

BC Geological Survey
Assessment Report
38705



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geochemical and Lithogeochemical Report on the Ecstall Property

TOTAL COST: \$121,767.64

AUTHOR(S): Dustin Perry, P.Geo.
SIGNATURE(S):

A handwritten signature in black ink, appearing to read "Dustin Perry", written over a horizontal line.

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5754378, 5767275

YEAR OF WORK: 2019

PROPERTY NAME: Ecstall Property

CLAIM NAME(S) (on which work was done): 1061192, 1061193, 1061194, 1061195, 1061196, 1063430, 1063804, 1065561, 1065567, 1065568, 1065569, 1065570, 1065571, 1065572, 1065573, 1065574, 1065575, 1065576, 1065583, 1069361, 1069363, 1070111, 1070867, 1070868, 1071829, 1071830, 1072798, and 1072799

COMMODITIES SOUGHT: Cu, Au, Zn, Ag, Pb

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 103H 013, 103H 014, 103H 036, 103H 050, 103H 052 – 056, 103H 070, 103H 077, 103H 079

MINING DIVISION: Skeena
NTS / BCGS: 104H11, 104H13, 104H14
LATITUDE: 53° 51' 2.7"
LONGITUDE: 129° 31' 2.3" (at centre of work)
UTM Zone: 9N EASTING: 465969 NORTHING: 5967024

OWNER(S): Kingfisher Resources Ltd.

MAILING ADDRESS: 1050 400-Burrard St, Vancouver, BC. V6C 3A6

OPERATOR(S) [who paid for the work]: Kingfisher Resources Ltd.

MAILING ADDRESS: 1050 400-Burrard St, Vancouver, BC. V6C 3A6

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) Devonian volcanosedimentary package within the Yukon Tanana Terrane. Rhyolite and Gniess. Quartz-sericite-pyrite and Chlorite alteration. VMS style mineralization. Massive sulfide, disseminated, and stringer hosted mineralization.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
15488, 24605a, 25612, 25862

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	250	1061193, 1061194, 1065570	\$81,1178.43
Silt	8	Same	\$36,015.78
Rock	63	Same	\$4573.43
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	\$121,767.64

**GEOCHEMICAL and LITHOGEOCHEMICAL
ASSESSMENT REPORT
on the
ECSTALL PROPERTY**

Tenure No's:

**1061192, 1061193, 1061194, 1061195, 1061196, 1063430, 1063804, 1065561, 1065567, 1065568, 1065569,
1065570, 1065571, 1065572, 1065573, 1065574, 1065575, 1065576, 1065583, 1069361, 1069363, 1070111,
1070867, 1070868, 1071829, 1071830, 1072798, and 1072799**

Skeena River Area

Skeena Mining Division

NTS: 104H11, 104H13, 104H14

Latitude: 53° 51' 2.7"N; Longitude: 129° 31' 2.3"W

UTM (NAD83 – Zone 9): 465969E, 5967024N

Owner/Operator: Kingfisher Resources Ltd. (100%)



Author: Dustin Perry, P.Geo.

December 19th, 2019

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8 (in pocket)	F13 Zone – Zn-Pb-Ag	1:2500
9 (in pocket)	F13 Zone – Cu-Au	1:2500
10 (in pocket)	Marmot Zone – Sample Locations	1:5000
11 (in pocket)	Marmot Zone – Zn-Pb-Ag	1:5000
12 (in pocket)	Marmot Zone – Cu-Au	1:5000
13 (in pocket)	Channel Zone – Sample Locations	1:10,000
14 (in pocket)	Channel Zone – Pb-Zn-Ag	1:10,000
15 (in pocket)	Channel Zone – Cu-Au	1:10,000
16 (in pocket)	Ridge Zone – Rock Samples	1:10,000

1.0 SUMMARY

This report summarizes the first phase of field work completed by Kingfisher Resources from July 9th to August 3rd, 2019. The primary focus of the phase 1 field program was to evaluate the mineral potential of relatively unworked portions of the property in advance of a 1501 line km VTEM geophysical survey which took place after this program.

Field crews were mobilized from Kitimat, BC and accessed the southern end of the property via water taxi. Crews worked 3 zones on foot with helicopter support between the zones. The first target area, the Channel Zone, is located at tide water on Kitkiata Inlet, situated on the Douglas Channel. Work on the Channel Zone consisted of rock, soil, and stream sediment sampling. The second area of work comprised the Marmot Zone - an alpine area north of the Ecstall River that contained anomalous stream sediment samples but with no recorded rock or soil samples. Work on the Marmot Zone consisted of rock, soil, and stream sediment sampling. The third area of work was the historic Friday the 13th showing. Work at this location included rock and soil sampling.

Results from this program revealed new areas of mineralization and anomalous soil geochemistry. Justification for future work on these zones will have to be weighed against the results from the remainder of the Ecstall Property. At this time, further soil sampling, rock sampling, and prospecting is recommended for these zones of interest.

Total expenditures for the Phase one field program came to \$121,767.64 and are detailed in Appendix B.

2.0 INTRODUCTION

2.1 Property

The Ecstall Property (Map 1 and 2) is located within the Ecstall Greenstone Belt in northwest British Columbia. The property is favourably located approximately 56 Km from Prince Rupert, 83 Km from Terrace, and 60 Km from Kitimat, BC. The property consists of 28 mineral claims comprising 25,017 Ha (Map 3 and Appendix C).

