



Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical

TOTAL COST: \$56,010.35

AUTHOR(S): Ed Kruckowski

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 576.363

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): _____

PROPERTY NAME: Goat

CLAIM NAME(S) (on which the work was done): Claim #'s 514578, 514483 and 565638

COMMODITIES SOUGHT: Gold, Silver, Lead, Zinc, Copper and molybdenum

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104A02

MINING DIVISION: Skeena Mining Division

NTS/BCGS: 104A04E / 104A012

LATITUDE: 56 ° 08 ' 31 " LONGITUDE: 129 ° 37 ' 54 " (at centre of work)

OWNER(S):

1) Decade Resources Ltd

2) Auramex Resources Ltd

MAILING ADDRESS:

426 King Street

Stewart BC V0T 1W0

750 Grand Boulevard

North Vancouver BC V7L 3W4

OPERATOR(S) [who paid for the work]:

1) Decade Resources Ltd

2) _____

MAILING ADDRESS:

426 King Street

Stewart BC V0T 1W0

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
VMS Kuroko type mineralization with bedded galena and sphalerite and matrix hosted mineralization in Jurassic age volcanics.

Shear hosted gold-silver with galena, sphalerite, chalcopryrite, arsenopyrite and tetrahedrite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 20200, 22040, 27919, 33053, 36578 and 37234

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne			
_____	_____	_____	_____
GEOCHEMICAL (number of samples analysed for...)			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock 159	_____	514578,514483 and 565638	\$56,010.35
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area)			
_____	_____	_____	_____
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
TOTAL COST:			\$56,010.35

**Assessment Report On
Exploration Program On:**

**Mineral Claim # 514578
514483
#1049879
#565638**

Statement of exploration # 5760363

**Located
34 kilometres Northeast of
Stewart, British Columbia in
Skeena Mining Division**

**NTS 104A/4E
LATITUDE 56 08' 31"N
LONGITUDE 129 37' 54"W**

**On Behalf of
Decade Resources Ltd
Stewart, BC**

by

Edward Kruchkowski, B.Sc., P. Geo.

January 20 2020

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SUMMARY

The Goat property is located about 34 kilometers northeast of Stewart, British Columbia in the Skeena Mining Division. It covers a series of fault related quartz veins in an area of Jurassic Hazelton pyroclastic volcanic rocks and Cretaceous Bowser Lake sedimentary rocks. The claims also follow the contact zone between the Mt Dilworth rhyolite and overlying Salmon River sedimentary formations, a similar stratigraphic sequence as that hosting the Eskay Creek deposit and the BA mineralization being explored approximately 8 km to the south of the property.

The property consists of 8 claims totaling 1210.40 hectares in the Golden Triangle district of British Columbia.

The property lies within a belt of Jurassic volcanic rocks extending from the Kitsault area, south of Stewart, to north of the Stikine River. This belt is host to numerous gold and gold-silver deposits, in a variety of geological settings, including the former Eskay Creek Mine and past producing Snip, Premier-Big Missouri, Granduc, Scottie Gold and SB properties.

The claims cover the Goat Deposit, which consists of a parallel series of polymetallic silver - gold-zinc-lead veins that are crudely laminated sulphide-quartz-siderite veins with massive sphalerite and disseminated to massive arsenopyrite, pyrite, tetrahedrite, freibergite and minor galena. The Goat Deposit was a historic producer during the late 1970's with reported production of about 4,159 tonnes of ore with an average grade of 563 grams per tonne (g/t) silver, 1.72 g/t gold and 1.65 per cent (%) zinc with minor lead and copper from 3,186 tonnes of milled ore. A historic resource of 8,800 tonnes grading 4,782.9 g/t silver and 10.6 g/t gold was reported in 1979, however the resource is not compliant with National Instrument 43-101 guidelines.

Previous work by Decade conducted during 2011, 2016 and 2017 was primarily focused on exploration for Kuroko type VMS deposits along the northern and western part of the property. Several different mineralization types were indicated from this work.

Highlights of the previous Decade sampling included:

- The presence of Kuroko type VMS mineralization along the western portion of the claims.
- The presence of high grade silver with gold associated with lead - zinc bearing rocks along the northern part of the property.

This previous exploration work indicated that the BA type mineralization which is a Kuroko-type volcanogenic massive sulphide (VMS) system composed of an exhalite horizon with related zinc-lead-silver mineralization is present within the Goat property boundaries. The BA mineralization consists of finely bedded sphalerite and pyrite with minor galena and chalcopyrite occurring below the main exhalite (red jasper/green to grey chert) within mudstones, mudstone breccias and dacite breccias.

The 2019 exploration program included geochemical sampling, creating a rock slab library of all samples collected and petrographic studies.

In the 2019 geochemical program, a total of 159 float and bedrock samples were collected. Sampling was carried out along moraines and valley bottoms in an attempt to locate the source of the Kuroko type mineralization. Sampling also tested for gold - silver mineralization in float rocks below the North mineral showing. Samples were taken of any pyritiferous, manganese stained or sulphide bearing bedrock or float boulders. Sampling indicated values ranging from <5 ppb to 5.82 g/t gold, <0.2 to 1270 g/t silver, < 1 ppm to 2.51 % copper, <2 ppm to 6.51 % lead and 27ppm to 10 % zinc.

Highlights of the sampling include;

- **541 g/t Ag with 2.41 % Pb and 2.52 % Zn in float sample GNK-12A**
- **395 g/t Ag with 5.51 % Pb and 10.0 % Zn in float sample A19-123**
- **0.23 % Mo from bedrock sample GTKM19-29**
- **5.82 g/t Au and 1270 g/t Ag in float sample A19-130 below the North Showing.**

GNK-12A is boulder with fragments of sulphide in a mudstone matrix indicating a formation close to the vent area. It is distinctive in that it had no apparent iron staining on the outside. Polished sections of the rock show fine disseminated galena as well as clasts of sphalerite. Sample A19-123 has bedded base metal sulphides, namely sphalerite and minor galena.

Outcrop sample GTKM19-29 is a strongly epidote quartz-carbonate-garnet altered/replaced, dark-green to almost black meta-volcanic rock; locally skarn. Sulphide mineralization includes coarse crystalline pyrite, minor chalcopyrite and common molybdenite.

Seven polished and one thin section were prepared from mineralized float samples collected from glacial moraine on the Goat Property.

Four samples represent cherty limestone mineralized with sphalerite, galena, pyrite and chalcopyrite. Sulphides are syngenetic, formed during deposition process along with carbonate and chert. Two samples are volcanic flows/breccias carrying minor amounts of sphalerite, galena and chalcopyrite. Sample GNK-12A is from a silicified trachyte or trachyte tuff mineralized with pyrite, sphalerite and galena. The sample displays distinct colloform texture which is characteristic of a VMS environment. The sample assayed 541 g/t Ag but no silver minerals were identified under the microscope. GTKM19-29 is a skarn almost completely replaced by carbonate and quartz with minor amounts of pyrite, chalcopyrite and sphalerite.

It is recommended that the next exploration phase consist of further sampling to define the bedrock sources of the indicated VMS mineralization in previous geochemical sampling as well as further evaluate the locate further mineral showings.

Estimated cost of the program is \$150,000.00.

INTRODUCTION

Decade Resources Ltd owns a 100% interest in 5 of the claims in the Goat property as well as having a right to earn a 60 % interest in 3 adjoining claims. This report is being prepared in order to summarize the 2019 sampling results on the 8 claims comprising the property.

Location and Access

The claims in the property are contiguous and are located about 34 kilometers northeast of Stewart, British Columbia in the headwaters of the Goat and North Goat Glacier valleys, tributaries to Surprise Creek. The claim area is approximately 56 degrees 08 minutes 31 seconds latitude and 129 degrees 37 minutes 54 seconds longitude on NTS sheet 104A/4E. Figure 1 shows the location of the claim area.

Access to the property at the present time is by road and/or helicopter from Stewart about 34 kilometers to the southwest of the claim area. During the 1970's, a mine access trail was constructed to the base of the mine workings located along steep cliffs within the Goat Glacier valley. This trail can provide access to the eastern part of the property. Nearest major road is the paved Highway 37A running between Stewart and Meziadin Junction which within 7 kilometers of the northern portion of the property.

Physiography and Topography

The area of the Goat property claims encompasses steep mountain slopes typical of the Coast Range region of British Columbia. The property is situated along east-west trending valleys that are sloped east away from the Todd ice field. Slopes range from moderate to precipitous. Elevations vary from about 823 meters along Goat Creek to about 2042 meters along peaks rising from the Todd ice field. The upper slopes of the property above 1500 meters are mainly rock outcrops, talus slopes and permanent ice.

Spruce and hemlock trees as well as small patches of tag spruce are present along the lower slopes of the mountain valleys, particularly the north facing edges. Alders grow along avalanche slopes and moraines. Alpine grasses, heather and arctic willow grows in patches along the talus, moraine and outcrops in the upper regions of the property.

PROPERTY OWNERSHIP

The property consists of 8 modified grid claims totaling 1210.40 ha. Relevant claim information is summarized below:

<u>Name</u>	<u>Tenure #</u>	<u>Area (ha)</u>	<u>Expiry Date</u>
Goat 1	514484	432.63	February 25 2021
Goat 2	514483	198.26	February 25 2021
Goat 3	514578	234.27	February 25 2021
Goat Extension	1049879	18.03	February 7 2020
	565638	146.88	December 31 2019
	565640	54.10	December 31 2019
	607865	36.07	December 31 2019
Yvonne East	1049856	90.16	February 6 2020
	Total	1210.40 ha	

The Goat 1 to 3, 1049879 and 565638 claims are owned 100 % by Decade Resources Ltd. Auramex Resource Corp. owns claims, 565640, 607865 and 1049856.

Decade can earn a 60 % interest in the Auramex claims by:

- a) Making payments to the Optionor of:
 - (I) \$5,000.00 cash and \$300,000.00 Portable assessment Credit upon execution of the agreement.
 - (II) \$0.00 on or before the First Anniversary of the agreement.
 - (III) \$15,000.00 on or before the Second Anniversary of the Agreement.
 - (IV) \$20,000.00 on or before the Third Anniversary of the Agreement.

- b) Incurring Expenditures on the Property as follows:
 - (I) \$5,000.00 cash and \$300,000.00 Portable assessment Credit upon execution of the agreement.
 - (II) \$50,000.00 the on or before the Second Anniversary of the agreement.
 - (III) \$70,000.00 the on or before the Third Anniversary of the agreement.

Claims location is shown in Figure 2 copied from MINFILE database. All the claims are situated in the Skeena Mining Division in the Province of British Columbia.

PREVIOUS WORK

The first lode gold exploration carried out in the Stewart area occurred in the upper reaches of Bitter Creek approximately 20 km southwest of the Goat claim area in the early 1900 period. Intermittent prospecting was carried out in the general area from this period until the late 1950's when claims were staked in the Goat Glacier area. The original discovery of the Goat Mine mineralization was made by Mr. Fred Hasselburg in

1959 who was a member of a prospecting team financed by Newmont Mining Corporation and Granby Mining Co. The chronology of development for this property is listed below:

- 1960 Showings were staked by Newmont Mining Corporation of Canada and Granby Mining Company Limited as the Surprise Group (20 units).
- 1960-1962 Exploration including geological mapping, sampling and diamond drilling in 6 packsack drill holes.
- 1963 Restaked as the Goat Group consisting of 20 units.
- 1964 Noradco Mines Limited acquired the property and expanded the holding to 80 units. Work included trenching, sampling, and 124 metres of diamond drilling in 3 holes.
- 1965 Noradco entered share option agreement with Gunnar Mining Limited. Work was carried out by Gunnar's wholly owned subsidiary, Gunnex Limited. Two adits totaling 71 metres were driven on the F vein, two 11 metre raises were driven from the upper adit to the G vein.
- 1966 The lower adit was extended an additional 46 metres. Gunnar Mining acquired a 51% interest in Noradco Mines under terms of the option agreement.
- 1968 Under an agreement with Shield Minerals Corporation. to continue exploration on the property. Three adits totaling 231 metres and two raises totaling 39 metres were driven and 80 metres of underground diamond drilling in 4 holes was carried out. Shield Minerals earned a 26% interest in the property.
- 1971 Abitibi Asbestos Mining Company Limited acquired the Shield Minerals interest and incorporated Nordore Mining Co. A subsequent agreement with Noradco called for Nordore to bring the property into production.
- 1974 Nordore rehabilitated the workings, completed 121 metres of exploratory crosscutting and drifting and 20 metres of raising on the 4,625 and 4,759 levels: and, development crosscutting and drifting totaling 21 metres and raising totaling 114 metres on the 3,900, 4,500, and 4,625 levels.
- 1975 Nordore Silver-Gold Group. was formed to provide funds for additional work under the management of Nordore. The Remus 1-6 claims located at highway 37A near the west end of Meziadin Lake and some 9 miles by road from the mine site were acquired as a mill site. About 1,770 tonnes of ore were stockpiled at the mill site.

- 1976 A 49 tonne per day portable concentrator was commissioned and about 295 tonnes of ore were milled.
- 1979 Development work on the E vein recommenced and stoping resumed. Some material was put through the concentrator and a trial direct shipment was made to Trail.
- 1980 Nor-Quest Resources Ltd. was formed to manage the property for Nordore Mining Co. and Nordore Silver Gold Group. Some 76 metres of underground development was carried out and the mill operated for several months.
- 1981 All work was suspended when the mill was destroyed by fire.
- 1989-1990 Bond Gold Canada Inc. carried out a helicopter borne magnetic electromagnetic and VLF EM survey over the claim area as part of a larger regional survey. Results were filed for assessment work as ARIS report 20200A.
- 1991 A total of 219 samples were collected by Geofine Exploration Consultants in the Goat Mine Glacier area. The majority of these samples were float collected at the base of the slopes or from glacial moraines. Two talus and seven stream sediment samples were also collected. Talus, rock, and moraine float samples returned values up to 10 ppb Au, up to 27.8 & ppm Ag, up to 437 ppm Cu, up to 7133 ppm Pb, and up to 5185 ppm Zn. Stream sediment samples ran up to 135 ppb Au, up to 31.6 ppm Ag, up to 109 ppm Cu, up to 528 ppm Pb, and up to 1406 ppm Zn. Samples of mill feed collected at the old Goat Mine mill site assayed up to 19.15 g/t Au, up to 316.7 g/Ag, up to 0.261% Cu, up to 3.04% Pb, and up to 15.25% Zn.
- 2003 Goat claims staked.
- 2005 A total of 44 samples were collected by Apex Geoscience on behalf of Grizzly Diamonds. Six samples contained more than 1 g/t gold with values of up to 7.26 g/t gold. A total of 11 samples contained more than 34.29 g/t silver (1 oz/t silver) with values up to 2,090 g/t Ag (60.9 oz/t Ag). In addition, a total of six rock samples contained greater than 1% zinc and two rock samples yield greater than 1% lead.
- 2011 During the period May 1 to August 31, 2011 a total of 226 rock samples; both outcrop and float were collected. The sampling indicated gold values varying from <0.001 to 4.02 g/t, silver values varying from <0.05 to 509.3 g/t, copper values varying from <1 to 1990 ppm, lead values varying from 7 to 28,300 ppm and zinc values varying from 29.6 to 154,400 ppm.

2016 During the period April 1 to November 1, 2016 a total of 18 float rock samples were collected. A total of 9 samples collected below the area of the underground workings yielded 0.1 to 2.3 g/t Au, 6.7 to 100 g/t Ag with 0.02 to 0.65 % Pb and 0.085 to 2.76 % Zn.

A total of 9 samples collected in the North Goat area gave low gold-silver values. Sample values varied from 50-67 ppb Au, <0.5 to 3.8 ppm Ag, 14-473 ppm Pb, 10-183 ppm Cu and 85 to 1139 ppm Zn.

2017 In the 2017 geochemical program, a total of 64 float and bedrock samples were collected. Sampling was carried out along moraines and valley bottoms extending from known gold-silver bearing areas on the property. Samples were taken of any pyritiferous, manganese stained or sulphide bearing bedrock or float boulders. Sampling indicated values ranging from <5 ppb to 2,02 g/t gold, <0.2 to 136 g/t silver, < 1 ppm to 0.28 % copper, <2 ppm to 2.35 % lead and 13ppm to 3.51 % zinc.

Personnel and Operations

During the sampling program, all personnel were accommodated in Stewart, BC. A Hughes 500D helicopter owned by Bajo Reef Helicopters of Pitt Meadows BC was used to transport personnel to and from the property area for one day in mid August. An A-Star helicopter owned by Yellowhead Helicopters of Stewart BC was used to transport personnel to and from the property area for several days in late September. Personnel drove along Highway 37A, to the Surprise Creek road with 4x4 trucks then to the former Nordore mill site. From there, personnel used Poaris 6x6 off road vehicles to gain access to the eastern part of the claims along the former mine road.

E. Kruchkowski, geologist directed the program on behalf of Decade Resources. Personnel involved in the program included as follows:

Alex Walus	Contract Geologist As per invoice	July 15 to August 13 2019	4 days
Alex Walus	Contract Geologist As per invoice	September 17 to October 2 2019	5 days
KrzysMastalerz	Contract Geologist As per invoice	July 15 to August 13 2019	4 days
KrzysMastalerz	Contract Geologist As per invoice	September 17 to October 2 2019	5 days
E Kruchkowski	Contract Geologist	July 15 to October 2 2019	10 days
H. Kruchkowski	Geological Assistant	July 15 to October 2 2019	10 days
Tim Stoneburgh	Geological Assistant	September 7 to 10 and 30	5 days

Alex Walus and Krzystof Mastalerz drove to and from Surrey BC in a rental truck. They also transported all samples to Kamloops when demobilizing in August and October.

Samples were analyzed by Activation Laboratories Ltd in Kamloops BC.

GEOLOGICAL SURVEYS

Regional Geology

The claims comprising the Goat Property lie in the Stewart area, east of the Coast Crystalline Complex and within the western boundary of the Bowser Basin. Rocks in the area belong to the Mesozoic Hazelton Group and Bowser Lake Group that have been intruded by plugs of both Cenozoic and Mesozoic age.

According to C.F. Greig, in G.S.C. Open File 2931, the western portion of the claim area is underlain by Lower Jurassic volcanic rocks overlain by the Lower to Middle Jurassic Salmon River Formation at the east edge of the claims. The Salmon River formation is in turn overlain by the Upper Jurassic Bowser Lake sediments, east of the claim holdings.

At the base of the Hazelton Group is the lower Lower Jurassic Marine (submergent) and non-marine (emergent) volcanoclastic Unuk River Formation. This is overlain at steep discordant angles by a second, lithologically similar, middle Lower Jurassic volcanic cycle (Betty Creek Formation), in turn overlain by an upper Lower Jurassic tuff horizon (Mt. Dilworth Formation). Middle Jurassic non-marine sediments with minor volcanics of the Salmon River Formation unconformably overlie the above sequence.

The lower Lower Jurassic Unuk River Formation forms a north-northwesterly trending belt extending from Alice Arm to the Iskut River. It consists of green, red and purple volcanic breccia, volcanic conglomerate, sandstone and siltstone with minor crystal and lithic tuff, limestone, chert and coal. Also included in the sequence are pillow lavas and volcanic flows.

In the property area, the Unuk River Formation is unconformably overlain by middle Lower Jurassic rocks from the Betty Creek Formation. The Betty Creek Formation is another cycle of troughfilling sub-marine pillow lavas, broken pillow breccias, andesitic and basaltic flows, green, red, purple and black volcanic breccia, with self erosional conglomerate, sandstone and siltstone and minor crystal and lithic tuffs, chert, limestone and lava.

The upper Lower Jurassic Mt. Dilworth Formation consists of a thin sequence varying from black carbonaceous tuffs to siliceous massive tuffs and felsic ash flows. Minor sediments and limestone are present in the sequence. Locally pyritic varieties form strong gossans.

The Middle Jurassic Salmon River Formation is a late to post volcanic episode of banded, predominantly dark colored siltstone, greywacke, sandstone, intercalated claystone, minor limestone, argillite, conglomerate, littoral deposits, volcanic sediments and minor flows.

Overlying the above sequences are the Upper Jurassic Bowser Lake Group rocks. These rocks mark the western edge of the Bowser Basin and are also located as remnants on mountaintops in the Stewart area. These rocks consist of dark grey to black clastic rocks including silty mudstone and thick beds of massive, dark green to dark grey, fine to medium grained arkosic litharenite.

According to E.W. Grove, the majority of the rocks from the Hazelton Group were derived from the erosion of andesitic volcanoes subsequently deposited as overlapping lenticular beds varying laterally in grain size from breccia to siltstone. Alldrick's work to the north of Stewart has shown several volcanic centers in the surveyed area. Lower Jurassic volcanic centers in the Unuk River Formation are located in the Big Missouri Premier area and in the Brucejack Lake area. Volcanic centers within the Lower Jurassic Betty Creek Formation are located in the Mitchell Glacier and Knipple Glacier areas.

The granodiorites of the Coast Plutonic Complex largely engulf the Mesozoic volcanic terrain to the west. East of these (in the property area), smaller intrusive plugs range from quartz monzonite to granite to highly felsic. Some are likely related to the late phase offshoots of the Coast plutonism, other is synvolcanic and Tertiary. Double plunging, northwesterly - trending synclinal folds of the Salmon River and underlying Betty Creek Formations dominate the structural setting of the area. These folds are locally disrupted by small east-over thrusts on strikes parallel to the major fold axis, cross-axis steep angled faults which locally turn beds, selective tectonization of tuff units and major northwest faults which turn beds.

Local Geology

Figure 3 shows the general property geology after Massey, MacIntyre, Desjardins and Cooney -2005-1(Digital Map of British Columbia).

This map indicates that property is underlain by rocks of the Unuk River and Betty Creek Formations. In the course of sampling, rocks observed in the valley were almost exclusively volcanic, of felsic to intermediate composition. Alteration in the form of alunite/jarosite, silification, carbonatization, sericitization and chloritization was noted. Several gossanous areas were noted, one on the north side of North Goat Glacier, one associated with the Goat Mine mineralization and one along the south side of Goat Glacier. Feldspar porphyry float was noted in the lower portion of the Goat Glacier area. Work has shown that a dacitic/rhyolitic horizon is present in the property area. This horizon occurs along the north side of North Goat Glacier, and along the south side of Goat Glacier. This indicates that an anticlinal feature is present within the claims with the nose of the fold dipping to the east. This horizon is analogous to the Mount Dilworth Formation. The claims also follow the contact zone between the Mt Dilworth rhyolite and overlying Salmon River sedimentary formations, a similar stratigraphic sequence as that

hosting the Eskay Creek deposit and the BA mineralization being explored approximately 8 km to the south of the property. Along the east side of the claims, thinly bedded argillites from the Salmon River Formation are present.

Mineralization

Exploration programs on the area of the Goat property have indicated mineralization within the present claim group as follows:

1. Float rocks containing pervasive, fine-grained pyrite as well as pyritic bands within grey fine grained lapilli tuff rhyolitic rocks. This rhyolite appears to be present along the entire western length of the block as evidenced in float along moraines in both the Goat and North Goat Glaciers. Pyrite content can be up to 20 % in some of these highly siliceous float rocks. These rocks are present in the eastern edges of the lateral moraines indicating a possible source that occurs in the more easterly portions of claim areas.
2. Crudely laminated sulphide-quartz-siderite veins in float rocks containing massive sphalerite and disseminated to massive arsenopyrite, pyrite, tetrahedrite, freibergite and minor galena that probably originated from the Goat Mine. Mineralization was not observed in outcrop but was noted in float rocks on both the north and south sides of the ridge between the North Goat and Goat glaciers. The Goat Deposit consists of a parallel series of polymetallic silver - gold-zinc-lead veins that are crudely laminated sulphide-quartz-siderite veins with massive sphalerite and disseminated to massive arsenopyrite, pyrite, tetrahedrite, freibergite and minor galena. The Goat Deposit was a historic producer during the late 1970's with reported production of about 4,159 tonnes of ore with an average grade of 563 grams per tonne (g/t) silver, 1.72 g/t gold and 1.65 per cent (%) zinc with minor lead and copper from 3,186 tonnes of milled ore. A historic resource of 8,800 tonnes grading 4,782.9 g/t silver and 10.6 g/t gold was reported in 1979, however the resource is not compliant with National Instrument 43-101 guidelines.
3. Goat Valley Cirque Zone: Initial grab sampling of a number of narrow (30 cm) quartz carbonate veins has returned up to 17.83 g Au/t, 1321.8 g Ag/t, and 3.95% Ph. The veins are hosted by silicified volcanic rocks and are located 2 km southeast of the old Goat silver-gold Mine.
4. North Valley Zone: Initial sampling of the gossan zone that is hosted by silicified volcanic rocks has returned up to 10.62 g Au/t, 1280 g Ag/t, 0.33% Cu and 0.40% Zn. The zone is located approximately 1 km northeast of the old Goat Mine.
5. Coarse dacitic breccias containing pyrite with minor sphalerite and galena within both clasts as well as the matrix. The rocks are grey with coarse angular to sub-rounded fragments up to 20 cm in a black chloritic rich matrix that carries fine pyrite. Traces of sphalerite, galena, chalcopyrite and pyrite occur within the clasts and generally form less than 1 % of the rock. Pervasive sericite alteration is noted within these rocks.

6. Thinly bedded mudstones that have pyrite forming thin layers along bedding planes. The rocks usually have minor hydrozincite coatings which indicate the presence of sphalerite. Occasionally, fine galena is present along the sulphide bands.

7. Silicified dacitic rocks with local coarse sphalerite and galena along quartz veinlets. The rock is grey, siliceous with up to 25 % quartz veinlets cutting the rock in a random fashion. These rocks were only noted along the south side of the North Goat Glacier.

This exploration work in 2011, 2016 and 2017 indicates that the BA type mineralization which is a Kuroko-type volcanogenic massive sulphide (VMS) system composed of an exhalite horizon with related zinc-lead-silver mineralization is present within the Goat property boundaries. The BA mineralization consists of finely bedded sphalerite and pyrite with minor galena and chalcopyrite occurring below the main exhalite (red jasper/green to grey chert) within mudstones, mudstone breccias and dacite breccias. Numerous float boulders of red-green jasper which represent the exhalite are present along both glacial valleys.

In 2019, sampling indicated a new style of mineralization. An outcrop of strongly epidote quartz-carbonate-garnet altered/replaced, dark-green to almost black meta-volcanic rock; locally skarn was located. A granodiorite dyke outcrops nearby. The alteration follows along the primary stratification and fractures. Sulphide mineralization includes coarse crystalline pyrite, minor chalcopyrite and common molybdenite, the latter reaches the ore grades.

Appendix I shows illustrations of different mineralized rock types. Samples include skarn type with molybdenite, dacite breccias, mudstone and banded tuffaceous chert/exhalite. Of particular interest is sample GNK19-12A. It is a dark-grey to black, crudely stratified, mudstone to tuffaceous mudstone breccia. Mudstone fragments are usually angular indicating a very short transport after brecciation. Muddy-tuffaceous matrix is very abundant and includes very finely disseminated pyrite and probably sphalerite (both forming collophane wisps and irregular small dendrite-like bodies). Galena and probably sulphosaltes are very finely disseminated in matrix. Some fragments display a delicate minute-scale laminations (distal exhalite/cherty-tuffaceous mudstone).

The most common mineralized rock type is dacite breccia as shown in samples GTKM19-03, GTKM19-05 and GTKM19-10.

These show a fine grained to medium-grey volcanic breccia of predominant felsic (dacite?) porphyry fragments (subrounded to subangular) and limited amount of dark muddy/tuffaceous matrix. The rocks tend to be weakly silicified with a matrix rich in fine-crystalline to colloform pyrite (4-10%). Small-scale specks of galena occur in matrix and fragments; sphalerite is rare and forms locally very thin linings/lenses. These rocks tend to be coated with a black manganese stain.

Samples of banded tuffaceous chert/exhalate is shown in samples GTKM19-06 and GTKM19-15. Samples are dark-grey banded muddy/tuffaceous chert/exhalate with laminae/bands that are irregular and commonly discontinuous. This is probably due to incipient soft-sediment-type brecciation by downslope creepage and slumping of unconsolidated material. Interpretation: distal near-hydrothermal vent breccia. Several thin laminae (pale brown) consist of colloform sphalerite and minor pyrite. Subordinate galena occurs as very fine disseminations.

Significant metal values are shown on the various illustrations.

GEOCHEMICAL SAMPLING

Introduction

During the period July 13 to October 2, 2019 reconnaissance rock geochemical samples were taken from the area of the Goat claim area. The location of the sampling is shown in figure 4a and 4b at a scale of 1: 10,000. Icefield boundaries have been taken from the most recent government topographic map, however, these are often inaccurate: pronounced ablation in Stewart during the past years has exposed much new rock outcrop and reduced the size of snow and icefields considerably.

Altogether 159 rock samples were taken with locations for the all samples shown on Figure 4a, 4b and 4c.

Field Procedure and Laboratory Technique

Rock samples were taken in the field with a prospector's pick and collected in standard plastic sample bag. Grab samples were taken to ascertain character of mineralization at any specific locality. These samples consisted generally of three to ten representative pieces with total sample weight ranging between 0.5 to 2.0 kgs. Except for one sample from the molybdenite showing, all other samples were float.

All rock were analyzed at the Activation laboratories facility in Kamloops BC. Rock samples were first crushed to minus 10 mesh (70 % of sample) using jaw and cone crushers. Then 250 grams of the minus 10-mesh material was pulverized to minus 150 mesh using a ring pulverizer. Method of analysis is reported on the assay certificates. Appendix I has the analysis for the rock samples collected. Appendix II has the GPS locations, type of sample and brief descriptions.

Anomalous Zones

Rock geochemical sampling was principally restricted to float sampling of any identified mineralized rocks in the North Glacier valley and Goat Valley.

In the 2019 geochemical program, a total of 158 float and 1 bedrock samples were collected. Sampling was carried out along moraines and valley bottoms extending from

known gold-silver bearing areas on the property. An attempt was also made to locate the area of the Goat Cirque showing. Samples were taken of any pyritiferous, manganese stained or sulphide bearing bedrock or float boulders. Sampling indicated values ranging from <5 ppb to 5.82 g/t gold, <0.2 to 1270 g/t silver, < 1 ppm to 2.51 % copper, <2 ppm to 6.51 % lead and 27ppm to 10 % zinc.

Highlights of the sampling include;

- **541 g/t Ag with 2.41 % Pb and 2.52 % Zn in float sample GNK-12A**
- **395 g/t Ag with 5.51 % Pb and 10.0 % Zn in float sample A19-123**
- **0.23 % Mo from bedrock sample GTKM19-29**
- **5.82 g/t Au and 1270 g/t Ag in float sample A19-130 below the North Showing.**

Sample A19-130 is a float boulder with minor pyrite and significant tetrahedrite. It appears to represent mineralization in the North zone.

GNK-12A is boulder with fragments of sulphide in a mudstone matrix indicating a formation close to the vent area. It is distinctive in that it had no apparent iron staining on the outside. Polished sections of the rock show fine disseminated galena as well as clasts of sphalerite. Sample A19-123 has bedded base metal sulphides, namely sphalerite and minor galena.

Outcrop sample GTKM19-29 is a strongly epidote quartz-carbonate-garnet altered/replaced, dark-green to almost black meta-volcanic rock; locally skarn. Sulphide mineralization includes coarse crystalline pyrite, minor chalcopyrite and common molybdenite.

The 2019 sampling shows a strong molybdenite content for the area of the claims. Table 1 shows the molybdenum content of select samples as follows:

Table 1 Molybdenum Results

		Au	Ag	Cu	Pb	Zn	Mo
Sample #	Location	ppb	ppm	ppm	ppm	ppm	ppm
GTKM19-01	Goat Valley	7	48.2	42	0.56%	1.01%	93
H-3		< 5	10.2	9	2070	1860	57
A19-122		28	9.4	66	1270	231	469
A19-184		< 5	35.5	948	2360	4750	119
A19-185		< 5	21.1	180	2100	1.91%	111
A19-186		< 5	11.7	705	540	3470	81
GTKM19-29		< 5	< 0.2	76	< 2	105	2310

GTKM19-33		22	1.5	4	24	27	81
GTKM19-36		5	98.1	22	0.60%	804	146
SK19-07	North Goat Valley	< 5	34.4	88	0.47%	4030	90
SK19-10		< 5	102	1280	0.96%	1.15%	224
SK19-12		< 5	15.5	366	365	2990	310
GNK19-02A		< 5	1.4	15	195	1700	231
GNK19-12A		7	541	288	2.41%	2.52%	84
GNK19-14		< 5	29.6	149	2740	1.28%	667

Figures 4a, 4b and 4c shows the location of the samples with accompanying assay results for gold, silver, copper, lead and zinc.

