0.1	5.8	< 3	287	< 0.5	0.12	5.4	1.3	33	< 1	9	14.7	37	12	2.9
315532	< 5	1.69	17	0.92	412	2.09	0.049	68	< 0.1	8.4	< 3	302	< 0.5	0.21	5.5	< 0.5	54	< 1	11	12.9	67	14	3.3
315533	< 5	0.13	2	0.31	430	0.14	0.102	< 15	< 0.1	3.6	< 3	70	< 0.5	0.03	2.2	12.0	10	< 1	21	31.1	26	48	5.4
315534	< 5	1.80	17	0.49	240	1.82	0.021	46	< 0.1	5.2	< 3	287	< 0.5	0.11	4.5	2.4	25	< 1	7	11.9	33	7	2.2
315535	< 5	1.85	15	0.49	248	1.88	0.025	55	< 0.1	5.7	< 3	284	< 0.5	0.10	4.6	1.8	23	< 1	9	14.0	33	9	2.7
315536	< 5	1.65	15	0.41	231	1.94	0.020	74	0.1	5.1	< 3	297	< 0.5	0.24	5.7	0.6	45	< 1	8	14.4	35	16	2.8
315537	< 5	1.62	14	0.61	282	1.79	0.014	83	< 0.1	7.2	< 3	263	< 0.5	0.12	5.1	1.3	38	< 1	9	13.4	33	11	2.7
315538	< 5	1.76	12	0.46	216	1.94	0.005	66	< 0.1	5.9	< 3	280	< 0.5	0.07	5.3	1.4	13	< 1	8	14.5	34	14	2.4
315539	< 5	1.60	12	0.52	346	2.14	0.043	57	< 0.1	6.5	< 3	310	< 0.5	0.17	7.1	1.6	34	< 1	13	20.5	51	16	3.8
315540	< 5	1.74	15	0.52	317	2.09	0.054	94	< 0.1	7.5	< 3	299	< 0.5	0.14	7.8	0.9	35	< 1	16	26.6	62	24	4.8

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315541	< 5	1.73	17	0.45	219	1.77	0.023	62	< 0.1	5.7	< 3	265	< 0.5	0.07	5.5	1.6	22	< 1	8	12.8	37	10	2.2
315542	< 5	1.85	13	0.62	322	2.16	0.014	< 15	< 0.1	6.7	< 3	324	< 0.5	0.04	5.7	2.3	9	< 1	10	16.2	38	12	2.8
315543	< 5	1.83	15	0.54	265	2.09	0.032	60	0.2	6.5	< 3	294	< 0.5	0.10	5.8	1.1	25	< 1	9	14.5	37	18	2.6
315544	< 5	1.57	18	0.46	226	1.81	0.038	50	< 0.1	5.4	< 3	283	< 0.5	0.26	5.1	1.0	50	< 1	8	13.0	36	12	2.2
315545	< 5	1.64	15	0.48	239	1.87	0.031	53	< 0.1	5.6	< 3	290	< 0.5	0.24	5.1	< 0.5	47	< 1	9	12.9	36	9	2.3
315546	< 5	1.64	14	0.49	228	2.04	0.014	69	< 0.1	5.8	< 3	295	< 0.5	0.20	5.2	< 0.5	32	< 1	9	14.1	36	13	2.7
315547	< 5	1.59	16	0.79	355	1.77	0.025	22	< 0.1	8.7	< 3	255	< 0.5	0.08	5.4	1.6	23	< 1	10	13.2	35	8	2.4
315548	< 5	1.68	15	0.66	339	1.71	0.035	32	< 0.1	6.8	< 3	298	< 0.5	0.10	4.9	< 0.5	27	< 1	11	15.9	33	5	2.5
315549	< 5	1.66	15	0.67	328	1.63	0.034	21	< 0.1	6.4	< 3	294	< 0.5	0.13	4.9	0.5	31	< 1	11	15.3	31	< 5	2.4
315550	< 5	1.59	21	1.44	597	1.30	0.112	140	< 0.1	8.9	< 3	408	1.9	0.13	7.9	2.0	27	< 1	20	38.4	63	33	6.1
315551	< 5	1.56	13	0.85	565	1.76	0.032	< 15	< 0.1	7.3	< 3	305	< 0.5	0.25	3.5	< 0.5	54	< 1	10	12.4	26	8	2.1
315552	< 5	1.63	15	1.30	471	1.78	0.029	59	< 0.1	8.9	< 3	288	< 0.5	0.12	4.1	< 0.5	37	< 1	12	14.9	27	10	2.5
315553	< 5	0.12	1	0.27	233	0.09	0.048	< 15	< 0.1	2.5	< 3	51	< 0.5	0.03	2.3	< 0.5	11	< 1	6	7.1	13	< 5	1.4
315554	< 5	0.10	1	0.30	251	0.08	0.041	< 15	< 0.1	2.2	< 3	54	< 0.5	0.03	1.4	1.1	11	< 1	6	7.1	18	< 5	1.3
315555	< 5	0.13	2	0.49	559	0.17	0.052	< 15	0.3	3.2	< 3	72	< 0.5	0.10	1.6	1.1	33	< 1	5	4.7	13	12	0.9
315556	< 5	0.40	12	0.71	842	0.42	0.102	< 15	< 0.1	11.5	< 3	100	< 0.5	0.17	4.5	1.4	86	< 1	11	29.8	60	31	3.8
315557	< 5	0.09	1	0.28	201	0.09	0.043	< 15	< 0.1	2.3	< 3	59	< 0.5	0.02	2.1	< 0.5	7	< 1	7	7.5	5	12	1.4
315558	< 5	0.09	1	0.29	422	0.10	0.050	< 15	< 0.1	2.6	< 3	55	< 0.5	0.03	2.2	1.6	10	< 1	9	9.1	20	< 5	1.7
315559	< 5	0.24	7	0.91	431	0.46	0.146	< 15	< 0.1	8.8	< 3	96	< 0.5	0.14	4.1	< 0.5	50	< 1	16	23.0	35	22	4.1
315560	< 5	1.72	13	0.64	310	2.19	0.031	31	< 0.1	7.5	< 3	317	< 0.5	0.19	4.7	< 0.5	42	< 1	10	18.0	38	16	3.1
315561	< 5	1.71	13	0.43	220	1.86	0.030	< 15	0.4	6.2	< 3	282	< 0.5	0.21	6.0	0.7	42	< 1	8	14.5	27	16	2.3
315562	< 5	1.69	19	0.56	269	1.84	0.018	54	< 0.1	6.4	< 3	282	< 0.5	0.07	5.3	1.4	22	< 1	9	16.5	34	10	2.5
315563	< 5	1.64	14	0.78	335	1.85	0.013	106	0.1	7.8	< 3	264	< 0.5	0.05	4.4	0.6	15	< 1	10	15.5	29	14	2.4
315564	< 5	1.39	26	1.02	451	1.86	0.016	49	< 0.1	11.4	< 3	258	< 0.5	0.07	4.5	1.5	26	< 1	11	15.2	29	14	2.7
315565	< 5	1.58	20	0.76	357	1.76	0.045	72	< 0.1	7.9	< 3	270	< 0.5	0.19	4.7	0.7	56	< 1	10	13.5	30	15	2.3
315566	< 5	1.57	17	1.15	494	2.17	0.028	50	< 0.1	11.4	< 3	340	< 0.5	0.15	3.5	< 0.5	45	< 1	12	12.3	30	14	2.5
315567	< 5	1.84	15	0.58	296	2.02	0.033	46	0.4	6.8	< 3	297	< 0.5	0.12	4.8	0.9	30	< 1	9	15.7	45	16	2.5
315568	< 5	1.86	16	0.50	255	1.96	0.040	45	< 0.1	5.6	< 3	300	< 0.5	0.17	4.9	< 0.5	37	< 1	9	14.6	33	11	2.4
315569	< 5	1.78	19	0.47	243	1.89	0.031	49	< 0.1	5.6	< 3	289	< 0.5	0.15	5.0	0.9	35	< 1	8	14.7	33	10	2.2
315570	< 5	1.81	14	0.57	325	2.04	0.044	107	< 0.1	6.9	< 3	325	< 0.5	0.22	5.5	1.8	44	< 1	12	18.1	48	12	3.0
315571	< 5	1.84	12	0.60	295	2.11	0.030	42	< 0.1	6.2	< 3	321	< 0.5	0.11	4.0	< 0.5	22	< 1	9	13.6	28	12	2.3
315572	< 5	1.58	18	0.71	316	1.87	0.042	102	< 0.1	7.3	< 3	287	< 0.5	0.21	5.0	< 0.5	50	< 1	10	15.6	31	12	2.7
315573	< 5	1.89	16	0.47	248	1.79	0.026	93	< 0.1	4.9	< 3	301	< 0.5	0.18	4.4	0.6	39	< 1	8	13.6	26	11	2.0
315574	< 5	1.83	16	0.48	273	1.85	0.029	96	< 0.1	5.3	< 3	290	< 0.5	0.11	4.6	1.5	27	< 1	8	14.0	31	10	2.1
315575	< 5	0.21	14	0.24	420	0.17	0.021	< 15	0.7	71.5	< 3	29	< 0.5	0.70	11.3	6.4	220	< 1	11	15.9	36	13	3.2
315576	< 5	1.76	17	0.69	382	2.02	0.034	95	< 0.1	8.9	< 3	333	< 0.5	0.19	6.3	1.5	42	< 1	22	35.1	41	35	6.3
315577	< 5	1.78	19	0.84	462	1.76	0.067	82	0.2	7.8	< 3	278	< 0.5	0.24	6.8	1.1	60	< 1	12	17.6	62	13	3.1
315578	< 5	2.06	12	0.50	264	2.08	0.047	64	< 0.1	5.1	< 3	350	< 0.5	0.22	4.0	1.4	39	< 1	10	15.6	36	9	2.5
315579	< 5	1.77	14	0.54	261	2.01	0.055	68	< 0.1	5.9	< 3	299	< 0.5	0.20	5.3	1.2	41	< 1	9	16.6	58	14	2.6
315580	< 5	1.62	15	0.50	257	1.93	0.051	96	< 0.1	5.2	< 3	306	< 0.5	0.22	4.8	1.3	43	< 1	9	14.4	42	11	3.1
315581	< 5	1.81	15	0.48	258	1.91	0.038	36	0.1	4.9	< 3	317	< 0.5	0.23	4.2	1.4	43	< 1	8	13.0	33	11	2.6
315582	< 5	1.74	15	0.97	410	1.91	0.040	55	< 0.1	8.6	< 3	300	< 0.5	0.15	4.3	0.6	42	< 1	13	17.0	33	14	4.0
315583	< 5	1.83	18	0.86	330	1.90	0.013	74	0.2	7.2	< 3	298	< 0.5	0.08	3.4	0.7	15	< 1	10	13.4	29	13	3.1
315584	< 5	1.91	15	0.48	236	1.83	0.031	91	< 0.1	5.3	< 3	297	< 0.5	0.14	5.1	0.8	28	< 1	9	14.4	35	13	2.9
315585	< 5	1.84	17	0.58	284	1.79	0.049	24	< 0.1	6.2	< 3	291	< 0.5	0.24	4.2	0.5	50	< 1	11	14.9	37	14	3.5
315586	< 5	1.76	12	0.66	338	1.83	0.049	69	0.1	5.9	< 3	317	< 0.5	0.15	5.4	1.6	36	< 1	11	14.7	44	11	3.1
315587	< 5	1.38	15	0.44	233	1.72	0.044	49	< 0.1	4.7	< 3	307	< 0.5	0.24	4.1	1.1	42	< 1	9	12.7	29	10	2.6
315588	< 5	1.42	12	0.57	299	1.92	0.037	90	< 0.1	5.8	< 3	300	< 0.5	0.22	4.4	1.1	46	< 1	9	13.4	39	10	2.8
315589	< 5	1.73	16	0.49	252	1.80	0.052	99	< 0.1	5.5	< 3	289	< 0.5	0.19	4.5	< 0.5	41	< 1	9	13.6	31	11	2.9
315590	< 5	1.97	13	0.46	219	1.79	0.013	41	< 0.1	5.2	< 3	262	< 0.5	0.07	3.4	< 0.5	19	< 1	7	11.2	25	11	2.3
315591	< 5	1.75	13	1.22	436	2.06	0.053	49	0.2	8.5	< 3	299	< 0.5	0.19	5.9	0.8	48	< 1	13	19.7	44	18	4.4