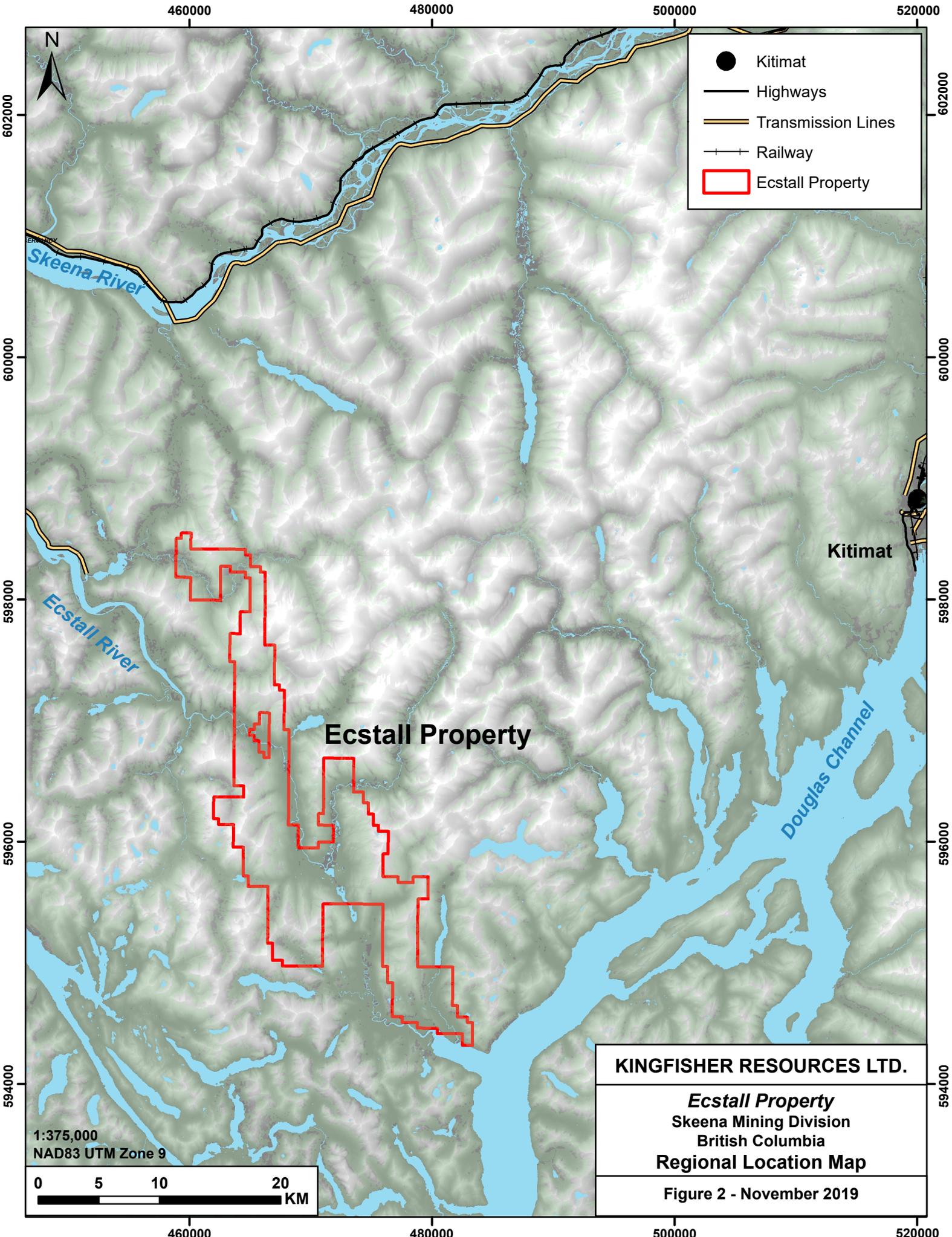


NAD83 BC Environment Albers

0 100 200 400 Km

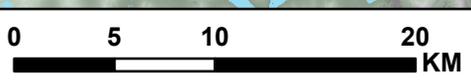
- ★ Ecstall Property
- Cities

KINGFISHER RESOURCES LTD.
<i>Ecstall Property</i> Skeena Mining Division British Columbia Location Map
Figure 1 - November 2019