Appendix II shows the assay results and Appendix III, IV and V show the sample locations and descriptions for Alex Walus, Krzysztof Mastalerz and E. Kruchkowski respectively.

Further geochemical surveys are recommended to locate the area of the North and Goat Cirque zones values and extend survey area, especially the area of the molybdenite showing.

PETROGRAPHIC STUDIES

The section is excerpted from a report by A. Walus as follows:

“Seven polished and one thin section were prepared from mineralized float samples collected from glacial moraine on Goat Property. All samples except sample GNK-12A we collected from glacial valley (in this report refer to as Goat Valley) which hosts historic Goat Mine (Minfile No. 104A-002), sample GNK-12A was collected from the next valley to the north. Sample GTKM19-29 most likely derives from the nearby rocks. The remaining seven samples represent rocks brought by glacier from upper, difficult to access parts of the Goat Valley. All samples we stained with sodium cobaltinitrite for easy K-feldspar identification.

Samples A19-124, A19-185 and A19-186 represent cherty limestone mineralized with sphalerite, galena, pyrite and chalcopyrite. Sulphides are syngenetic, formed during deposition process along with carbonate and chert. Sample A19-141 was identified as quartz cemented trachyte breccia carrying minor amounts of sphalerite, galena and chalcopyrite. Numerous boulders of this rock often described in the field as black matrix felsic breccia can be seen in the Goat Valley. In a few places within the glacial moraine it is the dominant rock type for several tens of metres. Sample GNK-12A is from silicified trachyte or trachyte tuff mineralized with pyrite, sphalerite and galena. The sample displays distinct colloform texture which is characteristic of VMS environment. The sample assayed 541 g/t Ag but no silver minerals were identified under the microscope. Sample GTKM-36 is a silicified volcanic flow mineralized with pyrrhotite, pyrite and

galena. Sample GTKM19-29 is a skarn almost completely replaced by carbonate and quartz with minor amounts of pyrite, chalcopyrite and sphalerite. Sample GTKM19-34 (thin section) is a finely laminated limestone/chert.”

INTERPRETATION AND CONCLUSIONS

1. The Goat property is located about 34 kilometers northeast of Stewart, British Columbia in the Skeena Mining Division. It covers a series of fault related quartz veins in an area of Jurassic Hazelton pyroclastic volcanic rocks and Cretaceous Bowser Lake sedimentary rocks.
2. The claims cover the Goat Deposit, which consists of a parallel series of polymetallic silver - gold-zinc-lead veins that are crudely laminated sulphide-quartz-siderite veins with massive sphalerite and disseminated to massive arsenopyrite, pyrite, tetrahedrite, freibergite and minor galena. The Goat Deposit was a historic producer during the late 1970's with reported production of about 4,159 tonnes of ore with an average grade of 563 grams per tonne (g/t) silver, 1.72 g/t gold and 1.65 per cent (%) zinc with minor lead and copper from 3,186 tonnes of milled ore. A historic resource of 8,800 tonnes grading 4,782.9 g/t silver and 10.6 g/t gold was reported in 1979, however the resource is not compliant with National Instrument 43-101 guidelines.
3. The property contains approximately 1210.40 hectares in 8 separate claims.
4. Previous exploration programs on the area of the Goat property indicated mineralization within the present claim group as follows:
 - a. Float rocks containing pervasive, fine-grained pyrite as well as pyritic bands within grey fine-grained lapilli tuff rhyolitic rocks. This rhyolite appears to be present along the entire western length of the block as evidenced in float along moraines in both the Goat and North Goat Glaciers.
 - b. Crudely laminated sulphide-quartz-siderite veins in float rocks containing massive sphalerite and disseminated to massive arsenopyrite, pyrite, tetrahedrite, freibergite and minor galena that probably originated from the Goat Mine mineralization.
 - c. Coarse dacitic breccias containing pyrite with minor sphalerite and galena within both clasts as well as the matrix.
 - d. Thinly bedded mudstones that have pyrite forming thin layers along bedding planes.
 - e. Silicified dacitic rocks with local coarse sphalerite and galena along quartz veinlets.
5. This exploration work in 2011, 2016 and 2017 indicates that the BA type mineralization which is a Kuroko-type volcanogenic massive sulphide (VMS)

system composed of an exhalite horizon with related zinc-lead-silver mineralization is present within the Goat property boundaries. The BA mineralization consists of finely bedded sphalerite and pyrite with minor galena and chalcopyrite occurring below the main exhalite (red jasper/green to grey chert) within mudstones, mudstone breccias and dacite breccias.

6. It is recommended that the next exploration phase consist of further sampling to define the bedrock sources of the mineralization and locate the Goat Cirque showings and expand the exploration in the area of molybdenite mineralization.
7. In the 2019 geochemical program, a total of 159 float and bedrock samples were collected. Sampling was carried out along moraines and valley bottoms in an attempt to locate the source of the Kuroko type mineralization. Sampling also tested for gold - silver mineralization in float rocks below the North mineral showing. Samples were taken of any pyritiferous, manganese stained or sulphide bearing bedrock or float boulders. Sampling indicated values ranging from <5 ppb to 5.82 g/t gold, <0.2 to 1270 g/t silver, < 1 ppm to 2.51 % copper, <2 ppm to 6.51 % lead and 27ppm to 10 % zinc.
8. Outcrop sampling has discovered pyrite, minor chalcopyrite and molybdenite in skarn type rocks.
9. Float sampling below the North zone indicates significant gold and silver associated with tetrahedrite'
10. Estimated cost of the program is \$150,000.00.

RECOMMENDATIONS AND BUDGET

It is recommended that the next exploration phase consist of further sampling in the area of the North, Goat Cirque and Goat Mine showings.

Estimated Cost of the Program

Geochemical assays, 200 samples @ \$25/sample	\$5,000.00
2 Geologists, 20 days @ \$700.00/ day	\$28,000.00
2 Field assistants, 20 days @ \$300.00/day	\$12,000.00
Accommodation and food (in Stewart)	\$2,000.00
Vehicle rental	\$2,000.00
Freight	\$1,000.00
Report	\$5,000.00
Drafting	\$2,000.00
Helicopter 40 hours @ \$1,800.00/hour	\$72,000.00

Contingency

\$11,000.00

Total

\$150,000.00

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CERTIFICATE of AUTHORS' QUALIFICATIONS

I, Edward R. Kruchkowski, geologist, residing at 23 Templeside Bay, N.E., in the City of Calgary, in the Province of Alberta, hereby certify that:

1. I received a Bachelor of Science degree in Geology from the University of Alberta in 1972.
2. I have been practicing my profession continuously since graduation.
3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.
5. I am a consulting geologist working on behalf of Resources Ltd.
6. This report is based on the supervision of sampling as well as conducting some of the geochemical survey.
7. This report is based on a review of reports, documents, maps and other technical data on the property area.
8. I am familiar with these types of deposits having conducted exploration programs on these types of occurrences in the Stewart region.

Date:

E.R. Kruchkowski, B.Sc.

STATEMENT OF EXPLORATION COSTS

E Kruchkowski - geologist 9 days @ \$800.00/day Aug 1-5 and Sept. 27-30, 2019	\$7,200.00
Alex Walus – geologist 9 days @ \$650.00/day Aug 1-5 and Sept. 27-30, 2019	\$5,850.00
Krzys Mastalerz – geologist 4 days @ \$650.00/day Aug 1-5 and Sept. 27-30, 2019	\$5,850.00
Hopi Kruchkowski – geological assistant 9 days @ \$300.00/day Aug 1-5 and Sept. 27-30, 2019	\$2,700.00
Tim Stoneburgh – geological assistant 5 days @ \$300.00/day September 7 to 10 and 30, 2019	\$1,500.00
Report Writing	\$2,100.00
Drafting	\$1,500.00
Sample analysis – 159geochemical samples @ \$44.65	\$7,099.35
Truck use 9 days – 2 @ \$100.00/day	\$1,800.00
Polaris 6x6- 2 @ 9 days @ \$250.00/day	\$4,500.00
Hotel and Meal Expenses 36-man days @ \$150.00/day	\$5,400.00
Helicopter – Bajo Reef-August 3 2019	\$826.00
Helicopter – Yellowhead-Sept 29 and 30 2019	\$4,485.00
Geological supplies	\$200.00
Pro-rated travel time for geologists and assistants	\$500.00
Total	<u>\$56,010.35</u>

Appendix I

Illustrations showing Different Mineralized Rock Types

Goat 2019 Exploration Program

Plate 1

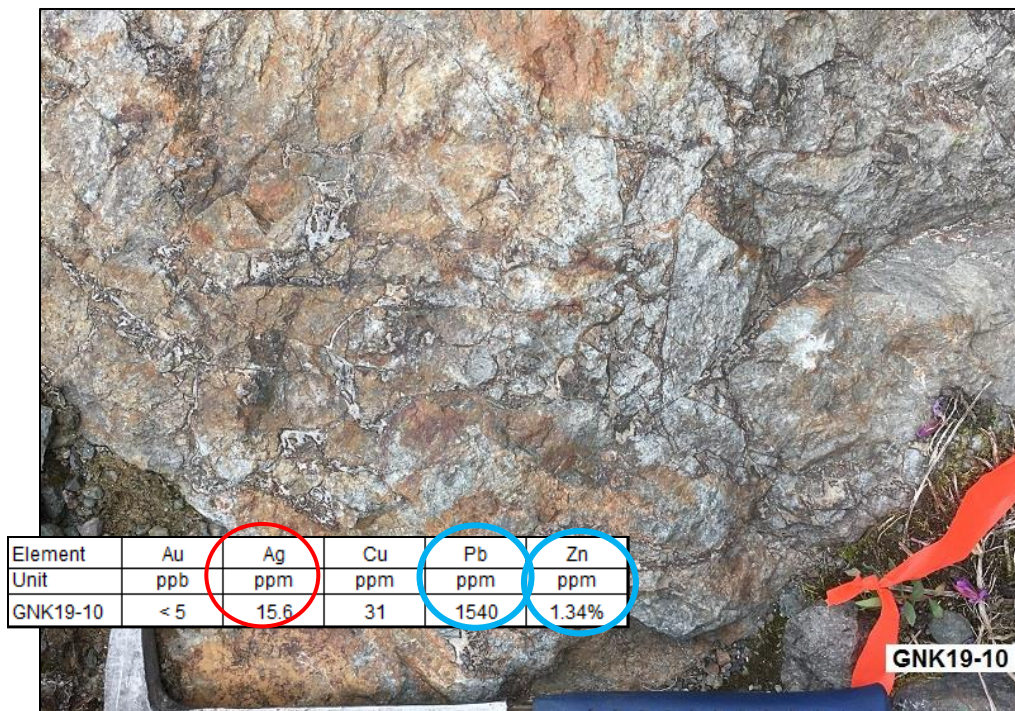


Fig. 1. Sample GNK19-10. **Crackle breccia** of a felsic-to-intermediate volcanic rock (dacite/andesite). The rock is interpreted to have been shattered *in situ* into angular fragments due to a process of hydrothermal fracturing. A limited volume of matrix/hydrothermal siliceous cement fills narrow cracks between fragments and contains abundant sphalerite, some pyrite and minor disseminated galena.

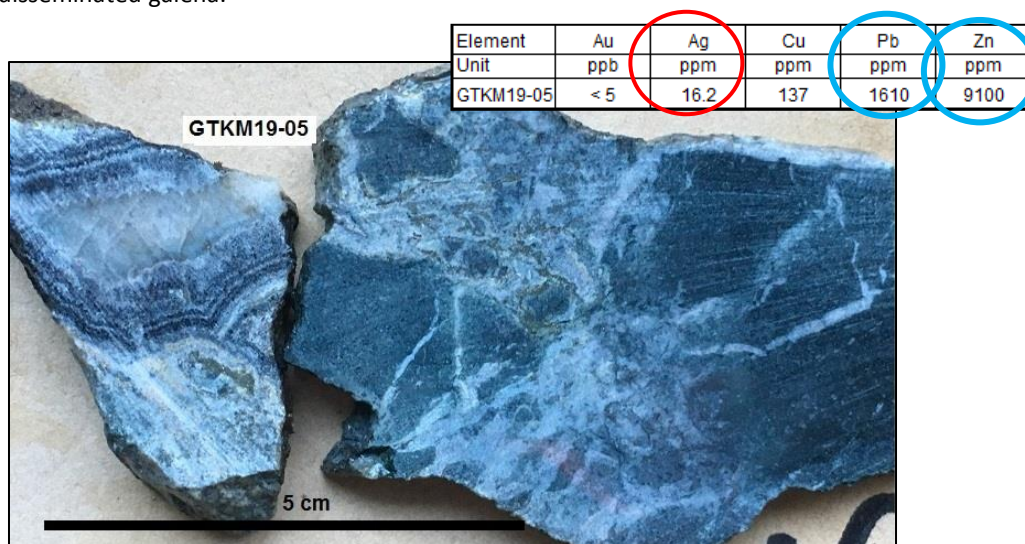


Fig. 2. Sample GTKM19-05. Medium-grey tectonic breccia of dark-grey andesite tuff and/or argillaceous tuff. Angular fragments of the host rock is cemented by calcite, locally zonal to drusy and other carbonates and minor quartz. Carbonate fracture fills and pods locally include irregular wisps/discontinuous laminae of very fine (colloform) pyrite and minor sphalerite. Subordinate specks of galena and sphalerite occur in carbonate and in host-rock fragments.

Goat 2019 Exploration Program

Plate 2

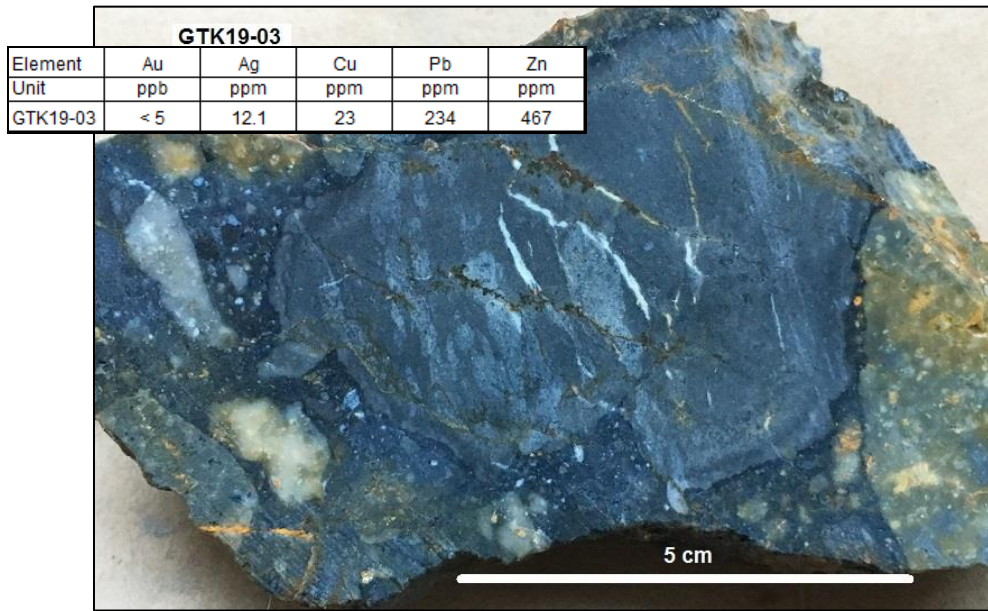


Fig. 1. Sample GTK19-03. “**Black matrix breccia**” of mixed composition (fragments composed of intermediate and felsic(?) porphyritic volcanic rocks and tuffaceous/cherty mudstone). Matrix is moderately abundant and consists of smaller rock and crystal fragments, and finer-grained black, moderately siliceous tuffaceous-muddy mass. Both matrix and fragments contain trace of finely disseminated galena, pyrite and specks of sphalerite.

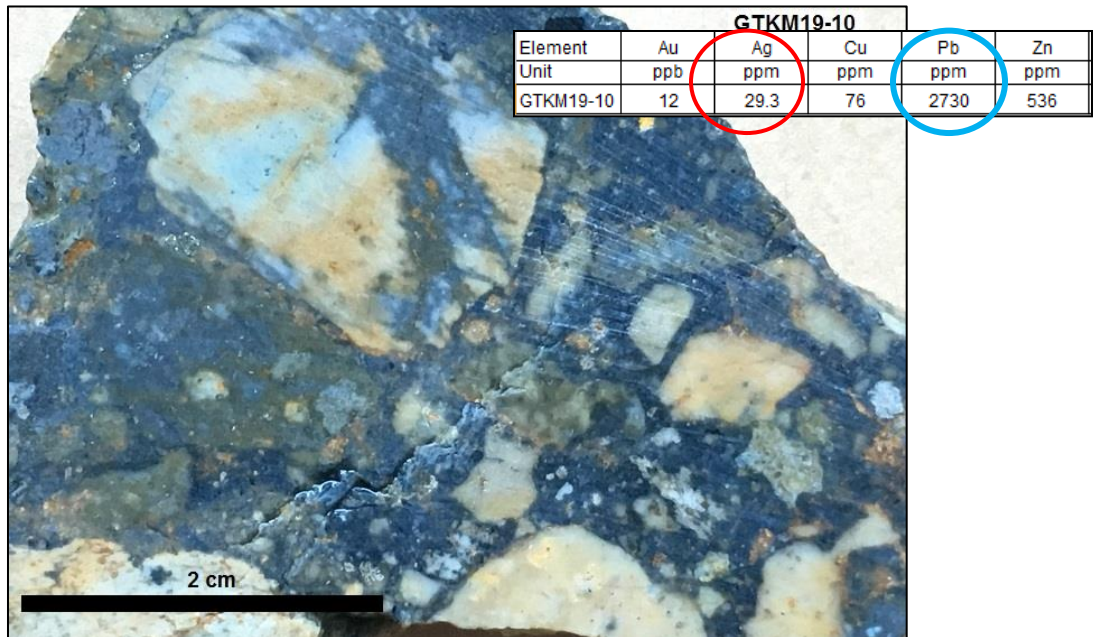


Fig. 2. Sample GTKM19-10. Fine grained “**Black matrix breccia**” with predominant angular fragments of felsic(?) and subordinately, intermediate volcanics. Abundant muddy-tuffaceous(?) matrix. Weakly siliceous. Matrix and fragments contain 2-3% of finely disseminated pyrite; fine crystalline galena is dispersed predominantly in matrix; minor sphalerite.

Goat 2019 Exploration Program

Plate 3

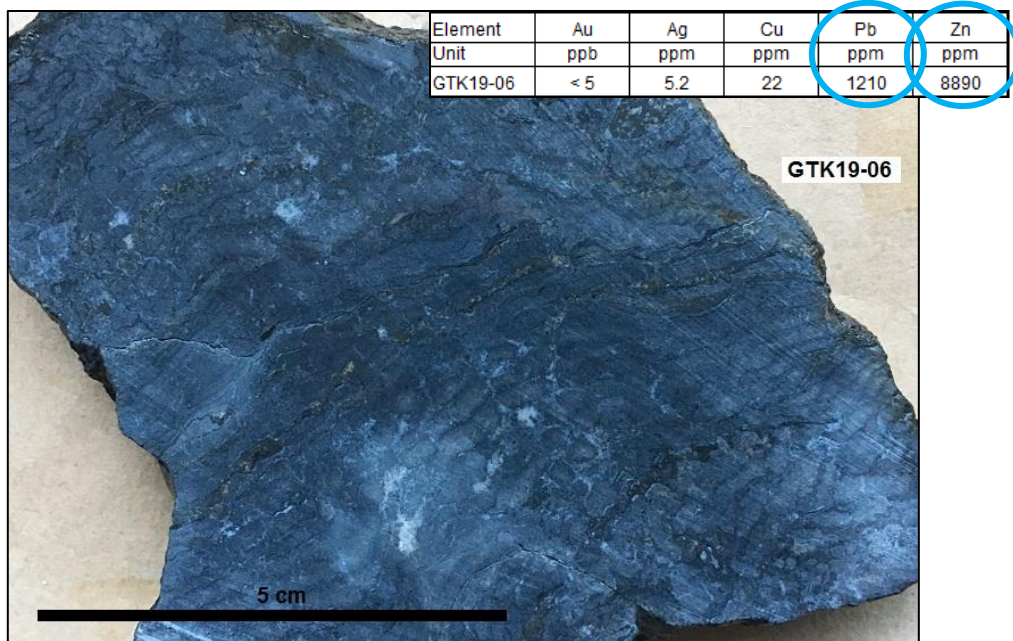


Fig. 1. Sample GTK19-06. Dark-grey banded muddy/tuffaceous chert/exhalite. Note that laminae/bands are irregular and commonly discontinuous due to incipient soft-sediment-type brecciation by downslope creepeage and slumping of unsolidified material. Interpretation: distal near-hydrothermal vent breccia. Several thin laminae (pale brown) consist of colloform sphalerite and minor pyrite. Subordinate galena occurs as very fine disseminations.

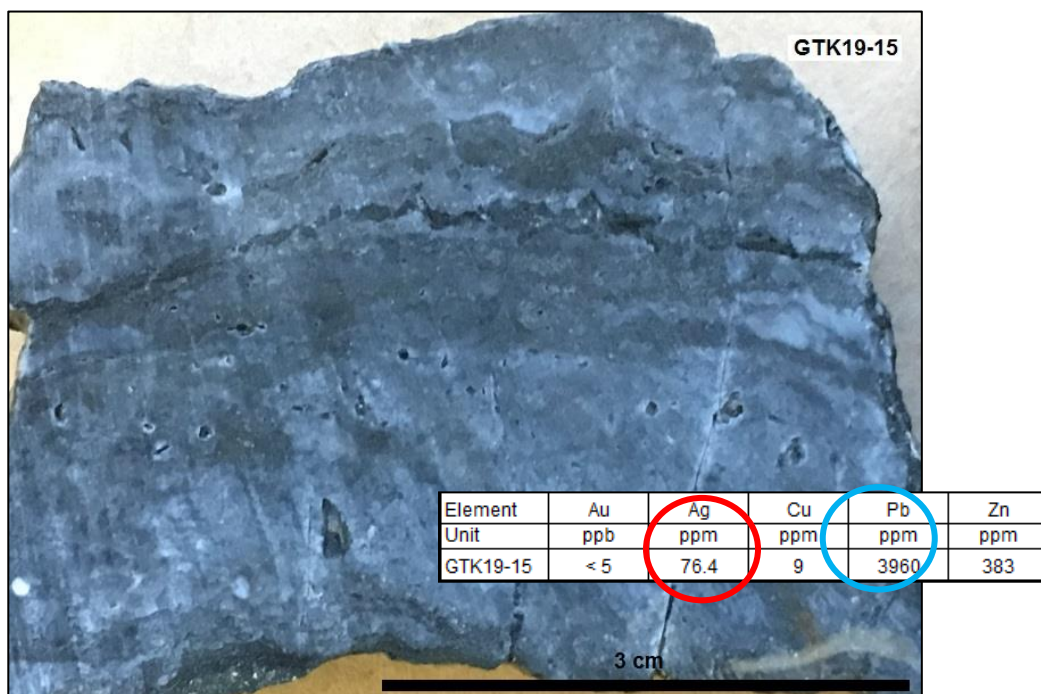


Fig. 2. Sample GTK19-15. Medium-grey crudely banded chert-to-exhalite. Note that laminae/bands are irregular, discontinuous, locally wispy and form gentle undulations/hummocks. Locally irregular vugs. Interpretation: distal hydrothermal vent precipitate. Some laminae (pale brown) contain extremely fine colloform sphalerite(?) and pyrite(?). Galena occurs as very fine disseminations. Most likely, very finely disseminated sulphosalts(?).

Goat 2019 Exploration Program

Plate 4

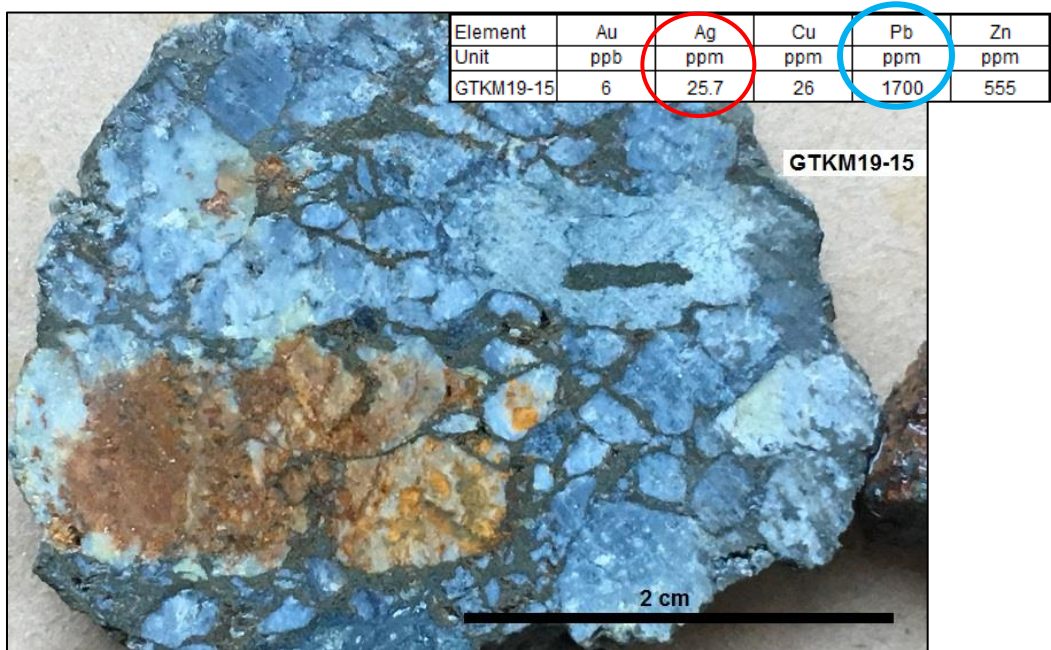


Fig. 1. Sample GTKM19-05. Medium-grey volcanic breccia of predominant felsic (dacite?) porphyry fragments (subrounded to subangular) and limited amount of dark muddy/tuffaceous matrix. Matrix is rich in fine-crystalline to colloform pyrite (4-10%). Small-scale specks of galena occur in matrix and fragments; sphalerite is rare and forms locally very thin linings/lenses.

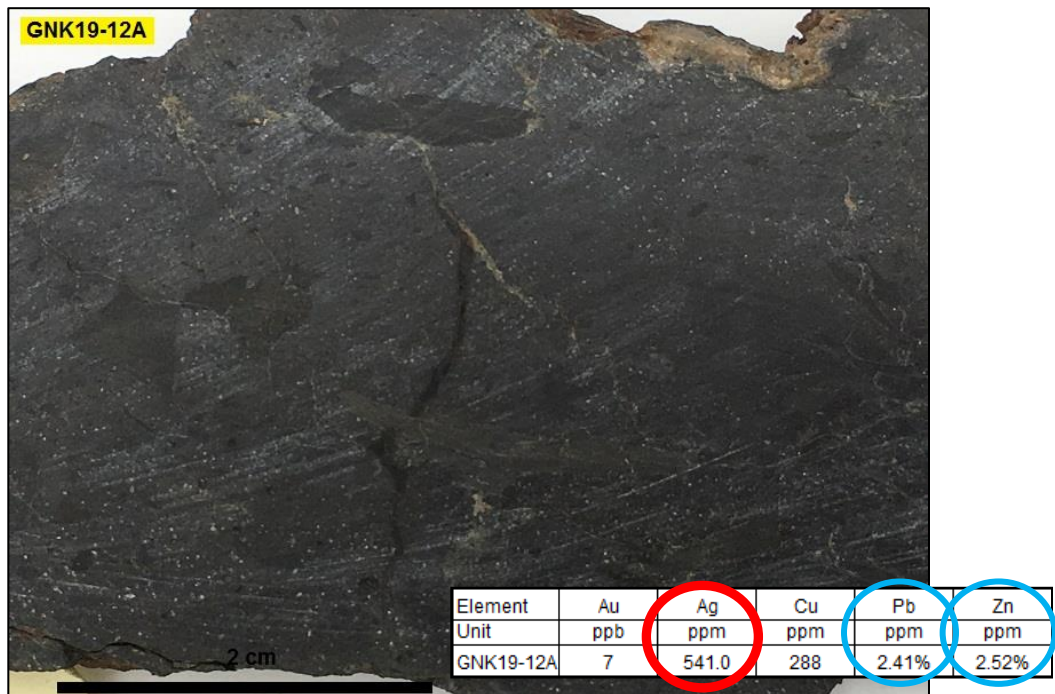


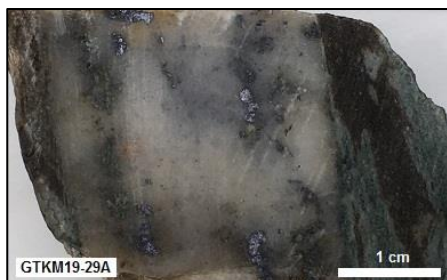
Fig. 2. Sample GNK19-12A. Dark-grey to black, crudely stratified, **mudstone to tuffaceous mudstone breccia**. Mudstone fragments are usually angular indicating a very short transport after brecciation. Muddy-tuffaceous matrix is very abundant and includes very finely disseminated pyrite and probably sphalerite (both forming collophane wisps and irregular small dendrite-like bodies). Galena and probably sulphosalts are very finely disseminated in matrix. Some fragments display a delicate minute-scale laminations (distal exhalite/cherty-tuffaceous mudstone). Very strong, ore-grade **silver mineralization**.

Goat 2019 Exploration Program

Plate 5



Fig. 1. **Goat-Molly Showing** on the northern slope of the Goat Valley. Outcrop of strongly epidote-quartz-carbonate-garnet altered/replaced, dark-green to almost black meta-volcanic rock; locally skarn. The granodiorite dyke outcrops nearby. The alteration follows along the primary stratification and fractures. Sulphide mineralization includes coarse crystalline pyrite, minor chalcopyrite and common **molybdenite**, the latter reaches the ore grades.



Element	Au	Ag	Cu	Pb	Zn	Mo
Unit	ppb	ppm	ppm	ppm	ppm	ppm
GTKM19-29	< 5	< 0.2	76	< 2	105	2310

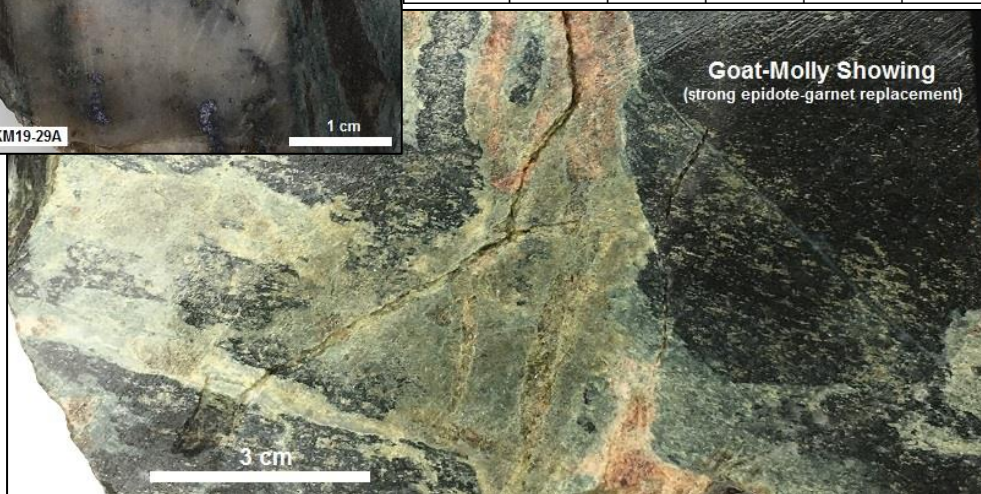


Fig. 2. Sample GTKM19-29. Saw-cut hand specimen demonstrates a strong epidote(green)-garnet(pale-brown) replacements (skarn) of the original mete-andesite(?) – dark-green to almost black host rock. Inset depicts a zone of strong quartz carbonate replacement with numerous blebs of coarse crystalline **molybdenite**. Note the very high, ore-grade content of molybdenum.