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315592	< 5	1.82	18	0.56	303	1.84	0.046	53	< 0.1	6.3	< 3	275	< 0.5	0.15	4.7	1.9	37	< 1	9	14.1	33	13	3.0
315593	< 5	1.76	16	0.55	278	1.81	0.029	106	< 0.1	5.6	< 3	296	< 0.5	0.10	4.1	1.3	24	< 1	9	12.6	33	10	2.6
315594	< 5	1.62	15	0.59	282	1.71	0.030	93	< 0.1	6.5	< 3	270	< 0.5	0.07	4.1	1.1	19	< 1	10	14.5	32	15	3.2
315595	< 5	1.67	12	0.58	277	2.10	0.014	94	< 0.1	6.4	< 3	321	< 0.5	0.19	3.8	0.9	39	< 1	9	13.4	28	11	2.9
315596	< 5	1.53	16	0.86	388	1.93	0.013	67	0.3	9.1	< 3	287	< 0.5	0.13	4.4	2.2	33	< 1	10	14.0	32	13	3.2
315597	< 5	1.47	15	1.02	420	1.72	0.022	33	< 0.1	9.4	< 3	268	< 0.5	0.10	3.8	0.6	33	< 1	9	11.4	26	10	2.6
315598	< 5	1.56	13	0.62	269	1.66	0.013	42	< 0.1	4.8	< 3	279	< 0.5	0.14	4.1	1.1	30	< 1	7	12.8	27	15	2.5
315599	< 5	1.51	14	0.61	261	1.94	0.010	90	< 0.1	5.1	< 3	279	< 0.5	0.18	4.7	0.9	37	< 1	7	12.6	31	11	2.5
315600	< 5	0.13	7	0.04	146	0.16	0.003	< 15	0.2	0.8	< 3	11	< 0.5	0.03	1.8	0.7	6	< 1	3	2.8	8	< 5	0.7
315601	< 5	1.29	19	0.62	330	1.49	0.029	< 15	0.3	7.7	< 3	216	< 0.5	0.29	4.6	1.4	95	< 1	9	12.8	31	7	2.7
315602	< 5	0.60	14	2.39	1180	1.34	0.018	< 15	< 0.1	36.2	< 3	102	0.8	0.11	1.7	< 0.5	88	< 1	22	5.4	14	< 5	2.0
315603	< 5	1.50	16	0.50	251	1.86	0.036	32	< 0.1	5.1	< 3	308	< 0.5	0.24	3.6	1.9	47	< 1	9	14.4	30	10	2.5
315604	< 5	1.60	11	0.57	281	2.04	0.034	36	< 0.1	6.0	< 3	333	< 0.5	0.22	4.4	1.4	41	< 1	11	18.5	32	14	3.4
315605	< 5	1.80	15	0.45	228	1.77	0.017	48	< 0.1	5.2	< 3	287	< 0.5	0.13	3.7	0.7	31	< 1	9	14.8	28	12	2.7
315606	< 5	1.96	15	0.46	252	1.82	0.030	94	< 0.1	5.3	< 3	290	< 0.5	0.12	3.9	< 0.5	28	< 1	9	14.7	28	10	2.6
315607	< 5	1.80	16	0.47	264	1.89	0.041	44	< 0.1	6.0	< 3	297	< 0.5	0.18	4.3	< 0.5	44	< 1	9	14.5	30	14	2.8
315608	< 5	2.02	10	0.48	286	2.07	0.043	39	< 0.1	5.6	< 3	335	< 0.5	0.18	4.9	< 0.5	34	< 1	12	19.2	35	12	3.8
315609	< 5	1.65	11	0.50	249	1.98	0.046	67	< 0.1	5.4	< 3	336	< 0.5	0.20	4.2	1.6	34	< 1	11	16.9	32	12	3.3
315610	< 5	1.53	18	0.68	312	1.82	0.034	49	< 0.1	7.6	< 3	283	< 0.5	0.19	4.2	0.8	49	< 1	10	15.4	33	12	2.9
315611	< 5	1.61	14	0.47	243	1.94	0.036	40	0.1	5.7	< 3	302	< 0.5	0.22	4.5	< 0.5	45	< 1	9	16.0	29	12	3.0
315612	< 5	1.67	16	0.54	284	2.15	0.040	76	< 0.1	6.1	< 3	313	< 0.5	0.22	4.3	1.5	47	< 1	9	15.5	34	12	2.5
315613	< 5	1.83	18	0.58	326	2.18	0.023	84	0.1	7.1	< 3	305	< 0.5	0.07	4.3	0.9	17	< 1	10	17.5	36	10	3.0
315614	< 5	1.85	14	0.50	253	2.17	0.043	45	< 0.1	6.1	< 3	311	< 0.5	0.17	5.2	1.0	36	< 1	9	17.5	50	14	3.0
315615	< 5	1.65	14	0.66	325	1.90	0.022	45	0.1	8.1	< 3	288	< 0.5	0.11	4.2	0.7	30	< 1	9	14.5	40	13	2.4
315616	< 5	1.42	10	0.46	292	2.38	0.046	103	< 0.1	5.8	< 3	350	< 0.5	0.21	5.8	0.8	35	< 1	12	23.5	42	17	3.7
315617	< 5	1.42	16	0.63	303	2.18	0.015	72	0.3	7.6	< 3	311	< 0.5	0.23	5.4	0.7	43	< 1	10	18.1	35	13	2.8
315618	< 5	1.42	14	0.52	263	1.99	0.042	60	< 0.1	5.7	< 3	311	< 0.5	0.24	4.9	< 0.5	48	< 1	9	15.2	38	12	2.5
315619	< 5	1.78	17	0.44	237	1.94	0.058	59	0.2	5.7	< 3	287	< 0.5	0.23	4.8	0.8	50	< 1	9	17.1	42	13	2.6
315620	< 5	1.76	15	0.53	269	2.13	0.033	81	0.1	6.3	< 3	309	< 0.5	0.16	4.8	1.6	42	< 1	9	17.3	42	10	2.6
315621	< 5	1.71	13	0.76	328	2.10	0.023	80	< 0.1	7.8	< 3	292	< 0.5	0.12	5.8	0.8	30	< 1	10	18.1	41	17	2.9
315622	< 5	1.86	14	0.59	257	2.08	0.009	86	< 0.1	6.2	< 3	303	< 0.5	0.05	4.8	1.5	10	< 1	8	15.5	31	12	2.3
315623	< 5	1.46	15	0.73	312	1.69	0.033	46	0.3	9.6	< 3	231	< 0.5	0.12	3.9	0.5	38	< 1	9	12.1	25	7	2.6
315624	< 5	1.34	14	0.84	347	1.65	0.042	31	< 0.1	10.4	< 3	225	< 0.5	0.33	3.8	< 0.5	94	< 1	9	12.0	26	12	2.5
315625	< 5	1.31	20	1.46	634	1.45	0.115	107	0.1	9.9	< 3	421	3.5	0.45	8.2	2.5	59	< 1	21	40.5	73	36	8.1
315626	< 5	1.45	16	0.62	298	1.90	0.024	64	< 0.1	6.7	< 3	294	< 0.5	0.26	4.8	0.6	61	< 1	10	17.1	33	14	3.1
315627	< 5	1.57	12	0.62	290	2.03	0.042	77	0.2	6.6	< 3	313	< 0.5	0.23	4.3	0.6	52	< 1	10	14.3	40	10	2.8
315628	< 5	1.34	13	0.50	253	1.79	0.043	< 15	< 0.1	6.2	< 3	277	< 0.5	0.25	5.3	0.7	51	< 1	9	16.2	35	10	3.2
315629	< 5	1.48	11	0.44	235	2.01	0.036	74	< 0.1	4.7	< 3	342	< 0.5	0.22	4.1	0.6	39	< 1	9	14.4	29	9	2.7
315630	< 5	1.57	11	0.55	266	2.07	0.050	74	< 0.1	5.5	< 3	339	< 0.5	0.21	3.7	0.9	44	< 1	9	13.1	28	12	2.7
315631	< 5	1.53	11	0.60	278	2.17	0.023	64	0.2	6.2	< 3	327	< 0.5	0.24	4.3	1.5	42	< 1	9	15.1	32	9	3.0
315632	< 5	1.42	12	0.78	325	1.91	0.056	55	< 0.1	8.8	< 3	272	< 0.5	0.25	4.4	< 0.5	68	< 1	10	15.5	36	12	3.1
315633	< 5	1.40	14	0.47	249	1.69	0.131	64	0.3	8.4	< 3	265	< 0.5	0.14	7.4	2.5	33	< 1	24	41.5	81	44	9.1
315634	< 5	1.41	19	0.69	558	2.18	0.025	114	0.1	10.6	< 3	321	< 0.5	0.25	6.4	1.8	53	< 1	22	39.7	57	40	7.3
315635	< 5	1.55	14	0.53	258	2.04	0.024	106	< 0.1	6.5	< 3	305	< 0.5	0.25	5.0	1.3	52	< 1	9	15.3	34	12	2.9
315636	< 5	1.50	16	0.64	328	2.10	0.037	59	< 0.1	7.0	< 3	311	< 0.5	0.26	4.1	0.6	57	< 1	9	13.6	31	11	2.7
315637	< 5	1.49	16	0.55	263	1.86	0.041	36	0.2	6.3	< 3	291	< 0.5	0.25	4.6	1.3	56	< 1	9	14.2	32	12	2.8
315638	< 5	1.44	14	0.55	279	2.18	0.019	76	< 0.1	6.6	< 3	323	< 0.5	0.26	5.2	1.3	48	< 1	10	18.4	38	14	3.6
315639	< 5	1.38	15	0.55	260	1.83	0.005	84	< 0.1	7.0	< 3	265	< 0.5	0.31	4.4	1.3	69	< 1	9	15.6	31	15	2.9
315640	< 5	0.61	14	2.26	1270	2.46	0.082	52	< 0.1	14.4	< 3	887	< 0.5	0.32	3.6	< 0.5	130	< 1	11	10.3	27	7	2.7
315641	< 5	0.08	1	0.20	72	0.09	0.119	< 15	0.1	3.6	< 3	50	< 0.5	0.04	3.1	1.6	16	< 1	14	26.7	51	34	5.1
315642	< 5	1.62	10	0.56	295	2.36	0.060	22	0.2	6.6	< 3	357	< 0.5	0.24	4.8	1.2	45	< 1	13	22.5	39	20	4.6