- Kitimat
- Highways
- Transmission Lines
- +— Railway
- Ecstall Property

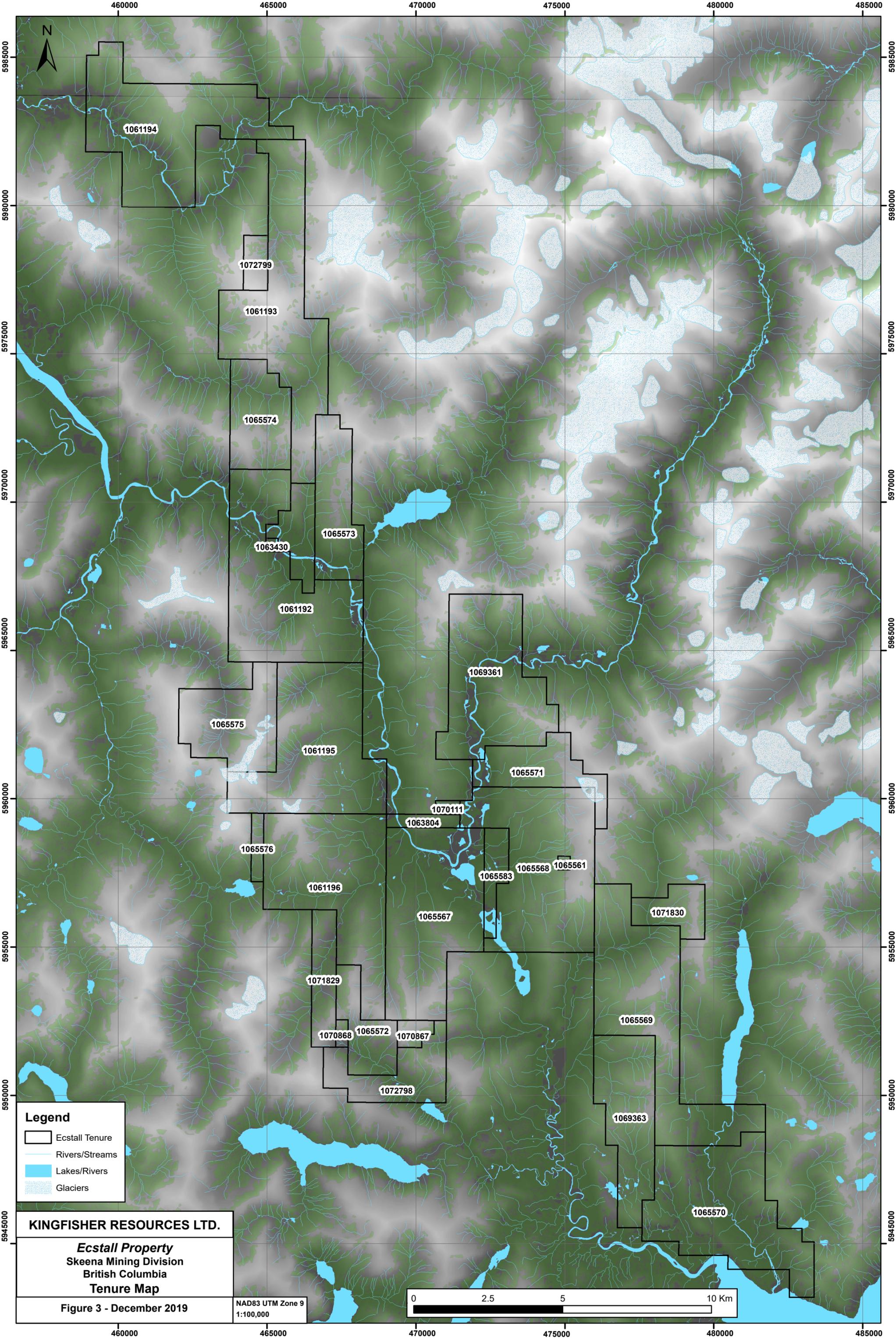
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NAD83 UTM Zone 9



KINGFISHER RESOURCES LTD.

Ecstall Property
Skeena Mining Division
British Columbia
Regional Location Map

Figure 2 - November 2019



Legend

- Ecstall Tenure
- Rivers/Streams
- Lakes/Rivers
- Glaciers

KINGFISHER RESOURCES LTD.

Ecstall Property
Skeena Mining Division
British Columbia
Tenure Map

Figure 3 - December 2019

NAD83 UTM Zone 9
1:100,000



2.2 Accessibility

Access to the Ecstall Property is either by helicopter from Terrace, Prince Rupert, or Kitimat, BC. For the 2018 field program, Summit Helicopters based in Terrace, BC were contracted. Access is also possible to the lower reaches of the Ecstall River via jet boat or to the southern end of the property via water taxi from Kitimat.

2.3 Physiography and Climate

The Ecstall River area has a coastal climate characterized by high precipitation and moderate temperatures. Winters are mild and wet with precipitation occurring mostly as rain and snowfall generally restricted to higher elevations. Temperatures reach lows of about -10°C. Summer weather is variable, typically with mixed rain and cloud, and temperatures from 10°C to 25°C. Lakes are generally ice-free by early April. Freeze-up typically occurs in mid-November.

Heavy forest cover is restricted to parts of main valley floors, with sparse coniferous growth on hillsides up to about 1,000 meters. Fir, hemlock, spruce, and willows dominate with lesser poplar, birch and alder. Short brush and lichen dominates above 1,000 meters.

2.4 Local Resources and Infrastructure

Logging roads are present at the north end of the property. Logging occurred as recent as ~20 years ago and roads are presently deactivated. Roads are suitable for walking and could be made passable for ATV with hand brushing.

The nearest infrastructure to the property lies on the Skeena River with highway 16 and the CN Rail line being located on the north bank of the river. The nearest power lines occur approximately ~10km west of the property at BC Hydro's Big Falls Dam.

Deep water ports are located at both Prince Rupert and Kitimat.

3.0 HISTORY

The first documented mineral exploration within the Ecstall Belt occurred around 1890 when the Ecstall Deposit was discovered. Granby Mines performed several exploration programs on the property throughout the first half of the 20th century. Their work included surface and underground drilling as well as the construction of several tunnels on the Ecstall Deposit.

During the 1950's and 1960's, Texas Gulf completed extensive work on the Ecstall Deposit. They also completed regional exploration which led to the discovery of the Packsack, Scotia, and Horsefly deposits.

The property lay dormant until 1981 when the Ecstall Joint Venture explored the property at a regional scale. A total of 600 stream sediment samples were taken throughout the Ecstall Belt.

From 1985 to 1988 Falconbridge and Noranda completed a significant amount of work within the Ecstall Belt including soil sampling, rock sampling, lithochemical sampling, airborne and ground based EM as well as diamond drilling 5 holes east of the Thirteen Creek Zone.

In 1994, Atna Resources completed a program on the Thirteen Creek Zone consisting of geological mapping, soil sampling, line cutting, and rock chip sampling. Their work outlined a zone of disseminated and stringer hosted copper and gold mineralization over a 150 by 2000 m area.

From 1998-1999 Bishop Resources worked the northern portion of the Ecstall Property. They discovered the F13 showing in addition to covering the majority of the northern portion of the property with stream sediment samples. During this program, they identified a strong zone of copper and gold anomalism at the Marmot Zone.

In 2018, the author completed a small program of confirmation rock sampling at the 13 Creek Target area. The program served to confirm historic grades and alteration noted in historic report, add additional sample inventory to a zone of interest, and to determine future logistical possibilities.