Appendix II
Assay Results



Date Submitted: 13-Aug-19
Invoice No.: A19-10555
Invoice Date: 09-Sep-19
Your Reference: Stewart

Decade Resources
426 King Street
Stewart BC V0T 1W0
Canada

ATTN: Ed Kruchkowski

CERTIFICATE OF ANALYSIS

102 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops QOP AA-Au (Au - Fire Assay AA)

Code 1A3-Kamloops QOP AA-Au (Au - Fire Assay Gravimetric)

Code 1E3-Kamloops QOP AquaGeo (Aqua Regia ICPOES)

REPORT **A19-10555**

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

Notes:

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

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613

E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-10555

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GTK19-01	5	12.8	16.4	27	2560	2	3	87	1580	0.45	58	< 10	18	< 0.5	3	0.23	11	7	2.43	< 10	< 1	0.36	15
GTK19-02	< 5	0.6	2.0	3	4290	< 1	< 1	185	239	1.58	4	< 10	85	0.8	< 2	7.93	8	1	4.01	< 10	< 1	0.42	15
GTK19-03	< 5	12.1	3.3	23	162	3	2	234	467	0.40	42	< 10	17	< 0.5	4	0.28	4	7	2.44	< 10	< 1	0.36	13
GTK19-04	< 5	6.4	22.3	14	845	2	6	310	2190	1.15	20	13	24	0.8	< 2	2.12	14	4	3.15	< 10	< 1	0.57	12
GTK19-05	< 5	0.5	5.5	7	5630	1	< 1	82	135	1.07	34	< 10	83	< 0.5	5	> 10.0	< 1	4	4.06	< 10	3	0.01	< 10
GTK19-06	< 5	5.2	117	22	17900	25	10	1210	8890	0.07	80	< 10	48	< 0.5	2	> 10.0	4	< 1	0.90	< 10	5	0.05	< 10
GTK19-07	14	19.4	8.9	126	1760	11	15	2780	693	0.78	59	< 10	< 10	0.7	< 2	4.71	28	5	7.67	< 10	< 1	0.34	< 10
GTK19-08	7	2.7	4.0	24	771	1	6	221	357	0.83	14	< 10	33	0.7	4	1.95	11	7	2.58	< 10	< 1	0.42	16
GTK19-09	< 5	2.4	19.7	122	1610	< 1	4	112	1770	1.87	21	< 10	180	0.7	< 2	2.84	16	13	6.57	10	< 1	0.18	18
GTK19-10	< 5	0.6	3.0	49	2090	< 1	12	75	678	1.93	23	< 10	239	0.6	< 2	7.29	15	69	4.77	10	< 1	0.11	13
GTK19-11	< 5	3.6	< 0.5	5	58	2	< 1	91	57	0.56	23	< 10	96	< 0.5	< 2	0.14	< 1	6	1.23	< 10	< 1	0.50	17
GTK19-12	< 5	0.7	< 0.5	2	50	20	1	26	48	0.48	25	< 10	23	< 0.5	< 2	0.09	< 1	5	1.38	< 10	< 1	0.41	11
GTK19-13	< 5	0.4	< 0.5	93	647	1	46	18	87	1.41	< 2	< 10	56	< 0.5	< 2	1.49	14	40	3.05	< 10	< 1	0.44	< 10
GTK19-14	5	0.4	< 0.5	31	454	8	17	10	59	1.27	11	10	16	< 0.5	< 2	0.25	5	26	2.36	< 10	< 1	0.44	< 10
GTK19-15	< 5	76.4	5.5	9	115	15	1	3960	383	0.04	100	< 10	41	< 0.5	< 2	0.01	< 1	22	0.89	< 10	4	0.06	< 10
GTK19-16	< 5	7.1	< 0.5	3	29	3	< 1	129	64	0.75	19	14	17	0.5	< 2	0.06	< 1	2	2.04	< 10	< 1	0.64	17
GTK19-17	< 5	0.6	0.8	1	1270	< 1	1	43	383	0.92	3	< 10	163	< 0.5	< 2	2.29	3	5	2.05	< 10	< 1	0.45	20
GTK19-18	< 5	11.2	2.7	12	1350	6	< 1	> 5000	863	0.37	13	< 10	28	< 0.5	< 2	3.11	9	6	1.68	< 10	< 1	0.33	15
GTK19-19	10	25.3	210	27	4750	2	4	> 5000	> 10000	0.15	< 2	< 10	26	< 0.5	< 2	6.76	2	12	1.90	< 10	2	0.12	< 10
GTK19-20	55	11.3	1.1	> 10000	3760	< 1	< 1	27	52	0.30	2	< 10	56	< 0.5	< 2	> 10.0	2	4	2.49	< 10	< 1	0.22	< 10
GTK19-21	< 5	2.0	0.7	46	76	17	3	1050	84	0.50	44	< 10	16	< 0.5	< 2	0.11	3	6	1.99	< 10	< 1	0.41	13
GTK19-22	< 5	0.9	1.0	51	778	1	5	32	125	1.15	15	11	151	0.6	< 2	3.74	5	8	1.54	< 10	< 1	0.64	18
GTK19-23	8	5.8	4.3	27	223	4	4	114	505	0.62	39	10	< 10	< 0.5	2	0.23	2	7	5.07	< 10	< 1	0.41	12
GTK19-24	< 5	< 0.2	0.8	32	1820	5	2	45	24	0.48	9	< 10	919	< 0.5	4	> 10.0	< 1	7	4.28	< 10	< 1	0.34	< 10
GTK19-25	7	< 0.2	< 0.5	8	55	51	2	30	40	0.23	26	< 10	22	< 0.5	< 2	0.08	< 1	11	1.17	< 10	< 1	0.29	16
GTK19-26	< 5	25.3	20.1	26	4560	2	2	2360	2160	0.52	24	10	79	0.7	< 2	0.29	9	8	2.55	< 10	< 1	0.42	15
GTKM19-01	7	48.2	134	42	335	93	5	> 5000	> 10000	0.15	499	< 10	< 10	< 0.5	4	< 0.01	17	9	2.26	< 10	26	0.15	< 10
GTKM19-02	< 5	8.5	11.0	55	4270	1	2	552	956	0.44	18	< 10	53	< 0.5	2	1.84	11	7	3.07	< 10	< 1	0.35	17
GTKM19-03	< 5	3.2	19.7	38	12100	5	26	245	1750	0.93	520	< 10	80	< 0.5	4	> 10.0	14	4	4.21	< 10	2	0.14	< 10
GTKM19-04	9	0.8	< 0.5	16	128	25	6	78	46	0.40	180	< 10	< 10	< 0.5	< 2	0.08	< 1	9	5.21	< 10	< 1	0.34	< 10
GTKM19-05	< 5	16.2	137	137	7630	7	42	1610	9100	1.73	42	< 10	39	0.6	< 2	9.04	30	38	3.44	< 10	17	0.68	< 10
GTKM19-06	16	7.7	12.5	63	1840	1	< 1	209	1550	0.19	< 2	< 10	43	< 0.5	< 2	0.36	1	10	1.38	< 10	< 1	0.13	< 10
GTKM19-07	< 5	< 0.2	< 0.5	3	1820	< 1	6	28	234	1.28	11	12	488	< 0.5	< 2	4.57	11	9	3.69	< 10	< 1	0.75	17
GTKM19-08	< 5	18.5	5.3	88	1420	2	2	2250	921	0.56	31	11	49	0.8	< 2	0.49	13	18	1.98	< 10	< 1	0.43	14
GTKM19-09	< 5	12.5	84.9	18	557	< 1	5	4190	5390	0.38	42	< 10	68	< 0.5	< 2	0.14	4	10	1.31	< 10	1	0.35	13
GTKM19-10	12	29.3	3.7	76	1140	2	1	2730	536	0.24	48	< 10	36	< 0.5	< 2	0.27	8	11	1.95	< 10	< 1	0.30	16
GTKM19-11	13	9.8	0.6	4800	777	1	11	26	124	2.31	< 2	< 10	112	< 0.5	< 2	1.78	15	15	4.45	< 10	< 1	0.73	< 10
GTKM19-12	< 5	< 0.2	6.4	9	537	1	1	4	5160	1.06	< 2	< 10	91	< 0.5	< 2	2.03	3	2	2.60	< 10	< 1	0.40	17
GTKM19-13	< 5	< 0.2	23.8	94	2370	8	6	9	1980	0.76	< 2	< 10	77	< 0.5	3	6.00	11	8	2.73	< 10	< 1	0.30	< 10
GTKM19-14	28	77.1	309	109	282	18	1	> 5000	> 10000	0.42	222	< 10	20	< 0.5	< 2	0.37	13	5	1.37	< 10	10	0.34	19
GTKM19-15	6	25.7	3.3	26	177	63	2	1700	555	0.56	707	< 10	< 10	0.5	< 2	0.05	17	3	5.64	< 10	< 1	0.45	11
GTKM19-16	9	36.6	12.2	48	56	5	< 1	1800	1150	0.46	110	< 10	23	< 0.5	< 2	0.19	5	5	1.29	< 10	< 1	0.41	22

Results

Activation Laboratories Ltd.

Report: A19-10555

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GNK19-01	5	24.1	127	33	547	20	5	812	> 10000	2.29	216	< 10	15	< 0.5	< 2	2.94	24	2	3.72	< 10	22	0.36	13
GNK19-02A	< 5	1.4	9.7	15	2060	231	1	195	1700	0.93	248	< 10	< 10	0.6	6	2.46	12	< 1	5.01	< 10	1	0.47	10
GNK19-02B	< 5	0.3	3.1	12	3530	25	4	44	449	1.68	88	16	60	0.8	3	7.30	11	3	3.30	< 10	< 1	0.63	15
GNK19-03	10	10.2	34.2	5	3290	3	< 1	1470	2780	0.44	51	< 10	47	< 0.5	< 2	0.18	< 1	9	0.72	< 10	< 1	0.35	21
GNK19-04	< 5	0.6	1.1	4	480	8	1	99	201	0.70	27	< 10	102	< 0.5	< 2	0.14	5	16	1.18	< 10	< 1	0.51	30
GNK19-05	< 5	1.8	4.5	3	282	2	2	285	324	0.71	61	< 10	14	< 0.5	< 2	0.83	7	6	2.20	< 10	< 1	0.56	< 10
GNK19-06	< 5	5.8	59.8	26	357	6	< 1	85	> 10000	0.68	87	12	15	< 0.5	5	0.31	4	4	2.80	< 10	23	0.50	19
GNK19-07	< 5	3.5	16.2	927	150	37	2	273	2430	0.04	141	< 10	22	< 0.5	< 2	0.17	7	30	0.91	< 10	< 1	0.03	< 10
GNK19-08	< 5	0.2	3.8	4	742	< 1	2	52	747	2.01	12	22	201	1.3	< 2	0.60	2	5	3.07	< 10	< 1	0.81	22
GNK19-09	< 5	0.4	6.9	9	77	3	< 1	18	1160	0.46	39	< 10	63	< 0.5	< 2	0.12	< 1	11	1.01	< 10	3	0.35	39
GNK19-10	< 5	15.6	122	31	2140	8	5	1540	> 10000	1.61	129	71	30	0.6	< 2	5.92	21	2	1.97	< 10	9	0.34	21
GNK19-11	< 5	0.3	2.2	1	5070	2	3	23	198	0.09	119	< 10	84	< 0.5	< 2	8.23	4	9	5.47	< 10	< 1	0.04	< 10
GNK19-12A	7	> 100	372	288	474	84	5	> 5000	> 10000	0.40	3760	< 10	< 10	< 0.5	< 2	0.14	< 1	7	12.8	< 10	60	0.20	< 10
GNK19-12B	< 5	3.0	45.0	16	2510	23	4	243	705	0.53	124	< 10	35	0.6	< 2	4.79	9	15	2.51	< 10	2	0.24	< 10
GNK19-13	6	4.7	52.5	26	2670	13	3	759	6920	2.44	85	21	40	0.7	< 2	6.21	34	2	2.72	< 10	4	0.36	19
GNK19-14	< 5	29.6	164	149	4690	667	1	2740	> 10000	0.58	894	12	15	< 0.5	6	9.34	54	7	2.69	< 10	16	0.38	< 10
E-1	6	12.8	4.6	34	3320	5	2	2090	712	0.48	21	< 10	56	0.5	4	0.44	10	8	2.68	< 10	< 1	0.33	15
E-2	83	13.7	74.4	14	479	61	8	4750	6160	0.25	619	< 10	< 10	< 0.5	3	0.03	21	11	3.05	< 10	9	0.20	< 10
H-1	< 5	17.9	3.5	13	90	4	1	439	312	0.45	38	< 10	10	< 0.5	5	0.05	3	5	2.45	< 10	< 1	0.39	< 10
H-2	< 5	5.9	20.0	22	1270	1	3	1030	2810	0.32	62	< 10	59	< 0.5	< 2	2.04	15	7	2.44	< 10	< 1	0.29	11
H-3	< 5	10.2	17.3	9	191	57	2	2070	1860	0.06	444	< 10	< 10	< 0.5	< 2	0.02	4	22	3.16	< 10	3	0.06	< 10
H-4	< 5	13.2	18.8	8	176	47	2	2320	1200	0.08	325	< 10	12	< 0.5	4	0.03	5	35	2.23	< 10	3	0.07	< 10
H-5	< 5	14.4	16.3	15	361	3	1	5000	2100	0.33	87	< 10	71	< 0.5	< 2	0.51	1	11	1.13	< 10	< 1	0.29	19
H-6	< 5	16.6	23.5	16	213	2	< 1	> 5000	2910	0.43	127	< 10	59	0.6	< 2	0.32	2	9	1.18	< 10	1	0.38	20
H-7	< 5	0.6	0.8	< 1	8970	11	2	44	383	0.80	33	< 10	30	1.4	3	0.21	< 1	12	16.8	10	< 1	0.01	< 10
A19-107	< 5	4.3	45.5	12	21100	18	4	> 5000	4210	0.09	128	< 10	54	< 0.5	3	> 10.0	11	2	0.62	< 10	3	0.06	< 10
A19-108	< 5	1.2	1.5	20	464	2	6	172	187	0.81	29	12	43	0.5	< 2	1.03	10	5	2.86	< 10	< 1	0.55	22
A19-109	< 5	0.7	1.8	6	696	3	3	110	224	0.41	20	< 10	59	< 0.5	< 2	0.27	2	14	1.41	< 10	< 1	0.27	16
A19-110	< 5	1.5	1.1	10	872	3	< 1	314	232	0.37	17	< 10	77	< 0.5	< 2	1.14	4	8	1.11	< 10	< 1	0.29	13
A19-111	5	< 0.2	< 0.5	69	192	4	1	8	38	0.87	< 2	< 10	184	< 0.5	< 2	0.33	1	11	1.38	< 10	< 1	0.37	< 10
A19-112	7	34.7	18.0	102	98	12	2	1840	2200	0.03	43	< 10	12	< 0.5	< 2	< 0.01	< 1	17	1.02	< 10	< 1	0.03	< 10
A19-113	< 5	3.9	10.6	16	2910	< 1	3	192	1040	0.68	30	12	52	1.0	4	0.39	10	6	3.31	< 10	< 1	0.50	17
A19-114	28	31.0	76.2	98	1480	11	4	4960	6020	0.36	205	< 10	34	< 0.5	< 2	0.16	12	5	3.91	< 10	2	0.23	< 10
A19-115	< 5	3.4	15.8	13	6450	< 1	2	305	2290	0.20	12	< 10	76	< 0.5	< 2	4.35	6	4	4.74	< 10	< 1	0.25	18
A19-116	22	12.0	0.8	85	1420	< 1	17	126	144	2.50	< 2	< 10	41	< 0.5	28	4.15	27	15	6.14	< 10	< 1	0.89	< 10
A19-117	< 5	10.5	2.6	69	1690	1	2	671	481	0.43	19	< 10	70	0.5	< 2	0.25	9	9	1.60	< 10	< 1	0.40	22
A19-118	8	28.1	4.1	76	1010	2	< 1	3470	641	0.23	30	< 10	41	< 0.5	< 2	0.22	5	15	1.76	< 10	< 1	0.28	13
A19-119	< 5	0.2	1.5	82	437	61	6	23	140	1.15	< 2	< 10	71	< 0.5	< 2	1.53	12	16	2.95	< 10	< 1	0.56	< 10
A19-120	6	1.1	0.6	55	2680	6	< 1	50	72	0.59	< 2	< 10	107	< 0.5	< 2	3.55	6	5	2.07	< 10	< 1	0.38	< 10
A19-121	< 5	0.8	2.6	97	1470	13	1	26	94	0.57	2	< 10	50	< 0.5	< 2	5.09	3	5	1.23	< 10	< 1	0.32	< 10
A19-122	28	9.4	0.6	66	79	469	1	1270	231	0.35	73	< 10	45	< 0.5	22	0.04	< 1	3	1.00	< 10	< 1	0.39	< 10
A19-123	209	> 100	678	139	9060	4	12	> 5000	> 10000	0.12	4	< 10	< 10	< 0.5	3	3.23	2	6	6.49	< 10	8	0.08	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
A19-124	9	3.7	259	637	2330	3	71	1760	> 10000	2.50	8	< 10	19	< 0.5	3	8.67	24	150	5.20	< 10	< 1	0.61	< 10
A19-125	149	1.8	0.8	92	4370	2	8	63	139	0.12	2080	< 10	17	< 0.5	< 2	0.07	3	11	4.30	< 10	< 1	0.05	< 10
A19-126	< 5	0.9	23.3	16	6740	6	1	143	2350	0.18	81	< 10	49	< 0.5	5	5.53	< 1	7	4.06	< 10	< 1	0.10	< 10
A19-127	< 5	0.3	1.0	31	1130	5	< 1	20	191	0.21	57	< 10	175	< 0.5	< 2	0.70	3	12	1.04	< 10	< 1	0.23	25
A19-128	< 5	1.0	9.5	3	2860	5	1	411	961	0.23	6	< 10	61	< 0.5	< 2	4.03	< 1	6	3.23	< 10	< 1	0.15	20
A19-129	32	13.4	3.3	85	3200	17	13	83	304	1.87	451	14	< 10	< 0.5	< 2	1.96	23	9	6.25	< 10	2	0.93	< 10
A19-130	> 5000	> 100	32.0	3530	18400	< 1	2	263	2230	0.06	> 10000	< 10	< 10	< 0.5	35	0.24	< 1	4	21.8	< 10	1	0.05	< 10
A19-131	113	11.7	12.9	121	10500	10	3	114	812	0.17	1260	< 10	44	< 0.5	< 2	0.31	< 1	8	6.97	< 10	4	0.10	< 10
A19-132	6	2.4	1.7	8	3150	3	< 1	28	218	0.49	33	< 10	109	< 0.5	< 2	4.20	< 1	6	3.78	< 10	< 1	0.31	19
A19-133	26	5.4	3.5	2420	1300	< 1	2	6	417	1.36	33	12	161	0.5	< 2	2.74	24	3	1.42	< 10	< 1	0.96	14
A19-134	114	11.3	1.1	5160	686	8	3	10	84	1.90	24	< 10	57	< 0.5	5	0.27	11	4	4.67	< 10	< 1	0.58	21
A19-135	10	0.7	0.7	24	3270	5	1	12	228	0.15	405	< 10	110	< 0.5	4	0.03	1	9	1.63	< 10	< 1	0.12	< 10
A19-136	< 5	0.7	< 0.5	19	136	4	3	23	65	0.66	8	10	79	0.5	< 2	0.51	3	15	0.78	< 10	< 1	0.57	17
A19-137	< 5	< 0.2	0.7	3	94	2	2	9	49	0.50	30	< 10	25	< 0.5	< 2	0.11	5	12	1.79	< 10	< 1	0.39	17
A19-138	< 5	27.1	300	35	11900	9	2	> 5000	> 10000	0.25	922	< 10	15	< 0.5	4	> 10.0	13	5	2.71	< 10	13	0.17	< 10
A19-139	11	14.9	5.7	16	863	3	3	3250	727	0.64	54	< 10	64	0.6	< 2	1.10	16	11	1.54	< 10	< 1	0.52	11
A19-140	< 5	25.9	165	26	2780	31	1	3780	> 10000	0.12	544	< 10	11	< 0.5	< 2	0.27	29	31	2.45	< 10	9	0.09	< 10
A19-141	< 5	18.5	1.5	12	801	2	5	3370	642	0.81	15	< 10	132	< 0.5	< 2	0.82	6	11	1.07	< 10	< 1	0.67	20

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES	
GTK19-01	0.08	0.020	0.091	1.33	16	8	25	< 0.01	< 20	< 1	< 2	< 10		22	< 10	7	3					
GTK19-02	0.31	0.063	0.122	0.34	5	8	370	0.11	< 20	6	< 2	< 10		39	< 10	12	3					
GTK19-03	0.02	0.022	0.118	2.07	13	3	24	< 0.01	< 20	3	2	< 10		17	< 10	7	6					
GTK19-04	0.33	0.025	0.044	1.94	9	4	65	0.01	< 20	< 1	< 2	< 10		26	< 10	6	13					
GTK19-05	0.42	0.017	0.020	0.04	8	3	221	0.04	< 20	2	< 2	< 10		29	< 10	3	4					
GTK19-06	0.06	0.017	0.026	0.95	19	2	473	< 0.01	< 20	5	10	< 10		7	16	5	2					
GTK19-07	0.21	0.025	0.027	6.56	36	2	127	< 0.01	< 20	< 1	3	< 10		18	< 10	8	17					
GTK19-08	0.18	0.019	0.037	1.43	10	2	49	< 0.01	< 20	< 1	< 2	< 10		17	< 10	6	11					
GTK19-09	2.20	0.097	0.089	0.03	6	19	94	0.27	< 20	4	< 2	< 10		199	< 10	10	10					
GTK19-10	2.44	0.070	0.082	< 0.01	6	19	277	0.29	< 20	< 1	< 2	< 10		154	< 10	10	9					
GTK19-11	0.04	0.023	0.068	0.35	6	3	9	< 0.01	< 20	7	< 2	< 10		17	< 10	4	3					
GTK19-12	0.03	0.033	0.030	0.90	11	2	12	< 0.01	< 20	2	< 2	< 10		11	< 10	2	8					
GTK19-13	0.90	0.197	0.114	0.79	4	4	52	0.22	< 20	3	< 2	< 10		69	< 10	9	4					
GTK19-14	0.36	0.048	0.036	1.06	4	6	10	0.15	< 20	2	< 2	< 10		41	< 10	7	3					
GTK19-15	< 0.01	0.014	0.002	0.97	35	< 1	6	< 0.01	< 20	< 1	9	< 10		2	< 10	< 1	< 1					
GTK19-16	0.04	0.020	0.071	1.72	8	2	8	< 0.01	< 20	4	< 2	< 10		10	< 10	3	5					
GTK19-17	0.18	0.034	0.058	0.12	5	4	111	< 0.01	< 20	< 1	< 2	< 10		17	< 10	9	3					
GTK19-18	0.02	0.029	0.064	1.59	13	3	113	< 0.01	< 20	< 1	< 2	< 10		5	< 10	9	6				0.539	
GTK19-19	0.32	0.020	0.014	1.46	28	< 1	638	< 0.01	< 20	< 1	< 2	< 10		3	31	4	2				0.704	2.53
GTK19-20	0.08	0.019	0.021	1.28	< 2	3	309	< 0.01	< 20	4	< 2	< 10		7	< 10	14	2			2.51		
GTK19-21	0.03	0.030	0.031	2.00	18	2	13	< 0.01	< 20	< 1	< 2	< 10		19	< 10	3	9					
GTK19-22	0.21	0.031	0.046	0.12	4	3	180	0.02	< 20	< 1	< 2	< 10		18	< 10	6	5					
GTK19-23	0.10	0.027	0.033	5.44	10	1	12	< 0.01	< 20	1	< 2	< 10		14	< 10	4	18					
GTK19-24	0.17	0.038	0.045	0.05	9	4	249	0.05	< 20	4	< 2	< 10		69	< 10	12	2					
GTK19-25	0.01	0.022	0.016	0.94	6	2	8	< 0.01	< 20	3	< 2	< 10		9	< 10	3	12					
GTK19-26	0.08	0.021	0.102	0.43	17	8	19	< 0.01	< 20	6	< 2	< 10		23	< 10	9	3					
GTKM19-01	< 0.01	0.015	0.005	3.99	101	< 1	6	< 0.01	< 20	4	75	< 10		21	< 10	< 1	3				0.557	1.01
GTKM19-02	0.32	0.019	0.145	0.25	11	7	87	< 0.01	< 20	1	< 2	< 10		25	< 10	9	3					
GTKM19-03	0.56	0.022	0.026	0.85	13	4	265	0.03	< 20	< 1	2	< 10		46	< 10	8	2					
GTKM19-04	0.03	0.025	0.011	6.46	23	1	6	< 0.01	< 20	< 1	< 2	< 10		14	< 10	2	10					
GTKM19-05	1.01	0.033	0.076	1.35	11	7	180	0.13	< 20	4	< 2	< 10		56	11	9	2					
GTKM19-06	0.05	0.019	0.025	0.23	5	< 1	29	< 0.01	< 20	2	2	< 10		2	< 10	3	5					
GTKM19-07	0.53	0.066	0.115	0.01	10	8	148	0.03	< 20	10	< 2	< 10		72	< 10	8	2					
GTKM19-08	0.07	0.020	0.196	0.79	20	8	32	< 0.01	< 20	< 1	< 2	< 10		28	< 10	15	2					
GTKM19-09	0.04	0.021	0.060	0.57	13	2	8	< 0.01	< 20	4	< 2	< 10		7	< 10	5	4					
GTKM19-10	0.04	0.017	0.100	1.18	42	5	22	< 0.01	< 20	2	< 2	< 10		15	< 10	6	5					
GTKM19-11	1.59	0.052	0.109	0.41	4	7	75	0.08	< 20	< 1	< 2	< 10		61	< 10	6	4					
GTKM19-12	0.80	0.074	0.158	0.33	2	4	152	0.05	< 20	4	< 2	< 10		20	< 10	10	2					
GTKM19-13	0.24	0.104	0.072	0.99	3	4	481	0.03	< 20	1	< 2	< 10		24	< 10	11	5					
GTKM19-14	0.04	0.016	0.091	2.48	77	2	26	< 0.01	< 20	< 1	< 2	< 10		9	< 10	7	7				0.694	2.94
GTKM19-15	0.03	0.016	0.064	4.99	48	3	6	< 0.01	< 20	1	36	< 10		13	< 10	3	8					

Results

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES
GTKM19-16	0.02	0.018	0.102	1.13	47	2	20	< 0.01	< 20	3	< 2	< 10	11	< 10	6	3					
GNK19-01	0.03	0.046	0.150	4.40	15	5	36	0.25	< 20	10	4	< 10	38	< 10	12	16					3.35
GNK19-02A	0.12	0.021	0.141	4.54	18	3	64	< 0.01	< 20	6	17	< 10	29	< 10	9	4					
GNK19-02B	0.27	0.023	0.132	0.90	10	5	190	< 0.01	< 20	2	3	< 10	41	< 10	10	2					
GNK19-03	0.02	0.016	0.005	0.16	11	< 1	8	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	6					
GNK19-04	0.06	0.037	0.045	0.06	5	2	9	< 0.01	< 20	< 1	< 2	< 10	9	< 10	5	2					
GNK19-05	0.05	0.022	0.067	1.81	8	3	61	< 0.01	< 20	< 1	< 2	< 10	18	< 10	6	5					
GNK19-06	0.07	0.021	0.122	2.15	9	4	21	< 0.01	< 20	4	< 2	< 10	13	< 10	12	3					0.960
GNK19-07	< 0.01	0.017	0.004	0.51	118	< 1	7	< 0.01	< 20	1	3	< 10	1	< 10	< 1	< 1					
GNK19-08	0.67	0.041	0.098	0.02	13	4	25	0.02	< 20	2	< 2	< 10	30	< 10	8	3					
GNK19-09	0.03	0.022	0.025	0.28	4	< 1	16	< 0.01	< 20	2	< 2	< 10	1	< 10	8	7					
GNK19-10	0.05	0.058	0.139	1.48	10	5	84	0.24	< 20	2	< 2	< 10	34	13	12	7					1.34
GNK19-11	1.61	0.017	0.009	0.28	21	< 1	267	< 0.01	< 20	5	< 2	< 10	21	< 10	8	2					
GNK19-12A	0.04	0.015	0.014	15.9	145	2	7	< 0.01	< 20	< 1	42	< 10	24	< 10	3	6	541		2.41	2.52	
GNK19-12B	0.12	0.016	0.030	0.93	19	4	111	< 0.01	< 20	< 1	< 2	< 10	25	< 10	6	2					
GNK19-13	0.22	0.045	0.145	1.14	12	6	63	0.25	< 20	2	< 2	< 10	46	< 10	19	5					
GNK19-14	0.04	0.033	0.070	3.22	65	4	396	< 0.01	< 20	2	18	< 10	10	< 10	11	1					1.28
E-1	0.18	0.018	0.154	0.41	14	8	30	< 0.01	< 20	2	< 2	< 10	31	< 10	11	3					
E-2	0.01	0.016	0.005	3.97	53	< 1	9	< 0.01	< 20	1	22	< 10	16	< 10	< 1	4					
H-1	0.02	0.016	0.062	2.85	10	2	8	< 0.01	< 20	1	< 2	< 10	16	< 10	2	5					
H-2	0.21	0.021	0.087	0.35	9	9	94	< 0.01	< 20	< 1	< 2	< 10	20	< 10	8	2					
H-3	< 0.01	0.014	0.013	2.74	38	< 1	4	< 0.01	< 20	< 1	3	< 10	3	< 10	< 1	2					
H-4	< 0.01	0.014	0.017	2.40	30	< 1	5	< 0.01	< 20	1	3	< 10	4	< 10	< 1	1					
H-5	0.02	0.025	0.064	0.66	15	2	56	< 0.01	< 20	3	< 2	< 10	6	< 10	6	3					
H-6	0.03	0.027	0.063	0.73	16	1	27	< 0.01	< 20	< 1	< 2	< 10	6	< 10	6	4				0.555	
H-7	0.77	0.012	0.008	0.07	10	8	15	< 0.01	< 20	3	< 2	< 10	56	< 10	4	7					
A19-107	0.05	0.017	0.014	0.45	40	1	301	< 0.01	< 20	< 1	11	< 10	8	< 10	3	2				0.657	
A19-108	0.11	0.023	0.038	1.74	11	3	27	< 0.01	< 20	< 1	< 2	< 10	16	< 10	5	13					
A19-109	0.06	0.031	0.032	< 0.01	3	2	9	< 0.01	< 20	< 1	< 2	< 10	16	< 10	4	2					
A19-110	0.03	0.018	0.075	0.26	7	2	81	< 0.01	< 20	3	< 2	< 10	11	< 10	8	3					
A19-111	0.23	0.059	0.036	0.11	< 2	1	51	0.04	< 20	7	< 2	< 10	15	< 10	3	1					
A19-112	< 0.01	0.015	0.006	0.17	55	< 1	2	< 0.01	< 20	< 1	< 2	< 10	4	< 10	< 1	< 1					
A19-113	0.22	0.017	0.148	0.22	7	6	24	< 0.01	< 20	2	< 2	< 10	30	< 10	10	3					
A19-114	0.11	0.015	0.078	1.61	23	2	14	< 0.01	< 20	2	< 2	< 10	12	< 10	5	5					
A19-115	0.36	0.021	0.078	0.04	12	24	111	< 0.01	< 20	3	< 2	< 10	16	< 10	8	2					
A19-116	1.62	0.041	0.092	1.25	5	12	212	0.11	< 20	10	< 2	< 10	88	< 10	7	3					
A19-117	0.10	0.023	0.085	0.24	9	5	18	< 0.01	< 20	< 1	< 2	< 10	23	< 10	7	2					
A19-118	0.05	0.020	0.082	0.80	41	5	21	< 0.01	< 20	2	< 2	< 10	15	< 10	5	4					
A19-119	0.53	0.044	0.059	0.78	< 2	8	33	0.06	< 20	4	< 2	< 10	55	< 10	4	2					
A19-120	0.57	0.058	0.059	0.60	3	3	263	< 0.01	< 20	< 1	< 2	< 10	18	< 10	10	6					
A19-121	0.43	0.217	0.036	0.26	3	3	374	0.02	< 20	3	< 2	< 10	22	< 10	6	3					
A19-122	0.02	0.063	0.005	0.01	68	< 1	14	< 0.01	< 20	< 1	< 2	< 10	1	< 10	1	8					