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315643	< 5	1.67	18	0.49	245	1.75	0.022	70	0.3	7.1	< 3	256	< 0.5	0.10	5.5	1.4	28	< 1	9	16.5	34	11	3.2
315644	< 5	1.67	22	0.65	333	1.91	0.052	44	< 0.1	9.5	< 3	292	< 0.5	0.28	7.9	1.6	55	< 1	19	36.8	77	25	7.7
315645	< 5	2.10	11	0.52	302	2.26	0.041	104	< 0.1	6.7	< 3	337	< 0.5	0.24	5.6	< 0.5	48	< 1	13	21.3	45	17	4.2
315646	< 5	0.99	18	0.64	1000	1.09	0.137	38	0.1	10.8	< 3	200	< 0.5	0.26	7.9	3.2	73	< 1	21	41.6	72	36	7.9
315647	< 5	1.53	15	0.58	293	1.82	0.034	83	< 0.1	6.9	< 3	281	< 0.5	0.28	5.1	0.6	56	< 1	10	15.6	32	12	3.0
315648	< 5	1.50	13	0.75	363	1.77	0.035	< 15	< 0.1	9.6	< 3	256	< 0.5	0.25	4.3	< 0.5	99	< 1	10	13.6	28	8	2.8
315649	< 5	1.44	13	0.79	378	1.73	0.033	72	< 0.1	9.9	< 3	252	< 0.5	0.22	4.0	1.1	99	< 1	10	12.9	26	9	2.6
315650	< 5	0.21	14	0.25	414	0.11	0.020	23	0.5	56.6	< 3	31	< 0.5	0.59	8.0	< 0.5	211	< 1	11	12.3	25	11	2.9
315651	< 5	1.60	12	1.12	463	2.00	0.028	64	< 0.1	10.5	< 3	279	< 0.5	0.17	3.4	1.1	50	< 1	11	12.4	27	11	2.7
315652	< 5	1.59	16	0.78	357	1.81	0.030	36	< 0.1	8.9	< 3	254	< 0.5	0.14	4.6	1.8	43	< 1	10	14.9	32	9	2.9
315653	< 5	1.79	16	1.22	415	2.15	0.030	146	< 0.1	9.7	< 3	316	< 0.5	0.18	4.4	1.3	49	< 1	11	17.6	36	13	3.5
315654	< 5	1.48	12	0.51	259	2.16	0.014	74	< 0.1	5.9	< 3	329	< 0.5	0.22	4.4	1.6	41	< 1	9	14.9	31	10	3.0
315655	< 5	1.54	15	0.71	333	2.11	0.037	< 15	< 0.1	7.6	< 3	310	< 0.5	0.22	5.3	< 0.5	52	< 1	10	16.5	45	12	3.2
315656	< 5	1.68	15	0.88	394	1.98	0.021	53	0.2	9.0	< 3	331	< 0.5	0.10	5.4	0.7	31	< 1	10	13.6	32	13	2.7
315657	< 5	1.50	20	1.14	532	1.90	0.035	< 15	0.1	12.5	< 3	304	< 0.5	0.16	4.4	1.1	50	< 1	12	12.6	34	9	2.8
315658	< 5	1.53	14	0.76	375	2.33	0.014	< 15	< 0.1	7.1	< 3	288	< 0.5	0.09	4.0	< 0.5	20	< 1	8	12.4	31	12	2.5
315659	< 5	1.47	15	0.82	377	2.12	0.038	35	< 0.1	8.4	< 3	334	< 0.5	0.25	4.6	< 0.5	64	< 1	10	13.4	27	7	2.8
315660	< 5	1.34	14	1.44	572	1.92	0.032	< 15	0.2	10.4	< 3	337	1.7	0.22	9.1	1.5	48	< 1	13	27.7	93	24	5.8
315661	< 5	1.58	14	0.58	295	1.98	0.039	53	0.1	6.2	< 3	323	< 0.5	0.26	4.9	< 0.5	52	< 1	11	15.7	37	13	3.1
315662	< 5	1.91	14	0.49	264	1.87	0.031	34	< 0.1	5.5	< 3	311	< 0.5	0.16	4.6	0.6	38	< 1	9	14.5	35	12	2.8
315663	< 5	2.01	12	0.49	286	2.06	0.028	90	< 0.1	5.3	< 3	325	< 0.5	0.13	4.9	1.2	26	< 1	9	14.7	30	11	2.7
315664	< 5	1.91	15	0.47	246	1.97	0.027	94	< 0.1	5.6	< 3	308	< 0.5	0.20	5.8	< 0.5	43	< 1	8	15.6	40	15	3.0
315665	< 5	1.91	15	0.48	252	1.87	0.033	49	0.2	5.4	< 3	296	< 0.5	0.17	5.9	1.7	37	< 1	8	15.5	33	12	2.7
315666	< 5	1.81	19	0.58	269	1.91	0.025	27	< 0.1	7.5	< 3	263	< 0.5	0.10	6.3	0.7	23	< 1	10	20.3	47	17	3.8
315667	< 5	1.42	16	0.49	242	1.83	0.034	37	0.2	6.4	< 3	265	< 0.5	0.26	6.1	0.7	56	< 1	9	17.7	42	13	3.3
315668	< 5	0.76	11	2.28	828	2.06	0.017	< 15	< 0.1	22.0	< 3	341	< 0.5	0.20	2.9	0.8	81	< 1	13	8.5	23	< 5	2.5
315669	< 5	1.62	16	0.59	274	1.96	0.017	26	< 0.1	6.2	< 3	292	< 0.5	0.26	6.0	0.8	52	< 1	9	15.3	38	12	3.0
315670	< 5	1.78	15	0.54	256	2.05	0.024	55	< 0.1	6.6	< 3	291	< 0.5	0.10	5.8	0.8	27	< 1	9	18.1	41	12	3.4
315671	< 5	1.95	12	0.60	292	2.23	0.010	23	< 0.1	6.6	< 3	316	< 0.5	0.18	4.9	< 0.5	30	< 1	8	14.9	32	9	2.8
315672	< 5	1.88	12	0.55	274	2.07	0.011	65	< 0.1	5.7	< 3	309	< 0.5	0.20	4.6	0.6	38	< 1	7	12.9	31	10	2.3
315673	< 5	1.95	13	0.61	314	2.19	0.034	106	< 0.1	6.3	< 3	326	< 0.5	0.16	4.5	0.6	33	< 1	9	14.6	31	13	2.9
315674	< 5	1.77	14	0.62	287	2.29	0.032	52	< 0.1	6.7	< 3	328	< 0.5	0.24	4.8	0.6	45	< 1	9	14.9	35	10	3.1
315675	< 5	0.10	7	0.03	127	0.15	0.003	< 15	0.2	0.7	< 3	8	< 0.5	0.02	2.3	< 0.5	5	< 1	3	3.5	9	< 5	0.8
315676	< 5	1.45	12	0.66	279	2.13	0.029	43	< 0.1	6.4	< 3	314	< 0.5	0.23	4.6	0.7	46	< 1	9	13.8	33	10	2.8
315677	< 5	1.72	14	0.44	291	1.83	0.093	< 15	< 0.1	6.8	< 3	281	< 0.5	0.15	7.2	1.8	34	< 1	18	31.0	84	30	7.4
315678	< 5	1.86	11	0.48	246	1.95	0.007	55	0.2	5.9	< 3	298	< 0.5	0.09	4.9	< 0.5	13	< 1	9	15.7	34	10	3.0
315679	< 5	1.98	15	0.47	245	1.87	0.031	57	0.1	5.5	< 3	300	< 0.5	0.12	5.2	< 0.5	25	< 1	10	16.1	44	14	3.3
315680	< 5	1.89	16	0.43	231	1.89	0.022	71	< 0.1	5.3	< 3	295	< 0.5	0.12	5.6	1.3	25	< 1	8	14.7	37	13	2.8
315681	< 5	1.66	14	0.71	316	1.70	0.019	66	< 0.1	7.8	< 3	256	< 0.5	0.10	4.6	2.3	30	< 1	9	13.3	32	8	2.4
315682	< 5	1.80	13	0.61	282	1.95	0.033	45	< 0.1	6.3	< 3	303	< 0.5	0.13	4.7	0.9	30	< 1	9	14.0	33	11	2.8
315683	< 5	1.83	15	0.62	298	1.95	0.038	56	< 0.1	6.2	< 3	318	< 0.5	0.23	5.3	0.9	48	< 1	10	17.7	41	13	3.2
315684	< 5	1.44	17	0.71	333	1.98	0.037	37	< 0.1	7.3	< 3	306	< 0.5	0.27	4.6	0.9	65	< 1	10	12.6	50	11	2.7
315685	< 5	1.74	12	0.64	333	1.99	0.045	36	< 0.1	7.4	< 3	295	< 0.5	0.25	4.7	0.7	64	< 1	9	12.2	34	12	2.6
315686	< 5	2.12	11	0.49	255	2.08	0.031	66	< 0.1	5.3	< 3	331	< 0.5	0.15	5.3	0.7	28	< 1	10	15.2	42	11	3.2
315687	< 5	2.03	12	0.51	260	2.15	0.029	51	< 0.1	5.8	< 3	318	< 0.5	0.16	6.1	1.8	30	< 1	9	15.7	47	11	2.6
315688	< 5	2.01	14	0.48	257	2.09	0.021	94	< 0.1	5.9	< 3	307	< 0.5	0.18	6.1	1.0	34	< 1	8	15.9	47	16	2.6
315689	< 5	1.91	16	0.61	296	2.07	0.017	36	< 0.1	6.9	< 3	308	< 0.5	0.10	4.9	1.0	22	< 1	9	15.1	36	13	2.7
315690	< 5	1.94	13	0.49	255	2.03	0.014	57	< 0.1	5.7	< 3	313	< 0.5	0.17	4.8	0.8	29	< 1	9	14.2	32	12	2.3
315691	< 5	1.38	13	0.57	288	1.95	0.037	< 15	0.1	7.1	< 3	287	< 0.5	0.26	5.1	1.3	60	< 1	9	13.5	39	11	2.3
315692	< 5	0.96	15	2.20	745	1.89	0.022	< 15	< 0.1	21.1	< 3	196	< 0.5	0.30	3.8	< 0.5	120	< 1	16	12.8	33	13	3.2
315693	< 5	1.45	11	0.52	350	2.18	0.048	68	< 0.1	5.6	< 3	346	< 0.5	0.23	6.1	0.8	43	< 1	10	15.8	63	13	3.0

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315694	< 5	1.84	14	0.84	420	2.12	0.053	72	< 0.1	9.1	< 3	319	< 0.5	0.24	5.6	1.9	59	< 1	13	18.2	58	16	3.4
315695	< 5	1.95	14	0.57	341	2.25	0.045	55	< 0.1	7.4	< 3	330	< 0.5	0.21	6.1	0.7	42	< 1	12	20.8	43	20	3.9
315696	< 5	1.85	17	0.78	389	2.19	0.014	51	0.1	8.9	< 3	307	< 0.5	0.24	4.7	1.2	50	< 1	10	14.3	37	15	2.6
315697	< 5	1.85	19	0.94	418	2.22	0.041	82	< 0.1	8.6	< 3	304	< 0.5	0.19	5.7	< 0.5	47	< 1	10	14.6	37	14	2.9
315698	< 5	1.95	13	0.52	280	2.32	0.027	33	< 0.1	6.0	< 3	319	< 0.5	0.16	5.5	2.3	30	< 1	9	16.5	38	9	3.2
315699	< 5	1.56	12	0.50	268	2.34	0.036	51	< 0.1	5.7	< 3	332	< 0.5	0.23	5.5	1.3	41	< 1	9	15.4	34	13	3.2
315700	< 5	1.36	19	1.42	615	1.61	0.109	71	0.5	10.4	< 3	409	1.7	0.23	9.2	2.5	37	< 1	20	38.6	77	39	8.1
315701	< 5	2.12	12	0.49	285	2.31	0.031	57	< 0.1	6.3	< 3	339	< 0.5	0.17	6.4	0.7	31	< 1	15	23.4	47	22	4.9
315702	< 5	2.07	12	0.47	245	2.27	0.019	47	< 0.1	5.5	< 3	314	< 0.5	0.14	5.4	0.9	24	< 1	8	13.6	41	11	2.8
315703	< 5	1.98	13	0.47	246	2.26	0.025	75	0.2	5.9	< 3	314	< 0.5	0.13	5.3	1.5	26	< 1	9	15.5	41	14	3.1
315704	< 5	1.84	15	0.56	261	1.99	0.017	79	0.1	6.2	< 3	293	< 0.5	0.07	5.7	1.3	18	< 1	8	14.9	36	12	2.8
315705	< 5	1.34	14	0.57	289	1.97	0.011	49	0.1	6.9	< 3	281	< 0.5	0.27	4.7	2.1	61	< 1	9	13.7	31	9	2.5
315706	< 5	1.21	29	0.92	427	2.15	0.058	21	0.2	9.1	< 3	488	< 0.5	0.37	6.5	2.3	92	< 1	10	15.3	41	13	3.5
315707	< 5	1.37	14	0.72	336	1.69	0.011	56	0.4	9.4	< 3	231	< 0.5	0.19	6.5	1.2	55	< 1	10	16.0	38	14	3.1
315708	< 5	1.85	15	0.45	231	1.82	0.015	84	< 0.1	5.8	< 3	293	< 0.5	0.11	5.1	1.1	25	< 1	9	17.5	39	15	2.6
315709	< 5	1.72	18	0.44	233	1.62	0.028	< 15	< 0.1	6.4	< 3	266	< 0.5	0.11	5.9	1.2	32	< 1	9	17.5	37	12	2.7
315710	< 5	1.95	13	0.45	226	1.98	0.023	85	< 0.1	5.4	< 3	324	< 0.5	0.18	4.9	< 0.5	36	< 1	9	16.7	32	14	2.7
315711	< 5	1.83	19	0.57	253	1.65	0.018	< 15	< 0.1	6.8	< 3	273	< 0.5	0.06	4.8	0.9	19	< 1	9	17.5	34	13	2.7
315712	< 5	1.09	12	1.26	499	1.28	0.036	< 15	0.5	13.0	< 3	182	< 0.5	0.11	4.6	0.8	57	3	10	11.9	28	< 5	2.1
315713	< 5	1.40	16	0.44	214	1.64	0.017	66	0.1	6.0	< 3	268	< 0.5	0.26	5.3	0.6	51	< 1	8	16.0	33	9	2.4
315714	< 5	1.58	19	0.54	224	1.38	0.025	86	0.1	5.8	< 3	239	< 0.5	0.22	5.0	1.2	49	< 1	9	15.5	30	12	2.3
315715	< 5	1.57	12	0.54	255	1.45	0.037	85	< 0.1	6.0	< 3	251	< 0.5	0.15	5.5	1.1	47	< 1	9	16.5	37	10	2.7
315716	< 5	1.82	13	0.46	231	1.82	0.019	< 15	0.1	5.8	< 3	290	< 0.5	0.09	5.5	1.7	27	< 1	10	19.2	42	10	3.1
315717	< 5	1.70	15	0.72	309	1.79	0.010	52	< 0.1	8.2	< 3	269	< 0.5	0.07	5.3	1.0	16	< 1	10	17.8	35	10	2.7
315718	< 5	1.38	12	0.71	336	1.77	0.014	105	0.2	7.9	< 3	284	< 0.5	0.31	5.1	1.3	70	< 1	9	16.0	35	< 5	2.5
315719	< 5	1.45	17	0.54	256	1.88	0.006	< 15	< 0.1	5.9	< 3	296	< 0.5	0.26	4.9	1.1	41	< 1	9	16.8	34	6	2.5
315720	< 5	0.97	17	0.48	1120	1.00	0.166	< 15	< 0.1	9.5	< 3	168	< 0.5	0.20	10.9	2.3	67	< 1	22	45.3	105	47	9.8
315721	< 5	1.95	11	0.60	281	2.10	0.041	< 15	< 0.1	6.3	< 3	332	< 0.5	0.21	3.8	< 0.5	42	< 1	9	14.9	29	9	2.7
315722	< 5	0.23	18	3.58	891	1.19	0.029	< 15	< 0.1	27.0	< 3	118	< 0.5	0.40	1.9	< 0.5	128	< 1	18	10.3	25	< 5	2.9
315723	< 5	1.52	19	0.79	416	1.75	0.055	< 15	0.2	11.3	< 3	269	< 0.5	0.24	7.2	2.2	64	< 1	23	53.9	106	35	8.3
315724	< 5	1.60	19	0.67	332	1.86	0.047	24	< 0.1	9.1	< 3	294	< 0.5	0.15	7.9	3.0	38	< 1	21	48.5	93	27	7.6
315725	< 5	0.19	13	0.24	406	0.11	0.020	16	0.5	54.0	< 3	29	< 0.5	0.62	7.4	1.6	224	< 1	11	12.7	26	< 5	2.4
315726	< 5	0.08	1	0.26	75	0.09	0.106	< 15	0.4	1.8	< 3	46	< 0.5	0.02	1.6	< 0.5	8	< 1	4	7.3	17	< 5	1.3
315727	< 5	1.55	22	0.65	318	1.79	0.016	22	< 0.1	8.3	< 3	275	< 0.5	0.20	6.0	0.5	43	< 1	10	17.6	38	10	3.0
315728	< 5	1.61	15	0.55	272	1.42	0.021	58	< 0.1	7.3	< 3	225	< 0.5	0.11	5.4	2.1	36	< 1	9	15.6	33	8	2.3
315729	< 5	1.73	14	0.48	250	1.75	0.023	28	< 0.1	6.1	< 3	288	< 0.5	0.22	5.4	< 0.5	49	< 1	8	16.5	41	9	2.6
315730	< 5	1.80	18	0.42	219	1.56	0.035	18	< 0.1	5.5	< 3	265	< 0.5	0.27	5.1	0.7	57	< 1	8	14.7	35	11	3.0
315731	< 5	1.77	16	0.50	257	1.87	0.045	< 15	< 0.1	6.3	< 3	288	< 0.5	0.20	4.7	1.5	45	< 1	9	15.4	44	9	3.2
315732	< 5	1.76	16	0.49	232	1.63	0.036	58	0.2	5.9	< 3	272	< 0.5	0.19	5.2	2.2	41	< 1	9	16.0	37	14	3.2
315733	< 5	1.38	12	0.46	255	1.79	0.027	33	< 0.1	5.6	< 3	312	< 0.5	0.25	5.8	< 0.5	47	< 1	9	16.6	44	12	3.3
315734	< 5	1.40	13	0.59	302	1.69	0.011	19	< 0.1	7.2	< 3	270	< 0.5	0.26	4.3	1.1	56	< 1	9	15.1	31	8	3.0
315735	< 5	1.69	10	0.46	224	1.74	0.008	36	0.2	5.8	< 3	275	< 0.5	0.20	3.9	0.6	31	< 1	8	13.1	29	9	2.6
315736	< 5	1.83	14	0.65	293	1.52	0.018	91	< 0.1	6.9	< 3	272	< 0.5	0.08	4.0	< 0.5	23	< 1	8	13.2	29	9	2.6
315737	< 5	1.98	12	0.51	248	1.84	0.019	85	< 0.1	5.3	< 3	325	< 0.5	0.13	3.6	< 0.5	24	< 1	9	14.0	31	10	3.0
315738	< 5	1.80	17	0.75	343	2.08	0.054	62	< 0.1	6.9	< 3	333	< 0.5	0.13	4.0	0.7	33	< 1	9	12.4	26	6	3.0
315739	< 5	1.73	16	0.47	251	1.69	0.017	< 15	< 0.1	6.1	< 3	274	< 0.5	0.08	4.7	< 0.5	19	< 1	9	15.5	35	12	3.1
315740	< 5	1.64	12	0.70	325	1.55	0.016	63	< 0.1	8.1	< 3	245	< 0.5	0.07	4.9	1.0	23	< 1	10	14.4	33	11	2.4
315741	< 5	1.73	18	0.62	278	1.78	0.028	67	0.3	7.6	< 3	273	< 0.5	0.12	4.8	1.0	33	< 1	10	16.0	41	9	2.8
315742	< 5	1.71	15	0.52	244	1.81	0.009	< 15	< 0.1	6.0	< 3	291	< 0.5	0.19	3.8	0.8	34	< 1	8	12.9	26	8	2.2
315743	< 5	1.79	14	0.56	269	1.74	0.023	106	< 0.1	6.0	< 3	294	< 0.5	0.20	4.1	< 0.5	45	< 1	8	12.6	31	8	2.2
315744	< 5	1.79	23	0.59	476	1.64	0.039	17	< 0.1	6.7	< 3	265	< 0.5	0.16	5.8	2.0	36	< 1	11	19.8	46	13	3.6