4.0 GEOLOGY

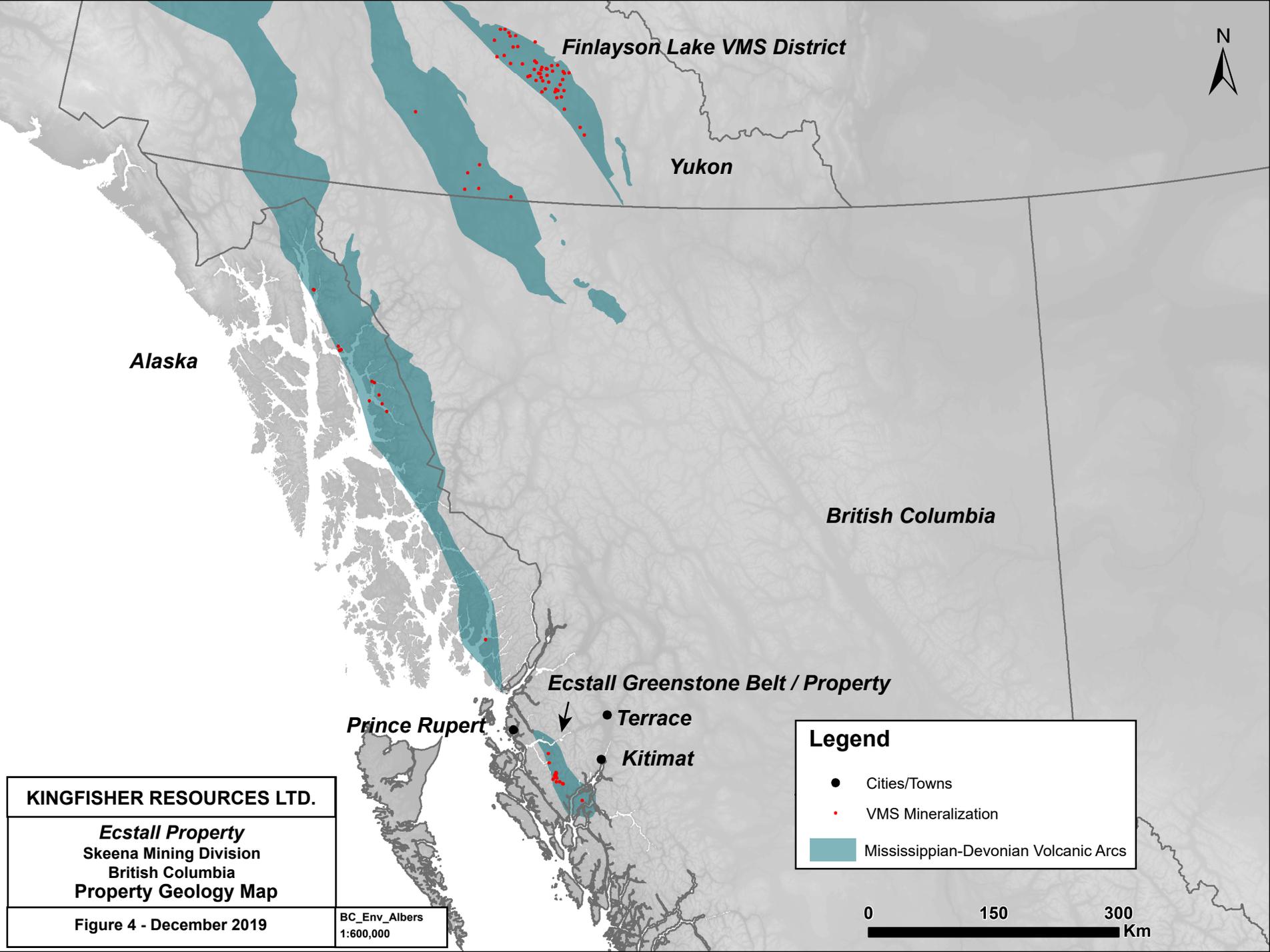
4.1 Regional Geology

The Ecstall Greenstone Belt is located within the southern most section of the Yukon-Tanana Terrane (Map 4) in British Columbia. The Ecstall Belt is part of the Central Gneiss Complex with is enclosed by younger granitoid rocks of the Coast Crystalline Belt. The following summary is adapted from Alldrick (2011), *Greenwood et al.*(1992),*Woodsworth et al.* (1992), *Read et al.* (1991) and *Gareau* (1991b,c)

Plutonic rocks of the Coast Plutonic Complex (CPC) make up more than 80% of the Coast Belt; the remainder is metavolcanic rocks, metasedimentary rocks and granitoid gneisses of the Central Gneiss Complex (CGC). Plutonic rocks of the CPC range in age from Late Silurian to Eocene (*Woodsworth et al.*, 1992). In general, the oldest plutons are exposed along the western edge of the CPC and the ages of plutons young progressively to the east. Rocks range in composition from granite to gabbro, but 70% of all plutonic rocks lie within the compositional range of tonalite-quartz diorite-diorite. Among the circum-Pacific plutonic terranes, the CPC is the largest, the most mafic, and the most deficient in K-feldspar.

Metamorphic rocks of the Central Gneiss Complex range in age from Proterozoic through Paleozoic and typically occur as screens or pendants surrounded or intruded by the plutonic rocks of the CPC (Figure 2). Evidence of Paleozoic regional metamorphism is preserved locally (e.g. *Alldrick and Gallagher*, 2000; *Gareau and Woodsworth*, 2000), but intense mid-Mesozoic and early Tertiary metamorphism, deformation and plutonism have obscured evidence of earlier events in many places. Most metamorphic effects can be attributed to regional metamorphism, but contact metamorphism from the adjacent plutons can also create a metamorphic overprint (e.g. *Gareau*, 1991a).