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES
A19-123	0.44	0.019	0.025	8.52	370	2	188	< 0.01	< 20	< 1	< 2	< 10	5	< 10	7	3		395		5.51	10.0
A19-124	2.20	0.053	0.086	2.88	8	9	187	0.14	< 20	2	< 2	< 10	72	< 10	9	2					4.90
A19-125	0.07	0.022	0.011	0.12	6	< 1	25	< 0.01	< 20	< 1	< 2	< 10	2	< 10	2	2					
A19-126	0.09	0.020	0.038	0.01	5	2	90	< 0.01	< 20	< 1	< 2	< 10	4	< 10	10	2					
A19-127	0.03	0.073	0.018	0.24	3	2	15	< 0.01	< 20	< 1	< 2	< 10	2	< 10	5	9					
A19-128	0.11	0.058	0.031	0.03	3	8	43	< 0.01	< 20	8	< 2	< 10	< 1	< 10	11	5					
A19-129	0.42	0.025	0.101	4.24	67	8	77	0.07	< 20	2	< 2	< 10	110	< 10	6	3					
A19-130	0.87	0.016	0.003	6.24	2530	< 1	15	< 0.01	< 20	4	< 2	< 10	4	< 10	5	5	5.82	1270			
A19-131	0.20	0.021	0.014	0.46	22	2	41	< 0.01	< 20	2	< 2	< 10	7	< 10	4	2					
A19-132	0.31	0.029	0.022	< 0.01	9	4	67	< 0.01	< 20	< 1	< 2	< 10	3	< 10	14	3					
A19-133	0.11	0.029	0.077	0.24	4	2	54	< 0.01	< 20	< 1	< 2	< 10	19	< 10	6	< 1					
A19-134	0.55	0.038	0.084	0.62	4	2	14	0.04	< 20	< 1	< 2	< 10	19	< 10	6	2					
A19-135	0.02	0.021	0.002	0.02	2	1	17	< 0.01	< 20	1	< 2	< 10	2	< 10	5	1					
A19-136	0.04	0.041	0.048	0.39	5	2	20	< 0.01	< 20	< 1	< 2	< 10	19	< 10	5	3					
A19-137	0.03	0.034	0.053	1.34	4	2	5	< 0.01	< 20	< 1	< 2	< 10	8	< 10	8	7					
A19-138	0.14	0.017	0.019	2.53	34	2	226	< 0.01	< 20	1	5	< 10	14	29	8	2				0.603	3.04
A19-139	0.06	0.021	0.053	0.93	13	2	49	< 0.01	< 20	3	< 2	< 10	13	< 10	8	6					
A19-140	0.05	0.016	0.016	3.07	38	1	18	< 0.01	< 20	2	4	< 10	7	16	3	2					2.66
A19-141	0.06	0.028	0.076	0.29	11	5	51	< 0.01	< 20	< 1	< 2	< 10	29	< 10	7	3					

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 134b (AQUA REGIA) Meas																							
OREAS 134b (AQUA REGIA) Cert																							
MP-1b Meas		51.4	520	> 10000		170		> 5000	> 10000		> 10000				801	2.41			7.85				
MP-1b Cert		47.0	527.00 00	30700		285		20900	167000		23000. 00				954.00 00	2.47			8.19				
CPB-2 Meas																							
CPB-2 Cert																							
CZN-4 Meas																							
CZN-4 Cert																							
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6070	416	2	35	8	34	1.74	91		67	7.2	2	0.04	89	24	5.68	< 10		0.89	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	5900	414	2	35	12	22	1.79	92		58	7.1	< 2	0.04	84	26	5.94	< 10		0.92	40
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6470	409	2	36	10	24	1.75	92		66	7.3	5	0.04	88	22	5.65	< 10		0.90	40
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 45e (Aqua Regia) Meas				761	370		415	11	33	3.50	13		104			0.03	35	812	21.4	10		0.06	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	849.0	22.650	11.7		0.053	
OREAS 45e (Aqua Regia) Meas				766	407		428	11	32	3.56	9		99			0.03	40	892	22.3	10		0.07	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	849.0	22.650	11.7		0.053	
OREAS 45e (Aqua Regia) Meas				739	383		415	4	30	3.32	< 2		109			0.03	38	793	21.4	10		0.06	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	849.0	22.650	11.7		0.053	
SQ48 Meas																							
SQ48 Cert																							
OREAS 922 (AQUA REGIA) Meas		0.9	< 0.5	2260	731	< 1	36	56	260	2.75	5		66	0.7	10	0.42	18	43	4.73	< 10		0.47	39

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2190	769	< 1	36	62	249	2.81	7		62	0.7	7	0.41	17	49	5.06	< 10		0.49	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2390	728	< 1	36	59	260	2.73	9		65	0.7	8	0.41	17	42	4.71	< 10		0.47	38
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		2.0	< 0.5	4610	838	< 1	35	77	351	2.87	7		55	0.6	20	0.43	22	42	5.68	< 10		0.42	37
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.6	< 0.5	4540	938	< 1	39	81	337	2.92	10		54	0.7	11	0.44	21	47	6.14	< 10		0.45	38
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.4	< 0.5	4580	826	< 1	33	82	329	2.71	6		55	0.7	8	0.41	19	38	5.26	< 10		0.42	35
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
PTC-1b Meas																							
PTC-1b Cert																							
OREAS 520 (Aqua Regia) Meas				3020	2160	59	76	8	20	1.53	150			0.6	< 2	3.85	181	37	16.3	10		0.52	73
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 520 (Aqua Regia) Meas				2930	2070	56	78	6	19	1.47	145			0.6	< 2	3.71	173	36	15.4	10		0.50	71
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 907 (Aqua Regia) Meas		1.1	0.6	6300	322	5	5	30	159	1.16	34		200	1.0	15	0.29	44	8	7.29	20		0.36	40
OREAS 907		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(Aqua Regia) Cert																							
OREAS 907 (Aqua Regia) Meas		1.4	< 0.5	6300	337	6	6	34	143	1.16	33		189	1.1	11	0.28	42	13	7.73	20		0.38	42
OREAS 907 (Aqua Regia) Cert		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1
OREAS 907 (Aqua Regia) Meas		1.1	1.2	6690	327	6	7	34	148	1.14	35		204	1.0	9	0.29	42	8	7.36	20		0.37	40
OREAS 907 (Aqua Regia) Cert		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1
CCU-1e Meas																							
CCU-1e Cert																							
OREAS 97 (AR Assay) Meas																							
OREAS 97 (AR Assay) Cert																							
OREAS 222 (Fire Assay) Meas	1290																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1270																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1270																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1190																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
Oreas 621 (Aqua Regia) Meas		73.1	262	3650	514	13	26	> 5000	> 10000	1.71	79			0.6	3	1.76	29	31	3.15	10	4	0.38	20

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		67.4	252	3600	557	10	27	> 5000	> 10000	1.81	84			0.6	< 2	1.57	30	37	3.46	< 10	3	0.40	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		74.1	250	3620	543	12	26	> 5000	> 10000	1.74	77			0.6	3	1.59	30	37	3.34	< 10	4	0.39	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 255 (Fire Assay) Meas	4030																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4050																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4060																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4010																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	3910																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4230																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4140																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 256 (Fire Assay) Meas																							
OREAS 256 (Fire Assay) Cert																							
GTK19-10 Orig		0.6	2.9	50	2130	< 1	13	78	684	1.96	26	< 10	244	0.6	< 2	7.35	15	69	4.86	10	< 1	0.11	13
GTK19-10 Dup		0.6	3.1	48	2050	< 1	12	71	671	1.90	20	< 10	235	0.6	< 2	7.24	14	68	4.67	10	< 1	0.10	13
GTK19-12 Orig	< 5																						
GTK19-12 Dup	< 5																						
GTK19-21 Orig	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GTK19-21 Dup	< 5																						
GTK19-25 Orig		< 0.2	< 0.5	9	55	52	2	30	41	0.23	26	< 10	23	< 0.5	< 2	0.08	< 1	11	1.17	< 10	< 1	0.30	16
GTK19-25 Dup		< 0.2	< 0.5	8	55	51	2	29	40	0.22	27	< 10	20	< 0.5	< 2	0.07	< 1	12	1.16	< 10	< 1	0.28	15
GTKM19-05 Orig	< 5																						
GTKM19-05 Dup	< 5																						
GTKM19-11 Orig		9.8	0.6	4820	779	1	12	28	126	2.33	< 2	< 10	101	< 0.5	< 2	1.80	15	15	4.43	< 10	< 1	0.73	< 10
GTKM19-11 Dup		9.7	0.5	4770	775	1	11	24	123	2.29	3	< 10	124	< 0.5	< 2	1.76	14	15	4.46	< 10	< 1	0.72	< 10
GNK19-04 Orig	< 5																						
GNK19-04 Dup	5																						
GNK19-07 Orig	< 5	3.5	16.2	927	150	37	2	273	2430	0.04	141	< 10	22	< 0.5	< 2	0.17	7	30	0.91	< 10	< 1	0.03	< 10
GNK19-07 Split PREP DUP	< 5	3.5	16.0	884	148	37	1	263	2380	0.04	146	< 10	21	< 0.5	< 2	0.16	7	29	0.92	< 10	1	0.03	< 10
GNK19-12A Orig	7																						
GNK19-12A Dup	6																						
H-5 Orig	< 5																						
H-5 Dup	< 5																						
H-6 Orig		16.6	23.5	16	215	2	< 1	> 5000	2900	0.43	128	< 10	60	0.6	< 2	0.32	2	8	1.19	< 10	1	0.38	20
H-6 Dup		16.5	23.4	16	212	2	< 1	> 5000	2920	0.43	125	< 10	58	0.6	< 2	0.32	2	9	1.17	< 10	1	0.37	20
A19-120 Orig	5	1.1	0.6	56	2690	6	< 1	50	73	0.60	< 2	< 10	103	< 0.5	< 2	3.56	6	4	2.07	< 10	< 1	0.38	< 10
A19-120 Dup	6	1.1	0.6	55	2680	6	3	49	71	0.58	< 2	< 10	112	< 0.5	3	3.53	7	6	2.07	< 10	< 1	0.38	< 10
A19-123 Orig		> 100	682	140	9050	4	12	> 5000	> 10000	0.12	4	< 10	< 10	< 0.5	3	3.29	2	7	6.56	< 10	7	0.08	< 10
A19-123 Dup		> 100	674	138	9060	4	12	> 5000	> 10000	0.11	3	< 10	< 10	< 0.5	2	3.16	2	6	6.42	< 10	8	0.07	< 10
A19-129 Orig	30																						
A19-129 Dup	34																						
A19-139 Orig	11	14.9	5.7	16	863	3	3	3250	727	0.64	54	< 10	64	0.6	< 2	1.10	16	11	1.54	< 10	< 1	0.52	11
A19-139 Split PREP DUP	14	14.7	6.0	16	909	3	3	3210	758	0.57	56	< 10	49	0.6	< 2	1.11	16	10	1.56	< 10	< 1	0.47	< 10
A19-139 Orig	12																						
A19-139 Dup	9																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	4	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
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Method Blank	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	4	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES	
OREAS 134b (AQUA REGIA) Meas																		208	0.133	13.5	17.5	
OREAS 134b (AQUA REGIA) Cert																		204	0.136	13.3	17.7	
MP-1b Meas	0.02			11.2										> 200				47	3.08	2.11	16.7	
MP-1b Cert	0.024			13.79										1100.0 00				47	3.07	2.09	16.7	
CPB-2 Meas																			0.124	63.3	6.02	
CPB-2 Cert																			0.1213	63.52	6.04	
CZN-4 Meas																			51	0.409	0.182	54.4
CZN-4 Cert																			51	0.403	0.1861	55.07
OREAS 904 (Aqua Regia) Meas	0.19		0.094	0.04	3	5	21	< 20			< 2	< 10	31		19							
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2							
OREAS 904 (Aqua Regia) Meas	0.19		0.091	0.04	3	5	20	< 20			< 2	< 10	32		19							
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2							
OREAS 904 (Aqua Regia) Meas	0.19		0.094	0.04	3	5	20	< 20			< 2	< 10	27		18							
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2							
OREAS 45e (Aqua Regia) Meas	0.10	0.031	0.027	0.04		78	4	< 20			< 2	< 10	267		4							
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044		78	4.05	10.70			0.072	1.73	295.0		5.74							
OREAS 45e (Aqua Regia) Meas	0.10	0.037	0.028	0.04		83	4	< 20			< 2	< 10	284		5							
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044		78	4.05	10.70			0.072	1.73	295.0		5.74							
OREAS 45e (Aqua Regia) Meas	0.09	0.032	0.027	0.04		78	4	< 20			< 2	< 10	248		5							
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044		78	4.05	10.70			0.072	1.73	295.0		5.74							
SQ48 Meas																			30.3			
SQ48 Cert																			30.25			
OREAS 922 (AQUA REGIA)	1.35	0.025	0.062	0.38	< 2	4	18	< 20			< 2	< 10	34	< 10	19	20						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES
Meas																					
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 922 (AQUA REGIA) Meas	1.32	0.031	0.060	0.37	< 2	4	17		< 20		< 2	< 10	34	< 10	20	11					
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 922 (AQUA REGIA) Meas	1.31	0.028	0.060	0.37	4	4	17		< 20		4	< 10	29	< 10	18	11					
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 923 (AQUA REGIA) Meas	1.49		0.061	0.72	2	4	16		< 20		< 2	< 10	35	< 10	19	24					
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5					
OREAS 923 (AQUA REGIA) Meas	1.49		0.061	0.71	4	4	16		< 20		< 2	< 10	36	< 10	20	20					
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5					
OREAS 923 (AQUA REGIA) Meas	1.38		0.058	0.66	3	4	15		< 20		< 2	< 10	30	< 10	17	25					
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5					
PTC-1b Meas																		53	7.85	0.086	0.209
PTC-1b Cert																		53	7.97	0.080	0.2083
OREAS 520 (Aqua Regia) Meas	1.14	0.069	0.072	0.95	6	12	29	0.15	< 20	4	< 2	13	244	26	13	24					
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0					
OREAS 520 (Aqua Regia) Meas	1.10	0.068	0.068	0.92	6	12	30	0.15	< 20	7	< 2	< 10	237	20	13	24					
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0					
OREAS 907 (Aqua Regia)	0.22	0.084	0.022	0.06	7	3	14	0.02	< 20	< 1	< 2	< 10	6	< 10	8	22					

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES
Meas																					
OREAS 907 (Aqua Regia) Cert	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7					
OREAS 907 (Aqua Regia) Meas	0.22	0.100	0.022	0.06	5	3	14	0.03	< 20	3	< 2	< 10	6	< 10	9	19					
OREAS 907 (Aqua Regia) Cert	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7					
OREAS 907 (Aqua Regia) Meas	0.22	0.101	0.021	0.06	5	3	14	0.02	< 20	< 1	< 2	< 10	5	< 10	8	9					
OREAS 907 (Aqua Regia) Cert	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7					
CCU-1e Meas																		205	22.6	0.681	2.97
CCU-1e Cert																		205	22.9	0.703	3.02
OREAS 97 (AR Assay) Meas																				6.37	
OREAS 97 (AR Assay) Cert																				6.28	
OREAS 222 (Fire Assay) Meas																					
OREAS 222 (Fire Assay) Cert																					
OREAS 222 (Fire Assay) Meas																					
OREAS 222 (Fire Assay) Cert																					
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OREAS 222 (Fire Assay) Cert																					

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES
Oreas 621 (Aqua Regia) Meas	0.44	0.154	0.033	4.60	110	3	19		< 20		3	< 10	13	< 10	8	53		67	0.362	1.35	5.21
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0		68.0	0.366	1.36	5.17
Oreas 621 (Aqua Regia) Meas	0.45	0.199	0.034	4.17	86	3	18		< 20		< 2	< 10	14	< 10	9	46					
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0					
Oreas 621 (Aqua Regia) Meas	0.44	0.195	0.034	4.42	96	3	18		< 20		< 2	< 10	13	< 10	8	48					
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0					
OREAS 255 (Fire Assay) Meas																					
OREAS 255 (Fire Assay) Cert																					
OREAS 255 (Fire Assay) Meas																					
OREAS 255 (Fire Assay) Cert																					
OREAS 255 (Fire Assay) Meas																					
OREAS 255 (Fire Assay) Cert																					
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OREAS 255 (Fire Assay) Meas																					
OREAS 255 (Fire Assay) Cert																					
OREAS 255 (Fire Assay) Meas																					
OREAS 255 (Fire Assay) Cert																					
OREAS 256 (Fire Assay) Meas																	7.70				
OREAS 256 (Fire Assay) Cert																	7.66				
GTK19-10 Orig	2.44	0.073	0.082	0.01	5	19	279	0.30	< 20	< 1	< 2	< 10	157	< 10	10	10					
GTK19-10 Dup	2.44	0.068	0.081	< 0.01	6	19	274	0.29	< 20	14	< 2	< 10	151	< 10	10	9					

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Ag	Cu	Pb	Zn	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	ppm	%	%	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03	3	0.001	0.003	0.001	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA	ICP- OES	ICP- OES	ICP- OES	ICP- OES	
GTK19-12 Orig																						
GTK19-12 Dup																						
GTK19-21 Orig																						
GTK19-21 Dup																						
GTK19-25 Orig	0.01	0.022	0.016	0.95	6	2	8	< 0.01	< 20	4	< 2	< 10	9	< 10	3	12						
GTK19-25 Dup	0.01	0.021	0.016	0.93	6	2	8	< 0.01	< 20	2	< 2	< 10	9	< 10	3	12						
GTKM19-05 Orig																						
GTKM19-05 Dup																						
GTKM19-11 Orig	1.62	0.053	0.111	0.42	4	7	76	0.08	< 20	4	< 2	< 10	61	< 10	6	4						
GTKM19-11 Dup	1.56	0.052	0.107	0.40	4	7	75	0.08	< 20	< 1	< 2	< 10	61	< 10	6	4						
GNK19-04 Orig																						
GNK19-04 Dup																						
GNK19-07 Orig	< 0.01	0.017	0.004	0.51	118	< 1	7	< 0.01	< 20	1	3	< 10	1	< 10	< 1	< 1						
GNK19-07 Split PREP DUP	< 0.01	0.026	0.003	0.50	112	< 1	7	< 0.01	< 20	< 1	5	< 10	< 1	< 10	< 1	< 1						
GNK19-12A Orig																	551			2.43	2.53	
GNK19-12A Dup																	531			2.38	2.51	
H-5 Orig																						
H-5 Dup																						
H-6 Orig	0.03	0.027	0.064	0.73	15	1	27	< 0.01	< 20	< 1	< 2	< 10	6	< 10	6	4				0.553		
H-6 Dup	0.03	0.027	0.063	0.72	17	1	26	< 0.01	< 20	2	< 2	< 10	6	< 10	6	4				0.556		
A19-120 Orig	0.57	0.060	0.059	0.60	3	3	264	< 0.01	< 20	6	< 2	< 10	18	< 10	10	5						
A19-120 Dup	0.57	0.056	0.058	0.60	2	3	261	< 0.01	< 20	< 1	< 2	< 10	17	< 10	10	6						
A19-123 Orig	0.44	0.019	0.025	8.61	373	2	193	< 0.01	< 20	< 1	< 2	< 10	6	< 10	7	3						
A19-123 Dup	0.44	0.018	0.025	8.43	367	2	183	< 0.01	< 20	< 1	< 2	< 10	4	< 10	7	3						
A19-129 Orig																						
A19-129 Dup																						
A19-139 Orig	0.06	0.021	0.053	0.93	13	2	49	< 0.01	< 20	3	< 2	< 10	13	< 10	8	6						
A19-139 Split PREP DUP	0.06	0.020	0.053	0.95	13	2	47	< 0.01	< 20	2	< 2	< 10	11	< 10	8	4						
A19-139 Orig																						
A19-139 Dup																						
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1						
Method Blank	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1						
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1						
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Report No.: A19-13444
Report Date: 07-Nov-19
Date Submitted: 02-Oct-19
Your Reference: Stewart

Decade Resources
426 King Street
Stewart BC V0T 1W0
Canada

ATTN: Ed Kruchkowski

CERTIFICATE OF ANALYSIS

168 Rock samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Description, and Testing Date. Rows include 1A2-Kamloops, 1A3-Kamloops, 1E3-Kamloops, and Sieve Report-Kamloops Internal.

REPORT A19-13444

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Notes:

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

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-13444

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
A19-142	< 5	< 0.2	< 0.5	9	1160	< 1	1	13	94	2.18	35	< 10	374	0.6	< 2	0.41	7	8	2.86	< 10	1	0.69	21
A19-143	< 5	< 0.2	< 0.5	2	164	< 1	2	3	12	0.27	7	< 10	28	< 0.5	< 2	0.18	< 1	18	0.80	< 10	< 1	0.04	< 10
A19-144	< 5	< 0.2	< 0.5	18	1250	< 1	3	8	63	2.31	5	< 10	425	0.7	< 2	3.33	4	4	3.15	< 10	< 1	0.73	13
A19-145	< 5	< 0.2	< 0.5	10	890	< 1	1	13	59	2.16	5	< 10	948	0.6	< 2	0.37	4	9	2.44	< 10	< 1	0.39	12
A19-146	9	0.9	< 0.5	10	311	1	2	12	67	2.16	148	< 10	28	0.8	2	0.23	4	5	3.55	< 10	< 1	0.63	12
A19-147	< 5	< 0.2	< 0.5	3	607	2	< 1	5	62	1.10	2	< 10	204	< 0.5	2	0.10	2	12	2.50	< 10	< 1	0.24	< 10
A19-148	< 5	< 0.2	< 0.5	8	1190	< 1	6	9	107	2.75	72	< 10	475	0.6	< 2	0.24	7	5	3.68	< 10	< 1	0.89	18
A19-149	754	2.5	0.6	6	8060	14	2	20	88	0.93	45	< 10	252	< 0.5	< 2	0.09	12	7	5.28	< 10	< 1	0.41	< 10
A19-150	157	2.1	< 0.5	6	1160	2	2	7	20	0.65	42	< 10	11	< 0.5	3	0.05	10	16	3.73	< 10	< 1	0.32	< 10
A19-151	35	2.4	< 0.5	6	1850	3	< 1	10	18	0.33	19	< 10	187	< 0.5	< 2	0.03	6	10	1.40	< 10	< 1	0.14	< 10
A19-152	< 5	< 0.2	< 0.5	14	343	< 1	2	6	83	1.91	< 2	< 10	478	0.7	< 2	0.29	5	5	6.23	< 10	< 1	0.76	20
A19-153	< 5	10.2	7.0	23	56	2	3	856	604	0.83	21	13	48	0.6	< 2	0.19	8	16	0.96	< 10	< 1	0.59	17
A19-154	< 5	< 0.2	34.4	20	1410	3	6	1150	6770	1.93	88	17	45	1.2	2	2.15	9	8	3.50	< 10	3	0.77	13
A19-155	< 5	< 0.2	< 0.5	< 1	582	< 1	2	3	19	0.07	< 2	< 10	31	< 0.5	< 2	0.13	2	14	1.16	< 10	< 1	0.02	< 10
A19-156	15	0.2	< 0.5	38	127	1	91	14	122	2.80	8	< 10	223	0.5	< 2	0.05	3	110	4.53	< 10	< 1	0.42	< 10
A19-157	< 5	< 0.2	< 0.5	5	759	< 1	11	6	16	0.26	< 2	< 10	34	< 0.5	< 2	< 0.01	4	19	1.72	< 10	< 1	0.05	< 10
A19-158	< 5	< 0.2	< 0.5	2	156	< 1	5	< 2	12	0.07	< 2	< 10	19	< 0.5	< 2	0.03	< 1	17	0.69	< 10	< 1	0.02	< 10
A19-159	79	28.9	51.8	22	74	< 1	1	> 5000	4700	0.20	< 2	< 10	27	< 0.5	< 2	0.01	< 1	12	1.45	< 10	< 1	0.11	< 10
A19-160	1020	> 100	1490	185	32	2	1	> 5000	> 10000	0.04	12	< 10	< 10	< 0.5	< 2	< 0.01	15	4	2.97	< 10	9	0.01	< 10
A19-161	7	0.9	6.6	3	341	< 1	< 1	1060	770	0.48	< 2	< 10	51	< 0.5	< 2	0.02	3	9	0.91	< 10	< 1	0.25	< 10
A19-162	33	0.3	1.5	34	281	3	106	354	197	3.78	14	< 10	232	0.8	< 2	0.25	4	109	5.39	10	< 1	0.51	22
A19-163	< 5	< 0.2	< 0.5	9	691	< 1	29	70	63	0.26	< 2	< 10	35	< 0.5	3	1.56	2	20	1.92	< 10	< 1	0.05	< 10
A19-164	< 5	< 0.2	< 0.5	3	1990	< 1	14	127	53	0.22	< 2	< 10	38	< 0.5	2	8.70	< 1	10	5.16	< 10	< 1	0.07	< 10
A19-165	< 5	< 0.2	1.7	11	525	1	14	46	200	0.14	3	< 10	24	< 0.5	< 2	0.09	3	19	1.49	< 10	< 1	0.03	< 10
A19-166	5	0.5	0.6	26	120	< 1	58	73	125	2.08	14	< 10	108	< 0.5	3	0.19	< 1	52	3.31	< 10	< 1	0.28	< 10
A19-167	< 5	< 0.2	< 0.5	5	630	2	3	48	77	1.06	< 2	< 10	106	< 0.5	< 2	0.11	5	19	1.56	< 10	< 1	0.19	21
A19-168	< 5	< 0.2	< 0.5	2	1480	< 1	9	13	123	2.71	< 2	< 10	125	< 0.5	< 2	0.83	14	8	5.43	< 10	< 1	0.20	15
A19-169	8	< 0.2	< 0.5	27	1080	< 1	7	7	130	3.44	2	< 10	244	0.5	< 2	0.96	15	16	5.11	< 10	< 1	0.43	16
A19-170	< 5	< 0.2	< 0.5	2	992	< 1	8	6	98	2.73	10	< 10	182	< 0.5	< 2	1.23	22	8	5.64	< 10	< 1	0.59	< 10
A19-171	< 5	< 0.2	1.7	1	757	< 1	1	127	187	1.60	3	< 10	904	< 0.5	< 2	1.49	5	8	2.66	< 10	< 1	0.18	< 10
A19-172	< 5	< 0.2	< 0.5	4	403	4	1	24	19	1.02	16	< 10	43	< 0.5	< 2	1.00	< 1	21	1.19	< 10	< 1	0.06	< 10
A19-173	6	< 0.2	< 0.5	29	502	< 1	49	4	98	2.64	4	< 10	104	< 0.5	< 2	1.62	20	30	4.70	10	< 1	0.17	28
A19-174	< 5	< 0.2	< 0.5	6	761	< 1	5	9	88	2.76	< 2	< 10	365	< 0.5	< 2	1.72	8	13	2.51	< 10	< 1	0.44	12
A19-175	< 5	< 0.2	< 0.5	3	270	< 1	1	13	25	0.83	< 2	< 10	101	< 0.5	< 2	0.53	< 1	11	0.99	< 10	< 1	0.31	26
A19-176	< 5	< 0.2	< 0.5	4	739	1	8	4	78	2.92	9	< 10	45	0.5	3	2.78	17	17	4.84	< 10	< 1	0.06	< 10
A19-177	< 5	< 0.2	< 0.5	3	473	< 1	3	3	43	3.20	10	< 10	85	0.6	< 2	3.41	11	13	2.56	< 10	< 1	0.19	< 10
A19-178	< 5	< 0.2	< 0.5	23	1490	< 1	10	3	107	3.85	< 2	< 10	23	< 0.5	< 2	2.71	25	12	5.18	< 10	< 1	0.05	11
A19-179	< 5	< 0.2	< 0.5	< 1	668	< 1	12	6	70	1.69	< 2	< 10	137	< 0.5	< 2	0.70	9	34	3.05	10	< 1	0.18	18
A19-180	12	3.8	11.0	43	4170	4	2	1250	1210	0.49	17	< 10	146	< 0.5	< 2	0.24	5	20	1.83	< 10	< 1	0.18	< 10
A19-181	7	40.1	462	567	2440	5	6	> 5000	> 10000	0.87	134	< 10	< 10	< 0.5	< 2	3.71	28	8	3.91	< 10	33	0.36	< 10
A19-182	5	11.2	40.0	48	2140	16	3	351	3210	0.08	352	< 10	77	< 0.5	< 2	0.50	18	25	1.73	< 10	2	0.05	< 10
A19-183	< 5	20.6	20.0	460	2210	18	1	598	1450	0.08	136	< 10	21	< 0.5	< 2	5.26	27	29	1.14	< 10	6	0.03	< 10
A19-184	< 5	35.5	78.1	948	2360	119	8	2360	4750	0.65	598	14	17	0.8	2	4.86	34	13	3.76	< 10	6	0.42	< 10
A19-185	< 5	21.1	204	180	6080	111	5	2100	> 10000	0.08	304	< 10	16	< 0.5	< 2	8.42	49	10	1.73	< 10	10	0.05	< 10
A19-186	< 5	11.7	70.6	705	5900	81	5	540	3470	0.15	186	< 10	36	< 0.5	3	9.78	24	12	1.06	< 10	3	0.09	< 10
A19-187	6	49.8	28.6	3270	1710	59	5	4530	1800	1.54	347	24	102	2.3	< 2	1.61	39	4	3.40	< 10	< 1	0.94	21
A19-258	> 5000	91.4	411	812	2090	5	4	> 5000	> 10000	0.88	1300	< 10	< 10	< 0.5	< 2	0.72	2	20	3.24	< 10	1	0.42	< 10
A19-259	751	67.7	86.6	200	4960	3	2	> 5000	4890	0.30	217	< 10	44	< 0.5	< 2	0.10	1	16	2.07	< 10	< 1	0.15	< 10
A19-260	462	25.8	20.5	39	1250	3	4	1530	967	0.52	252	< 10	91	< 0.5	< 2	0.60	1	18	2.72	< 10	< 1	0.25	< 10
PEK19-01	8	0.3	< 0.5	10	892	1	4	19	55	2.99	11	< 10	291	< 0.5	< 2	2.86	6	28	2.29	< 10	< 1	0.10	< 10
PEK19-02	< 5	< 0.2	< 0.5	1	957	< 1	8	9	61	3.04	14	< 10	99	0.7	< 2	2.36	14	21	3.53	< 10	< 1	0.38	13