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315745	< 5	1.78	15	0.41	208	1.68	0.018	137	< 0.1	5.3	< 3	273	< 0.5	0.07	5.4	0.5	16	< 1	8	15.1	29	7	2.4
315746	< 5	1.82	14	0.53	254	1.79	0.035	25	< 0.1	5.8	< 3	300	< 0.5	0.14	3.9	< 0.5	34	< 1	9	13.4	30	9	2.4
315747	< 5	1.90	15	0.56	262	1.78	0.016	66	0.2	5.7	< 3	319	< 0.5	0.09	4.4	< 0.5	18	< 1	9	14.1	29	8	2.4
315748	< 5	1.89	12	0.46	247	1.89	0.029	65	< 0.1	5.4	< 3	313	< 0.5	0.20	4.6	0.6	38	< 1	9	16.3	38	13	2.8
315749	< 5	1.49	12	0.47	251	1.90	0.025	26	< 0.1	5.5	< 3	321	< 0.5	0.23	5.1	1.6	43	< 1	9	16.0	35	9	2.6
315750	< 5	0.09	8	0.03	131	0.11	0.003	< 15	0.2	0.6	< 3	6	< 0.5	0.02	1.6	< 0.5	5	< 1	3	3.0	7	< 5	0.5
315751	< 5	1.85	12	0.47	239	2.07	0.040	44	0.1	5.3	< 3	319	< 0.5	0.21	4.7	< 0.5	42	< 1	9	15.2	33	9	3.0
315752	< 5	1.69	14	0.76	374	2.07	0.034	23	< 0.1	8.6	< 3	310	< 0.5	0.14	5.1	< 0.5	43	< 1	10	15.8	32	11	3.2
315753	< 5	1.57	13	0.58	354	1.53	0.011	76	< 0.1	8.5	< 3	232	< 0.5	0.14	4.6	1.6	29	< 1	11	14.4	31	8	2.8
315754	< 5	1.54	14	0.45	250	1.59	0.050	23	0.2	6.5	< 3	262	< 0.5	0.23	5.3	0.6	57	< 1	8	14.4	34	11	2.8
315755	< 5	1.62	16	0.66	327	1.83	0.026	33	< 0.1	8.6	< 3	266	< 0.5	0.13	5.7	0.5	38	< 1	9	15.1	34	11	3.1
315756	< 5	1.47	18	0.47	239	1.74	0.028	21	< 0.1	6.1	< 3	266	< 0.5	0.27	4.8	0.7	60	< 1	8	15.0	35	11	2.8
315757	< 5	1.53	12	0.70	328	2.11	0.014	36	< 0.1	7.4	< 3	309	< 0.5	0.24	3.6	0.5	55	< 1	8	11.9	26	8	2.5
315758	< 5	1.89	20	0.61	281	1.90	0.013	37	0.1	6.4	< 3	291	< 0.5	0.07	4.4	0.5	17	< 1	10	16.0	32	11	3.3
315759	< 5	1.76	18	0.44	233	1.83	0.020	36	< 0.1	6.5	< 3	286	< 0.5	0.10	6.2	0.8	24	< 1	9	17.9	38	11	3.6
315760	< 5	1.83	20	0.58	271	1.81	0.014	31	< 0.1	7.1	< 3	264	< 0.5	0.08	6.3	0.5	17	< 1	10	19.9	46	16	3.9
315761	< 5	1.46	13	0.59	291	1.41	0.018	45	0.4	7.8	< 3	234	< 0.5	0.10	6.4	1.9	30	< 1	10	16.3	36	8	3.0
315762	< 5	1.53	23	0.64	277	1.50	0.031	< 15	0.4	7.4	< 3	291	< 0.5	0.09	8.3	2.1	34	< 1	10	19.1	42	14	3.7
315763	< 5	1.89	16	0.51	243	1.91	0.003	39	0.2	5.8	< 3	292	< 0.5	0.14	5.4	1.1	15	< 1	9	14.6	31	13	2.7
315764	< 5	1.56	17	0.57	255	1.95	0.008	48	< 0.1	5.7	< 3	295	< 0.5	0.24	4.9	1.9	43	< 1	8	14.1	30	8	2.7
315765	< 5	1.62	26	0.50	271	1.83	0.029	< 15	0.2	5.6	< 3	288	< 0.5	0.18	4.9	0.9	33	< 1	10	16.6	36	17	3.6
315766	< 5	1.89	14	0.60	266	1.76	0.007	64	0.2	6.1	< 3	272	< 0.5	0.04	5.5	1.2	12	< 1	8	14.6	34	9	2.7
315767	< 5	1.86	19	0.50	233	1.84	0.011	72	0.2	5.4	< 3	272	< 0.5	0.05	5.2	1.1	13	< 1	8	15.1	32	13	2.9
315768	< 5	1.77	8	0.66	302	1.73	0.007	28	0.2	6.5	< 3	278	< 0.5	0.11	4.3	1.2	15	< 1	7	11.0	21	6	2.1
315769	< 5	1.96	13	0.54	253	1.90	0.005	31	0.1	5.2	< 3	298	< 0.5	0.11	5.5	1.7	16	< 1	9	14.6	31	10	2.8
315770	< 5	1.62	17	0.59	265	1.93	0.005	86	< 0.1	5.9	< 3	297	0.6	0.25	4.8	1.5	45	< 1	8	13.5	28	8	2.7
315771	< 5	1.50	18	0.46	212	1.71	0.013	55	0.3	5.1	< 3	260	< 0.5	0.29	5.3	1.1	70	< 1	8	14.0	30	10	2.7
315772	< 5	1.47	21	0.95	285	1.90	0.014	50	0.1	6.4	< 3	274	< 0.5	0.26	5.7	2.3	44	< 1	10	17.2	37	17	3.6
315773	< 5	1.45	14	0.77	282	2.05	0.017	62	0.3	6.1	< 3	298	< 0.5	0.27	4.9	1.5	45	< 1	9	14.7	32	11	3.0
315774	< 5	1.52	14	0.76	279	2.08	0.020	65	0.2	6.1	< 3	304	< 0.5	0.26	4.6	1.6	44	< 1	9	14.8	32	12	3.1
315775	< 5	1.49	20	1.45	606	1.55	0.112	90	0.1	9.9	< 3	413	< 0.5	0.45	8.6	2.0	58	< 1	20	38.5	76	35	8.5

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315388	< 0.02	< 0.5	1.0	0.05	26.8
315389	< 0.02	< 0.5	1.1	0.07	27.6
315390	< 0.02	< 0.5	1.3	0.08	30.5
315391	< 0.02	< 0.5	1.2	0.07	29.5
315392	< 0.02	< 0.5	2.2	0.10	22.8
315393	< 0.02	< 0.5	0.9	0.06	37.6
315394	< 0.02	< 0.5	1.0	0.07	34.8
315395	< 0.02	< 0.5	2.0	0.12	21.0
315396	< 0.02	< 0.5	1.9	0.14	16.3
315397	< 0.02	< 0.5	1.0	0.08	36.1
315398	< 0.02	< 0.5	1.0	0.07	33.3
315399	< 0.02	< 0.5	1.0	0.06	32.9
315400	< 0.02	< 0.5	0.4	< 0.05	24.9
315401	< 0.02	< 0.5	0.9	< 0.05	30.4
315402	< 0.02	< 0.5	1.0	0.06	35.7
315403	< 0.02	< 0.5	1.3	0.06	36.4
315404	< 0.02	< 0.5	1.2	0.08	28.4
315405	< 0.02	< 0.5	0.9	0.05	37.3
315406	< 0.02	< 0.5	1.3	0.07	36.4
315407	< 0.02	< 0.5	1.3	0.07	30.6
315408	< 0.02	< 0.5	1.1	0.07	32.4
315409	< 0.02	< 0.5	1.0	0.07	31.8
315410	< 0.02	< 0.5	1.0	0.07	28.4
315411	< 0.02	< 0.5	1.2	0.08	29.0
315412	< 0.02	< 0.5	1.0	0.07	31.8
315413	< 0.02	< 0.5	1.2	0.06	33.5
315414	< 0.02	< 0.5	0.5	< 0.05	10.7
315415	< 0.02	< 0.5	0.2	< 0.05	9.37
315416	0.02	< 0.5	1.2	0.06	28.7
315417	< 0.02	< 0.5	1.5	0.10	30.0
315418	< 0.02	< 0.5	1.1	0.07	35.0
315419	< 0.02	< 0.5	1.1	0.08	29.8
315420	< 0.02	< 0.5	0.9	0.06	28.2
315421	< 0.02	< 0.5	1.1	0.06	30.2
315422	< 0.02	< 0.5	1.2	0.08	36.2
315423	< 0.02	< 0.5	1.2	0.06	28.9
315424	< 0.02	< 0.5	1.3	0.06	29.0
315425	< 0.02	0.5	1.6	0.09	28.0
315426	< 0.02	< 0.5	1.4	0.06	29.2
315427	< 0.02	< 0.5	1.0	0.05	31.6
315428	< 0.02	< 0.5	1.0	0.07	27.0
315429	< 0.02	< 0.5	1.1	0.08	26.5
315430	< 0.02	< 0.5	1.2	0.06	29.9
315431	< 0.02	< 0.5	1.1	0.06	32.3
315432	< 0.02	< 0.5	1.3	0.06	29.7
315433	< 0.02	< 0.5	1.7	0.12	26.1
315434	< 0.02	< 0.5	1.6	0.08	29.5
315435	< 0.02	< 0.5	1.2	0.07	37.9
315436	< 0.02	< 0.5	1.9	0.11	27.0
315437	< 0.02	< 0.5	1.7	0.09	26.6
315438	< 0.02	< 0.5	1.2	0.07	31.3