The Prince Rupert-Terrace corridor is the most extensively studied and best understood area of the Coast Crystalline Belt (*Greenwood et al.*, 1992; *Stowell and McClelland*,2000).This is also the most deeply exhumed part of the Central Gneiss Complex; metamorphic grades range up to kyanite-amphibolite, sillimanite-amphibolite and granulite facies in different parts of this area (*Read et al.*, 1991). Within the



Finlayson Lake VMS District

Yukon

Alaska

British Columbia

Prince Rupert

Ecstall Greenstone Belt / Property

Terrace

Kitimat

Legend

- Cities/Towns
- VMS Mineralization
- Mississippiian-Devonian Volcanic Arcs

KINGFISHER RESOURCES LTD.

Ecstall Property
Skeena Mining Division
British Columbia
Property Geology Map

Figure 4 - December 2019

BC_Env_Albers
1:600,000

0 150 300
Km

Ecstall belt, Gareau (1991b,c) has documented a southwest to northeast progression from lower amphibolite facies to granulite facies, with most rocks falling within the kyanite-amphibolite (upper amphibolite) facies.

The mid-Devonian volcanic arc that evolved into the Ecstall Greenstone Belt likely developed in a similar setting as the extensive volcanosedimentary successions of the Yukon-Tanana terrane (Gareau and Woodsworth, 2000). The regional geologic history of the Ecstall belt is outlined in a separate report (Alldrick et al., 2001); Devonian volcanism, sedimentation and comagmatic intrusions are followed by three or four poorly-constrained phases of deformation and four well-dated plutonic episodes. The Jurassic to Eocene plutonic and metamorphic history of the Coast Crystalline Belt is consistent with a model of east-dipping subduction beneath a single, allochthonous Alexander-Wrangellia-Stikinia superterrane, emplaced against North America in Middle Jurassic time (van der Heyden, 1989)

4.2 Property Geology

The following summary of the property geology of the Ecstall Belt is taken from Alldrick (2001).

The Ecstall belt is a north-northwest trending, high-grade metamorphic belt bounded by the elongate mid-Cretaceous Ecstall pluton on the west and the Paleocene Quottoon on the east (Map 5). Gareau (1991a) divided stratified rocks of the belt into four principal units: metavolcanic rocks, metasedimentary rocks, quartzite and layered gneiss. The metavolcanic unit consists of mafic and intermediate composition metavolcanic rocks, interlayered with lesser felsic metavolcanic and metasedimentary rocks.

Metavolcanic rocks are intruded by two large, elongate, mid-Devonian plutons called the Big Falls tonalite. Recent geochronology studies (Alldrick *et al.*, (2001) confirm Gareau's (1991a) interpretation that the main metavolcanic sequence in the belt is also of mid-Devonian age. The metavolcanic package and its coeval subvolcanic stocks are overlain by a regionally extensive package of metasedimentary rocks, consisting of a lower metapelitic unit and an upper quartzite unit. These strata are overlain in turn along the eastern margin of the Ecstall belt by a mafic gneiss. The protolith for this black and white banded gneiss is interpreted as a mafic volcanic package of Late Devonian age.

The geologic history of the Ecstall Greenstone Belt (Figure 4) is outlined in Alldrick *et al.* (2001). At least four plutonic events post-date the middle to upper Devonian stratigraphic succession. An extensive suite of small, weakly deformed diorite stocks are scattered throughout the central Ecstall belt. One stock has yielded an Early Mississippian age, which may indicate the age for all these plugs. In addition to Paleozoic intrusions, two elongate plutonic bodies of Early Jurassic age, the Johnston Lake and the Foch Lake tonalites, intrude the eastern part of the belt (Figure 3). The two bounding plutons, the mid-Cretaceous Ecstall on the west and the Paleocene Quottoon on the east, have associated dikes, sills and small stocks which cut the Ecstall belt rocks.

Stratified Rocks

The regional stratigraphic components have been well established by Gareau (1991a,b,c and 1997) and are reviewed in Gareau and Woodsworth (2000) and Alldrick *et al.*, (2001); however, the sense of stratigraphic tops is not resolved. The sense of 'tops' used in this report is based on 1) the conspicuous absence of the extensive Big Falls tonalite intrusion within the widespread and locally adjacent stratigraphic units of metasilstone and quartzite (e.g. Gareau, 1997) which suggests that the intrusion pre-dates the sedimentary rocks, and on 2) the abundant "granitoid" (tonalite) clasts within conglomeratic members of the metasilstone unit (Gareau, 1991a and Gareau and Woodsworth, 2000, Figure 7b).

UNIT 1 - METAVOLCANIC ROCKS (BIG FALLS IGNEOUS COMPLEX)

The base of the stratigraphic sequence is the meta- volcanic unit which consists mafic to intermediate to felsic metavolcanic and derived metasedimentary rocks. The unit has been isoclinally folded (Gareau, 1991a, p.46), consequently apparent stratigraphic thicknesses, which range from 1 to 10 kilometres, are at least double their original value. This sequence is the largest unit defined by Gareau (1997), and extends the entire length of the belt, averaging four kilometres in thickness. Metavolcanic rocks are in gradational contact with the Big Falls tonalite (map unit A) and have sharp, but interlayered contacts with metasedimentary rock units. Metavolcanic rocks of the Ecstall belt host all but 3 of the 38 mineral occurrences.

The metavolcanic unit is heterogeneous. Biotite schist, hornblende-biotite schist and semi-schist comprise 70% of the unit. Interlayered with these lithologies are lenses of pyrite-quartz-sericite schist up to 100 metres thick, as well as amphibolite, quartzite, metasilstone and calcareous muscovite-biotite schist layers. These smaller lenses may extend along strike for several kilometres.

Manojlovic and Fournier (1987) studied volcanic rock chemistry on the Scotia property. They concluded that most rocks are subalkalic, ranging in composition from basalt to rhyolite. The majority of mafic to intermediate rocks were tholeiitic, felsic rocks were dominantly calc-alkalic.