Results

Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PEK19-03	< 5	< 0.2	< 0.5	5	939	< 1	3	28	48	1.74	< 2	< 10	217	< 0.5	< 2	1.75	6	12	2.28	< 10	< 1	0.33	< 10
PEK19-04	< 5	< 0.2	< 0.5	1	585	< 1	< 1	8	24	0.91	3	< 10	328	< 0.5	< 2	0.71	2	14	1.05	< 10	< 1	0.14	< 10
PEK19-05	6	< 0.2	< 0.5	1	843	< 1	4	7	72	1.68	< 2	< 10	370	< 0.5	< 2	1.02	10	6	3.60	< 10	< 1	0.45	< 10
PEK19-06	< 5	< 0.2	< 0.5	1	570	2	3	3	42	1.06	< 2	< 10	63	< 0.5	< 2	0.36	3	28	1.61	< 10	< 1	0.10	< 10
PEK19-07	< 5	< 0.2	< 0.5	2	788	< 1	2	11	22	2.63	5	< 10	54	1.0	< 2	3.64	4	14	2.99	10	< 1	0.19	< 10
PEK19-08	< 5	< 0.2	< 0.5	16	897	< 1	4	7	50	2.38	3	< 10	265	0.5	< 2	2.62	9	12	3.51	10	< 1	0.25	10
PEK19-09	< 5	< 0.2	< 0.5	13	1510	< 1	< 1	9	28	2.75	4	< 10	78	< 0.5	< 2	5.42	7	12	2.86	< 10	< 1	0.18	< 10
PEK19-10	< 5	1.4	< 0.5	4	162	1	< 1	10	22	0.41	124	< 10	20	< 0.5	< 2	0.14	6	21	1.81	< 10	< 1	0.31	< 10
PEK19-11	< 5	< 0.2	< 0.5	22	1790	< 1	8	8	85	2.92	12	< 10	570	1.0	< 2	1.60	18	9	6.32	< 10	< 1	0.85	15
PEK19-12	< 5	< 0.2	< 0.5	26	287	< 1	< 1	6	31	1.71	8	< 10	257	< 0.5	< 2	0.34	3	10	1.74	< 10	< 1	0.99	14
PEK19-13	< 5	< 0.2	< 0.5	6	451	< 1	1	6	45	2.25	3	< 10	294	< 0.5	< 2	1.52	5	10	1.85	< 10	< 1	0.36	16
PEK19-14	< 5	< 0.2	< 0.5	2	285	2	1	< 2	13	1.33	< 2	< 10	30	< 0.5	< 2	1.55	2	22	1.33	< 10	< 1	0.05	< 10
PEK19-15	< 5	< 0.2	< 0.5	6	670	< 1	4	5	34	1.91	7	< 10	78	< 0.5	< 2	1.44	5	13	2.22	< 10	< 1	0.29	< 10
PEK19-16	< 5	< 0.2	< 0.5	19	1070	< 1	4	< 2	71	2.29	6	< 10	402	0.6	< 2	1.40	11	7	5.03	< 10	< 1	0.79	14
PEK19-17	< 5	< 0.2	< 0.5	32	793	< 1	4	3	60	2.35	< 2	< 10	392	< 0.5	< 2	1.24	10	12	2.70	< 10	< 1	0.53	12
PEK19-18	< 5	0.3	< 0.5	40	398	2	3	8	32	2.00	< 2	< 10	303	0.7	< 2	1.35	4	30	1.55	< 10	< 1	0.38	12
PEK19-19	< 5	< 0.2	< 0.5	37	776	< 1	3	5	35	2.99	2	< 10	94	0.6	< 2	3.38	6	15	2.56	< 10	< 1	0.13	< 10
PEK19-20	< 5	< 0.2	< 0.5	8	1050	< 1	2	< 2	45	2.93	< 2	< 10	181	< 0.5	4	3.66	10	11	3.48	< 10	< 1	0.19	< 10
PEK19-21	< 5	< 0.2	0.7	14	565	< 1	4	6	8	2.30	5	< 10	239	0.8	< 2	4.90	2	17	1.00	< 10	< 1	0.38	< 10
PEK19-22	< 5	< 0.2	< 0.5	12	545	< 1	3	3	65	2.59	< 2	< 10	691	0.7	< 2	1.92	6	10	2.32	< 10	< 1	0.57	14
PEK19-23	< 5	< 0.2	< 0.5	5	1610	< 1	5	9	45	1.94	< 2	< 10	144	< 0.5	< 2	7.58	9	11	2.66	< 10	< 1	0.27	< 10
GK19-01	< 5	< 0.2	< 0.5	4	1220	< 1	< 1	6	68	1.87	< 2	< 10	1180	< 0.5	< 2	1.10	5	8	2.39	< 10	< 1	0.67	15
GK19-02	< 5	< 0.2	< 0.5	10	3900	< 1	7	< 2	180	3.29	30	< 10	315	< 0.5	< 2	1.24	8	4	15.2	10	< 1	0.31	15
GK19-03	< 5	< 0.2	< 0.5	< 1	2200	< 1	< 1	< 2	7	0.18	< 2	< 10	37	< 0.5	< 2	5.95	< 1	14	0.43	< 10	< 1	0.04	< 10
GK19-04	5	0.6	< 0.5	63	763	1	< 1	4	66	1.63	2	< 10	345	0.8	< 2	0.23	5	2	2.41	< 10	< 1	0.67	21
GK19-05	156	14.2	< 0.5	6	195	< 1	2	51	11	0.53	4	< 10	< 10	< 0.5	< 2	0.08	4	12	3.11	< 10	< 1	0.30	< 10
GK19-06	18	1.8	< 0.5	6	1460	3	< 1	10	34	1.20	2	< 10	810	< 0.5	< 2	0.99	4	11	1.92	< 10	< 1	0.43	< 10
GK19-07	< 5	< 0.2	< 0.5	3	2200	< 1	3	6	65	1.97	3	< 10	375	< 0.5	< 2	7.82	4	7	3.23	< 10	< 1	0.49	13
GK19-08	8	0.7	0.9	66	1390	2	3	6	156	4.89	16	< 10	49	1.3	5	5.88	5	5	2.64	10	< 1	0.32	< 10
GK19-09	< 5	0.3	< 0.5	5	1570	14	3	7	68	2.10	73	< 10	18	< 0.5	< 2	1.08	9	8	3.92	< 10	< 1	0.48	12
GK19-10	74	6.7	< 0.5	5	644	4	< 1	11	11	0.66	32	< 10	17	< 0.5	3	0.11	7	12	2.63	< 10	< 1	0.31	< 10
GK19-11	< 5	< 0.2	< 0.5	9	760	< 1	15	9	81	2.50	< 2	< 10	170	0.6	< 2	3.96	10	39	3.75	< 10	< 1	0.49	20
GK19-12	< 5	< 0.2	< 0.5	4	123	1	1	< 2	9	0.12	< 2	< 10	20	< 0.5	< 2	0.03	< 1	24	0.93	< 10	< 1	0.03	< 10
GK19-13	< 5	< 0.2	< 0.5	< 1	236	2	2	< 2	22	0.41	< 2	< 10	22	< 0.5	< 2	0.03	2	29	1.12	< 10	< 1	0.02	< 10
GK19-14	< 5	< 0.2	< 0.5	< 1	339	< 1	2	5	49	1.82	< 2	< 10	435	0.7	6	1.43	5	10	2.25	< 10	< 1	0.56	24
GK19-15	< 5	< 0.2	< 0.5	3	874	< 1	34	3	39	0.71	2	< 10	59	< 0.5	< 2	1.88	2	25	2.91	< 10	< 1	0.07	< 10
GK19-16	< 5	< 0.2	< 0.5	3	645	< 1	26	22	33	0.24	3	< 10	56	< 0.5	< 2	0.74	2	21	2.11	< 10	< 1	0.07	< 10
GK19-17	82	10.8	24.4	5	111	4	1	1430	2200	0.19	< 2	< 10	35	< 0.5	< 2	0.01	< 1	17	0.95	< 10	< 1	0.08	< 10
GK19-18	122	22.0	750	160	726	3	< 1	> 5000	> 10000	0.23	2	< 10	< 10	< 0.5	< 2	0.15	7	9	1.98	< 10	6	0.13	< 10
GK19-19	72	13.1	101	31	933	2	3	> 5000	5780	1.04	< 2	< 10	50	0.7	2	0.17	3	9	1.83	< 10	< 1	0.56	14
GK19-20	215	42.5	444	19	101	4	< 1	> 5000	> 10000	0.13	2	< 10	< 10	< 0.5	< 2	< 0.01	4	10	1.87	< 10	1	0.06	< 10
GK19-21	286	85.1	560	102	63	3	< 1	> 5000	> 10000	0.20	< 2	< 10	< 10	< 0.5	< 2	0.01	5	11	0.82	< 10	4	0.11	< 10
GK19-22	< 5	< 0.2	2.3	1	94	1	7	268	227	0.24	< 2	< 10	19	< 0.5	< 2	0.02	< 1	25	0.96	< 10	< 1	0.03	< 10
GK19-23	< 5	0.2	1.6	8	362	< 1	24	298	219	0.66	< 2	< 10	33	< 0.5	< 2	0.05	1	27	1.84	< 10	< 1	0.05	< 10
GK19-24	< 5	< 0.2	< 0.5	4	197	< 1	15	19	32	0.38	2	< 10	39	< 0.5	< 2	0.10	2	28	1.41	< 10	< 1	0.05	< 10
GK19-25	< 5	< 0.2	< 0.5	5	981	< 1	33	20	50	0.71	2	< 10	41	< 0.5	< 2	2.15	2	25	3.10	< 10	< 1	0.06	< 10
GK19-26	< 5	< 0.2	0.7	< 1	854	< 1	10	9	46	0.05	< 2	< 10	33	< 0.5	6	> 10.0	< 1	13	2.35	< 10	< 1	0.01	< 10
GK19-27	< 5	< 0.2	< 0.5	6	313	2	10	15	24	0.11	2	< 10	24	< 0.5	< 2	1.04	< 1	36	1.24	< 10	< 1	0.02	< 10
GK19-28	< 5	< 0.2	< 0.5	22	337	< 1	30	13	56	1.05	4	< 10	57	< 0.5	3	2.40	2	31	2.26	< 10	< 1	0.10	< 10
GK19-29	< 5	< 0.2	< 0.5	3	408	1	13	4	16	0.09	< 2	< 10	24	< 0.5	< 2	2.14	< 1	20	1.19	< 10	< 1	0.02	< 10
GK19-30	< 5	< 0.2	0.7	3	1340	< 1	3	46	50	1.30	2	< 10	390	0.8	< 2	0.14	5	4	0.79	< 10	< 1	0.65	23

Results

Activation Laboratories Ltd.

Report: A19-13444

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GK19-31	6	< 0.2	1.0	3	436	3	2	169	181	0.23	< 2	< 10	34	< 0.5	< 2	0.03	2	25	1.23	< 10	< 1	0.06	< 10
GK19-32	28	7.6	7.1	8	1320	2	1	682	850	0.23	< 2	< 10	29	< 0.5	3	0.02	1	11	2.02	< 10	3	0.05	< 10
GK19-33	1710	> 100	40.6	3170	63	1	4	> 5000	2730	0.23	56	< 10	< 10	< 0.5	21	< 0.01	69	10	9.04	< 10	< 1	0.13	< 10
GK19-34	364	38.1	5.7	629	64	4	2	4490	450	0.29	13	< 10	< 10	< 0.5	13	0.01	42	16	5.38	< 10	< 1	0.17	< 10
GK19-21 ch	8	< 0.2	< 0.5	8	410	1	< 1	46	47	1.03	< 2	< 10	171	0.7	< 2	1.15	5	12	1.14	< 10	< 1	0.56	22
DNK19-01	19	2.6	0.8	15	1870	< 1	3	21	107	1.17	74	< 10	108	< 0.5	4	6.39	3	5	4.70	< 10	< 1	0.32	< 10
DNK19-02	606	6.6	98.6	66	239	10	5	21	4010	0.45	2230	< 10	11	< 0.5	4	0.32	3	19	3.08	< 10	3	0.24	< 10
DNK19-03	72	1.6	12.6	48	2290	7	38	37	957	1.33	167	< 10	22	0.6	< 2	3.42	11	9	5.37	< 10	< 1	0.68	< 10
DNK19-04	243	2.6	8.5	27	1100	2	11	24	374	1.17	739	< 10	38	< 0.5	4	2.40	4	14	3.09	< 10	< 1	0.56	< 10
DNK19-05	> 5000	> 100	639	5820	10900	2	11	> 5000	> 10000	0.27	654	< 10	21	< 0.5	3	0.47	4	16	4.93	< 10	4	0.14	< 10
DNK19-06	146	2.8	15.4	36	1910	7	10	47	810	0.88	275	< 10	41	< 0.5	< 2	5.98	3	26	2.39	< 10	< 1	0.46	< 10
DNK19-07	> 5000	87.9	531	2000	892	3	6	> 5000	> 10000	0.51	866	< 10	< 10	< 0.5	9	0.63	2	14	2.98	< 10	2	0.26	< 10
DNK19-08	776	14.9	32.3	43	824	5	9	366	1830	0.84	527	< 10	22	< 0.5	3	2.42	5	30	2.76	< 10	< 1	0.42	< 10
DNK19-09	86	10.2	11.3	55	933	8	13	102	627	1.16	289	< 10	19	< 0.5	3	2.01	5	12	3.57	< 10	< 1	0.61	< 10
DNK19-10	> 5000	> 100	378	770	1660	< 1	2	> 5000	> 10000	1.35	1860	< 10	< 10	< 0.5	< 2	1.35	4	13	4.02	< 10	2	0.65	< 10
DNK19-11	684	88.2	35.0	108	1410	4	4	882	1030	0.69	360	< 10	57	< 0.5	< 2	3.83	< 1	14	2.99	< 10	< 1	0.30	< 10
DNK19-12	9	0.8	1.3	109	995	< 1	6	22	157	4.05	26	< 10	130	0.5	< 2	3.36	15	3	8.79	< 10	3	0.39	12
DNK19-13	8	1.1	1.2	33	907	< 1	5	12	120	2.71	24	< 10	158	0.8	< 2	3.27	15	4	5.67	< 10	< 1	0.52	20
DNK19-14	123	15.3	6.3	41	907	4	9	1100	292	0.72	117	< 10	67	< 0.5	< 2	3.24	< 1	13	3.15	< 10	< 1	0.33	< 10
DNK19-15	323	44.6	8.0	118	1430	2	7	1030	304	0.52	610	< 10	55	< 0.5	< 2	4.53	2	16	3.34	< 10	< 1	0.20	< 10
DNK19-16	7	< 0.2	0.6	4	1650	2	26	12	75	0.36	30	< 10	43	< 0.5	< 2	3.92	2	33	3.00	< 10	< 1	0.17	< 10
DNK19-17	12	0.2	< 0.5	18	1640	< 1	4	13	77	1.75	15	< 10	116	< 0.5	6	4.71	11	9	3.42	< 10	< 1	0.25	< 10
DNK19-18	69	< 0.2	1.5	11	2070	< 1	6	12	69	2.24	227	< 10	172	< 0.5	< 2	8.86	13	2	5.62	< 10	< 1	0.33	10
GTKM19-21	< 5	0.3	7.6	20	4050	8	5	96	1450	2.27	84	13	58	1.0	< 2	8.12	10	8	4.70	< 10	< 1	0.58	< 10
GTKM19-22	< 5	0.8	3.8	21	5690	67	1	22	162	1.49	99	< 10	25	0.5	< 2	7.77	7	3	4.47	< 10	< 1	0.41	12
GTKM19-23	< 5	0.3	6.2	9	5170	2	< 1	11	417	2.76	15	11	99	1.5	< 2	> 10.0	5	4	2.30	< 10	< 1	0.17	20
GTKM19-24	< 5	0.6	1.2	6	4680	3	< 1	45	373	0.38	225	< 10	34	< 0.5	< 2	0.25	2	4	5.77	< 10	< 1	0.31	41
GTKM19-25	< 5	4.9	0.6	36	31100	< 1	81	8	178	2.25	11	< 10	86	< 0.5	12	9.78	15	15	4.54	< 10	1	0.08	15
GTKM19-26	< 5	4.8	3.1	16	850	5	3	83	388	0.49	54	< 10	64	< 0.5	< 2	0.81	8	9	1.94	< 10	< 1	0.34	18
GTKM19-27	< 5	< 0.2	< 0.5	15	660	4	6	< 2	79	1.87	< 2	< 10	101	< 0.5	< 2	0.19	15	9	3.56	< 10	< 1	1.39	15
GTKM19-28	< 5	0.5	9.8	51	2100	< 1	5	37	616	2.11	2	< 10	138	< 0.5	< 2	4.40	15	18	5.01	< 10	< 1	0.17	12
GTKM19-29	< 5	< 0.2	< 0.5	76	1620	2310	19	< 2	105	2.35	4	< 10	103	< 0.5	< 2	4.79	11	20	4.79	< 10	< 1	0.61	< 10
GTKM19-30	< 5	7.4	12.8	23	194	6	2	2450	1310	0.72	22	< 10	76	0.6	< 2	0.30	4	10	1.30	< 10	< 1	0.48	14
GTKM19-31	6	33.4	9.5	367	596	13	1	298	635	0.75	29	< 10	125	< 0.5	< 2	0.30	6	15	1.22	< 10	< 1	0.72	19
GTKM19-32	< 5	3.0	23.3	30	6640	10	4	468	2890	0.78	26	< 10	122	< 0.5	< 2	7.09	9	3	3.99	< 10	3	0.54	< 10
GTKM19-33	22	1.5	< 0.5	4	222	81	14	24	27	0.51	115	< 10	< 10	< 0.5	3	0.26	< 1	7	15.1	< 10	< 1	0.35	< 10
GTKM19-34	6	13.2	104	54	6000	53	15	1970	> 10000	0.33	325	< 10	37	< 0.5	< 2	8.43	13	7	2.81	< 10	9	0.09	< 10
GTKM19-35	< 5	1.5	2.2	9	88	12	2	175	174	0.88	16	16	72	< 0.5	< 2	0.07	2	11	0.87	< 10	< 1	0.67	23
GTKM19-36	5	98.1	13.5	22	126	146	< 1	> 5000	804	0.13	269	< 10	11	< 0.5	< 2	0.04	3	10	0.90	< 10	38	0.12	< 10
GTKM19-37	< 5	0.6	< 0.5	21	2810	1	4	44	248	1.75	< 2	19	164	1.2	< 2	4.04	6	8	5.24	< 10	< 1	0.98	18
GTKM19-38	< 5	14.5	15.0	26	788	1	3	290	1160	1.00	15	13	90	0.7	< 2	1.12	9	8	1.49	< 10	< 1	0.54	15
GTKM19-39	< 5	7.6	1.5	29	2350	2	3	1820	285	0.95	29	14	37	0.6	3	4.01	16	11	1.90	< 10	< 1	0.61	< 10
GTKM19-40	< 5	12.6	10.0	19	5130	2	1	> 5000	713	0.33	21	< 10	58	< 0.5	< 2	7.78	9	8	1.24	< 10	2	0.24	< 10
GTKM19-41	6	24.5	11.5	45	363	3	4	2350	1210	1.21	100	17	< 10	0.9	< 2	0.54	5	8	10.2	< 10	2	0.78	< 10
GTKM19-42	< 5	6.3	14.7	15	2170	< 1	3	700	1570	0.75	33	< 10	91	< 0.5	< 2	1.15	12	8	3.83	< 10	1	0.43	13
GTKM19-43	< 5	9.9	7.6	19	3850	< 1	2	1010	854	0.92	103	< 10	108	0.6	4	1.75	11	8	3.87	< 10	< 1	0.63	20
GTKM19-44	< 5	9.6	8.9	17	783	2	1	936	1010	0.56	66	< 10	79	< 0.5	3	0.18	12	7	2.43	< 10	< 1	0.39	12
SK19-04	< 5	2.9	12.6	140	5600	17	1	65	810	0.46	35	< 10	17	< 0.5	2	> 10.0	16	3	2.31	< 10	2	0.32	11
SK19-05	< 5	< 0.2	< 0.5	4	2090	2	3	15	144	1.41	16	21	115	0.8	< 2	3.32	5	3	5.61	< 10	< 1	0.81	19
SK19-06	8	4.3	22.7	247	1250	25	1	1560	1310	0.33	355	< 10	148	< 0.5	< 2	0.47	3	24	5.71	< 10	2	0.15	< 10
SK19-07	< 5	34.4	32.9	88	427	90	2	> 5000	4030	0.22	488	< 10	30	< 0.5	< 2	0.02	8	11	3.36	< 10	22	0.14	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SK19-08	< 5	0.5	< 0.5	5	110	3	2	33	30	0.94	28	15	129	< 0.5	< 2	0.02	< 1	6	2.56	< 10	< 1	0.81	24
SK19-09	< 5	< 0.2	< 0.5	34	2590	< 1	4	51	293	1.83	< 2	18	119	0.7	< 2	5.05	6	6	5.60	< 10	< 1	0.86	12
SK19-10	< 5	> 100	174	1280	2840	224	14	> 5000	> 10000	0.25	1810	< 10	15	< 0.5	< 2	4.93	81	9	6.76	< 10	16	0.18	< 10
SK19-11	< 5	5.2	106	186	8300	13	7	230	5950	0.05	173	< 10	25	< 0.5	< 2	> 10.0	23	2	0.94	< 10	4	0.03	11
SK19-12	< 5	15.5	25.6	366	2730	310	3	365	2990	0.96	30	13	< 10	0.5	< 2	> 10.0	22	5	4.29	< 10	5	0.65	< 10
SK19-01A	< 5	3.4	23.7	25	3790	8	4	164	2290	1.44	74	30	165	0.6	< 2	6.78	13	3	2.32	< 10	3	0.79	14
SK19-01B	< 5	< 0.2	< 0.5	3	1690	< 1	2	7	60	0.59	53	< 10	27	< 0.5	2	2.43	14	2	4.01	< 10	< 1	0.41	< 10
SK19-02A	< 5	1.0	3.8	5	2410	1	< 1	135	527	2.27	103	< 10	84	0.7	< 2	1.83	3	3	5.72	< 10	< 1	0.27	29
SK19-02B	< 5	3.0	10.8	16	5060	7	3	221	1470	2.56	201	18	24	1.4	< 2	4.43	11	4	6.16	< 10	< 1	0.49	20
SK19-03A	< 5	14.0	15.5	38	8570	10	2	2410	1700	0.18	121	42	93	2.0	8	5.48	< 1	16	14.9	< 10	1	0.01	< 10
SK19-03B	< 5	3.4	8.8	61	1200	< 1	7	980	1160	4.90	34	51	359	4.4	3	1.58	< 1	5	18.2	< 10	< 1	0.42	12
GK19-19A	10	1.2	7.9	8	694	1	< 1	648	711	0.96	3	< 10	158	0.7	< 2	0.25	2	3	1.46	< 10	< 1	0.49	23
A19-S1	5	< 0.2	< 0.5	21	998	< 1	6	14	96	2.25	< 2	< 10	349	0.6	< 2	1.01	14	9	5.13	< 10	< 1	0.47	16
PEK-N	7	0.3	< 0.5	16	1190	< 1	7	12	99	2.56	8	< 10	182	0.6	4	0.45	8	10	4.69	< 10	< 1	0.54	15
PEK-S	5	0.3	< 0.5	14	1170	< 1	3	10	103	2.99	11	< 10	248	0.6	< 2	0.27	8	4	5.00	< 10	< 1	0.58	14

Results

Activation Laboratories Ltd.

Report: A19-13444

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA- GRA
A19-142	0.39	0.074	0.121	< 0.01	< 2	4	72	0.02	< 20	< 1	< 2	< 10	38	< 10	11	2				
A19-143	0.03	0.052	0.002	< 0.01	< 2	< 1	65	< 0.01	< 20	< 1	< 2	< 10	12	< 10	< 1	< 1				
A19-144	0.40	0.064	0.120	0.09	2	5	369	< 0.01	< 20	3	< 2	< 10	31	< 10	9	1				
A19-145	0.69	0.084	0.067	< 0.01	< 2	4	55	0.05	< 20	2	< 2	< 10	36	< 10	8	4				
A19-146	0.24	0.076	0.099	0.59	4	4	32	< 0.01	< 20	7	< 2	< 10	31	< 10	5	2				
A19-147	0.16	0.050	0.032	< 0.01	< 2	1	12	< 0.01	< 20	< 1	< 2	< 10	12	< 10	4	1				
A19-148	0.56	0.060	0.118	< 0.01	4	4	17	< 0.01	< 20	< 1	< 2	< 10	35	< 10	8	2				
A19-149	0.08	0.058	0.044	0.16	4	2	19	< 0.01	< 20	< 1	< 2	< 10	30	< 10	17	2				
A19-150	0.04	0.031	0.030	1.99	< 2	1	7	< 0.01	< 20	< 1	< 2	< 10	12	< 10	4	2				
A19-151	0.03	0.027	0.013	0.19	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	5	< 10	2	1				
A19-152	0.34	0.044	0.131	< 0.01	3	5	12	0.04	< 20	< 1	< 2	< 10	89	< 10	7	5				
A19-153	0.04	0.026	0.091	0.62	11	2	11	< 0.01	< 20	< 1	< 2	< 10	20	< 10	6	4				
A19-154	0.56	0.042	0.085	0.62	12	6	96	< 0.01	< 20	6	< 2	< 10	55	< 10	9	4				
A19-155	0.02	0.027	0.029	< 0.01	< 2	< 1	33	< 0.01	< 20	4	< 2	< 10	2	< 10	< 1	< 1				
A19-156	1.13	0.060	0.064	0.04	3	9	23	< 0.01	< 20	< 1	< 2	< 10	70	< 10	2	2				
A19-157	0.08	0.043	0.009	< 0.01	< 2	1	7	< 0.01	< 20	< 1	< 2	< 10	6	< 10	2	< 1				
A19-158	0.02	0.027	0.013	< 0.01	< 2	< 1	15	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1				
A19-159	< 0.01	0.025	0.009	1.27	15	< 1	4	< 0.01	< 20	3	< 2	< 10	3	< 10	< 1	1		3.75		
A19-160	< 0.01	0.017	0.002	9.62	102	< 1	3	< 0.01	< 20	5	< 2	< 10	1	< 10	< 1	1	142	29.4	12.8	
A19-161	0.02	0.051	0.016	0.11	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	9	< 10	< 1	1				
A19-162	2.02	0.059	0.144	0.02	< 2	10	46	0.01	< 20	< 1	3	< 10	110	< 10	7	2				
A19-163	0.64	0.032	0.025	< 0.01	2	< 1	400	< 0.01	< 20	2	< 2	< 10	7	< 10	2	< 1				
A19-164	4.43	0.024	0.014	0.01	3	1	1260	< 0.01	< 20	< 1	< 2	< 10	11	< 10	2	2				
A19-165	0.06	0.036	0.024	0.01	< 2	5	33	< 0.01	< 20	< 1	< 2	< 10	5	< 10	3	< 1				
A19-166	0.88	0.040	0.094	0.04	3	4	44	< 0.01	< 20	< 1	< 2	< 10	49	< 10	4	1				
A19-167	0.33	0.153	0.040	< 0.01	< 2	2	20	< 0.01	< 20	< 1	< 2	< 10	30	< 10	4	2				
A19-168	2.14	0.128	0.181	< 0.01	3	9	142	0.06	< 20	< 1	< 2	< 10	121	< 10	13	5				
A19-169	1.81	0.069	0.091	< 0.01	4	9	217	0.16	< 20	2	< 2	< 10	87	< 10	12	7				
A19-170	1.87	0.077	0.128	< 0.01	< 2	11	133	0.34	< 20	8	< 2	< 10	147	< 10	13	6				
A19-171	0.32	0.097	0.013	0.03	< 2	5	659	0.17	< 20	2	< 2	< 10	23	< 10	5	6				
A19-172	0.17	0.078	0.020	< 0.01	< 2	1	248	0.04	< 20	< 1	< 2	< 10	33	< 10	2	3				
A19-173	2.21	0.127	0.209	< 0.01	5	5	187	0.28	< 20	10	< 2	< 10	109	< 10	12	6				
A19-174	1.10	0.093	0.093	< 0.01	< 2	6	326	0.17	< 20	< 1	< 2	< 10	49	< 10	10	6				
A19-175	0.08	0.163	0.019	< 0.01	< 2	2	94	0.10	< 20	4	< 2	< 10	12	< 10	7	13				
A19-176	1.40	0.129	0.115	< 0.01	3	13	300	0.36	< 20	4	< 2	< 10	155	< 10	11	6				
A19-177	0.92	0.034	0.072	< 0.01	4	8	528	0.28	< 20	4	< 2	< 10	113	< 10	7	6				
A19-178	2.79	0.090	0.142	< 0.01	< 2	12	296	0.46	< 20	8	< 2	< 10	183	< 10	11	13				
A19-179	1.35	0.169	0.097	< 0.01	< 2	7	60	0.27	< 20	3	< 2	< 10	80	< 10	6	8				
A19-180	0.08	0.030	0.015	0.16	4	2	14	< 0.01	< 20	< 1	< 2	< 10	16	< 10	4	2				
A19-181	0.12	0.072	0.066	4.59	24	7	58	0.20	< 20	1	< 2	< 10	66	< 10	10	16		1.59	4.70	
A19-182	< 0.01	0.024	0.007	0.21	32	< 1	14	< 0.01	< 20	< 1	5	< 10	6	< 10	2	1				
A19-183	0.02	0.039	0.001	0.66	195	< 1	132	< 0.01	< 20	1	7	< 10	2	< 10	2	< 1				
A19-184	0.05	0.024	0.027	2.19	60	3	117	< 0.01	< 20	3	20	< 10	38	< 10	5	5				
A19-185	0.02	0.026	0.014	2.04	61	2	185	< 0.01	< 20	5	15	< 10	6	< 10	6	2			1.91	
A19-186	0.03	0.024	0.013	0.66	28	3	187	< 0.01	< 20	< 1	13	< 10	17	< 10	6	2				
A19-187	0.09	0.032	0.164	0.56	50	6	107	< 0.01	< 20	< 1	7	< 10	62	< 10	17	3				
A19-258	0.24	0.053	0.049	2.97	793	2	80	< 0.01	< 20	< 1	< 2	< 10	25	88	3	3		2.06	2.01	6.59
A19-259	0.02	0.042	0.029	0.69	231	1	39	< 0.01	< 20	< 1	< 2	< 10	8	53	3	2		0.953		
A19-260	0.02	0.032	0.032	0.03	39	3	56	< 0.01	< 20	< 1	< 2	< 10	12	< 10	7	3				
PEK19-01	0.83	0.128	0.079	< 0.01	4	5	898	0.23	< 20	3	< 2	< 10	59	< 10	9	10				

Results

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	10	1	10	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA- GRA
PEK19-02	1.45	0.087	0.117	< 0.01	9	8	932	0.23	< 20	5	< 2	< 10	85	< 10	10	7				
PEK19-03	0.83	0.081	0.038	< 0.01	< 2	6	194	0.20	< 20	2	< 2	< 10	59	< 10	6	5				
PEK19-04	0.26	0.051	0.002	< 0.01	< 2	1	296	0.03	< 20	5	< 2	< 10	5	< 10	2	2				
PEK19-05	0.65	0.078	0.058	< 0.01	< 2	8	284	0.27	< 20	5	< 2	< 10	60	< 10	9	9				
PEK19-06	0.53	0.096	0.027	< 0.01	< 2	2	72	0.03	< 20	2	< 2	< 10	25	< 10	2	2				
PEK19-07	0.32	0.051	0.066	< 0.01	4	6	1080	0.18	< 20	3	< 2	< 10	122	< 10	6	7				
PEK19-08	0.96	0.130	0.089	< 0.01	2	8	611	0.20	< 20	4	< 2	< 10	159	< 10	8	6				
PEK19-09	0.53	0.068	0.080	< 0.01	4	5	626	0.20	< 20	< 1	< 2	< 10	129	< 10	6	5				
PEK19-10	0.03	0.029	0.045	0.69	3	2	13	< 0.01	< 20	1	< 2	< 10	18	< 10	2	3				
PEK19-11	2.17	0.094	0.153	0.02	4	17	205	0.10	< 20	< 1	< 2	< 10	166	< 10	16	6				
PEK19-12	0.28	0.072	0.043	< 0.01	< 2	4	37	0.17	< 20	< 1	< 2	23	31	< 10	10	5				
PEK19-13	0.72	0.123	0.071	< 0.01	< 2	5	223	0.19	< 20	2	< 2	< 10	60	< 10	7	4				
PEK19-14	0.20	0.046	0.029	< 0.01	< 2	2	483	0.08	< 20	< 1	< 2	< 10	63	< 10	3	6				
PEK19-15	0.65	0.059	0.066	< 0.01	< 2	4	574	0.11	< 20	2	< 2	< 10	65	< 10	5	5				
PEK19-16	1.33	0.089	0.147	< 0.01	< 2	9	182	0.27	< 20	3	< 2	< 10	148	< 10	13	5				
PEK19-17	1.27	0.105	0.088	< 0.01	< 2	7	190	0.23	< 20	2	< 2	< 10	88	< 10	8	5				
PEK19-18	0.50	0.084	0.050	< 0.01	< 2	3	376	0.08	< 20	< 1	< 2	< 10	45	< 10	6	3				
PEK19-19	0.75	0.053	0.078	< 0.01	3	5	1490	0.19	< 20	2	< 2	< 10	101	< 10	6	4				
PEK19-20	1.05	0.096	0.118	< 0.01	< 2	8	387	0.34	< 20	3	< 2	< 10	166	< 10	10	5				
PEK19-21	0.11	0.057	0.016	< 0.01	< 2	2	314	0.03	< 20	< 1	< 2	< 10	134	< 10	2	2				
PEK19-22	0.58	0.097	0.082	0.02	2	4	418	0.13	< 20	4	< 2	< 10	47	< 10	10	5				
PEK19-23	0.92	0.054	0.078	< 0.01	2	5	686	0.15	< 20	1	< 2	< 10	68	< 10	8	5				
GK19-01	0.34	0.104	0.097	0.03	< 2	4	154	0.07	< 20	4	< 2	< 10	35	< 10	9	4				
GK19-02	1.58	0.055	0.394	< 0.01	6	4	68	0.02	< 20	< 1	< 2	< 10	156	< 10	28	7				
GK19-03	0.11	0.035	0.034	< 0.01	< 2	< 1	87	< 0.01	< 20	< 1	< 2	< 10	3	< 10	5	< 1				
GK19-04	0.15	0.047	0.096	0.09	2	3	16	< 0.01	< 20	5	< 2	< 10	18	< 10	6	1				
GK19-05	0.03	0.024	0.025	2.21	< 2	1	8	< 0.01	< 20	< 1	< 2	< 10	11	< 10	4	2				
GK19-06	0.20	0.064	0.055	0.05	< 2	2	111	< 0.01	< 20	4	< 2	< 10	21	< 10	7	1				
GK19-07	0.50	0.047	0.082	< 0.01	< 2	5	976	< 0.01	< 20	< 1	< 2	< 10	31	< 10	15	1				
GK19-08	0.45	0.040	0.033	0.54	2	2	55	0.02	< 20	< 1	< 2	< 10	63	< 10	4	2				
GK19-09	0.59	0.054	0.083	1.55	3	5	120	0.21	< 20	< 1	< 2	< 10	50	< 10	14	14				
GK19-10	0.06	0.033	0.030	1.42	< 2	< 1	8	< 0.01	< 20	< 1	< 2	< 10	9	< 10	3	2				
GK19-11	1.63	0.079	0.129	0.15	< 2	5	341	< 0.01	< 20	< 1	< 2	< 10	61	< 10	5	3				
GK19-12	0.03	0.042	0.008	0.01	< 2	< 1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	< 1	< 1				
GK19-13	0.28	0.046	0.002	< 0.01	< 2	< 1	4	< 0.01	< 20	3	< 2	< 10	5	< 10	< 1	< 1				
GK19-14	0.70	0.129	0.090	0.01	< 2	3	119	< 0.01	< 20	2	< 2	< 10	33	< 10	3	3				
GK19-15	0.63	0.035	0.065	< 0.01	< 2	2	296	< 0.01	< 20	5	< 2	< 10	15	< 10	5	1				
GK19-16	0.11	0.063	0.048	< 0.01	< 2	3	118	< 0.01	< 20	< 1	< 2	< 10	8	< 10	5	1				
GK19-17	0.01	0.040	0.005	0.21	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	3	< 10	< 1	< 1				
GK19-18	0.04	0.034	0.008	3.52	8	< 1	14	< 0.01	< 20	2	< 2	< 10	4	< 10	3	1		3.63	5.89	
GK19-19	0.12	0.060	0.055	0.64	3	< 1	17	< 0.01	< 20	4	< 2	< 10	14	< 10	4	2		0.566		
GK19-20	0.01	0.031	0.003	3.36	14	< 1	2	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	1		4.95	3.40	
GK19-21	< 0.01	0.021	0.005	5.01	35	< 1	1	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	< 1		22.7	4.31	
GK19-22	0.12	0.039	0.008	0.02	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	< 1				
GK19-23	0.35	0.037	0.028	0.02	< 2	1	17	< 0.01	< 20	< 1	< 2	< 10	14	< 10	2	1				
GK19-24	0.10	0.040	0.062	< 0.01	< 2	1	72	< 0.01	< 20	< 1	< 2	< 10	10	< 10	2	1				
GK19-25	1.10	0.028	0.047	< 0.01	< 2	2	430	< 0.01	< 20	< 1	< 2	< 10	18	< 10	4	1				
GK19-26	7.92	0.044	0.034	< 0.01	< 2	1	1580	< 0.01	< 20	< 1	< 2	< 10	17	< 10	1	1				
GK19-27	0.37	0.028	0.054	< 0.01	< 2	< 1	259	< 0.01	< 20	< 1	< 2	< 10	2	< 10	2	< 1				
GK19-28	0.66	0.043	0.048	0.01	2	2	528	< 0.01	< 20	< 1	< 2	< 10	25	< 10	3	1				

Results

Activation Laboratories Ltd.