Results

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Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315439	< 0.02	< 0.5	1.3	0.10	30.6
315440	< 0.02	< 0.5	1.7	0.12	31.9
315441	< 0.02	< 0.5	1.2	0.06	38.8
315442	< 0.02	< 0.5	1.0	0.06	37.0
315443	< 0.02	< 0.5	1.3	0.06	32.1
315444	< 0.02	< 0.5	1.1	0.05	29.5
315445	< 0.02	< 0.5	1.1	0.06	36.0
315446	< 0.02	< 0.5	1.3	0.07	30.7
315447	< 0.02	< 0.5	1.4	0.07	34.4
315448	< 0.02	< 0.5	1.2	0.07	35.4
315449	< 0.02	< 0.5	1.1	< 0.05	33.7
315450	< 0.02	< 0.5	2.0	0.12	24.5
315451	< 0.02	< 0.5	1.3	0.06	34.2
315452	< 0.02	< 0.5	1.1	0.05	35.3
315453	< 0.02	< 0.5	1.3	0.07	29.8
315454	< 0.02	< 0.5	1.1	0.07	36.7
315455	< 0.02	< 0.5	1.1	0.05	33.1
315456	< 0.02	< 0.5	1.3	0.07	33.4
315457	< 0.02	< 0.5	1.5	0.09	35.6
315458	< 0.02	< 0.5	1.2	0.08	30.8
315459	< 0.02	< 0.5	1.0	0.06	31.5
315460	< 0.02	< 0.5	1.2	0.07	35.4
315461	< 0.02	< 0.5	1.4	0.07	33.3
315462	< 0.02	< 0.5	1.3	0.07	29.4
315463	0.03	< 0.5	2.0	0.08	27.9
315464	< 0.02	< 0.5	1.2	0.06	32.2
315465	< 0.02	< 0.5	1.2	0.07	27.6
315466	< 0.02	< 0.5	0.9	0.07	34.5
315467	< 0.02	< 0.5	1.2	< 0.05	33.4
315468	< 0.02	< 0.5	1.3	0.07	27.2
315469	0.02	< 0.5	1.2	0.07	39.6
315470	< 0.02	< 0.5	1.3	0.07	27.1
315471	< 0.02	< 0.5	1.2	0.07	33.7
315472	< 0.02	< 0.5	1.1	0.07	29.8
315473	< 0.02	< 0.5	1.0	0.05	31.5
315474	< 0.02	< 0.5	1.2	0.06	30.7
315475	< 0.02	< 0.5	0.4	< 0.05	25.8
315476	< 0.02	< 0.5	1.1	0.05	35.4
315477	< 0.02	< 0.5	1.1	0.08	33.5
315478	< 0.02	< 0.5	0.9	0.07	29.3
315479	< 0.02	< 0.5	1.0	0.08	33.5
315480	< 0.02	< 0.5	1.2	0.07	34.2
315481	< 0.02	< 0.5	1.0	0.05	35.3
315482	< 0.02	< 0.5	1.0	0.05	32.7
315483	< 0.02	< 0.5	1.1	0.06	32.4
315484	< 0.02	< 0.5	1.4	< 0.05	25.9
315485	0.03	< 0.5	1.1	0.07	33.8
315486	< 0.02	< 0.5	1.4	0.09	27.8
315487	< 0.02	< 0.5	1.1	0.06	32.5
315488	< 0.02	< 0.5	1.1	0.07	32.7
315489	< 0.02	< 0.5	1.2	0.06	34.3

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315490	< 0.02	< 0.5	1.1	0.06	32.5
315491	< 0.02	< 0.5	1.1	0.07	38.1
315492	< 0.02	< 0.5	1.2	0.05	32.0
315493	< 0.02	< 0.5	1.6	0.09	24.1
315494	< 0.02	< 0.5	1.1	0.08	28.4
315495	< 0.02	< 0.5	1.3	0.06	30.1
315496	< 0.02	< 0.5	1.0	0.06	34.7
315497	< 0.02	< 0.5	1.2	0.07	30.3
315498	< 0.02	< 0.5	1.0	0.07	30.6
315499	< 0.02	< 0.5	1.2	0.06	32.1
315500	< 0.02	< 0.5	1.7	0.08	30.0
315501	< 0.02	< 0.5	1.4	0.08	34.0
315502	< 0.02	< 0.5	1.3	0.07	36.8
315503	< 0.02	0.9	1.8	0.12	25.1
315504	< 0.02	2.0	4.3	0.33	11.7
315505	< 0.02	< 0.5	1.2	0.07	38.3
315506	< 0.02	< 0.5	1.5	0.06	35.8
315507	< 0.02	0.8	2.0	0.11	33.0
315508	< 0.02	< 0.5	1.2	0.06	31.3
315509	< 0.02	< 0.5	1.4	0.06	34.2
315510	< 0.02	< 0.5	1.3	0.07	32.1
315511	< 0.02	< 0.5	1.6	0.10	33.7
315512	< 0.02	< 0.5	1.2	0.06	30.4
315513	< 0.02	< 0.5	1.3	0.08	37.3
315514	< 0.02	< 0.5	1.1	0.06	35.4
315515	< 0.02	< 0.5	1.3	0.06	35.3
315516	< 0.02	< 0.5	1.2	0.07	34.9
315517	< 0.02	< 0.5	1.2	0.06	37.1
315518	< 0.02	< 0.5	1.2	0.07	27.7
315519	< 0.02	< 0.5	1.2	0.08	32.9
315520	< 0.02	< 0.5	1.6	0.10	28.9
315521	< 0.02	< 0.5	1.1	0.06	33.2
315522	< 0.02	< 0.5	1.1	0.07	28.9
315523	< 0.02	< 0.5	1.1	0.06	34.2
315524	0.02	< 0.5	1.2	0.07	34.5
315525	< 0.02	< 0.5	0.3	0.06	23.6
315526	< 0.02	< 0.5	1.1	0.05	32.3
315527	< 0.02	< 0.5	1.1	0.06	32.1
315528	< 0.02	< 0.5	0.8	0.06	34.6
315529	< 0.02	< 0.5	1.0	0.06	31.9
315530	< 0.02	< 0.5	1.1	0.07	32.1
315531	< 0.02	< 0.5	1.2	0.06	31.3
315532	< 0.02	< 0.5	1.2	0.06	35.3
315533	< 0.02	0.6	1.2	0.08	8.92
315534	< 0.02	< 0.5	0.9	0.06	28.7
315535	< 0.02	< 0.5	1.2	0.08	32.9
315536	0.02	< 0.5	1.1	0.05	32.6
315537	< 0.02	< 0.5	1.1	0.09	30.8
315538	< 0.02	< 0.5	1.4	0.07	32.4
315539	< 0.02	< 0.5	1.4	0.09	28.4
315540	< 0.02	< 0.5	1.8	0.10	29.6

Results

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Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315541	< 0.02	< 0.5	1.1	0.06	32.8
315542	< 0.02	< 0.5	1.2	0.09	32.4
315543	< 0.02	< 0.5	1.2	0.06	36.1
315544	< 0.02	< 0.5	0.9	0.12	30.5
315545	< 0.02	< 0.5	0.9	0.09	33.0
315546	< 0.02	< 0.5	1.3	0.12	33.0
315547	< 0.02	< 0.5	1.3	0.10	31.7
315548	< 0.02	< 0.5	1.0	0.06	39.2
315549	< 0.02	< 0.5	1.0	< 0.05	42.8
315550	< 0.02	< 0.5	1.4	0.06	35.2
315551	< 0.02	< 0.5	1.1	0.06	35.3
315552	< 0.02	< 0.5	1.3	0.06	40.3
315553	< 0.02	< 0.5	0.7	< 0.05	11.5
315554	< 0.02	< 0.5	0.3	< 0.05	11.7
315555	< 0.02	< 0.5	0.9	< 0.05	10.9
315556	< 0.02	< 0.5	1.5	0.07	14.7
315557	< 0.02	< 0.5	0.3	0.05	9.15
315558	< 0.02	< 0.5	0.6	0.09	7.95
315559	< 0.02	< 0.5	1.7	0.06	14.8
315560	< 0.02	< 0.5	1.3	0.10	38.4
315561	< 0.02	< 0.5	1.0	0.07	36.8
315562	< 0.02	< 0.5	1.4	0.07	34.9
315563	< 0.02	< 0.5	1.4	0.07	38.8
315564	< 0.02	< 0.5	1.2	0.07	36.1
315565	< 0.02	< 0.5	1.2	0.05	38.5
315566	< 0.02	< 0.5	1.2	0.05	42.9
315567	< 0.02	< 0.5	1.2	0.07	34.9
315568	< 0.02	< 0.5	0.9	0.08	37.3
315569	< 0.02	< 0.5	1.2	0.05	34.5
315570	< 0.02	< 0.5	1.5	0.08	36.4
315571	< 0.02	< 0.5	1.0	0.06	40.3
315572	< 0.02	< 0.5	1.1	0.05	32.1
315573	< 0.02	< 0.5	1.1	0.05	38.3
315574	< 0.02	< 0.5	1.0	0.07	38.3
315575	< 0.02	< 0.5	2.3	0.14	8.98
315576	< 0.02	< 0.5	1.7	0.11	44.8
315577	< 0.02	< 0.5	1.4	0.06	35.6
315578	< 0.02	< 0.5	1.1	0.06	44.3
315579	< 0.02	< 0.5	1.1	0.06	35.0
315580	0.04	< 0.5	1.2	0.07	38.9
315581	< 0.02	< 0.5	1.0	0.06	37.7
315582	< 0.02	< 0.5	1.3	0.07	39.6
315583	< 0.02	< 0.5	1.0	0.06	37.0
315584	< 0.02	< 0.5	1.0	0.06	37.4
315585	< 0.02	< 0.5	1.4	0.07	37.0
315586	< 0.02	< 0.5	1.0	0.07	43.9
315587	< 0.02	< 0.5	0.9	0.05	40.7
315588	< 0.02	< 0.5	1.1	0.07	37.2
315589	< 0.02	< 0.5	0.9	0.08	38.5
315590	< 0.02	< 0.5	0.9	< 0.05	39.3
315591	< 0.02	< 0.5	1.4	0.07	37.1

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315592	< 0.02	< 0.5	1.1	0.09	36.6
315593	< 0.02	< 0.5	0.9	0.06	38.7
315594	< 0.02	< 0.5	1.2	0.07	36.1
315595	< 0.02	< 0.5	1.2	0.07	42.3
315596	< 0.02	< 0.5	1.4	0.07	40.9
315597	< 0.02	< 0.5	1.1	0.06	36.4
315598	< 0.02	< 0.5	1.0	0.07	37.0
315599	< 0.02	< 0.5	1.1	0.11	37.1
315600	< 0.02	< 0.5	0.4	0.06	35.8
315601	< 0.02	< 0.5	1.3	0.17	33.4
315602	< 0.02	< 0.5	2.6	0.12	33.1
315603	< 0.02	< 0.5	0.9	0.06	40.5
315604	< 0.02	< 0.5	1.1	0.06	40.2
315605	< 0.02	< 0.5	1.1	0.07	35.5
315606	0.05	< 0.5	1.2	0.05	37.4
315607	< 0.02	< 0.5	1.1	0.06	37.2
315608	< 0.02	< 0.5	1.3	0.06	38.3
315609	< 0.02	< 0.5	1.1	0.07	35.8
315610	< 0.02	< 0.5	1.2	0.08	30.8
315611	< 0.02	< 0.5	1.2	0.06	33.8
315612	< 0.02	< 0.5	1.1	0.07	37.5
315613	0.04	< 0.5	1.2	0.07	36.2
315614	< 0.02	< 0.5	1.1	0.08	33.3
315615	< 0.02	< 0.5	1.3	0.07	31.2
315616	< 0.02	< 0.5	1.1	0.08	40.3
315617	< 0.02	< 0.5	1.4	0.08	35.9
315618	< 0.02	< 0.5	1.0	0.07	35.0
315619	< 0.02	< 0.5	1.3	0.06	31.1
315620	< 0.02	< 0.5	1.1	0.06	34.1
315621	< 0.02	< 0.5	1.5	0.10	36.9
315622	< 0.02	< 0.5	1.1	0.08	36.9
315623	< 0.02	< 0.5	1.4	0.07	32.6
315624	< 0.02	< 0.5	1.3	0.06	31.0
315625	< 0.02	0.9	1.5	0.08	31.2
315626	< 0.02	< 0.5	1.2	0.06	34.3
315627	< 0.02	< 0.5	1.0	0.05	36.6
315628	< 0.02	< 0.5	1.2	0.07	31.1
315629	< 0.02	< 0.5	0.9	< 0.05	41.1
315630	< 0.02	< 0.5	0.9	0.07	40.6
315631	< 0.02	< 0.5	1.1	0.08	40.9
315632	< 0.02	< 0.5	1.1	0.08	31.0
315633	< 0.02	< 0.5	2.3	0.11	25.0
315634	< 0.02	< 0.5	2.2	0.14	34.9
315635	< 0.02	< 0.5	1.1	0.07	38.0
315636	< 0.02	< 0.5	1.2	0.05	35.7
315637	< 0.02	< 0.5	1.0	0.06	36.9
315638	< 0.02	< 0.5	1.1	0.08	35.8
315639	< 0.02	< 0.5	1.3	0.08	32.5
315640	< 0.02	< 0.5	1.2	0.07	32.1
315641	< 0.02	< 0.5	1.1	0.07	12.2
315642	0.05	< 0.5	1.4	0.08	37.6

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315643	< 0.02	< 0.5	1.3	0.07	30.9
315644	< 0.02	< 0.5	1.8	0.21	28.7
315645	< 0.02	< 0.5	1.3	0.14	38.2
315646	< 0.02	< 0.5	1.8	0.19	18.2
315647	< 0.02	< 0.5	1.1	0.13	36.4
315648	< 0.02	< 0.5	1.1	0.11	33.2
315649	< 0.02	< 0.5	1.2	0.12	33.8
315650	< 0.02	< 0.5	1.4	0.17	22.1
315651	< 0.02	< 0.5	1.2	0.10	37.3
315652	< 0.02	< 0.5	1.3	0.13	30.6
315653	< 0.02	< 0.5	1.3	0.10	37.0
315654	< 0.02	< 0.5	1.0	0.11	37.6
315655	< 0.02	< 0.5	1.3	0.07	35.0
315656	< 0.02	< 0.5	1.2	0.06	34.0
315657	< 0.02	< 0.5	1.3	0.08	34.1
315658	< 0.02	< 0.5	1.2	0.05	36.1
315659	< 0.02	< 0.5	1.1	0.08	40.0
315660	< 0.02	< 0.5	1.3	0.05	39.0
315661	< 0.02	< 0.5	1.1	0.06	37.5
315662	< 0.02	< 0.5	0.9	0.05	36.9
315663	< 0.02	< 0.5	1.0	0.07	38.3
315664	< 0.02	< 0.5	1.1	0.05	34.1
315665	< 0.02	< 0.5	1.1	0.06	37.4
315666	< 0.02	< 0.5	1.3	0.07	29.9
315667	< 0.02	< 0.5	1.1	0.08	30.7
315668	< 0.02	< 0.5	1.8	0.05	31.8
315669	< 0.02	< 0.5	1.1	0.06	34.2
315670	< 0.02	< 0.5	1.1	0.07	35.0
315671	< 0.02	< 0.5	1.1	0.07	37.0
315672	< 0.02	< 0.5	1.0	0.05	38.8
315673	< 0.02	< 0.5	1.0	0.07	37.4
315674	< 0.02	< 0.5	1.1	0.06	41.1
315675	< 0.02	< 0.5	0.4	< 0.05	29.0
315676	< 0.02	< 0.5	0.9	0.06	36.1
315677	< 0.02	< 0.5	1.8	0.12	26.7
315678	< 0.02	< 0.5	1.1	0.08	35.4
315679	< 0.02	< 0.5	1.1	0.06	33.4
315680	< 0.02	< 0.5	1.0	0.06	35.3
315681	< 0.02	< 0.5	1.3	0.07	31.1
315682	< 0.02	< 0.5	1.2	0.05	39.7
315683	< 0.02	< 0.5	1.0	0.05	36.9
315684	< 0.02	< 0.5	0.9	0.06	33.1
315685	< 0.02	< 0.5	1.0	0.05	35.2
315686	< 0.02	< 0.5	1.0	0.06	36.3
315687	< 0.02	< 0.5	1.2	0.07	35.7
315688	< 0.02	< 0.5	1.2	0.07	33.4
315689	< 0.02	< 0.5	1.2	0.06	36.1
315690	< 0.02	< 0.5	1.2	0.07	36.0
315691	< 0.02	< 0.5	1.2	0.08	32.0
315692	< 0.02	< 0.5	1.9	0.09	34.7
315693	< 0.02	< 0.5	1.1	0.06	38.3

Results

Activation Laboratories Ltd.