U-Pb zircon ages for a felsic metavolcanic member of this unit, for a quartz diorite sill at the Ecstall deposit, and for the Big Falls tonalite, are identical within error limits (Alldrick *et al.*, this volume). These contemporaneous rocks are components of a Middle Devonian age intrusive-extrusive complex consisting of a suite of subvolcanic, synvolcanic stocks and sills; coeval, comagmatic volcanic rocks; and associated sedimentary rocks. These comagmatic rocks and their locally derived, intercalated sedimentary rocks are informally referred to as the Big Falls Igneous Complex to denote the rocks most important for the formation and preservation of volcanogenic massive sulphide deposits within the belt.

Unit 1a - Mafic Metavolcanics

Mafic metavolcanic rocks are preserved as strongly deformed pillow lavas and fragmental basalts, and as intensely foliated mafic schists or amphibolites. Subtle fragmental textures are preserved in some amphibolite outcrops. Hornblende-biotite schist is a black to greenish black recessive rock that is fissile and commonly highly weathered. It is the thickest of the metavolcanic units, averaging several hundred meters in thickness, and displays gradational boundaries with surrounding metavolcanic and metasedimentary lithologies. Also present within the mafic metavolcanics are lenses of resistant,

homogeneous, black to rusty-coloured, garnet-hornblende amphibolite interlayered on a 5 to 20 metre scale.

Compositional layering is typically non-existent, or is very weak and defined by discontinuous millimetre-thick laminae. The rock contains more than 50% medium-grained biotite and 10% to 20% hornblende. Granular, fine to medium-grained plagioclase comprises up to 20% of the rock and is typically polygonal. Disseminated pyrite locally constitutes up to 5% of the rock and accessory skeletal garnet porphyroclasts are preserved. Euhedral titanite, that makes up to 10% of some thin sections, is a common mineral associated with sulphide grains. Titanite occurs as well defined layers, as radial masses cored by pyrite, or as interstitial clusters or individual grains. Epidote-hornblende knots or pods are common within this unit; when present these knots make up 5% to 15% of the rock. The schist locally displays discontinuous, orange, medium-grained, calcareous lenses that are highly recessive.

The abundance of hornblende and biotite and the lack of quartz is consistent with a mafic volcanic protolith. The lithologic heterogeneity observed in the unit suggests a highly dynamic depositional environment. Discontinuous carbonate lenses appear to be primary and are indicative of a subaqueous environment.

Unit 1b - Intermediate Metavolcanics

Gareau (1991a) concluded that hornblende-diopside-biotite-quartz-plagioclase semi-schist is the dominant lithology in the northern part of the Ecstall belt. Semi-schist is fine to medium-grained, granular, well indurated and weathers dark grey to black. This quartz-plagioclase rock has medium-grained biotite partings spaced 1 to 5 centimetres apart. Plagioclase and diopside microlithons have 5% to 10% interstitial biotite. Titanite occurs as euhedral interstitial grains making up less than 2% of the rock. Fine to medium-grained prismatic hornblende, ranging from 5% to 10% by volume, is concentrated along biotite parting surfaces.

The presence of biotite semi-schist members within the mafic metavolcanic schists marks a decrease in mafic minerals, and an increase in quartz from near zero to 10% to 20%. This mineral assemblage suggests that the protolith was a metamorphosed intermediate volcanic rock, or a volcanoclastic sedimentary rock.

Unit 1c - Felsic Metavolcanics

These heterogeneous units are composed of pyritic quartz-sericite (muscovite) schist interlayered with 10 to 20 metre thick bands of muscovite-bearing quartzite and hornblende-biotite schist. Local thin units (1 to 5 metres) of thinly laminated (1 to 2 centimetres) quartz-rich rock that grades into the quartz-sericite schist are likely metamorphosed chert. Contacts with adjacent lithologies are typically sharp but may be gradational over half a metre to a metre.

Quartz-muscovite schist is a medium to coarse-grained rock with significant sulphides, containing on average 5% to 15% pyrite. These rocks also locally display relict clastic or fragmental volcanic textures. Primary compositional layering, on a 1 to 10 centimetre scale, is defined by alternating quartz and phyllosilicate layers. Pyrite seams or layers, up to 4 millimetres thick, are concordant with compositional layering and characterize the lithology. Subhedral garnet, with an average diameter of

5 millimetres, is commonly associated with the sulphides, as is biotite. Chlorite can be seen in hand sample surrounding the garnet porphyroblasts. Quartz-rich metasediments associated with the felsic metavolcanic rocks are similar in composition to quartzites described below in Unit 2.

Pyritic quartz-sericite schists are interpreted as metamorphosed felsic volcanic flows, tuffs and fragmental rocks associated with subaqueous extrusion.

Unit 1d - Intercalated Metasedimentary Rocks

Minor metasedimentary members within the meta-volcanic unit include metapelites, metasilstones, granitoid-clast conglomerates, and rare chert or metaquartzite. South of Big Falls Creek, quartzite is interlayered with lenses of fine to very fine grained garnet-biotite-quartz schist. The gradational contact between the quartzite and schist is marked by quartz-rich rock with partings of medium-grained biotite and rare subhedral garnets ranging from 0.3 to 1.0 centimetres in diameter.

UNIT 2 - METASEDIMENTARY ROCKS

The Big Falls igneous complex is overlain by a regionally extensive package of metasedimentary rocks, consisting of a lower metasilstone (metapelitic) unit and an upper quartzite unit.