Report: A19-13444

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA-GRA
GK19-29	0.30	0.030	0.002	< 0.01	< 2	< 1	312	< 0.01	< 20	< 1	< 2	< 10	2	< 10	1	< 1				
GK19-30	0.12	0.054	0.049	< 0.01	< 2	2	15	< 0.01	< 20	6	< 2	< 10	12	< 10	5	< 1				
GK19-31	0.02	0.065	0.009	0.01	< 2	< 1	6	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	2				
GK19-32	0.04	0.034	0.002	0.08	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	9	< 10	1	2				
GK19-33	0.01	0.021	0.007	10.2	7	< 1	1	< 0.01	< 20	1	< 2	< 10	7	< 10	< 1	4	101	2.15		
GK19-34	0.02	0.034	0.007	5.47	5	< 1	3	< 0.01	< 20	< 1	< 2	< 10	7	< 10	< 1	3				
GK19-21 ch	0.14	0.080	0.041	0.02	< 2	1	137	< 0.01	< 20	2	< 2	< 10	14	< 10	4	2				
DNK19-01	1.53	0.044	0.058	0.10	8	3	635	< 0.01	< 20	< 1	< 2	< 10	18	< 10	16	4				
DNK19-02	0.09	0.029	0.016	2.21	6	2	28	< 0.01	< 20	8	< 2	< 10	10	< 10	2	2				
DNK19-03	0.63	0.048	0.135	2.45	7	10	150	< 0.01	< 20	2	< 2	< 10	44	< 10	12	4				
DNK19-04	0.47	0.036	0.057	1.15	5	5	179	< 0.01	< 20	< 1	< 2	< 10	20	< 10	8	2				
DNK19-05	0.21	0.043	0.012	1.98	4670	< 1	41	< 0.01	< 20	< 1	< 2	< 10	5	70	4	2	3920	1.91	2.70	19.6
DNK19-06	0.55	0.033	0.038	1.17	35	4	555	< 0.01	< 20	< 1	< 2	< 10	30	< 10	7	2				
DNK19-07	0.23	0.039	0.022	3.29	1560	2	79	< 0.01	< 20	8	< 2	< 10	16	< 10	3	2		1.91	2.51	6.21
DNK19-08	0.33	0.034	0.036	1.47	25	4	132	< 0.01	< 20	2	< 2	< 10	21	< 10	4	2				
DNK19-09	0.50	0.048	0.026	1.65	15	5	119	< 0.01	< 20	1	< 2	< 10	22	< 10	5	3				
DNK19-10	0.47	0.065	0.086	3.97	716	2	109	< 0.01	< 20	< 1	< 2	< 10	21	17	4	3	794	3.17	1.70	7.53
DNK19-11	1.52	0.047	0.083	0.85	49	4	415	< 0.01	< 20	1	< 2	< 10	14	< 10	8	2				
DNK19-12	2.42	0.073	0.164	0.04	8	12	210	< 0.01	< 20	< 1	< 2	< 10	137	< 10	8	4				
DNK19-13	1.84	0.094	0.151	0.10	4	9	212	< 0.01	< 20	< 1	< 2	< 10	76	< 10	11	3				
DNK19-14	0.95	0.035	0.057	0.21	17	4	197	< 0.01	< 20	2	< 2	< 10	36	< 10	8	2				
DNK19-15	1.78	0.041	0.045	0.44	46	4	521	< 0.01	< 20	< 1	< 2	< 10	23	< 10	7	4				
DNK19-16	0.53	0.027	0.024	0.02	6	2	78	< 0.01	< 20	< 1	< 2	< 10	20	< 10	5	2				
DNK19-17	1.12	0.060	0.080	0.03	3	5	512	< 0.01	< 20	3	< 2	< 10	57	< 10	6	2				
DNK19-18	2.34	0.051	0.085	0.06	6	7	783	< 0.01	< 20	< 1	< 2	< 10	69	< 10	10	3				
GTKM19-21	0.63	0.045	0.083	0.60	5	7	259	< 0.01	< 20	< 1	< 2	< 10	78	< 10	9	3				
GTKM19-22	0.47	0.033	0.097	1.66	3	6	189	0.05	< 20	< 1	< 2	< 10	52	< 10	11	4				
GTKM19-23	0.27	0.060	0.092	0.08	4	5	203	0.17	< 20	4	< 2	< 10	53	< 10	56	4				
GTKM19-24	0.21	0.033	0.070	0.97	8	6	22	< 0.01	< 20	< 1	< 2	< 10	8	< 10	10	10				
GTKM19-25	1.19	0.033	1.32	0.11	4	5	419	0.04	< 20	< 1	22	< 10	61	< 10	27	2				
GTKM19-26	0.28	0.045	0.063	0.52	9	2	48	< 0.01	< 20	< 1	< 2	< 10	11	< 10	6	6				
GTKM19-27	0.90	0.051	0.063	0.32	< 2	4	8	0.23	< 20	2	< 2	< 10	58	< 10	3	5				
GTKM19-28	1.52	0.076	0.085	0.06	4	17	280	0.02	< 20	5	< 2	< 10	186	< 10	9	4				
GTKM19-29	0.69	0.156	0.110	0.40	2	13	148	0.18	< 20	3	< 2	< 10	135	< 10	10	6				
GTKM19-30	0.05	0.030	0.088	0.60	8	3	18	< 0.01	< 20	2	< 2	< 10	26	< 10	6	4				
GTKM19-31	0.05	0.035	0.127	0.33	129	4	27	< 0.01	< 20	< 1	< 2	< 10	28	< 10	10	2				
GTKM19-32	0.28	0.032	0.083	0.24	7	6	249	< 0.01	< 20	< 1	< 2	< 10	27	< 10	8	2				
GTKM19-33	0.03	0.025	0.011	17.9	16	< 1	52	< 0.01	< 20	< 1	< 2	< 10	10	< 10	3	23				
GTKM19-34	0.16	0.021	0.021	1.90	19	< 1	237	< 0.01	< 20	2	< 2	< 10	12	< 10	4	3			1.09	
GTKM19-35	0.04	0.026	0.042	0.26	5	1	9	< 0.01	< 20	< 1	< 2	< 10	10	< 10	4	3				
GTKM19-36	< 0.01	0.021	0.009	2.31	155	< 1	7	< 0.01	< 20	< 1	13	< 10	14	< 10	< 1	4		0.600		
GTKM19-37	0.35	0.045	0.092	0.02	7	11	151	0.15	< 20	4	< 2	< 10	127	< 10	11	8				
GTKM19-38	0.09	0.034	0.094	0.39	7	4	58	< 0.01	< 20	< 1	< 2	< 10	31	< 10	7	3				
GTKM19-39	0.06	0.035	0.086	1.07	13	6	129	< 0.01	< 20	1	< 2	< 10	33	< 10	8	3				
GTKM19-40	0.03	0.027	0.060	0.90	21	5	264	< 0.01	< 20	3	< 2	< 10	11	< 10	9	3		0.861		
GTKM19-41	0.05	0.027	0.173	11.3	29	4	29	< 0.01	< 20	< 1	< 2	< 10	32	< 10	8	10				
GTKM19-42	0.29	0.027	0.146	0.47	10	6	86	< 0.01	< 20	< 1	< 2	< 10	32	< 10	11	3				
GTKM19-43	0.27	0.034	0.127	0.35	10	7	77	< 0.01	< 20	5	< 2	< 10	38	< 10	10	4				
GTKM19-44	0.12	0.025	0.091	0.42	7	4	25	< 0.01	< 20	< 1	< 2	< 10	21	< 10	6	3				
SK19-04	0.05	0.029	0.033	1.76	12	6	195	< 0.01	< 20	< 1	< 2	< 10	23	< 10	17	4				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA-GRA
SK19-05	0.23	0.033	0.098	0.06	11	5	100	0.09	< 20	< 1	< 2	< 10	56	< 10	11	7				
SK19-06	0.10	0.032	0.039	0.20	30	< 1	83	< 0.01	< 20	6	< 2	< 10	56	< 10	3	4				
SK19-07	0.01	0.022	0.021	1.35	104	2	8	< 0.01	< 20	< 1	5	< 10	21	< 10	1	3		0.470		
SK19-08	0.05	0.029	0.021	0.29	8	3	16	< 0.01	< 20	< 1	< 2	< 10	22	< 10	4	10				
SK19-09	0.38	0.048	0.121	0.02	7	11	235	0.13	< 20	3	< 2	< 10	88	< 10	12	4				
SK19-10	0.02	0.023	0.022	4.33	152	3	119	< 0.01	< 20	< 1	70	< 10	20	< 10	5	5	102	0.958	1.15	
SK19-11	0.02	0.022	0.015	0.82	33	< 1	229	< 0.01	< 20	< 1	6	< 10	4	< 10	13	1				
SK19-12	0.07	0.033	0.053	3.93	14	6	149	< 0.01	< 20	5	< 2	< 10	35	< 10	10	5				
SK19-01A	0.16	0.049	0.125	0.27	5	7	145	0.08	< 20	4	< 2	< 10	65	< 10	14	2				
SK19-01B	0.11	0.021	0.149	1.64	4	5	142	< 0.01	< 20	3	< 2	< 10	24	< 10	10	5				
SK19-02A	0.60	0.066	0.123	0.48	8	5	89	0.23	< 20	8	< 2	< 10	53	< 10	14	10				
SK19-02B	0.53	0.069	0.108	1.06	12	5	174	0.16	< 20	1	< 2	< 10	52	< 10	12	9				
SK19-03A	0.21	0.021	0.013	0.37	32	< 1	170	0.01	< 20	3	< 2	< 10	20	< 10	4	8				
SK19-03B	0.97	0.031	0.081	0.12	8	10	143	0.13	< 20	< 1	< 2	< 10	105	< 10	8	18				
GK19-19A	0.09	0.063	0.047	0.31	< 2	< 1	23	< 0.01	< 20	< 1	< 2	< 10	18	< 10	4	2				
A19-S1	1.36	0.073	0.128	0.03	4	9	113	0.14	< 20	1	< 2	< 10	117	< 10	12	5				
PEK-N	0.78	0.123	0.097	0.16	2	6	80	0.02	< 20	< 1	< 2	< 10	70	< 10	7	2				
PEK-S	0.93	0.121	0.111	0.13	3	5	51	< 0.01	< 20	8	< 2	< 10	54	< 10	5	3				

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 134b (AQUA REGIA) Meas																							
OREAS 134b (AQUA REGIA) Cert																							
OREAS 134b (AQUA REGIA) Meas																							
OREAS 134b (AQUA REGIA) Cert																							
MP-1b Meas		50.8	511	> 10000		198		> 5000	> 10000		> 10000				865	2.18			7.54				
MP-1b Cert		47.0	527.00 00	30700		285		20900	167000		23000. 00				954.00 00	2.47			8.19				
MP-1b Meas		48.2						> 5000	> 10000														
MP-1b Cert		47.0						20900	167000														
CPB-2 Meas																							
CPB-2 Cert																							
CZN-4 Meas																							
CZN-4 Cert																							
CZN-4 Meas																							
CZN-4 Cert																							
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6410	452	2	37	5	25	2.06	99		77	8.3	< 2	0.05	88	26	6.67	< 10		0.95	44
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6470	445	2	34	9	25	2.01	94		77	7.9	3	0.04	84	24	6.67	< 10		0.95	42
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	5990	425	2	33	8	26	1.88	90		73	7.7	< 2	0.04	81	24	6.24	< 10		0.87	40
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3						8	23														
OREAS 904 (Aqua Regia) Cert		0.366						8.49	22.4														
OREAS 45e (Aqua Regia) Meas				768	397		391	6	32	3.96	13		117			0.03	34	788	23.1	10		0.06	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	849.0	22.650	11.7		0.053	
OREAS 45e (Aqua Regia) Meas				717	383		389	14	31	3.67	10		111			0.03	36	798	21.7	10		0.06	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	849.0	22.650	11.7		0.053	
OREAS 45e (Aqua Regia) Meas								13	31														
OREAS 45e (Aqua Regia) Cert								14.3	30.6														
SQ48 Meas																							

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SQ48 Cert																							
OREAS 922 (AQUA REGIA) Meas		1.0	< 0.5	2420	807	< 1	40	61	261	3.05	7		74	0.8	6	0.42	18	51	5.56	< 10		0.50	43
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2310	786	< 1	35	60	269	2.96	12		73	0.8	7	0.41	17	46	5.30	< 10		0.48	40
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		0.6						68	262														
OREAS 922 (AQUA REGIA) Cert		0.851						60	256														
OREAS 923 (AQUA REGIA) Meas		1.7	0.8	4620	922	< 1	33	77	336	3.11	5		54	0.7	14	0.41	19	44	6.47	< 10		0.43	37
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.7	< 0.5	4230	845	< 1	30	83	344	2.84	10		51	0.6	13	0.38	17	41	5.84	< 10		0.37	34
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.6						75	318														
OREAS 923 (AQUA REGIA) Cert		1.62						81	335														
PTC-1b Meas																							
PTC-1b Cert																							
PTC-1b Meas																							
PTC-1b Cert																							
OREAS 520 (Aqua Regia) Meas				2890	2020	56	68	8	21	1.59	147			0.6	< 2	3.39	164	34	16.1	10		0.49	68
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 520 (Aqua Regia) Meas				2750	1970	51	65	< 2	19	1.53	133			0.6	< 2	3.30	158	33	15.4	10		0.47	66
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 520 (Aqua Regia) Meas								4	19														
OREAS 520 (Aqua Regia) Cert								5.22	20.7														
OREAS 907 (Aqua Regia) Meas		1.3	1.0	6560	348	6	4	31	148	1.32	36		226	1.1	14	0.28	41	9	8.38	20		0.39	41
OREAS 907		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(Aqua Regia) Cert																							
OREAS 907 (Aqua Regia) Meas		1.3	0.5	6160	333	4	4	35	148	1.21	35		213	1.1	11	0.27	40	9	7.99	20		0.35	40
OREAS 907 (Aqua Regia) Cert		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1
OREAS 907 (Aqua Regia) Meas		1.2						33	143														
OREAS 907 (Aqua Regia) Cert		1.30						34.1	139														
CCU-1e Meas																							
CCU-1e Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
OREAS 222 (Fire Assay) Meas	1160																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1190																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
Oreas 621 (Aqua Regia) Meas		61.8	277	3480	535	12	26	> 5000	> 10000	1.79	82			0.6	< 2	1.64	29	37	3.55	< 10	2	0.35	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		71.0	294	3840	554	12	28	> 5000	> 10000	1.95	76			0.6	< 2	1.67	28	34	3.76	< 10	3	0.39	21
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		75.0	272	3460	511	13	24	> 5000	> 10000	1.68	79			0.5	4	1.58	27	32	3.34	< 10	4	0.34	19
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas		69.3						> 5000	> 10000														
Oreas 621 (Aqua Regia) Cert		68.0						13600	51700														
OREAS 257 Meas																							
OREAS 257 Cert																							
OREAS 255 (Fire Assay) Meas	4150																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4230																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4110																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4130																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4200																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4150																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4160																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4100																						
OREAS 255 (Fire Assay) Cert	4080																						
A19-151 Orig	39	2.4	< 0.5	4	1890	3	< 1	8	8	0.34	18	< 10	192	< 0.5	< 2	0.03	6	10	1.44	< 10	< 1	0.14	< 10
A19-151 Dup	31	2.4	< 0.5	8	1800	3	< 1	12	29	0.33	21	< 10	182	< 0.5	< 2	0.03	6	10	1.37	< 10	< 1	0.13	< 10
A19-163 Orig	< 5																						
A19-163 Dup	< 5																						
A19-166 Orig		0.5	0.6	26	120	< 1	58	74	125	2.08	15	< 10	108	< 0.5	3	0.19	< 1	52	3.30	< 10	< 1	0.28	< 10
A19-166 Dup		0.5	0.6	26	121	< 1	57	72	125	2.08	14	< 10	109	< 0.5	3	0.19	< 1	53	3.33	< 10	< 1	0.28	< 10
A19-176 Orig	< 5																						
A19-176 Dup	< 5																						
A19-178 Orig		< 0.2	< 0.5	23	1480	< 1	10	3	108	3.82	< 2	< 10	23	< 0.5	4	2.69	26	13	5.17	< 10	< 1	0.05	11
A19-178 Dup		< 0.2	< 0.5	23	1490	< 1	9	3	106	3.88	< 2	< 10	24	< 0.5	< 2	2.72	25	12	5.20	< 10	< 1	0.05	10
A19-186 Orig	< 5																						
A19-186 Dup	9																						
PEK19-01 Orig	8	0.3	< 0.5	10	892	1	4	19	55	2.99	11	< 10	291	< 0.5	< 2	2.86	6	28	2.29	< 10	< 1	0.10	< 10
PEK19-01 Split PREP DUP	< 5	0.4	< 0.5	10	828	< 1	5	21	54	2.70	6	< 10	249	< 0.5	< 2	2.66	6	24	2.09	< 10	< 1	0.08	< 10
PEK19-06 Orig		< 0.2	< 0.5	1	571	2	4	4	42	1.06	< 2	< 10	64	< 0.5	< 2	0.36	3	29	1.61	< 10	< 1	0.10	< 10
PEK19-06 Dup		< 0.2	< 0.5	1	569	1	3	3	42	1.06	3	< 10	63	< 0.5	< 2	0.36	3	27	1.61	< 10	< 1	0.10	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2						< 2	< 2														
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA-GRA
OREAS 134b (AQUA REGIA) Meas																	203	13.2	17.7	
OREAS 134b (AQUA REGIA) Cert																	204	13.3	17.7	
OREAS 134b (AQUA REGIA) Meas																		13.2	17.4	
OREAS 134b (AQUA REGIA) Cert																		13.3	17.7	
MP-1b Meas	0.02			12.3										> 200			50	2.10	16.9	
MP-1b Cert	0.024			13.79										1100.000			47	2.09	16.7	
MP-1b Meas																		2.14	17.2	
MP-1b Cert																		2.09	16.7	
CPB-2 Meas																		63.5	5.88	
CPB-2 Cert																		63.52	6.04	
CZN-4 Meas																	47	0.184	53.3	
CZN-4 Cert																	51	0.1861	55.07	
CZN-4 Meas																		0.186	54.0	
CZN-4 Cert																		0.1861	55.07	
OREAS 904 (Aqua Regia) Meas	0.22		0.104	0.04	3	5	23	< 20			< 2	< 10	33		20					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 904 (Aqua Regia) Meas	0.21		0.100	0.04	3	5	21	< 20			< 2	< 10	33		20					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 904 (Aqua Regia) Meas	0.20		0.097	0.04	2	4	21	< 20			< 2	< 10	31		19					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 904 (Aqua Regia) Meas																				
OREAS 904 (Aqua Regia) Cert																				
OREAS 45e (Aqua Regia) Meas	0.10	0.039	0.028	0.04			73	5	< 20		< 2	< 10	283		5					
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044			78	4.05	10.70		0.072	1.73	295.0		5.74					
OREAS 45e (Aqua Regia) Meas	0.10	0.036	0.028	0.04			72	5	< 20		< 2	< 10	275		5					
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044			78	4.05	10.70		0.072	1.73	295.0		5.74					
OREAS 45e (Aqua Regia) Meas																				
OREAS 45e (Aqua Regia) Cert																				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA-GRA
SQ48 Meas																				30.4
SQ48 Cert																				30.25
OREAS 922 (AQUA REGIA) Meas	1.51	0.036	0.068	0.37	2	4	20	< 20			< 2	< 10	38	< 10	22	11				
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0	14.5			0.14	1.98	29.4	1.12	16.0	22.3				
OREAS 922 (AQUA REGIA) Meas	1.43	0.035	0.065	0.36	2	4	19	< 20			< 2	< 10	36	< 10	21	11				
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0	14.5			0.14	1.98	29.4	1.12	16.0	22.3				
OREAS 922 (AQUA REGIA) Meas																				
OREAS 922 (AQUA REGIA) Cert																				
OREAS 923 (AQUA REGIA) Meas	1.59		0.063	0.69	< 2	4	17	< 20			< 2	< 10	37	< 10	20	20				
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6	14.3			0.12	1.80	30.6	1.96	14.3	22.5				
OREAS 923 (AQUA REGIA) Meas	1.44		0.059	0.63	2	3	15	< 20			< 2	< 10	33	< 10	18	27				
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6	14.3			0.12	1.80	30.6	1.96	14.3	22.5				
OREAS 923 (AQUA REGIA) Meas																				
OREAS 923 (AQUA REGIA) Cert																				
PTC-1b Meas																	50	0.078	0.203	
PTC-1b Cert																	53	0.080	0.2083	
PTC-1b Meas																		0.081	0.200	
PTC-1b Cert																		0.080	0.2083	
OREAS 520 (Aqua Regia) Meas	1.15	0.070	0.070	0.88	7	11	29	0.14	< 20	6	< 2	< 10	238	25	13	39				
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0				
OREAS 520 (Aqua Regia) Meas	1.10	0.067	0.068	0.85	5	10	29	0.14	< 20	1	< 2	< 10	230	23	12	39				
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0				
OREAS 520 (Aqua Regia) Meas																				
OREAS 520 (Aqua Regia) Cert																				
OREAS 907 (Aqua Regia)	0.24	0.112	0.023	0.06	4	2	15	0.03	< 20	4	< 2	< 10	7	< 10	8	15				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Pb	Zn	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	3	0.003	0.001	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	ICP-OES	ICP-OES	FA-GRA
PEK19-01 Split PREP DUP	0.80	0.105	0.077	< 0.01	4	5	822	0.22	< 20	6	< 2	< 10	54	< 10	8	7				
PEK19-06 Orig	0.53	0.097	0.027	< 0.01	< 2	2	74	0.03	< 20	3	< 2	< 10	25	< 10	2	3				
PEK19-06 Dup	0.53	0.096	0.027	< 0.01	< 2	2	71	0.03	< 20	2	< 2	< 10	25	< 10	2	2				
PEK19-17 Orig	1.25	0.103	0.087	< 0.01	< 2	7	189	0.23	< 20	2	< 2	< 10	88	< 10	8	6				
PEK19-17 Dup	1.29	0.107	0.088	< 0.01	< 2	7	191	0.24	< 20	2	< 2	< 10	87	< 10	8	5				
PEK19-20 Orig																				
PEK19-20 Dup																				
GK19-07 Orig																				
GK19-07 Dup																				
GK19-09 Orig	0.59	0.053	0.083	1.54	2	5	123	0.21	< 20	< 1	< 2	< 10	50	< 10	14	14				
GK19-09 Dup	0.58	0.055	0.082	1.56	4	5	117	0.20	< 20	6	< 2	< 10	50	< 10	14	15				
GK19-28 Orig	0.66	0.043	0.048	0.01	2	2	528	< 0.01	< 20	< 1	< 2	< 10	25	< 10	3	1				
GK19-28 Split PREP DUP	0.63	0.059	0.045	0.01	5	2	466	< 0.01	< 20	< 1	< 2	< 10	23	< 10	3	1				
GK19-31 Orig	0.02	0.067	0.009	0.01	< 2	< 1	6	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	2				
GK19-31 Dup	0.02	0.063	0.009	0.01	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	2				
DNK19-06 Orig																				
DNK19-06 Dup																				
DNK19-07 Orig																		1.91	2.49	
DNK19-07 Dup																		1.92	2.53	
DNK19-10 Orig	0.46	0.064	0.085	4.02	699	2	115	< 0.01	< 20	< 1	< 2	< 10	21	18	4	3				
DNK19-10 Dup	0.48	0.067	0.086	3.92	733	2	104	< 0.01	< 20	< 1	< 2	< 10	22	15	4	3				
GTKM19-23 Orig	0.27	0.062	0.093	0.08	5	5	204	0.17	< 20	3	< 2	< 10	54	< 10	56	4				
GTKM19-23 Dup	0.27	0.059	0.091	0.07	2	5	203	0.17	< 20	4	< 2	< 10	53	< 10	55	4				
GTKM19-33 Orig																				
GTKM19-33 Dup																				
GTKM19-38 Orig	0.09	0.033	0.096	0.40	7	4	59	< 0.01	< 20	2	< 2	< 10	31	< 10	7	3				
GTKM19-38 Dup	0.09	0.035	0.092	0.39	7	4	56	< 0.01	< 20	< 1	< 2	< 10	31	< 10	7	4				
GTKM19-43 Orig																				
GTKM19-43 Dup																				
SK19-04 Orig	0.05	0.029	0.033	1.76	12	6	195	< 0.01	< 20	< 1	< 2	< 10	23	< 10	17	4				
SK19-04 Split PREP DUP	0.05	0.029	0.035	1.70	11	7	192	< 0.01	< 20	< 1	2	< 10	27	< 10	16	3				
SK19-10 Orig																				
SK19-10 Dup																				
SK19-01A Orig	0.16	0.049	0.124	0.27	5	7	144	0.07	< 20	3	< 2	< 10	64	< 10	14	2				
SK19-01A Dup	0.16	0.050	0.126	0.26	5	7	145	0.08	< 20	4	< 2	< 10	66	< 10	14	2				
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1				
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1				
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1				
Method Blank																		< 3	< 0.003	< 0.001
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Appendix III

Sample Locations and Descriptions-A. Walus

Sample #	Coordinates (NAD 83)		Sample type	Description
	Easting	Northing		
A19-107	463672	6223009	float	Fist size angular boulder of limestone with limonite and manganese stain on surface.
A19-108	463672	6223009	float	Big angular slab 1.0x0.8x0.2 m in size of very strongly silicified rock with 2-3% pyrite.
A19-109	463672	6223009	float	Small boulder of silicified rock containing 1 cm wide quartz vein with 1% limonite pseudomorphs after pyrite.
A19-110	463640	6222980	float	Angular boulder 10 cm across of completely silicified rock cut by veins of white quartz, minor pyrite.
A19-111	463684	6223051	float	Fist size angular boulder of liminitic quartz with 1-2% pyrrhotite.
A19-112	463646	6222633	float	Fist size angular fragment of quartz vein 3-5 cm wide with <1% galena and sphalerite.
A19-113	463643	6222631	float	Boulder 40x30 cm in size of black matrix felsic breccia, minor pyrite in groundmass.
A19-114	463633	6222628	float	Angular float 10x8 cm in size of black siltstone, trace sphalerite, manganese stain on surface.
A19-115			float	Breccia composed of quartz fragments 0.5-1.0 cm across set in limonitic groundmass with minor pyrite.
A19-116	463593	6222604	float	Fist size boulder of strongly chloritized rock containing 0.5-1.0 cm wide quartz-pyrite vein.
A19-117	463562	6222580	float	Angular boulder 50x40 cm in size of black matrix felsic breccia with minor pyrite, sphalerite and galena.
A19-118			float	Angular boulder 20 cm across of black matrix felsic breccia with minor pyrite, sphalerite and galena.
A19-119	463533	6222544	float	Large angular boulder 1.3x1.0 m in size of sheared andesitic rocks. The sample was concentrated on 1.0 cm wide quartz vein with 1-2% pyrrhotite plus minor galena and chalcopryite.
A19-120	463447	6222499	float	Boulder 20x7 cm in size of quartz vein fragment with minor pyrrhotite and pyrite.
A19-121	463417	6222442	float	Angular boulder 20x15 cm in size of quartz cemented breccia with 1% pyrrhotite and minor chalcopyrite.
A19-122			float	Composite sample of 3 small pieces of strongly limonitic very vuggy quartz.
A19-123	463378	6222410	float	Semiangular boulder 20x10x10 cm in size composed of white quartz with 25-30% of combined coarse grained sphalerite and galena.
A19-124	463373	6222399	float	Angular boulder 20x15x7 cm in size of finally laminated siltstone/mudstone with 7-10% sphalerite which occurs mostly as 1-3 mm wide laminae.
A19-125	463151	6223397	float	Angular boulder 10x7 cm in size of completely quartz replaced rock with 1% pyrrhotite.
A19-126	463160	6223366	float	Angular fragment of 2 cm wide quartz-limonite vein, limonite content 20-25%.
A19-127	463149	6223354	float	Angular boulder 10 cm across of completely silicified rock with minor pyrrhotite and chalcopryite.
A19-128	463114	6223347	float	Fist size boulder of completely quartz-limonite replaced rock, limonite content 20-25%.
A19-129	463109	6223318	float	Small vein fragment composed of bluish-gray quartz and 15-20% pyrite.
A19-130	463106	6223322	float	Angular fragment of 6-7 cm wide quartz-carbonate vein with 7-10% arsenopyrite plus minor sphalerite and chalcopryite.
A19-131	463110	6223294	float	Composite sample of 2 small fragments composed of coarse quartz with 10-15% limonite, minor pyrite and some manganese stain.
A19-132			grab	Irrregular 1.0 cm wide vuggy quartz vein , abundant limonite.
Sample #	Coordinates (NAD 83)		Sample type	Description
	Easting	Northing		
A19-133			float	Small boulder of sheared and completely sericite altered rock with minor chalcopryite as streaks and disseminated grains.