Report: A21-19478

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315694	< 0.02	< 0.5	1.4	0.08	37.3
315695	< 0.02	< 0.5	1.2	0.07	37.0
315696	< 0.02	< 0.5	1.3	0.07	37.0
315697	< 0.02	< 0.5	1.3	0.09	37.7
315698	< 0.02	< 0.5	1.2	0.11	35.5
315699	< 0.02	< 0.5	1.0	0.10	36.2
315700	< 0.02	< 0.5	1.7	0.13	30.5
315701	< 0.02	< 0.5	1.5	0.15	37.7
315702	< 0.02	< 0.5	1.0	0.09	35.5
315703	< 0.02	< 0.5	1.1	0.10	36.9
315704	< 0.02	< 0.5	1.2	0.12	33.4
315705	< 0.02	< 0.5	1.3	0.10	33.3
315706	0.03	< 0.5	1.3	0.16	31.2
315707	< 0.02	< 0.5	1.4	0.14	28.3
315708	< 0.02	< 0.5	1.1	0.05	34.6
315709	< 0.02	< 0.5	1.2	0.05	31.0
315710	< 0.02	< 0.5	1.1	0.05	36.3
315711	< 0.02	< 0.5	1.2	0.06	32.7
315712	< 0.02	< 0.5	1.3	0.05	25.1
315713	< 0.02	< 0.5	1.2	0.07	31.4
315714	< 0.02	< 0.5	1.0	< 0.05	28.5
315715	< 0.02	< 0.5	1.0	< 0.05	26.9
315716	< 0.02	< 0.5	1.1	0.07	31.7
315717	< 0.02	< 0.5	1.5	0.07	30.5
315718	< 0.02	< 0.5	1.2	0.06	31.5
315719	< 0.02	< 0.5	1.4	0.07	33.4
315720	< 0.02	< 0.5	2.0	0.10	21.1
315721	< 0.02	< 0.5	1.0	0.06	38.5
315722	< 0.02	< 0.5	2.0	0.12	22.9
315723	< 0.02	< 0.5	2.0	0.08	26.7
315724	< 0.02	< 0.5	2.0	0.10	28.5
315725	< 0.02	< 0.5	1.8	< 0.05	23.7
315726	< 0.02	< 0.5	< 0.2	< 0.05	8.27
315727	< 0.02	< 0.5	1.3	0.07	33.8
315728	< 0.02	< 0.5	1.3	0.06	27.4
315729	< 0.02	< 0.5	1.4	0.06	33.6
315730	< 0.02	< 0.5	1.0	0.06	32.2
315731	< 0.02	< 0.5	1.0	0.05	30.8
315732	< 0.02	< 0.5	1.0	0.05	28.3
315733	< 0.02	< 0.5	1.0	0.06	33.5
315734	< 0.02	< 0.5	1.2	0.08	28.5
315735	< 0.02	< 0.5	0.9	0.06	31.0
315736	< 0.02	< 0.5	1.2	0.06	30.5
315737	< 0.02	< 0.5	1.0	0.05	36.9
315738	< 0.02	< 0.5	0.9	0.06	39.3
315739	< 0.02	< 0.5	1.1	0.06	30.8
315740	< 0.02	< 0.5	1.4	0.07	29.8
315741	< 0.02	< 0.5	1.3	0.05	33.0
315742	< 0.02	< 0.5	1.0	0.05	36.0
315743	< 0.02	< 0.5	1.0	0.05	33.5
315744	< 0.02	< 0.5	1.3	0.07	26.6

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
315745	< 0.02	< 0.5	1.2	0.05	33.1
315746	< 0.02	< 0.5	0.9	0.05	37.2
315747	< 0.02	< 0.5	0.9	0.05	38.2
315748	< 0.02	< 0.5	1.0	0.05	37.0
315749	< 0.02	< 0.5	1.2	0.06	38.8
315750	< 0.02	< 0.5	0.4	< 0.05	30.9
315751	< 0.02	< 0.5	0.9	0.09	39.9
315752	< 0.02	< 0.5	1.1	0.11	39.6
315753	< 0.02	< 0.5	1.5	0.13	31.5
315754	< 0.02	< 0.5	0.9	0.11	32.0
315755	< 0.02	< 0.5	1.1	0.12	31.8
315756	< 0.02	< 0.5	1.0	0.12	33.8
315757	< 0.02	< 0.5	0.9	0.08	39.6
315758	< 0.02	< 0.5	1.1	0.10	34.6
315759	< 0.02	< 0.5	1.3	0.16	31.8
315760	< 0.02	< 0.5	1.2	0.17	31.2
315761	< 0.02	< 0.5	1.3	0.11	28.8
315762	< 0.02	< 0.5	1.3	0.09	27.3
315763	< 0.02	< 0.5	1.0	0.10	33.9
315764	< 0.02	< 0.5	1.1	0.13	34.8
315765	< 0.02	< 0.5	1.1	0.10	32.2
315766	< 0.02	< 0.5	1.1	0.12	30.2
315767	< 0.02	< 0.5	1.1	0.13	31.2
315768	< 0.02	< 0.5	0.9	0.12	34.6
315769	< 0.02	< 0.5	1.0	0.11	37.8
315770	0.02	< 0.5	1.1	0.13	32.0
315771	< 0.02	< 0.5	1.2	0.11	29.2
315772	< 0.02	< 0.5	1.5	0.15	31.0
315773	< 0.02	< 0.5	1.0	0.10	36.1
315774	< 0.02	< 0.5	1.1	0.14	35.2
315775	< 0.02	< 0.5	1.6	0.07	27.1

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
Oreas 72a (4 Acid) Meas				312				6240				1.69											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				318				6370				1.70											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				326				6190				1.68											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
Oreas 72a (4 Acid) Meas				327				6250				1.69											
Oreas 72a (4 Acid) Cert				316				6930.00				1.74											
OREAS 101b (4 Acid) Meas				428		19	19	9															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 101b (4 Acid) Meas				407		18	23	9															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 101b (4 Acid) Meas				411		20	23	10															
OREAS 101b (4 Acid) Cert				412		20.1	23	8.2															
OREAS 98 (4 Acid) Meas		42.2		> 10000			285			1300		16.0					97						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		42.9		> 10000			288			1330		16.2					123						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		42.4		> 10000			266			1320		15.6					60						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 98 (4 Acid) Meas		42.1		> 10000			280			1310		16.3					56						
OREAS 98 (4 Acid) Cert		45.1		14800.0			345			1360		15.5					97.2						
OREAS 13b (4-Acid) Meas		0.7		2290		8		2120		125		1.19											
OREAS 13b (4-Acid) Cert		0.86		2327.000		9.0		2247.000		133		1.2											
OREAS 13b (4-Acid) Meas		1.0		2400		8		2130		107		1.19											
OREAS 13b (4-Acid) Cert		0.86		2327.000		9.0		2247.000		133		1.2											
OREAS 13b (4-Acid) Meas		0.9		2350		8		2120		105		1.19											
OREAS 13b (4-Acid) Cert		0.86		2327.000		9.0		2247.000		133		1.2											
OREAS 904 (4 Acid) Meas		0.8		6230		2	10	45		29		0.07	6.86			10	5		0.05				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
OREAS 904 (4 Acid) Cert		0.551		6120		2.12	10.6	40.1		26.3		0.0630	6.30			7.86	4.05		0.0460				
OREAS 45d (4-Acid) Meas				388		2	21	238		45		0.05	7.81			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 45d (4-Acid) Meas				375		1	23	237		46		0.04	8.00			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 45d (4-Acid) Meas				390		2	22	237		44		0.05	8.15			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
OREAS 96 (4 Acid) Meas		11.6		> 10000			88			461		4.47					24						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 96 (4 Acid) Meas		12.0		> 10000			93			452		4.32					15						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 96 (4 Acid) Meas		11.2		> 10000			88			446		4.11					24						
OREAS 96 (4 Acid) Cert		11.5		39300			101			457		4.19					26.3						
OREAS 923 (4 Acid) Meas		2.0		4330	0.5	< 1	83	39		366		0.74	7.68			2	13		0.51				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 923 (4 Acid) Meas		1.8		4310	< 0.3	< 1	77	42		362		0.71	7.44			2	15		0.50				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 923 (4 Acid) Meas		2.0		4430	0.4	1	94	39		355		0.70	7.41			2	19		0.49				
OREAS 923 (4 Acid) Cert		1.60		4230	0.420	0.930	83.0	35.8		345		0.691	7.29			2.42	21.4		0.473				
OREAS 621 (4 Acid) Meas		72.9		3640	286	13	> 5000	31		> 10000		4.85	5.55			2	6		2.08				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
OREAS 621 (4 Acid) Meas		72.8		3720	293	14	> 5000	28		> 10000		4.92	5.28			2	3		2.11				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
OREAS 621 (4 Acid) Meas		69.3		3480	280	14	> 5000	32		> 10000		4.71	5.31			1	3		2.07				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
OREAS 621 (4 Acid) Meas		70.9		3630	284	14	> 5000	27		> 10000		4.75	5.00			1	5		2.09				
OREAS 621 (4 Acid) Cert		69.0		3630	284	13.6	13600	26.2		52200		4.48	6.40			1.69	3.93		1.97				
Oreas 77b (4 Acid) Meas		1.5		3260	0.9		70	> 10000		184			1.79			< 1	10		2.59				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0	113000		205			1.94			0.470	3.44		3.06				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
Oreas 77b (4 Acid) Meas		1.6		3140	< 0.3		58	> 10000		178			1.65			< 1	3		2.59				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0	113000		205			1.94			0.470	3.44		3.06				
Oreas 77b (4 Acid) Meas		1.6		3130	< 0.3		60	> 10000		177			1.66			< 1	< 2		2.59				
Oreas 77b (4 Acid) Cert		1.62		3430	1.20		61.0	113000		205			1.94			0.470	3.44		3.06				
OREAS 681 (4 Acid) Meas		< 0.3		252		1	8	467		84		0.10	8.07			1	< 2		5.73				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		264		< 1	12	464		84		0.10	8.04			1	< 2		5.75				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		< 0.3		264		< 1	7	462		77		0.10	7.86			1	< 2		5.84				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas		0.4		265		< 1	9	466		78		0.10	8.06			1	< 2		5.83				
OREAS 681 (4 Acid) Cert		0.118		264		1.38	10.2	503		88.0		0.109	7.91			1.41	0.0980		5.98				
OREAS 681 (4 Acid) Meas				272																			
OREAS 681 (4 Acid) Cert				264																			
OREAS 247 (4 Acid) Meas		2.5		40	< 0.3	< 1	30	48		87		0.69	6.14			2	< 2		0.90				
OREAS 247 (4 Acid) Cert		2.16		42.2	0.0650	1.76	31.9	45.9		86.0		0.714	6.08			2.23	0.580		0.826				
OREAS 147 (4 Acid) Meas				297		3	24	22		151		0.02	5.20			35	7		1.19				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
OREAS 147 (4 Acid) Meas				301		5	29	24		147		0.03	5.21			31	9		1.23				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
OREAS 147 (4 Acid) Meas				297		4	29	23		147		0.02	5.17			31	8		1.24				
OREAS 147 (4 Acid) Cert				298		7.99	27.8	21.2		138		0.0300	4.90			31.2	12.5		1.09				
Oreas 521 (4 Acid) Meas		1.1		5820		124	13	70		25		1.75	4.78			< 1	8		3.75				
Oreas 521 (4 Acid) Cert		0.89		6070		138	9.3	73		24		1.80	4.77			0.9	6		3.86				
Oreas 521 (4 Acid) Meas		1.2		5700		109	18	69		25		1.65	4.56			< 1	2		3.70				
Oreas 521 (4 Acid) Cert		0.89		6070		138	9.3	73		24		1.80	4.77			0.9	6		3.86				
Oreas 521 (4 Acid) Meas		1.3		5710		131	15	67		22		1.66	4.56			< 1	4		3.69				
Oreas 521 (4 Acid) Cert		0.89		6070		138	9.3	73		24		1.80	4.77			0.9	6		3.86				
OREAS 70b (4 Acid) Meas		< 0.3		50	0.4	5	12	2000		104		0.30	3.89			< 1	< 2		2.94				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
OREAS 70b (4 Acid) Cert		0.2		52	0.4	3	14	2180		112		0.31	3.87			1	0.8		3.05				
OREAS 70b (4 Acid) Meas		0.5		49	< 0.3	2	18	2050		100		0.30	3.97			< 1	< 2		3.03				
OREAS 70b (4 Acid) Cert		0.2		52	0.4	3	14	2180		112		0.31	3.87			1	0.8		3.05				
OREAS 70b (4 Acid) Meas				51																			
OREAS 70b (4 Acid) Cert				52																			
DMMAS 124 Meas	2400								< 20					1550	550					61	111	2	0.6
DMMAS 124 Cert	2250								65.1					1590	351					57.4	113	2.33	0.713
315401 Orig		0.4		4	< 0.3	< 1	13	18		21		0.02	6.52			< 1	< 2		1.40				
315401 Dup		0.5		4	< 0.3	1	12	18		21		0.02	6.52			1	< 2		1.41				
315411 Orig		0.4		30	< 0.3	< 1	15	24		34		0.02	6.90			< 1	< 2		1.30				
315411 Dup		0.5		29	< 0.3	< 1	14	24		35		0.02	6.86			< 1	< 2		1.31				
315419 Orig	< 2		< 5						< 20		< 50			2.8	440			4.8		11	63	4	0.6
315419 Dup	5		< 5						< 20		< 50			3.7	460			4.9		10	58	3	0.7
315422 Orig		0.4		11	< 0.3	< 1	19	25		30		< 0.01	6.18			< 1	< 2		1.74				
315422 Dup		0.4		11	< 0.3	1	18	29		31		< 0.01	6.23			1	< 2		1.75				
315435 Orig		< 0.3		9	< 0.3	< 1	13	22		26		< 0.01	6.35			1	< 2		1.64				
315435 Dup		0.3		10	< 0.3	< 1	13	22		26		< 0.01	6.36			1	< 2		1.64				
315451 Orig	< 2		< 5						< 20		< 50			3.6	440			2.0		12	59	4	0.6
315451 Dup	< 2		< 5						< 20		< 50			4.7	410			2.5		11	62	5	0.6
315453 Orig		< 0.3		9	< 0.3	< 1	14	16		31		0.01	5.54			< 1	< 2		1.80				
315453 Dup		< 0.3		8	< 0.3	< 1	13	15		30		0.01	5.52			< 1	< 2		1.76				
315465 Orig		< 0.3		42	< 0.3	< 1	13	20		26		0.03	6.66			< 1	< 2		1.30				
315465 Dup		0.3		40	< 0.3	< 1	14	19		27		0.03	6.63			< 1	< 2		1.32				
315481 Orig		< 0.3		18	< 0.3	< 1	13	17		23		0.01	6.18			< 1	< 2		1.40				
315481 Dup		0.4		17	< 0.3	< 1	13	17		23		0.01	6.15			1	< 2		1.39				
315483 Orig	< 2		< 5						< 20		< 50			4.0	350			3.8		8	48	2	0.6
315483 Dup	5		< 5						< 20		< 50			5.8	320			4.6		6	47	1	0.5
315492 Orig		0.4		7	< 0.3	< 1	14	11		18		0.01	6.14			< 1	< 2		1.31				
315492 Dup		< 0.3		5	< 0.3	1	15	11		18		0.01	6.01			< 1	< 2		1.31				
315509 Orig		0.5		22	< 0.3	< 1	17	29		30		0.01	6.54			1	< 2		2.08				
315509 Dup		0.5		24	< 0.3	< 1	16	30		30		0.01	6.45			1	< 2		2.06				
315515 Orig	< 2		< 5						< 20		< 50			1.0	420			2.3		11	54	3	0.6
315515 Dup	< 2		< 5						< 20		< 50			1.5	480			4.4		9	47	4	0.6
315523 Orig		0.4		4	< 0.3	< 1	16	17		23		< 0.01	6.54			1	< 2		1.46				
315523 Dup		0.5		4	< 0.3	< 1	14	18		22		< 0.01	6.48			1	< 2		1.47				
315547 Orig	3	< 0.3	< 5	25	< 0.3	< 1	13	27	< 20	36	< 50	0.02	6.69	4.6	450	1	< 2	13.3	1.63	11	73	2	0.6
315547 Dup	3	0.3	< 5	24	< 0.3	< 1	12	25	< 20	36	< 50	0.02	6.63	3.8	410	< 1	< 2	12.8	1.64	11	71	3	0.6
315549 Orig		0.3		16	< 0.3	< 1	13	26		31		0.01	6.46			1	< 2		1.64				
315549 Dup		0.5		15	0.3	< 1	14	28		31		0.01	6.45			1	2		1.65				
315567 Orig		0.5		7	< 0.3	< 1	14	22		29		0.01	6.27			1	< 2		1.64				
315567 Dup		0.4		8	< 0.3	< 1	14	22		30		0.01	6.24			< 1	< 2		1.64				
315579 Orig	< 2		< 5						< 20		< 50			4.0	400			5.2		10	46	4	0.6
315579 Dup	4		< 5						< 20		< 50			2.5	440			6.0		9	51	3	0.6
315582 Orig		0.5		40	0.3	< 1	14	51		46		0.01	6.73			< 1	< 2		2.10				
315582 Dup		0.5		38	< 0.3	< 1	10	50		45		0.01	6.65			< 1	< 2		2.08				
315597 Orig		0.3		25	< 0.3	< 1	12	48		41		0.01	5.95			< 1	< 2		2.36				
315597 Dup		0.3		24	< 0.3	< 1	10	49		42		0.01	5.92			< 1	< 2		2.40				