Unit 2a - Metasilstone

The volcanic succession is overlain regionally by a metasilstone unit of medium to dark grey to black metapelite to metasilstone to metaquartzite that is locally pyritic. This is the “metasedimentary unit” of Gareau (1991a) and the “metaclastic unit” of Gareau and Woodsworth (2000, p.27). The hornblende-biotite-quartz-feldspar-epidote rock has a mafic mineral content ranging from 20% to 70% (Gareau, 1991a). Rare intervals with fine disseminated magnetite grains have been noted. The thickness of this unit ranges from 10 metres near the Packsack deposit to over 5 kilometres along Douglas Channel; much of this increase is due to structural thickening near the axis of a regional scale fold in the Douglas Channel-Hawkesbury Island area. Gareau (1991a, p.10-13) describes contacts between the metasilstone unit and the metavolcanics ranging from gradational to sharp.

This unit is significant in the regional stratigraphic construction because no dikes, sills or stocks correlated with the Big Falls magmatic complex have been identified within it, although younger intrusive rocks are common within this unit. Also, this unit includes repeated, extensive, granitoid clast conglomerate members (Gareau, 1991a). Clasts average 10 centimetres in diameter and typically make up 10% of the rock. Gareau (1991a) reports an exposure of conglomerate on the ridgecrest north of Johnston Lake that is 300 metres thick. Mafic mineral content of the granitoid clasts ranges from 20% to 70%, and K-feldspar is absent, indicating a tonalite composition.

Unit 2b - Quartzite

The black metapelite unit is overlain regionally by an extensive unit of quartzite (metasandstone). This white to light grey, well-laminated rock resembles thin-bedded sandstone, but the thin micaceous partings, rhythmic spaced at 5 to 10 centimetre intervals, are interpreted as a metamorphic effect. Minor associated lithologies include dark grey to black metapelite, black phyllite, dark grey metasilstone and

rare marble. Thickness of this unit ranges from 600 metres near Gareau Lake to more than 7 kilometres around the upper Ecstall River where the unit has been structurally thickened.

Gareau (1991a) describes the contact between this unit and the underlying metasilstone unit as gradational over a 20 to 100 metre interval. Along the eastern margin of the Ecstall belt, the unit is in contact with a black and white layered gneiss, Gareau (1991a, p.14-15) describes the contact between these units as sharp to gradational over an interval of 500 metres.

Like the subjacent metasilstone unit, this quartzite unit is an important component in the regional stratigraphic construction because no dikes, sills or stocks correlated with the Big Falls magmatic complex have been identified within it.

The quartzite unit consists predominantly of muscovite-bearing quartzite, but also includes minor units of metasilstone. Quartzite contains greater than 95% quartz and is very well indurated, resistant, homogeneous, light to medium grey, and fine to very fine grained. The rock typically weathers light grey, but is rusty red when pyrite is present. The map unit is described as a “white to grey, locally pyritic quartzite, interlayered with lesser amounts of biotite-hornblende gneiss, fissile mica schist, black phyllite to meta-argillite, semi-pelite to pelite and marble... The unit locally contains lenses of matrix-supported conglomerate composed of stretched metatonalite and other granitoid cobbles with an aspect ratio of 10:2:1 or more. Finely laminated compositional layering is defined by light grey quartz-rich layers alternating with dark grey to black layers of quartz, biotite and graphite(?). Pyrite commonly occurs along partings as disseminations or semi-continuous laminae, not exceeding 5% of the rock.” (Gareau, 1991a, p.14). The quartzite is a granoblastic rock; biotite is present in thin layers or partings less than 1 millimetre thick, or as minor interstitial grains. Accessory minerals are plagioclase, zoisite, cummingtonite, muscovite and carbonate. Gareau (1991a, p.14) concluded that these potassium and calcium-rich accessory minerals are consistent with a protolith of quartz arenite rather than chert.

UNIT 3 - LAYERED GNEISS

Gareau (1991a,b,c and 1997) defined a major stratigraphic unit of layered gneiss (Figure 3) along the eastern edge of the Ecstall belt, lying between the regionally extensive quartzites (map unit 2b) and the Quottoon pluton (map unit E). The metamorphic grade here is higher than the rest of the belt and lies within the upper amphibolite to granulite range (Gareau, 1991a).

The layered gneiss is interpreted as a metavolcanic rock (Gareau, 1991a). The protolith to this gneiss might be a repeated fold limb of the metavolcanic sequence of the Big Fall igneous complex (map unit 1), or a different, younger, mafic volcanic rock unit. Gareau and Woodsworth (2000) report a ~370 Ma U-Pb zircon age for this rock, which confirms that this unit is a younger volcanic package which stratigraphically overlies the quartzite unit (map unit 2b). The layered gneiss is the youngest (uppermost) stratigraphic unit preserved in the Ecstall Greenstone Belt (Alldrick *et al.*, (2001).

Intrusive Rocks

Five intrusive episodes are recorded in the rocks of the Ecstall belt. Two large, elongate, mid-Devonian plutons that are comagmatic with the host metavolcanic sequence and at least four plutonic suites post-date the mid to late Devonian stratigraphic succession. Small, weakly deformed diorite stocks are scattered throughout the central Ecstall belt. One stock has yielded an Early Mississippian age, which may indicate

the age for all these plugs. In addition to Paleozoic intrusions, two elongate Early Jurassic plutons, the Johnston Lake and the Foch Lake tonalites, intrude the eastern part of the belt. Two bounding plutons, the mid-Cretaceous Ecstall on the west and the Paleocene Quottoon on the east, have associated dikes, sills and small stocks which cut the rocks of the Ecstall Greenstone Belt.

UNIT A - BIG FALLS TONALITE

Gareau (1997) mapped out two large bodies of foliated tonalite, the Big Falls tonalite, which are enclosed mainly by the metavolcanic sequence of the Ecstall Greenstone Belt, and locally by the overlying metasilstone unit. A sample from the eastern lens of this rock produced a U-Pb zircon age of 385 Ma, leading Gareau (1991a,b) to conclude that the tonalite bodies are coeval, synvolcanic, subvolcanic intrusions that fed the overlying volcanic pile. Recent global research into the geologic setting of VMS deposits has stressed the importance of subvolcanic plutons of tonalite/trondhjemite composition as the heat source which concentrates VMS deposits at the overlying paleosurface (Galley, 1996; Large *et al.*, 1996).