A19-134	463248	6223385	float	Angular boulder 10 cm across of completely quartz-sericite altered rock with 1-2% chalcopyrite and <1% sphalerite.
A19-135	463254	6223379	float	Fist size boulder of vuggy quartz cemented breccia with 10-15% limonite.
A19-136	463220	6222394	float	Angular boulder 0.5x0.2 m in size of completely silicified rock with minor pyrite.
A19-137	463139	6222328	float	Angular boulder 10 cm across of black chert with 3-5% pyrite and some extremely fine grained gray sulphide.
A19-138	463044	6222374	float	Angular fist size boulder of laminated limestone/mudstone with minor sphalerite and unidentified bright green mineral.
A19-139	462994	6222327	float	Fist size boulder of very strongly altered rock cut by quartz stockwork with minor pyrite and sphalerite.
A19-140			float	Angular boulder 10 cm across of black chert with 2-3% pyrite, minor spalerite and trace of bright green mineral.
A19-141	462722	6222115	float	Boulder 20x10 cm in size of black matrix felsic breccia with minor galena.
A19-153	462011	6221482	float	Head size boulder of black matrix felsic breccia. Trace to minor pyrite and galena.
A19-154	461679	6221618	float	Boulder 10x10 cm of finally banded andesite/dacite tuff. Trace to minor pyrite.
A19-181	461091	6222947	float	Semiangular boulder 90x50x40 cm in size of andesite pyroclastics locally replaced with carbonate and epidote with 2-3% of combined pyrite, galena, sphalerite and chalcopyrite.
A19-182	461058	6222923	float	Angular boulder 20x10 cm in size of brecciated chert, abundant limonite and wad. Trace to minor pyrite and galena (?).
A19-183	461128	6222952	float	Boulder 10 cm across of quartz with 1-2% pyrite.
A19-184	461174	6222912	float	Composite sample comprised of several pieces derived from 20 cm thick fragment of limestone/mudstone layer with up to 1% pyrite and minor malachite stain.
A19-185	461173	6222916	float	Fragment of limestone layer 30 cm thick, distinct lamination. The sample contains trace to minor pyrite, chalcopyrite, sphalerite and galena.
A19-186	461173	6222916	float	Grab from large, semiangular boulder 1.2 m across composed mostly of black limestone/mudstone with trace to minor chalcopyrite, pyrite, sphalerite and galena.
A19-187	461173	6222916	float	Same boulder as A19-186. Grab from portion of the boulder composed of strongly limonitic foliated argillite with some malachite stain.

Appendix IV

Sample Locations and Descriptions-K. Mastalerz

Goat Property - 2019 Sample Locations/Descriptions KM

Sample Label	UTM Coordinates		Sample Type	Description
	Easting	Northing		
GTK19-01	464,289	6,223,098	Fl	Greenish-grey, polymictic volcanic brecci to lapilli tuff with grey siliceous matrix; Py 0.5-1%, brownish wisps of Sph
GTK19-02	464,309	6,223,100	Fl	Dark greenish-grey, aphanitic andesite/dacite, strongly siliceous, carbonate-chlorite alt'nstrong manganese stain; diss. And fine crystalline Py 2-3%
GTK19-03	464,309	6,223,100	Fl	Medium grey, strongly siliceous lapilli tuff; fracture controlle Py 3-5%, tr. Sph
GTK19-04	464,314	6,223,097	Fl	Medium grey, strongly siliceous, coarse-graine dacite(?) tuff with irregular pods of crystalline Py 3-5%, tr. Sph
GTK19-05	464,332	6,223,087	Fl	Grey to maroon, variegated, volcanic flow to flow breccia with reddish-brown jasperoid pods, calcareous to slightly siliceous, manganese stain; diss. Magnetite(?), Py 0.5-1%
GTK19-06	463,777	6,222,664	Fl	Brownish-grey, calcareous to slightly siliceous, chert?/exhalite breccia, very strong manganese stain; Py tr-1%, Sph wispy/laminae tr.-0.5%, tr. Ga
GTK19-07	463,777	6,222,664	Fl	Same brownish-grey chert/exhalite breccia with semi-spheroidal pods strongly enriched in Py 12-25%, tr. Ga
GTK19-08	463,777	6,222,664	Fl	Medium grey andesite/dacite(?) coarse tuff/lapilli tuff with irregular pod-like concentrations of Py and fracture controlled Py (3-5% in total)
GTK19-09	463,749	6,222,607	Fl	Large subangular boulder of dark grey-to-maroon, banded waterlain(?) tuff (siliceous-porcellanite), partly probably distant exhalite/chert mixed with extremely fine tuff; magnetite/specularite hematite, tr. Sph
GTK19-10	463,749	6,222,607	Fl	Large boulder, subrounded, of grey-to-reddish jasperoid-rich, banded rock (volcanic), strongly magnetic, partly calcareous, with a layer of maroon-brownish waterlain banded tuff; tr. Sph
GTK19-11	463,749	6,222,607	Fl	Subrounded boulder of strongly siliceous lapilli tuff to volcanic breccia, moderately weathered, limonitic; very fine diss. Py 0.5-1% in matrix
GTK19-12	463,749	6,222,607	Fl	Subangular boulder of very fine-grained breccia (tectonic?) of coarse tuff, numerous felsic fragments; common Py infills of altered fragments; Py 2-3%

GTK19-13	463,777	6,222,591	Fl	Large-size boulder of yellowish, crudely banded siliceous rock (chert/exhalite?), displays incipient ripple-cross wavy lamination; Diss. Py
GTK19-14	463,777	6,222,591	Fl	Dark grey to black, moderately siliceous, laminated shale/mudstone with numerous silty lenses (Bowser Lake Group?); Py 1-2%
GTK19-15	463,777	6,222,591	Fl	Medium-to-dark grey, laminated (parallel to convoluted) chert or exhalite with bubble-like ("hot-spring" type) texture; very fine diss. Py 0.5-1%, tr.-0.5% diss.Ga
GTK19-16	463,787	6,222,570	Fl	Yellowish-grey, strongly siliceous rock - felsic volcanic or homogenous chert with numerous irregular semi-massive concentrations of Py, pod-like; Py from 0.5-2% to 10-30%
GTK19-17	463,787	6,222,570	Fl	Light greenish-grey andesite/dacite tuff, slightly fractured and sheared, strong cleavage locally with subparallel quartz veinlets (barren?); diss. Fracture controlled Py 1-3%
GTK19-18	463,744	6,222,519	Fl	Black-matrix breccia, medium-grained to volcanic breccia of predominantly felsic(?) fragments diss. Py 1-3%, tr.-1% Ga, tr. Sph
GTK19-19	463,770	6,222,541	Fl	Quartz vein - 3 cm wide in slickensided/sheared volcanoclastic andesite, greenish-grey; Py tr.-2%, Sph 2-3%, Ga tr.-1%
GTK19-20	463,774	6,222,549	Fl	Dark greenish volcanoclastics with strong carbonate-barite(?) - quartz alteration, some jasperoid lenses/laminae, crudely banded, manganese stain; coarse crystalline Py 1-3%, very fine Cpy 2-3%, Mal tr.-1%
GTK19-21	463,703	6,222,525	Fl	Large boulder of Py enriched, yellowish-grey, felsic(?), fine crystalline volcanic rock (dacite?); Py 1-3%, tr. Ga, probably also marcasite?
GTK19-22	463,703	6,222,525	Fl	Large boulder of mixed-composition lapilli tuff with admixed mafic hyaloclasts, abundant fine-grained matrix, weak epidote alt'n; diss./stringers Py 0.5-1.5%
GTK19-23	463,661	6,222,493	Fl	Boulder of medium grey tuff/lapilli tuff, felsic-to-mixed composition, moderately-to-strongly silicified; pods and stringers of Py 3-5%
GTK19-24	463,640	6,222,488	Fl	Intensely reddish, thin-to-medium thick laminated jasperoid at the contact with dark greenish-grey, carbonate altered andesite; tr. Magnetite/Hematite?
GTK19-25	463,564	6,222,449	Fl	Large boulders of dark-grey to black, carbonaceous mudstone with sideritic(?) nodules to black matrix-rich breccia with felsic(?) fragments; fine, diss. Py 1-2%

GTK19-26	463,540	6,222,528	Fl	Large boulder of mixed composition (polymict) volcanic breccia, silicified, strong manganese stain; diss. Py 1-2%, tr. Ga in dark-grey fragments, tr. Sph?
GNK19-01	462,924	6,223,499	Fl	Subangular float material of pale greenish-grey, fragmental volcanic (lapilli tuff/breccia?) rock; indistingct wide stringers of Py-Sph-minor Ga 0.5-2%
GNK19-02A	462,919	6,223,482	Fl	Subangular boulder of dark grey, laminated (wavy) exhalite-to-mudstone (laminated package is about 8 cm thick); distinct thin laminae of Py-Sph 1-3%
GNK19-02B	462,919	6,223,482	Fl	Pale greenish andesite hyaloclastite tuff/lapilli tuff with few fragments of laminated exhalite/mudstone, manganese stain; tr. Py-Sph
GNK19-03	462,887	6,223,470	Fl	Boulder of yellowish-rusty tuff, mixed composition, strongly fractured, some carbonate alt'n; diss. Crystalline Py tr.-1%, tr. Ga (or magnetite?) and Sph along fractures
GNK19-04	462,866	6,223,460	Fl	Pale greenish-grey, strongly siliceous/quartz-rich, volcanogenic rock - tuff(?) with relics of diffuse banding; diss. Py tr.-1%, tr. Ga? Or manganese oxides?
GNK19-05	462,851	6,223,457	Fl	Boulder of light grey, slightly rusty, cherty/chalcedony felsic(?) tuff to fine grained breccia; diss./crystalline Py 2-5%
GNK19-06	462,837	6,223,453	Fl	Angular boulder of rhyolite/dacite(?) felsic breccia, relatively fine grained, moderately silicified; diss. Py 0.5-3%, Sph 1%, also some Py and Sph in stringers in matrix
GNK19-07	462,832	6,223,452	Fl	Subangular small-size float material of dark-grey to black chert/exhalite, incipient brecciation, relics of diffuse lamination; diss. Py tr.-0.5%, tr. Sph, tr. Cpy, tr. some sulphosalts(?)
GNK19-08	462,832	6,223,452	Fl	Angular boulder of dirty-green-to-grey, mixed composition (polymict) volcanogenic conglomerate/breccia at the contact with thinly laminated andesite(?) tuff; fine diss. Py tr.-1%, tr. Sph (exhalative?)
GNK19-09	462,832	6,223,458	Fl	Light grey-to-almost black, rusty felsic(?) breccia; diss. Py tr.-1%, few specs of Sph, tr. Ga? In fragments
GNK19-10	462,821	6,223,477	Fl	Subrounded, very large boulder of coarse-grained, incipient crackle breccia of dacite(?); fractures filled with a mixture of Sph and minor Py, Ga and Cpy? (total sulphides 1-5%)

GNK19-11	462,847	6,223,491	Fl	Numerous angular fragments of reddish jasperoid breccia with abundant Py 1-4% and fracture filled specularite-hematite
GNK19-12A	462,817	6,223,458	Fl	Medium-size subrounded boulder of dark-grey to black, heavily mineralized massive mudstone to locally diffusely banded exhalite, fractured; locally abundant Py (diss + fracture filling + encrustations) 3-10%, abundant fine grained Ga + Sulphosalts(?) 2-7%, fine Sph
GNK19-12B	462,817	6,223,458	Fl	large boulder of dark grey, distinctly silicified mudstone, massive, homogenous; abundant finely diss. Py
GNK19-13	462,807	6,223,457	Fl	Subangular boulder of medium green andesite(?) tuff, "crackled" slightly on one side; fractures filled with Sph tr.-1%, Py 1% and tr. Ga and Cpy(?)
GNK19-14	462,800	6,223,449	Fl	Composite sample of greenish-grey trachite-to-hyaloclastite lapilli tuff, and "vent-type" breccia (in situ, mosaic texture), calcareous, manganese stain; Sph 2-3%, Py 1-2%, Ga tr.-0.5%
GTKM19-01	463,757	6,222,707	Fl	Medium-size, subangular boulder of dark grey to black, massive argillite/mudstone with abundant, finely diss. Py, moderately fractured; Sph 0.5-1% in fractures, tr.-0.5% Ga
GTKM19-02	463,717	6,222,684	Fl	Medium-size, subangular boulder of black-matrix breccia, dacitic(?), moderately siliceous, manganese stain; cryst. Py 1-3%, tr. Ga, Sph, Cpy?
GTKM19-03	463,717	6,222,684	Fl	Medium-size, subrounded boulder of dark greenish andesite, incipient brecciation, carbonate alteration/replacement, heavy manganese stain; Py 1-3%, tr. Sph and Ga?
GTKM19-04	463,676	6,222,660	Fl	Medium grey, strongly siliceous breccia of crudely laminated chert; very fine diss. Py 1-5%, tr. Ga? Or hematite
GTKM19-05	463,676	6,222,660	Fl	Boulders of brownish, carbonate altered, andesite and andesite lapilli tuff, manganese stain; coarse crystalline Py 3-4%, Sph 1% and Ga tr. 0-.5% mostly in fracture filling and pods
GTKM19-06	463,676	6,222,660	Fl	Small, subangular boulder of pale yellowish, slightly rusty, druzy quartz (vein), coarse crystalline; Py 1%, Sph 0.5%, tr. sulphosalts?
GTKM19-07	463,676	6,222,660	Fl	Medium size, subangular boulder of epiclastic lapilli tuff/coarse tuff, mixed composition, weak brecciation and carbonate-minor barite fillings/replacements, weak chlorite alt'n; tr. Py and Sph?, hematite?
GTKM19-08	463,631	6,222,624	Fl	Black-matrix breccia of dacite(?), abundant dark-grey matrix, siliceous, rusty; Py in fractures/stringers 1-4%, Ga tr.-0.5%

GTKM19-09	463,547	6,222,574	Fl	Large subrounded boulder of greenish-light brown andesite tuff/lapilli tuff, incipient brecciation (crackle type), silicified; mineralization in fracture filling and disseminated: Py 1%, Sph tr.-1%, Ga tr.-0.5%
GTKM19-10	463,505	6,222,524	Fl	Small-size angular boulder of black-matrix breccia, strongly silicified; Py 1-3%, Ga in fractures and diss. 0.5-1%
GTKM19-11	463,478	6,222,523	Fl	Small-size subangular boulder of dark green, polymictic volcanic conglomerate, moderately silicified, weak carbonate alt'n/replacement; blebs and diss. Cpy 0.5-2%
GTKM19-12	463,444	6,222,464	Fl	Large boulder of greenish-brown andesite with pods of carbonate-minor quartz-barite replacement ("footwall-type alteration"); Py 0.5-1%, Sph tr.-1%
GTKM19-13	463,424	6,222,460	Fl	Small-size float fragment of Quartz vein, white, coarse-crystalline; Apy, Po, tr. Sph, tr. Ga
GTKM19-14	463,007	6,222,341	Fl	Medium-size, subangular boulder of medium-grey lapilli tuff, moderate clay-carbonate alteration; abundant diss. Py 0.5-1%, minor Ga + Sph 0.5-2%
GTKM19-15	462,997	6,222,341	Fl	Small-size, angular boulder of fine-grained volcanic breccia with abundant Py cementation (10-15%); minor Marcasite, Ga + Sph?
GTKM19-16	462,978	6,222,342	Fl	Medium-size boulder of dark-grey felsic breccia (black-matrix breccia), fine to coarse grained; abundant diss. Py 4-7% in matrix, Ga tr.-0.5%, Sph
GTKM19-21	462,978	6,222,342	Fl	Black to greenish-grey, parallel laminated/banded water-lain? Tuff or argillaceous tuff to cherty exhalite, calcareous; diss. Py 1%, tr.-0.5% Sph
GTKM19-22	462,978	6,222,342	Fl	Black mudstone breccia, chaotic, interbedded with laminated andesite tuff, calcareous, manganese stain; diss. Py 0.5-1%, tr. Sph
GTKM19-23	462,969	6,222,431	Fl	Large boulders of coarse breccia ("crackle-type") of andesite tuff, brownish, strong carbonate replacement and calcite veins, manganese stain; tr.-1% diss. Py., tr. Sph?
GTKM19-24	462,968	6,222,416	Fl	Black-matrix breccia, matrix-poor variety, angular felsic (dacite?) fragments, slightly siliceous; 1-2% diss. Py, tr. Sph and Ga?
GTKM19-25	462,968	6,222,416	Fl	Large boulder of black, massive chert and calcareous mudstone breccia, very strong manganese stain, probably hydrozinckite; tr. Sph?, hematite?

GTKM19-26	463,070	6,222,408	Fl	Small-size boulders of black-matrix cherty/mudstone breccia to brownish jasperoid breccia; diss. Py and tr. Sph
GTKM19-27	463,079	6,222,457	Fl	Subangular boulder of black-to-dark grey porcellinite/mudstone, weakly brecciated; diss. Py 0.5-1%, tr. Sph
GTKM19-28	463,079	6,222,457	Fl	Medium-size boulder of greenish to brown, banded porcellinite, strongly silicified? Argillaceous tuff; diss. Py 0.5-1%, tr. Sph
GTKM19-29A	463,373	6,222,626	Gb	Greenish-brown, spotty, strongly epidote altered meta-volcanic breccia? (andesitic tuff?) with pods of brownish garnets and bands of whitish quartz-calcite pods/discontinuous veins; coarse cryst. Py tr.-2%, tr. Cpy, Molybdenite tr.-2%
GTKM19-29B	463,460	6,222,691	Sc	Same rock as GTKM19-29A near granodiorite dyke - granodiorite included in the sample
GTKM19-30	462,827	6,222,280	Fl	medium-size boulder of matrix-rich black-matrix breccia, strongly siliceous, dacite? Fragments; fine diss. Py 0.5-1%, Ga 0.5%, tr. Sph
GTKM19-31	462,827	6,222,280	Fl	Large subrounded boulder of incipient breccia of medium-grey felsic (Dacite?) volcanic rock, siliceous; diss. Py 0.5-1.5%, Ga tr.- 0.5%, tr. Cpy
GTKM19-32	462,827	6,222,280	Fl	Dark green-to-greyish-brown, thinly laminated/banded, waterlain (?) tuff and probably some laminae of exhalite, manganese stain; Sph thinly banded laminae, tr. Diss Ga
GTKM19-33	463,017	6,222,243	Fl	Medium-size, sub-angular boulder of pyrite-rich "vent"-type breccia of crudely banded chert-tuffaceous-exhalite fragments; collophan encrustations of Py 20-25%, tr. Ga?
GTKM19-34	462,927	6,222,164	Fl	Larger boulder of banded/laminated fine waterlain tuff-exhalite (downslope talus scree and/or lateral moraine), strong manganese stain; Py 0.5-1%, Ga tr., Sph 0.5-1%
GTKM19-35	462,744	6,222,092	Fl	Large subangular boulder of black siliceous mudstone/chert breccia; blebs of Py 1%, blebs of Sph, Ga tr.-0.5%
GTKM19-36	462,649	6,222,084	Fl	Medium-size boulders of black mudstone breccia; Marcasite/Py 1-2%, Ga tr.-0.5%, tr. Sph
GTKM19-37	462,603	6,222,087	Fl	Numerous boulders of black, moderately siliceous calcareous mudstone (-minor chert?) breccia; Py/Marcasite 0.5-2%
GTKM19-38	462,517	6,222,037	Fl	Numerous boulders of matrix-rich black matrix breccia of dacite-andesite? Fragments; Py tr.-1%, tiny wisps of Sph?

NEW
SHOWING

GTKM19-39	462,441	6,221,990	Fl	Numerous large boulders of black-matrix breccia, variable share of matrix, locally calcareous?; Py 0.5-2%, Ga tr.-0.5%
GTKM19-40	462,357	6,221,907	Fl	Numerous boulders of coarse-grained black-matrix breccia to pillow-breccia, numerous fragments are carbonate-chlorite altered, slightly silicified, strong manganese stain; Py tr.0-1%, Ga tr.-0.5%
GTKM19-41	462,357	6,221,907	Fl	Boulders of greenish-grey andesite-intermediate volcanic, commonly pillow-lava type to pillow-lava breccia(?); Py 0.5-1%, tr. Ga, hydrozinckite?
GTKM19-42	462,274	6,221,811	Fl	Large boulders of coarse -graine black-matrix breccia to pillow breccia with some dark-grey hyaloclasts; Py 0.5-1%, tr. Ga, tr. Sph
GTKM19-43	462,220	6,221,793	Fl	Matrix-supported black-matrix breccia, medium-size and large fragments; Py tr.-1%, Ga and Sph tr.
GTKM19-44	462,170	6,221,793	Fl	medium-size subangular boulders of felsic (Dacite?) volcanics and lapilli tuff (andesite?); tr. Py, Ga, Sph
SK19-01A	460,813	6,222,914	Fl	Medium-size subangular boulder of greenish-grey andesite incipient breccia, slightly fractured, layered(?) andesite, thin (secondary?) calcite-quartz bands, carbonate-chlorite alt'n; tr. Py, tr. Sph
SK19-01B	460,813	6,222,914	Fl	Large boulder of crudely layered felsic(?) breccia, yellowish-grey, slightly siliceous; tr. Coarse-crystalline Py 0.5-2%
SK19-02A	460,601	6,222,947	Fl	Small-size boulder of medium-grey fracture breccia of originally crudely banded felsic(?) volcanic; Py 0.5-1%, tr. Sph
SK19-02B	460,601	6,222,947	Fl	Dark-grey breccia of volcanic and black mudstone (calcareous) fragments, slightly silicified; Py tr.-1%, tr. Sph
SK19-03A	460,474	6,222,949	Fl	Brownish-grey, thinly laminated chert-exhalite, locally slightly convoluted laminations, strong manganese stain (+ hydrozinckite?); specularite Hematite, tr. Py, Ga tr.-0.5%, Sph tr.
SK19-03B	460,474	6,222,949	Fl	Blackish-brown, crudely banded tuff (porcellinitic, strongly siliceous), waterlain?; tr. Py, tr. Sph
SK19-04	460,734	6,222,767	Fl	Medium-size boulder of andesite/basalt with strong carbonate-barite(?)-hematite replacement ("footwall alt'n"), slightly fractured to incipiently brecciated, manganese stain; Py 3-7%, tr. Sph, tr. Cpy?
SK19-05	460,814	6,222,804	Fl	Few boulders of maroon breccia of tuffaceous mudstone, crudely banded/laminated, with some wisps of reddish jasperoid; Py 1-2%

SK19-06	461,487	6,222,893	Fl	Dark-grey to almost black, banded chert, cherty exhalite, limonitic; Py 0.5-1%, tr. Ga, tr. Sph
SK19-07	461,522	6,222,905	Fl	Subangular float of black siliceous mudstone to incipient mudstone breccia, sometimes limonitic; tr. Py, tr. Spotty Ga, tr. Sph (in fractures)
SK19-08	461,579	6,222,922	Fl	Small-size boulder of yellowish to dirty-green felsic(?) volcanic (dacite?), distinctly siliceous; Py tr.-1%
SK19-09	461,579	6,222,922	Fl	Black tuffaceous mudstone, homogenous, calcareous, manganese stain; very fine diss. Py
SK19-10	461,173	6,222,917	Fl	Large-size boulders of massive, cherty mudstone with scattered Py, Ga, Sph and Cpy, thin lenses/bands of thinly laminated exhalite with very thin laminae of Sph; Sph > 1%
SK19-11	461,077	6,222,904	Fl	Large boulder of crudely banded cherty " exhalite" with rare, thin laminae of exhalative Sph and calcareous-to-cherty mudstone
SK19-12	461,164	6,222,937	Fl	Subangular boulder of greenish-grey andesite, strong carbonate replacement/alt'n, irregular pod of quartz+sulphide+jasperoid enrichment; Py 2-3%, tr. Sph, Cpy

Abbreviations: Py - pyrite, Ga - galena, Sph - sphalerite, Cpy - chalcopyrite, Apy - arsenopyrite; diss. - disseminated, tr. - trace, alt'n - alteration

Sample types: Gb - grab, Fl - float, SC- subcrop

Appendix V

Sample Locations and Descriptions-E. Kruchkowski

Goat Property - 2019 Sample Locations/Descriptions EK

Sample Label	UTM Coordinates		Sample Type	Description
	Easting	Northing		
E-1	464,254	6,224,127	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py.
E-2	464,254	6,224,127	Fl	Same as above, 2 m from 1st sample. Abundant manganese stained float in moraine.
H-1	464,218	6,224,091	Fl	rusty black argillite with 5-6 % py.
H-2	464,218	6,224,091	Fl	rusty black argillite with 5-6 % py.
H-3	464,218	6,224,091	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py. Samples taken in 10 m radius
H-4	464,218	6,224,091	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py. Samples taken in 10 m radius
H-5	464,218	6,224,091	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py. Samples taken in 10 m radius
H-6	464,218	6,224,091	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py. Samples taken in 10 m radius
H-7	464,218	6,224,091	Fl	Dacite breccia, strong manganese stain, traces galena and sphalerite. 1-2 % py. Samples taken in 10 m radius
H-8	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-9	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-10	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-11	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-12	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.

H-13	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-14	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.
H-15	462,109	6,223,491	Fl	Rusty dacitic tuffs with strong manganese stain, traces py,Ga, Sph. Large amount of rusty moraine boulders at edge of ice.

Abbreviations: Py - pyrite, Ga - galena, Sph - sphalerite, Cpy - chalcopyrite, Apy - arsenopyrite; diss. - disseminated, tr. - trace, alt'n - alteration

Sample types: Gb - grab, Fl - float, SC- subcrop

Appendix VI
Petrographic Report on Goat Property

Petrographic report for:
Decade Resources.
611 8-th Street
P.O. Box 211
Stewart, BC

December 20, 2019

Report prepared by:
A. Walus
8577 165 Street
Surrey, BC

PETROGRAPHIC REPORT ON GOAT PROPERTY

SUMMARY

Seven polished and one thin section were prepared from mineralized float samples collected from glacial moraine on Goat Property. All samples except sample GNK-12A we collected from glacial valley (in this report refer to as Goat Valley) which hosts historic Goat Mine (Minfile No. 104A-002), sample GNK-12A was collected from the next valley to the north. Sample GTKM19-29 most likely derives from the nearby rocks. The remaining seven samples represent rocks brought by glacier from upper, difficult to access parts of the Goat Valley. All samples we stained with sodium cobaltinitrite for easy K-feldspar identification.

Samples A19-124, A19-185 and A19-186 represent cherty limestone mineralized with sphalerite, galena, pyrite and chalcopyrite. Sulphides are syngenetic, formed during deposition process along with carbonate and chert. Sample A19-141 was identified as quartz cemented trachyte breccia carrying minor amounts of sphalerite, galena and chalcopyrite. Numerous boulders of this rock often described in the field as black matrix felsic breccia can be seen in the Goat Valley. In a few places within the glacial moraine it is the dominant rock type for several tens of metres. Sample GNK-12A is from silicified trachyte or trachyte tuff mineralized with pyrite, sphalerite and galena. The sample displays distinct colloform texture which is characteristic of VMS environment. The sample assayed 541 g/t Ag but no silver minerals were identified under the microscope. Sample GTKM-36 is a silicified volcanic flow mineralized with pyrrhotite, pyrite and galena. Sample GTKM19-29 is a skarn almost completely replaced by carbonate and quartz with minor amounts of pyrite, chalcopyrite and sphalerite. Sample GTKM19-34 (thin section) is a finely laminated limestone/chert.

“A. Walus”

Alojzy A. Walus, P.Geo.

SAMPLES DESCRIPTIONS

Sample A19-124 Mineralized cherty limestone

Mineral composition:

Calcite	80-85%	Sphalerite	7-10%
Quartz	5-10%	Pyrite	1-2%
Opaque	1-2%	Chalcopyrite	0.2-0.3%
		Galena	0.1-0.2%

The primary rock is represented by irregular patches composed of fine-grained calcite and quartz grains ranging in size from 0.01 to 0.03 mm. They comprise 20-25% of the sample. The primary rock is in most part replaced by calcite with lesser quartz and sulphides which form irregular patches and veins. Calcite forms anhedral grains ranging in size from 0.05 to 2.0 mm across. Quartz forms anhedral grains 0.03 to 0.20 mm in size. Sulphides occur as anhedral grains and patches ranging in size from 0.01 to 0.5 mm.

Sample A19-141 Quartz cemented trachyte breccia

Mineral composition:

K-feldspar (primary)	60-65%	Sphalerite	0.2-0.3%
Quartz	35-40%	Galena	0.1-0.2%
Sericite	2-3%	Pyrite	0.1-0.2%
Carbonate	1-2%	Chalcopyrite	<0.1%
Chlorite	<0.5%		

The rock is composed of trachyte fragments 2 to 8 mm in size cemented by very fine-grained quartz. Trachyte fragments are comprised of subhedral to euhedral K-feldspar phenocrysts 0.2 to 1.0 mm in size set in a groundmass of K-feldspar grains 0.05 to 0.2 mm in size. K-feldspar phenocrysts and to lesser extent K-feldspar groundmass are partly replaced by sericite and carbonates. The bulk of quartz forms mosaic of anhedral, very fine grains 0.005 to 0.015 mm across which cement trachyte fragments. Part of quartz occurs as much larger grains up to 0.4 mm across forming patches, one 0.4 mm wide quartz-chlorite vein, and replacements of K-feldspar phenocrysts. Sulphides occur as grains and patches scattered throughout the rock ranging in size from 0.005 to 0.4 mm.

Sample A19-185 Mineralized cherty limestone

Mineral composition:

Calcite	80-85%	Sphalerite	2-3%
Quartz	15-20%	Pyrite	0.5-1.0%
Opaque	1-2%	Galena	A few grains

The rock is dominated by mosaic of very fine-grained calcite grains 0.01 to 0.02 mm across which along with quartz represent the primary rock. Small part of calcite occurs as larger grains up to 0.4 mm across which form veins and patches. Quartz occurs as anhedral grains 0.01 to 0.05 mm in size forming irregular patches and strongly deformed layers. Opaque forms thin strongly deformed layers and small irregular, diffused patches. Sulphides form small anhedral grains and patches up to 0.35 mm across scattered throughout the rock. They are associated both with calcite and quartz.

Sample A19-186 Mineralized cherty limestone

Mineral composition:

Calcite	70-75%	Pyrite	0.5-1.0%
Quartz	20-25%	Sphalerite	0.5-1.0%
Opaque	0.5-1.0%	Galena	0.1%-0.2%
		Chalcopyrite	0.1%-0.2%

The rock is dominated by very fine-grained mosaic of calcite grains 0.01 to 0.03 mm across which along with quartz represent the primary rock. Small part of calcite forms larger anhedral grains up to 0.5 mm across. Quartz occurs as anhedral grains 0.01 to 0.2 mm in size forming irregular scattered patches. Sulphides forms anhedral grains and irregular patches 0.01 to 0.2 mm in size scattered throughout the rock. They are associated with calcite as well as quartz.

Sample GNK-12A Silicified trachyte or trachyte tuff, weak biotite hornfels.

Mineral composition:

K-feldspar (primary)	2-3%	Opaque	2-3%
Quartz	65-70%	Pyrite	30-35%
Sericite	3-5%	Sphalerite	1-2%
Biotite	2-3%	Galena	<0.1%

The primary rock is represented by remnants of trachyte (or trachyte tuff) which occur as small patches as well as separate K-feldspar grains. The size of K-feldspar grains ranges from 0.02 to 0.2 mm. The primary rock is almost completely replaced by quartz, sericite and sulphides. Quartz and sericite form mosaic of anhedral very fine grains ranging in size from 0.005 to 0.02 mm. The bulk of pyrite forms colloform texture. The remainder of pyrite along with sphalerite and galena form anhedral grains and patches scattered throughout the sample. They range in size from 0,005 to 0.3 mm. Biotite forms small diffuse patches formed during formation of weak hornfels which was the last event which affected the rock.

Sample GTKM-36 Silicified lava flow

Mineral composition:

Quartz	85-90%	Pyrrhotite	0.3-0.5%
Sericite/muscovite	2-3%	Pyrite	0.1-0.2%
Opaque	10-15%	Galena	0.1-0.2%

The primary rock was completely replaced by secondary quartz, opaque minerals, sericite /muscovite and sulphides so the primary rock could not be determined. However, the characteristic vesicular texture of lava flow is still clearly visible. Opaque forms grains and patches ranging in size from 0.02 to 0.8 mm. Sulphides occur as anhedral grains and patches 0.005 to 0.07 mm in size scattered throughout the rock.