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
315610 Orig		0.4		18	< 0.3	< 1	12	29		32		0.02	6.41			< 1	< 2		1.63				
315610 Dup		0.4		17	< 0.3	< 1	14	31		32		0.02	6.53			1	< 2		1.70				
315611 Orig	< 2		< 5						< 20		< 50			3.4	460			7.7		9	46	4	0.6
315611 Dup	< 2		< 5						< 20		< 50			2.9	370			7.2		8	46	3	0.5
315632 Orig		0.3		23	< 0.3	< 1	9	27		29		0.04	7.32			1	< 2		1.76				
315632 Dup		0.4		24	< 0.3	< 1	9	28		30		0.04	7.35			1	< 2		1.74				
315643 Orig	< 2		< 5						< 20		< 50			4.5	350			11.3		8	53	3	0.7
315643 Dup	3		< 5						< 20		< 50			4.2	460			11.8		7	54	3	0.7
315648 Orig		0.5		19	< 0.3	< 1	11	21		34		0.02	6.34			< 1	< 2		1.71				
315648 Dup		0.5		18	< 0.3	< 1	13	21		34		0.02	6.17			< 1	< 2		1.70				
315656 Orig		< 0.3		10	< 0.3	< 1	10	26		32		< 0.01	5.88			1	< 2		1.96				
315656 Dup		0.3		9	< 0.3	< 1	11	27		32		0.01	5.92			1	< 2		1.97				
315657 Orig		< 0.3		32	< 0.3	< 1	9	41		44		0.01	6.65			1	< 2		2.58				
315657 Dup		< 0.3		32	< 0.3	< 1	11	40		43		0.02	6.72			1	< 2		2.59				
315675 Orig	2		< 5						< 20		< 50			3.0	< 50			< 0.5		< 1	9	< 1	< 0.2
315675 Dup	< 2		< 5						< 20		< 50			3.4	< 50			< 0.5		< 1	11	< 1	< 0.2
315700 Orig		< 0.3		23	< 0.3	< 1	8	107		98		< 0.01	5.66			3	< 2		2.01				
315700 Dup		< 0.3		24	< 0.3	< 1	9	105		97		< 0.01	5.48			3	< 2		1.97				
315701 Orig		0.5		15	< 0.3	< 1	13	17		23		< 0.01	6.26			1	< 2		1.57				
315701 Dup		0.4		15	< 0.3	1	12	16		22		< 0.01	6.17			1	< 2		1.58				
315707 Orig	9		< 5						< 20		< 50			4.5	550			3.7		9	69	3	0.7
315707 Dup	2		< 5						< 20		< 50			5.2	510			3.7		10	69	4	0.6
315715 Orig		< 0.3		21	< 0.3	< 1	11	21		35		0.04	6.45			1	< 2		1.31				
315715 Dup		< 0.3		28	< 0.3	< 1	10	21		34		0.03	6.34			1	< 2		1.32				
315727 Orig		0.4		12	< 0.3	< 1	13	20		27		0.01	6.55			1	< 2		1.59				
315727 Dup		< 0.3		12	< 0.3	< 1	13	21		27		0.01	6.54			1	< 2		1.57				
315739 Orig	< 2		< 5						< 20		< 50			3.4	390			11.3		7	47	2	0.6
315739 Dup	3		< 5						< 20		< 50			4.4	290			10.4		6	42	2	0.6
315755 Orig		< 0.3		27	< 0.3	< 1	11	23		30		0.02	6.67			1	< 2		1.65				
315755 Dup		0.3		27	< 0.3	2	14	24		28		0.02	6.69			1	< 2		1.65				
315765 Orig		< 0.3		33	< 0.3	< 1	9	46		44		0.03	6.60			1	< 2		1.39				
315765 Dup		< 0.3		35	< 0.3	1	10	46		44		0.03	6.57			1	< 2		1.40				
315771 Orig	< 2		< 5						< 20		< 50			2.8	570			5.1		6	69	4	0.6
315771 Dup	< 2		< 5						< 20		< 50			3.0	550			4.7		6	68	4	0.5
315774 Orig		< 0.3		8	< 0.3	< 1	11	32		33		< 0.01	5.91			1	< 2		1.51				
315774 Dup		< 0.3		8	< 0.3	< 1	12	35		34		< 0.01	6.06			1	< 2		1.53				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		2		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3																					

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
Method Blank	< 2		< 5						< 20		< 50			< 0.5	< 50			< 0.5		< 1	< 2	< 1	< 0.2

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
Oreas 72a (4 Acid) Meas																							
Oreas 72a (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas					2.45		1.26	992		0.122							0.37			81			144
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 101b (4 Acid) Meas					1.73		1.22	950		0.108							0.36			77			137
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 101b (4 Acid) Meas					2.41		1.23	985		0.120							0.37			79			138
OREAS 101b (4 Acid) Cert					2.36		1.23	927									0.35			77			133
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
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OREAS 98 (4 Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas					3.41	17	0.61	460		0.107					31					90			36

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
OREAS 904 (4 Acid) Cert					3.31	16.7	0.556	410		0.0980					27.2					76.0			31.5
OREAS 45d (4-Acid) Meas					0.42	22	0.24	537		0.042					34		0.79			245			11
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 45d (4-Acid) Meas					0.43	23	0.24	515		0.035					34		0.29			129			12
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 45d (4-Acid) Meas					0.43	24	0.25	527		0.039					35		0.47			165			12
OREAS 45d (4-Acid) Cert					0.412	21.5	0.245	490.000		0.042					31.30		0.773			235.0			9.53
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 923 (4 Acid) Meas					2.54	32	1.79	1070		0.067					47		0.43			100			27
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 923 (4 Acid) Meas					2.55	33	1.78	1040		0.064					46		0.42			95			27
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 923 (4 Acid) Meas					2.56	33	1.76	1020		0.065					46		0.42			95			27
OREAS 923 (4 Acid) Cert					2.51	31.4	1.69	950		0.0630					43.0		0.405			91.0			26.4
OREAS 621 (4 Acid) Meas					1.88	14	0.53	547		0.034					64		0.18			36			11
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1
OREAS 621 (4 Acid) Meas					1.71	15	0.53	553		0.035					72		0.18			36			10
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1
OREAS 621 (4 Acid) Meas					1.59	14	0.52	532		0.034					64		0.18			34			11
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1
OREAS 621 (4 Acid) Meas					1.68	15	0.52	545		0.033					63		0.18			35			11
OREAS 621 (4 Acid) Cert					2.20	14.2	0.507	532		0.0359					91.0		0.149			31.8			11.1
Oreas 77b (4 Acid) Meas					0.32	17	2.35	591							31		0.05			35			7
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6			6.55

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
Oreas 77b (4 Acid) Meas					0.32	17	2.29	592							31		0.06			35			8
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6			6.55
Oreas 77b (4 Acid) Meas					0.32	17	2.31	599							32		0.06			35			8
Oreas 77b (4 Acid) Cert					0.361	18.8	2.59	640							34.4		0.0640			33.6			6.55
OREAS 681 (4 Acid) Meas					1.35	13	5.10	1290		0.138					446		0.55			246			15
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253			17.5
OREAS 681 (4 Acid) Meas					1.36	13	5.14	1290		0.140					450		0.56			247			15
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253			17.5
OREAS 681 (4 Acid) Meas					1.31	13	5.16	1300		0.139					454		0.57			238			16
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253			17.5
OREAS 681 (4 Acid) Meas					1.40	14	5.22	1310		0.141					456		0.56			236			17
OREAS 681 (4 Acid) Cert					1.35	13.0	5.19	1310		0.141					478		0.588			253			17.5
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 247 (4 Acid) Meas					2.46	31	1.25	381		0.043					102		0.34			69			17
OREAS 247 (4 Acid) Cert					2.45	31.8	1.22	360		0.0480					96.0		0.390			82.0			13.1
OREAS 147 (4 Acid) Meas					1.84	2230	0.57	423		0.111					308		0.21			43			28
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0			26.3
OREAS 147 (4 Acid) Meas					1.78	2040	0.58	432		0.127					317		0.30			48			29
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0			26.3
OREAS 147 (4 Acid) Meas					1.79	2000	0.57	429		0.114					321		0.24			47			29
OREAS 147 (4 Acid) Cert					1.60	2260	0.535	390		0.155					299		0.470			60.0			26.3
Oreas 521 (4 Acid) Meas					3.13	17	1.16	3110		0.080					82		0.35			201			19
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
Oreas 521 (4 Acid) Meas					2.97	17	1.11	3030		0.075					92		0.30			182			18
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
Oreas 521 (4 Acid) Meas					2.95	17	1.12	3010		0.081					88		0.41			202			18
Oreas 521 (4 Acid) Cert					3.16	16	1.13	3210		0.081					160		0.39			209			20
OREAS 70b (4 Acid) Meas					0.60	33	12.8	1150		0.022					70		0.17			66			9