Sample GTKM19-29 Altered and mineralized skarn

Mineral composition:

Calcite	40-45%	Pyrite	3-5%
Quartz	30-35%	Chalcopyrite	1-2%
Chlorite	10-15%	Sphalerite	a few grains
Sericite	2-3%		
Garnet	<0.5%		

The primary skarn is represented by several remnant garnet grains 0.1-0.25 mm in size. They show weak anomalous birefringence. The skarn is almost completely replaced by later mineral assemblage comprised of calcite, quartz, chlorite and sulphides. Calcite and quartz occur as anhedral grains ranging broadly in size from 0.02 to 10 mm. Chlorite occurs as mosaic of equant grains 0.03 to 0.1 mm across forming irregular patches and veins. Sericite is concentrated in one patch 0.5 cm across. Sulphides form anhedral grains and irregular patches scattered throughout the rock. They range in size from 0.01 to 2.0 mm.

Sample GTKM19-34(thin section) Limestone/chert

Mineral composition

Calcite	45-50%
Quartz	45-50
Opaque	50-10%

The rock is comprised of alternating layers of limestone and chert 2 to 5 mm wide. Limestone layers consists of very small equant calcite grains 0.005 to 0.02 mm across. Chert layers are composed of anhedral grains 0.005 to 0.1 mm in size. Opaque mineral form streaks, thin layers and disseminated grains which are associated both with limestone and chert layers.

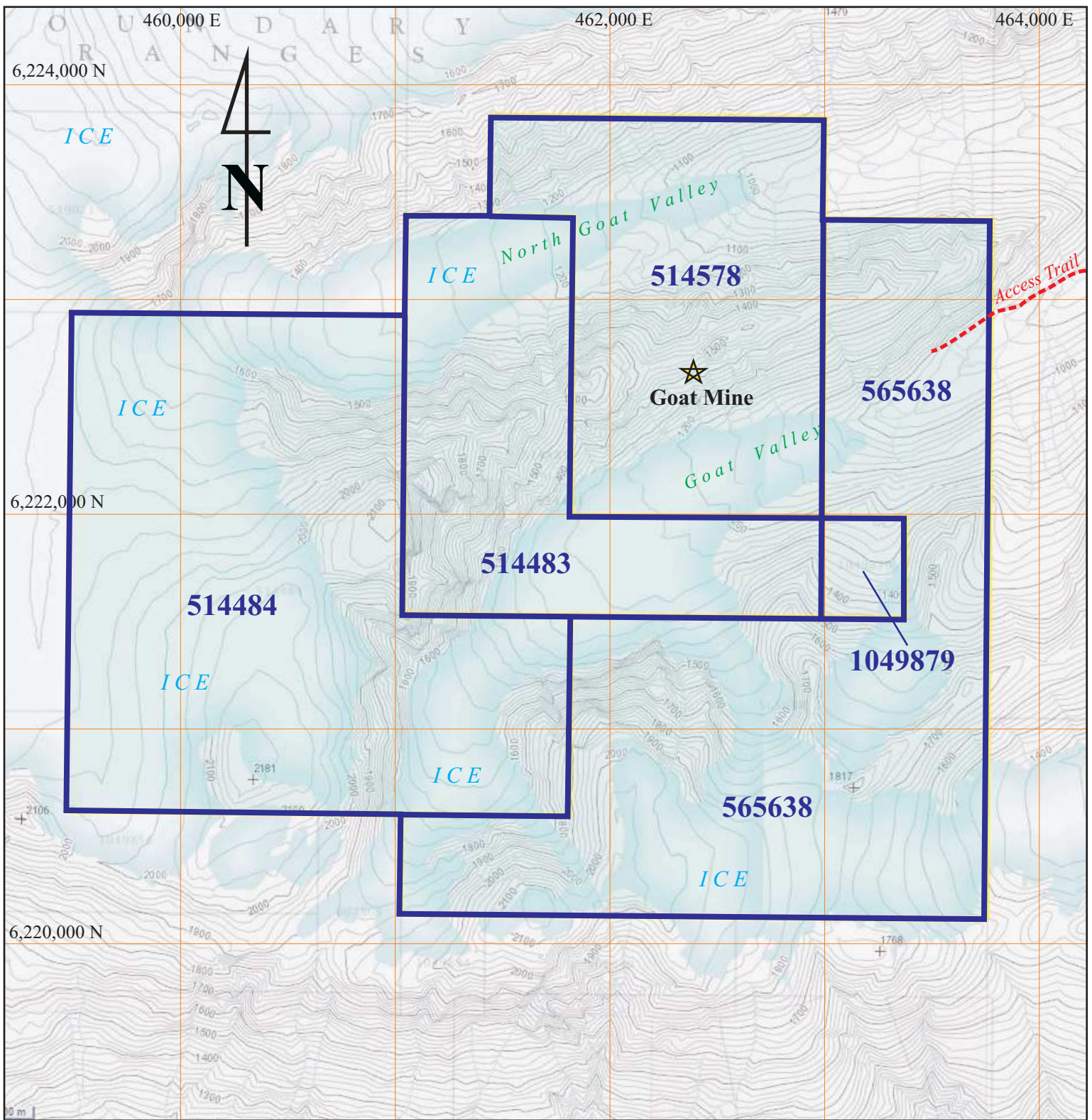


To accompany report by E. Kruchkowski

100 km



DECADE RESOURCES LTD.	
GOAT PROPERTY SKEENA MINING DIVISION	
LOCATION MAP	
Date: January 2020	Figure 1 Scale as shown



1 km

565638

- Goat property claim boundary and label

To accompany report by E. Kruchkowski

DECADE RESOURCES LTD.

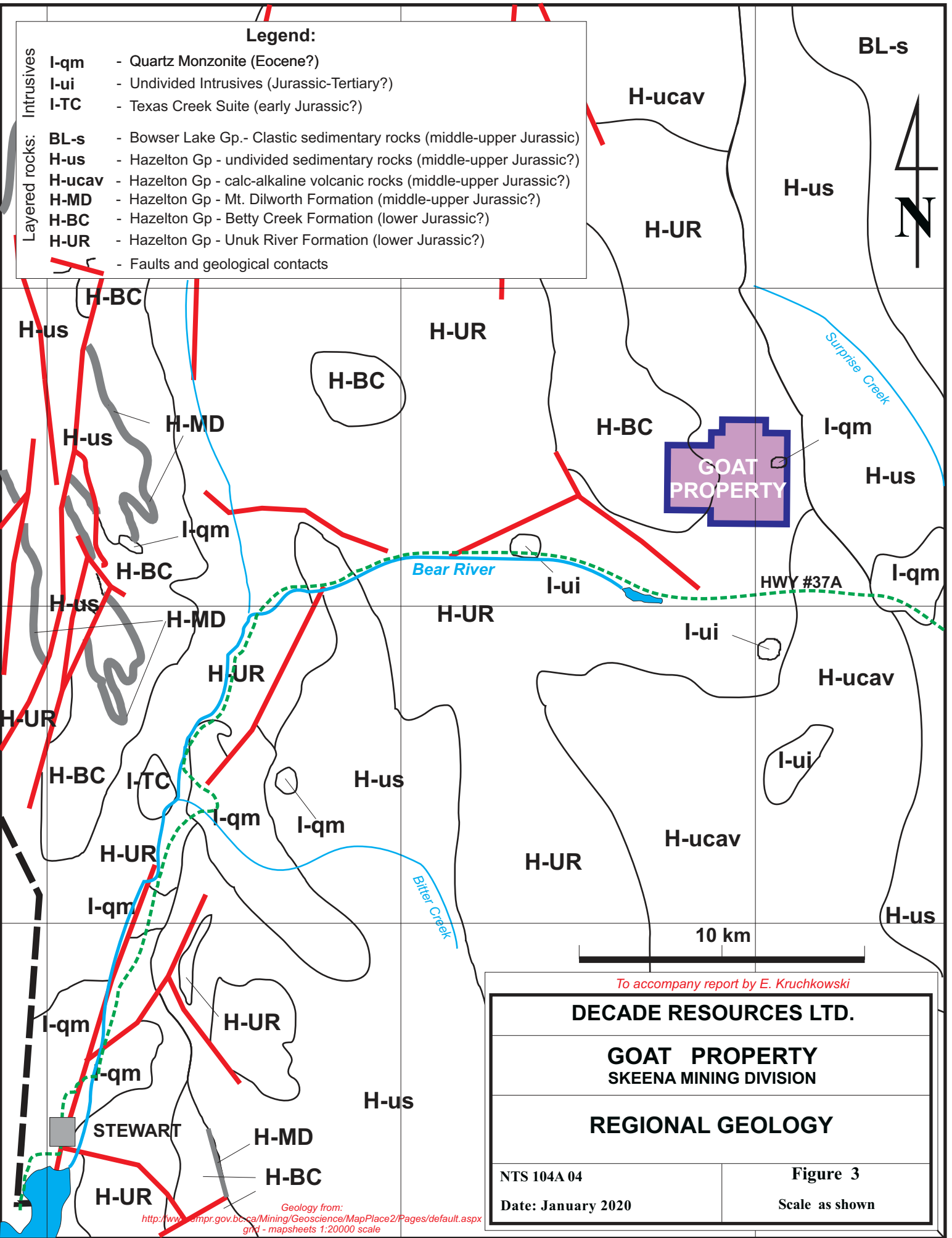
**GOAT PROPERTY
SKEENA MINING DIVISION**

CLAIM MAP

Date: January 2020

**Figure 2
Scale 1 : 25,000**

Topography details and claim contours from MTO at:
https://www.mtonline.gov.bc.ca/mto/mto/cwm.jsp?site=mem_mto_min-view-title
 (Modern extent of ice field/glaciers may differ from the limits depicted on the map)



Legend:

Intrusives

- I-qm - Quartz Monzonite (Eocene?)
- I-ui - Undivided Intrusives (Jurassic-Tertiary?)
- I-TC - Texas Creek Suite (early Jurassic?)

Layered rocks:

- BL-s - Bowser Lake Gp. - Clastic sedimentary rocks (middle-upper Jurassic)
- H-us - Hazelton Gp - undivided sedimentary rocks (middle-upper Jurassic?)
- H-ucav - Hazelton Gp - calc-alkaline volcanic rocks (middle-upper Jurassic?)
- H-MD - Hazelton Gp - Mt. Dilworth Formation (middle-upper Jurassic?)
- H-BC - Hazelton Gp - Betty Creek Formation (lower Jurassic?)
- H-UR - Hazelton Gp - Unuk River Formation (lower Jurassic?)

- Faults and geological contacts

GOAT PROPERTY

To accompany report by E. Kruckowski

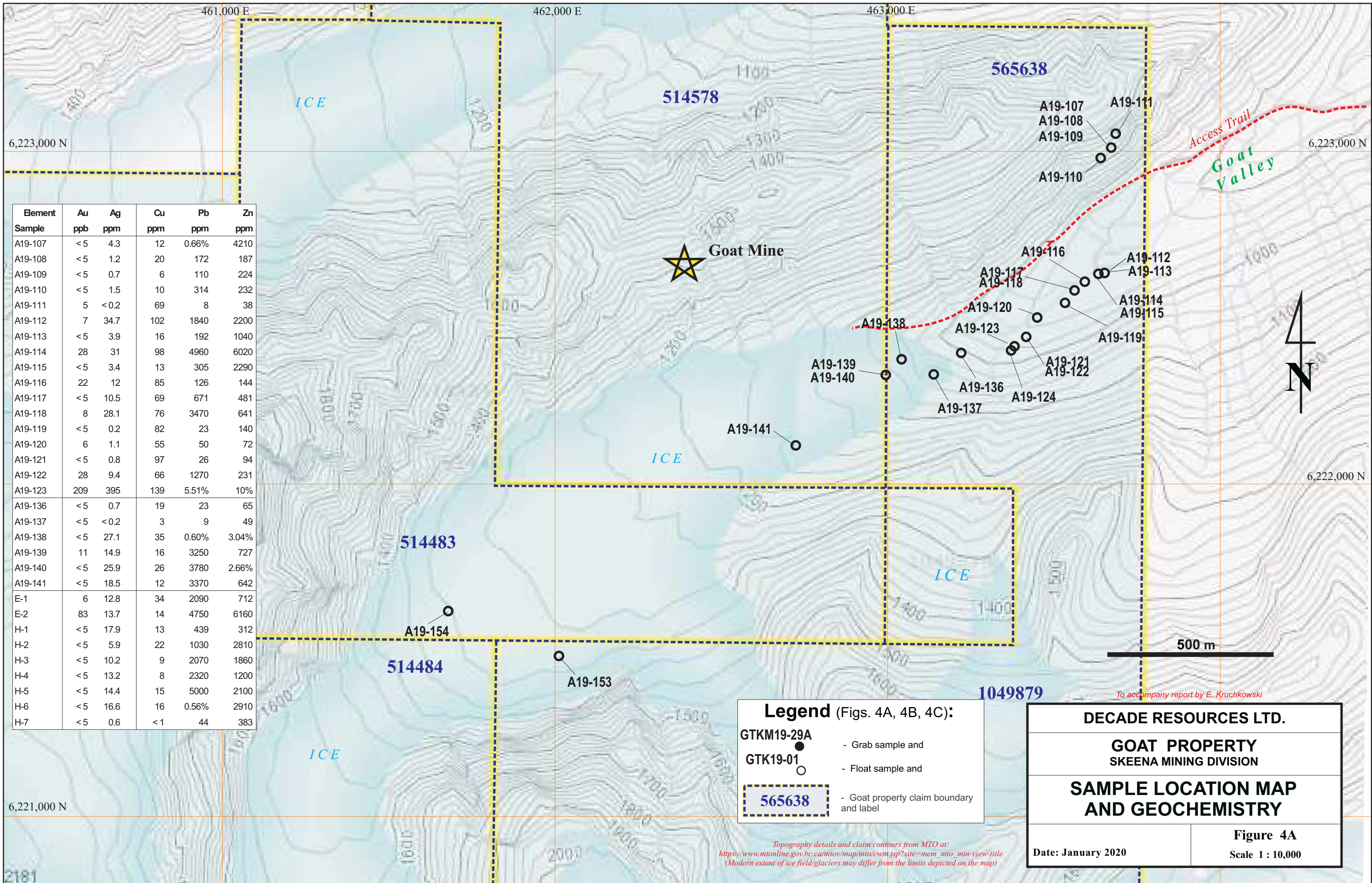
DECADE RESOURCES LTD.

GOAT PROPERTY
SKEENA MINING DIVISION

REGIONAL GEOLOGY

NTS 104A 04	Figure 3
Date: January 2020	Scale as shown

Geology from:
<http://www.camp.gov.bc.ca/Mining/Geoscience/MapPlace2/Pages/default.aspx>
 gnd - mapsheets 1:20000 scale



Element	Au	Ag	Cu	Pb	Zn
Sample	ppb	ppm	ppm	ppm	ppm
A19-107	<5	4.3	12	0.66%	4210
A19-108	<5	1.2	20	172	187
A19-109	<5	0.7	6	110	224
A19-110	<5	1.5	10	314	232
A19-111	5	<0.2	69	8	38
A19-112	7	34.7	102	1840	2200
A19-113	<5	3.9	16	192	1040
A19-114	28	31	98	4960	6020
A19-115	<5	3.4	13	305	2290
A19-116	22	12	85	126	144
A19-117	<5	10.5	69	671	481
A19-118	8	28.1	76	3470	641
A19-119	<5	0.2	82	23	140
A19-120	6	1.1	55	50	72
A19-121	<5	0.8	97	26	94
A19-122	28	9.4	66	1270	231
A19-123	209	395	139	5.51%	10%
A19-136	<5	0.7	19	23	65
A19-137	<5	<0.2	3	9	49
A19-138	<5	27.1	35	0.60%	3.04%
A19-139	11	14.9	16	3250	727
A19-140	<5	25.9	26	3780	2.66%
A19-141	<5	18.5	12	3370	642
E-1	6	12.8	34	2090	712
E-2	83	13.7	14	4750	6160
H-1	<5	17.9	13	439	312
H-2	<5	5.9	22	1030	2810
H-3	<5	10.2	9	2070	1860
H-4	<5	13.2	8	2320	1200
H-5	<5	14.4	15	5000	2100
H-6	<5	16.6	16	0.56%	2910
H-7	<5	0.6	<1	44	383

Legend (Figs. 4A, 4B, 4C):

- - Grab sample and
- - Float sample and
- 565638 - Goat property claim boundary and label

DECADE RESOURCES LTD.

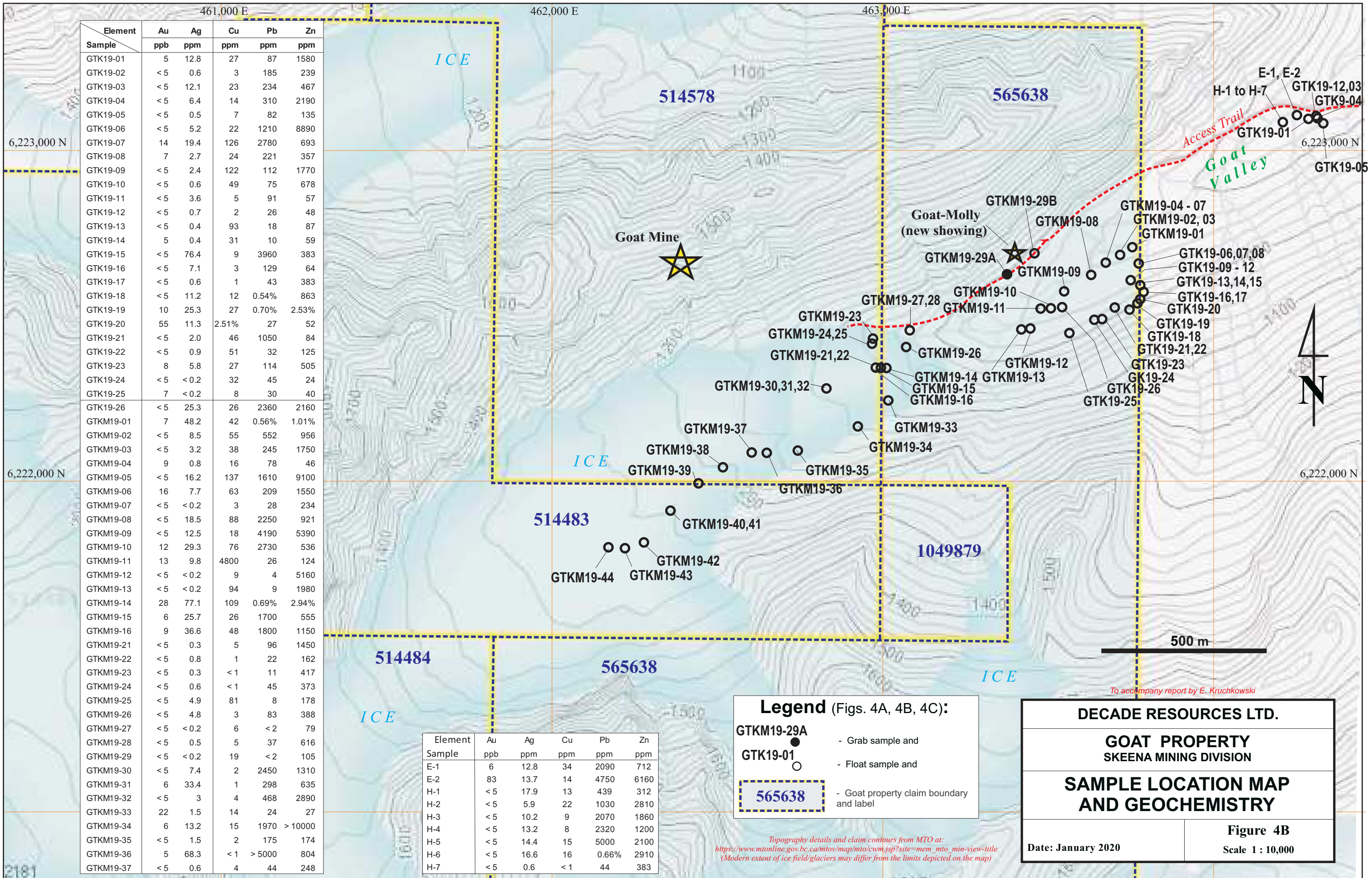
GOAT PROPERTY
SKEENA MINING DIVISION

SAMPLE LOCATION MAP
AND GEOCHEMISTRY

Figure 4A
Date: January 2020
Scale 1 : 10,000

*Topography details and claim contours from MTO at:
https://www.mtonline.gov.bc.ca/mtov/map/mto/cwm.jsp?site=mem_mto_min-view-title
 (Modern extent of ice field/glaciers may differ from the limits depicted on the map)*

To accompany report by E. Kruchkowski



Element	Au	Ag	Cu	Pb	Zn
Sample	ppb	ppm	ppm	ppm	ppm
GTK19-01	5	12.8	27	87	1580
GTK19-02	<5	0.6	3	185	239
GTK19-03	<5	12.1	23	234	467
GTK19-04	<5	6.4	14	310	2190
GTK19-05	<5	0.5	7	82	135
GTK19-06	<5	5.2	22	1210	8890
GTK19-07	14	19.4	126	2780	693
GTK19-08	7	2.7	24	221	357
GTK19-09	<5	2.4	122	112	1770
GTK19-10	<5	0.6	49	75	678
GTK19-11	<5	3.6	5	91	57
GTK19-12	<5	0.7	2	26	48
GTK19-13	<5	0.4	93	18	87
GTK19-14	5	0.4	31	10	59
GTK19-15	<5	76.4	9	3960	383
GTK19-16	<5	7.1	3	129	64
GTK19-17	<5	0.6	1	43	383
GTK19-18	<5	11.2	12	0.54%	863
GTK19-19	10	25.3	27	0.70%	2.53%
GTK19-20	55	11.3	2.51%	27	52
GTK19-21	<5	2.0	46	1050	84
GTK19-22	<5	0.9	51	32	125
GTK19-23	8	5.8	27	114	505
GTK19-24	<5	<0.2	32	45	24
GTK19-25	7	<0.2	8	30	40
GTK19-26	<5	25.3	26	2360	2160
GTKM19-01	7	48.2	42	0.56%	1.01%
GTKM19-02	<5	8.5	55	552	956
GTKM19-03	<5	3.2	38	245	1750
GTKM19-04	9	0.8	16	78	46
GTKM19-05	<5	16.2	137	1610	9100
GTKM19-06	16	7.7	63	209	1550
GTKM19-07	<5	<0.2	3	28	234
GTKM19-08	<5	18.5	88	2250	921
GTKM19-09	<5	12.5	18	4190	5390
GTKM19-10	12	29.3	76	2730	536
GTKM19-11	13	9.8	4800	26	124
GTKM19-12	<5	<0.2	9	4	5160
GTKM19-13	<5	<0.2	94	9	1980
GTKM19-14	28	77.1	109	0.69%	2.94%
GTKM19-15	6	25.7	26	1700	555
GTKM19-16	9	36.6	48	1800	1150
GTKM19-21	<5	0.3	5	96	1450
GTKM19-22	<5	0.8	1	22	162
GTKM19-23	<5	0.3	<1	11	417
GTKM19-24	<5	0.6	<1	45	373
GTKM19-25	<5	4.9	81	8	178
GTKM19-26	<5	4.8	3	83	388
GTKM19-27	<5	<0.2	6	<2	79
GTKM19-28	<5	0.5	5	37	616
GTKM19-29	<5	<0.2	19	<2	105
GTKM19-30	<5	7.4	2	2450	1310
GTKM19-31	6	33.4	1	298	635
GTKM19-32	<5	3	4	468	2890
GTKM19-33	22	1.5	14	24	27
GTKM19-34	6	13.2	15	1970	> 10000
GTKM19-35	<5	1.5	2	175	174
GTKM19-36	5	68.3	<1	> 5000	804
GTKM19-37	<5	0.6	4	44	248

Element	Au	Ag	Cu	Pb	Zn
Sample	ppb	ppm	ppm	ppm	ppm
E-1	6	12.8	34	2090	712
E-2	83	13.7	14	4750	6160
H-1	<5	17.9	13	439	312
H-2	<5	5.9	22	1030	2810
H-3	<5	10.2	9	2070	1860
H-4	<5	13.2	8	2320	1200
H-5	<5	14.4	15	5000	2100
H-6	<5	16.6	16	0.66%	2910
H-7	<5	0.6	<1	44	383

Legend (Figs. 4A, 4B, 4C):

- GTKM19-29A - Grab sample and
- GTK19-01 - Float sample and
- 565638 - Goat property claim boundary and label

DECADE RESOURCES LTD.

**GOAT PROPERTY
SKEENA MINING DIVISION**

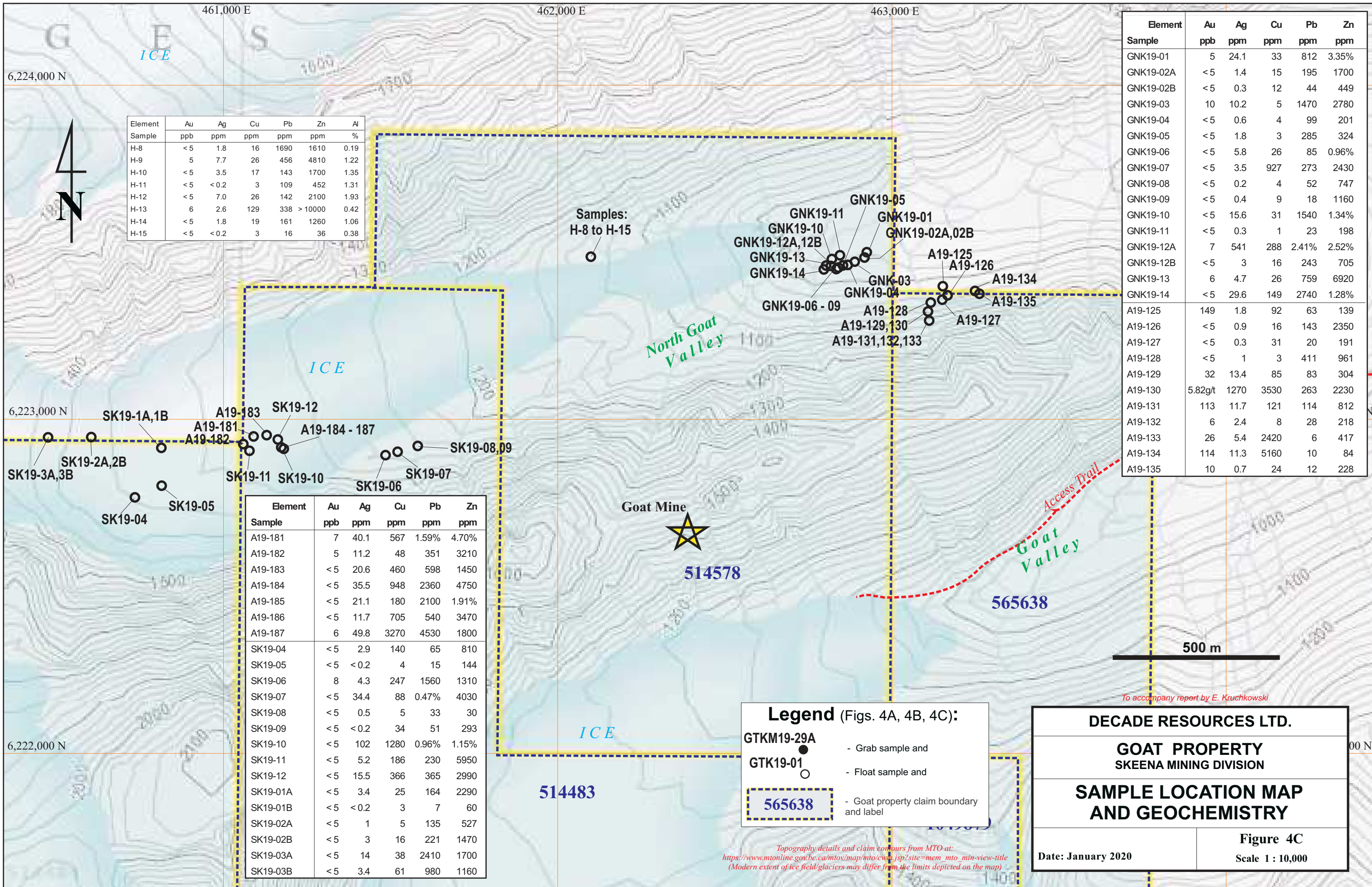
**SAMPLE LOCATION MAP
AND GEOCHEMISTRY**

Figure 4B

Date: January 2020 Scale 1 : 10,000

*Topography details and claim contours from MTO at:
https://www.mtonline.gov.bc.ca/mtov/map/mto/cwm.jsp?site=mem_mto_min-view-title
 (Modern extent of ice field/glaciers may differ from the limits depicted on the map)*

To accompany report by E. Kruckowski



Element	Au	Ag	Cu	Pb	Zn	Al
Sample	ppb	ppm	ppm	ppm	ppm	%
H-8	<5	1.8	16	1690	1610	0.19
H-9	5	7.7	26	456	4810	1.22
H-10	<5	3.5	17	143	1700	1.35
H-11	<5	<0.2	3	109	452	1.31
H-12	<5	7.0	26	142	2100	1.93
H-13	6	2.6	129	338	>10000	0.42
H-14	<5	1.8	19	161	1260	1.06
H-15	<5	<0.2	3	16	36	0.38

Element	Au	Ag	Cu	Pb	Zn
Sample	ppb	ppm	ppm	ppm	ppm
GNK19-01	5	24.1	33	812	3.35%
GNK19-02A	<5	1.4	15	195	1700
GNK19-02B	<5	0.3	12	44	449
GNK19-03	10	10.2	5	1470	2780
GNK19-04	<5	0.6	4	99	201
GNK19-05	<5	1.8	3	285	324
GNK19-06	<5	5.8	26	85	0.96%
GNK19-07	<5	3.5	927	273	2430
GNK19-08	<5	0.2	4	52	747
GNK19-09	<5	0.4	9	18	1160
GNK19-10	<5	15.6	31	1540	1.34%
GNK19-11	<5	0.3	1	23	198
GNK19-12A	7	541	288	2.41%	2.52%
GNK19-12B	<5	3	16	243	705
GNK19-13	6	4.7	26	759	6920
GNK19-14	<5	29.6	149	2740	1.28%
A19-125	149	1.8	92	63	139
A19-126	<5	0.9	16	143	2350
A19-127	<5	0.3	31	20	191
A19-128	<5	1	3	411	961
A19-129	32	13.4	85	83	304
A19-130	5.82gt	1270	3530	263	2230
A19-131	113	11.7	121	114	812
A19-132	6	2.4	8	28	218
A19-133	26	5.4	2420	6	417
A19-134	114	11.3	5160	10	84
A19-135	10	0.7	24	12	228

Element	Au	Ag	Cu	Pb	Zn
Sample	ppb	ppm	ppm	ppm	ppm
A19-181	7	40.1	567	1.59%	4.70%
A19-182	5	11.2	48	351	3210
A19-183	<5	20.6	460	598	1450
A19-184	<5	35.5	948	2360	4750
A19-185	<5	21.1	180	2100	1.91%
A19-186	<5	11.7	705	540	3470
A19-187	6	49.8	3270	4530	1800
SK19-04	<5	2.9	140	65	810
SK19-05	<5	<0.2	4	15	144
SK19-06	8	4.3	247	1560	1310
SK19-07	<5	34.4	88	0.47%	4030
SK19-08	<5	0.5	5	33	30
SK19-09	<5	<0.2	34	51	293
SK19-10	<5	102	1280	0.96%	1.15%
SK19-11	<5	5.2	186	230	5950
SK19-12	<5	15.5	366	365	2990
SK19-01A	<5	3.4	25	164	2290
SK19-01B	<5	<0.2	3	7	60
SK19-02A	<5	1	5	135	527
SK19-02B	<5	3	16	221	1470
SK19-03A	<5	14	38	2410	1700
SK19-03B	<5	3.4	61	980	1160

Legend (Figs. 4A, 4B, 4C):

- - Grab sample and
- - Float sample and
- 565638 - Goat property claim boundary and label

DECADE RESOURCES LTD.

GOAT PROPERTY
SKEENA MINING DIVISION

SAMPLE LOCATION MAP
AND GEOCHEMISTRY

Figure 4C

Date: January 2020 Scale 1 : 10,000

*Topography details and claim contours from MTO at:
https://www.mtonline.gov.bc.ca/mto/map/mto/cwp.jsp?site=mem_mto_min-view-title
 (Modern extent of ice field/glaciers may differ from the limits depicted on the map)*

To accompany report by E. Kruchkowski