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
OREAS 70b (4 Acid) Cert					0.62	34	13.4	1150		0.022					74		0.18			67			10
OREAS 70b (4 Acid) Meas					0.59	35	13.4	1170		0.023					73		0.18			66			9
OREAS 70b (4 Acid) Cert					0.62	34	13.4	1150		0.022					74		0.18			67			10
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
DMMAS 124 Meas	14.7	< 1							0.76		52	5.3	16.0	< 3				2.1	14.5				9.5
DMMAS 124 Cert	14.8	1.33							0.687		46.3	4.99	16.2	5.85				1.81	13.6				10.4
315401 Orig					1.60	17	0.46	244		0.030					276		0.19			47			8
315401 Dup					1.45	17	0.46	240		0.031					278		0.28			60			8
315411 Orig					1.44	21	0.60	269		0.031					233		0.28			62			10
315411 Dup					1.46	21	0.60	270		0.029					231		0.17			46			11
315419 Orig	2.22	8	< 1	< 5					2.03		33	< 0.1	6.5	< 3		< 0.5		4.7	1.6			< 1	15.9
315419 Dup	2.00	8	< 1	< 5					1.95		93	0.2	6.2	< 3		< 0.5		4.6	0.6			< 1	15.6
315422 Orig					1.76	14	0.71	321		0.040					318		0.20			44			10
315422 Dup					1.79	14	0.72	319		0.039					315		0.18			41			10
315435 Orig					1.81	13	0.53	274		0.015					321		0.09			15			11
315435 Dup					1.91	13	0.53	281		0.016					326		0.08			15			11
315451 Orig	3.08	7	< 1	< 5					1.91		59	< 0.1	8.4	< 3		< 0.5		4.8	< 0.5			< 1	15.6
315451 Dup	3.04	8	< 1	< 5					1.87		< 15	< 0.1	8.1	< 3		< 0.5		4.6	< 0.5			< 1	15.0
315453 Orig					1.47	9	0.61	338		0.021					269		0.07			20			9
315453 Dup					1.40	9	0.61	340		0.020					277		0.28			54			9
315465 Orig					1.54	20	0.52	251		0.036					247		0.15			41			10
315465 Dup					1.55	19	0.52	262		0.036					252		0.17			44			10
315481 Orig					1.70	16	0.50	243		0.012					285		0.07			16			9
315481 Dup					1.79	15	0.49	250		0.013					282		0.08			19			8
315483 Orig	2.13	7	< 1	< 5					1.89		86	< 0.1	6.2	< 3		< 0.5		3.9	0.7			< 1	14.3
315483 Dup	2.03	6	< 1	< 5					1.88		37	< 0.1	6.1	< 3		< 0.5		5.0	0.9			< 1	14.4
315492 Orig					1.50	13	0.40	216		0.013					266		0.17			37			8
315492 Dup					1.57	12	0.40	219		0.009					265		0.15			28			8
315509 Orig					1.82	16	0.71	416		0.053					353		0.18			42			13
315509 Dup					1.78	16	0.71	423		0.053					350		0.20			48			12
315515 Orig	2.16	10	< 1	< 5					2.14		37	< 0.1	7.8	< 3		< 0.5		4.8	1.1			< 1	16.2
315515 Dup	2.10	9	< 1	< 5					2.08		41	0.2	7.5	< 3		< 0.5		5.5	0.8			< 1	15.6
315523 Orig					1.97	12	0.47	240		0.025					322		0.10			21			9
315523 Dup					2.04	12	0.47	244		0.027					315		0.12			24			9
315547 Orig	2.97	7	< 1	< 5	1.60	16	0.80	353	1.78	0.024	23	0.2	8.8	< 3	254	< 0.5	0.06	5.6	1.7	20	< 1	10	13.4
315547 Dup	3.02	7	< 1	< 5	1.59	16	0.78	356	1.76	0.026	21	< 0.1	8.7	< 3	255	< 0.5	0.10	5.3	1.4	26	< 1	10	13.1
315549 Orig					1.69	15	0.67	326		0.034					293		0.10			28			11
315549 Dup					1.62	15	0.67	330		0.035					295		0.16			34			11
315567 Orig					1.84	15	0.58	299		0.033					295		0.12			32			9
315567 Dup					1.83	15	0.57	293		0.032					300		0.12			29			9
315579 Orig	2.40	8	< 1	< 5					2.04		81	< 0.1	5.9	< 3		< 0.5		5.2	1.1			< 1	16.5
315579 Dup	2.31	8	< 1	< 5					1.99		55	< 0.1	5.8	< 3		< 0.5		5.3	1.3			< 1	16.6
315582 Orig					1.77	15	0.98	411		0.041					301		0.18			50			13
315582 Dup					1.71	15	0.96	408		0.038					299		0.12			34			13
315597 Orig					1.49	15	1.01	418		0.023					269		0.14			42			9
315597 Dup					1.45	15	1.03	421		0.021					266		0.06			24			9

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
315610 Orig					1.48	17	0.67	312		0.034					281		0.21			51		10	
315610 Dup					1.59	18	0.68	312		0.033					286		0.17			47		10	
315611 Orig	2.12	8	< 1	< 5					1.96		50	0.2	5.6	< 3		< 0.5		4.4	1.3		< 1		16.2
315611 Dup	2.09	8	< 1	< 5					1.92		30	0.1	5.7	< 3		< 0.5		4.7	< 0.5		< 1		15.8
315632 Orig					1.50	12	0.78	329		0.056					273		0.25			69		10	
315632 Dup					1.34	12	0.77	321		0.056					271		0.25			68		10	
315643 Orig	2.82	8	< 1	< 5					1.74		67	0.2	7.1	< 3		< 0.5		5.4	1.6		< 1		16.6
315643 Dup	2.84	9	< 1	< 5					1.75		73	0.3	7.2	< 3		< 0.5		5.6	1.3		< 1		16.4
315648 Orig					1.44	13	0.75	365		0.036					259		0.27			106		10	
315648 Dup					1.57	13	0.74	360		0.035					253		0.22			93		10	
315656 Orig					1.68	15	0.88	391		0.021					328		0.09			29		10	
315656 Dup					1.67	16	0.89	396		0.022					333		0.10			34		10	
315657 Orig					1.50	20	1.13	529		0.034					302		0.15			50		12	
315657 Dup					1.50	20	1.14	536		0.035					306		0.17			50		12	
315675 Orig	1.07	2	< 1	< 5					0.15		< 15	0.3	0.7	< 3		< 0.5		2.2	< 0.5		< 1		3.3
315675 Dup	1.10	2	< 1	< 5					0.14		< 15	0.2	0.7	< 3		< 0.5		2.4	< 0.5		< 1		3.6
315700 Orig					1.26	19	1.44	625		0.112					416		0.28			43		20	
315700 Dup					1.47	19	1.40	606		0.106					403		0.19			31		20	
315701 Orig					2.11	12	0.48	286		0.031					338		0.17			32		15	
315701 Dup					2.14	13	0.49	285		0.031					340		0.16			30		14	
315707 Orig	2.90	11	< 1	< 5					1.69		54	0.1	9.5	< 3		< 0.5		6.3	0.7		< 1		16.1
315707 Dup	2.81	12	< 1	< 5					1.69		59	0.6	9.3	< 3		< 0.5		6.7	1.7		< 1		15.9
315715 Orig					1.56	12	0.54	252		0.038					252		0.14			44		9	
315715 Dup					1.57	12	0.54	258		0.037					250		0.15			49		9	
315727 Orig					1.45	22	0.65	320		0.017					277		0.27			61		10	
315727 Dup					1.66	22	0.64	316		0.016					273		0.14			26		10	
315739 Orig	1.86	8	< 1	< 5					1.71		< 15	< 0.1	6.1	< 3		< 0.5		4.7	1.2		< 1		15.8
315739 Dup	1.86	8	< 1	< 5					1.68		64	< 0.1	6.1	< 3		< 0.5		4.7	< 0.5		< 1		15.3
315755 Orig					1.61	16	0.66	322		0.026					263		0.12			35		9	
315755 Dup					1.64	16	0.66	332		0.027					268		0.15			41		10	
315765 Orig					1.43	26	0.51	275		0.031					287		0.25			42		10	
315765 Dup					1.81	25	0.50	267		0.027					289		0.12			24		10	
315771 Orig	2.60	8	< 1	< 5					1.71		40	0.3	5.1	< 3		< 0.5		5.2	0.7		< 1		14.2
315771 Dup	2.60	9	< 1	< 5					1.71		70	0.3	5.1	< 3		< 0.5		5.4	1.6		< 1		13.8
315774 Orig					1.49	13	0.75	276		0.019					305		0.25			44		9	
315774 Dup					1.55	14	0.78	281		0.021					303		0.26			44		9	
Method Blank					< 0.01	< 1	< 0.01	4		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	6		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	2		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	8		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	8		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	6		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	2		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01	2		< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
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Oreas 72a (4 Acid) Cert								
Oreas 72a (4 Acid) Meas								
Oreas 72a (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 101b (4 Acid) Meas								
OREAS 101b (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
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OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 98 (4 Acid) Meas								
OREAS 98 (4 Acid) Cert								
OREAS 13b (4-Acid) Meas								
OREAS 13b (4-Acid) Cert								
OREAS 13b (4-Acid) Meas								
OREAS 13b (4-Acid) Cert								
OREAS 13b (4-Acid) Meas								
OREAS 13b (4-Acid) Cert								
OREAS 904 (4 Acid) Meas								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
OREAS 904 (4 Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
OREAS 45d (4-Acid) Meas								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 96 (4 Acid) Meas								
OREAS 96 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 923 (4 Acid) Meas								
OREAS 923 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
OREAS 621 (4 Acid) Meas								
OREAS 621 (4 Acid) Cert								
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								
Oreas 77b (4 Acid) Meas								
Oreas 77b (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 681 (4 Acid) Meas								
OREAS 681 (4 Acid) Cert								
OREAS 247 (4 Acid) Meas								
OREAS 247 (4 Acid) Cert								
OREAS 147 (4 Acid) Meas								
OREAS 147 (4 Acid) Cert								
OREAS 147 (4 Acid) Meas								
OREAS 147 (4 Acid) Cert								
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								
Oreas 521 (4 Acid) Cert								
Oreas 521 (4 Acid) Meas								
Oreas 521 (4 Acid) Cert								
Oreas 521 (4 Acid) Meas								
Oreas 521 (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
OREAS 70b (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								
OREAS 70b (4 Acid) Cert								
OREAS 70b (4 Acid) Meas								
OREAS 70b (4 Acid) Cert								
DMMAS 124 Meas	20	< 5	2.1		< 0.5	1.8	0.20	
DMMAS 124 Cert	18.0	9.10	1.94		0.40	1.52	0.251	
315401 Orig								
315401 Dup								
315411 Orig								
315411 Dup								
315419 Orig	42	12	3.1	< 0.02	< 0.5	1.3	0.08	29.5
315419 Dup	38	9	2.9	< 0.02	< 0.5	1.0	0.07	30.1
315422 Orig								
315422 Dup								
315435 Orig								
315435 Dup								
315451 Orig	34	6	2.6	< 0.02	< 0.5	1.3	0.06	33.7
315451 Dup	33	11	2.5	< 0.02	< 0.5	1.3	0.06	34.7
315453 Orig								
315453 Dup								
315465 Orig								
315465 Dup								
315481 Orig								
315481 Dup								
315483 Orig	33	8	3.0	< 0.02	< 0.5	1.1	0.05	33.8
315483 Dup	34	12	3.0	< 0.02	< 0.5	1.0	0.08	31.0
315492 Orig								
315492 Dup								
315509 Orig								
315509 Dup								
315515 Orig	37	16	3.1	0.04	< 0.5	1.2	0.07	34.7
315515 Dup	36	11	3.0	< 0.02	< 0.5	1.3	0.06	36.0
315523 Orig								
315523 Dup								
315547 Orig	34	8	2.5	< 0.02	< 0.5	1.3	0.11	32.3
315547 Dup	37	8	2.4	< 0.02	< 0.5	1.4	0.09	31.2
315549 Orig								
315549 Dup								
315567 Orig								
315567 Dup								
315579 Orig	56	11	2.6	< 0.02	< 0.5	1.0	0.06	34.9
315579 Dup	61	16	2.7	< 0.02	< 0.5	1.1	0.07	35.1
315582 Orig								
315582 Dup								
315597 Orig								
315597 Dup								

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.02	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Method Blank	< 3	< 5	< 0.1	< 0.02	< 0.5	< 0.2	< 0.05	30.0

Appendix D – Haveman Brothers Invoices

Appendix E: Regional Geology & Occurrences Map