The Big Falls Tonalite is a Middle Devonian (385 Ma; Gareau, 1991a), foliated, medium to coarse-grained epidote-biotite-hornblende tonalite that crops out as two separate elongate plutons. The plutons have a maximum structural thickness of 3.5 kilometres. This homogeneous, resistant, light grey rock is in gradational contact with the surrounding metavolcanic unit. This contact zone is several hundred metres wide and characterized by decreasing grain size and increasing biotite content outward from the tonalite (Gareau, 1991a).

Textural variations range from weakly foliated to porphyroclastic to mylonitic. Gareau (1991a) reports gneissic zones tens of metres thick with 5 to 10 centimetre bands of alternating quartz-plagioclase and biotite-hornblende layers. Porphyroclastic tonalite consists of 0.5 to 1 centimetre diameter plagioclase porphyroclasts in a medium grey, fine to medium-grained matrix consisting of biotite, hornblende, quartz and plagioclase. Minor epidote pods and layers are common. Up to 2% garnet is locally present. A 20-metre-thick mylonite zone crops out south of Big Falls Creek. Within this zone, millimetre-scale plagioclase porphyroclasts are set in a very fine grained matrix.

The composition, homogeneity, and presence of clear, colourless, euhedral zircons led Gareau (1991a) to conclude that this is an intrusive rock. The gradational contacts, showing a progressive variation from medium to fine grain size, were interpreted as evidence of a large coeval subvolcanic pluton which fed the surrounding and overlying volcanic pile.

Childe (1997, p.225-228) analysed a sample of foliated quartz diorite sill that crops out just to the west of the North Lens of the Ecstall massive sulphide deposit (Alldrick *et al.*, (2001), and Schmidt, 1995). The U-Pb zircon age of 377 Ma provides a Late Devonian minimum age for the nearby, syngenetic sulphide deposit, and indicates that this sill is comagmatic with the two stocks of Big Falls tonalite.

UNIT B - THE CENTRAL DIORITE SUITE

An extensive suite of small, weakly deformed diorite stocks are scattered throughout the central Ecstall belt (Holyk *et al.*, 1958; Gareau, 1991c, 1997). One stock has yielded an Early Mississippian age, which may indicate the age for all these plugs. Gareau (1991a, p.21-22) describes a series of mafic and

ultramafic stocks intruded through the central Ecstall belt, to which she ascribes a Jurassic or Cretaceous age. These rocks crop out in three main areas: as two stocks on Allaire Ridge, 10 kilometres south-southwest of Johnston Lake; as six small stocks scattered along Prospect Ridge, immediately west and uphill of the Packsack VMS deposit; and as a small body mapped on the peak of Red Gulch Mountain, 2.7 kilometres north-northeast of the Ecstall VMS deposit. These mafic rocks are dominantly diorites, but range in composition from quartz diorite to diorite to gabbro to hornblendite. The age of intrusion of all these rocks is unknown, although they must be younger than the quartzite host rock with a probable Late Devonian depositional age and older than the Early Cretaceous metamorphism. It is possible that these scattered clusters of weakly foliated mafic to ultramafic stocks are all comagmatic with the weakly foliated Gareau Lake diorite stock, described below, in which case they would have a mid-Mississippian age in the range of 337 Ma.

Unit B-1 - Gareau Lake Stock

Gareau (1991a, p.173-175) describes a small (<100 metres diameter) weakly foliated quartz diorite stock that intrudes the layered gneiss (map unit 3) on a ridgecrest 2 kilometres southeast of Gareau Lake. The rock is composed of 75% plagioclase, 10% quartz, 5% biotite and 3% hornblende with accessory titanite, apatite, zircon and opaque minerals. The U-Pb zircon age for this rock is 337 Ma (Gareau, 1991a). This date is consistent with intrusion into the 370 Ma layered gneiss host rock and indicates a mid-Mississippian magmatic episode of quartz diorite to diorite composition.

Unit B-2 - Allaire Ridge Mafic Complex

A large, irregular, mafic complex [JKum] is outlined on Gareau's map (1997) along the north-trending ridgecrest at the head of Allaire Creek, 5 kilometres to 9 kilometres south of the Ecstall deposit. Detailed mapping this season shows that this intrusion consists of two separate, but adjacent stocks that intrude metasedimentary rocks in the south and metavolcanic rocks in the north. The intrusive rock is resistant and underlies three prominent peaks along the ridgecrests. Two main phases are mapped: medium to coarse-grained diorite and very coarse grained hornblendite. At the 1242-metre peak at the northern edge of the northern stock, coarse-grained diorite is intruded in turn by tonalite of the Ecstall batholith, forming extensive intrusion breccias.

Diorite is medium to coarse-grained, and only weakly foliated. Massive hornblendite (hornblende gabbro) intrudes metasilstone and quartzite. The fresh rock is black and weathers rusty brown. Hornblendite is medium to very coarse grained, with hornblende (var. pargasite) crystals ranging up to 1.4 centimetres diameter. Metasediments within 1 to 2 metres of the intrusive contact are buckled, and screens of quartzite are incorporated near the margin of the intrusion. This intrusive phase was mapped across a 100 metre wide exposure along the ridgecrest, where it forms a prominent resistant spire. Gareau sampled this coarse-grained hornblendite for a K-Ar analysis, and interpreted the 115 Ma K-Ar age as a thermally reset date due to early to mid-Cretaceous regional metamorphism.

Unit B-3 - Prospect Ridge Diorite

West and uphill from the Packsack prospect, six small diorite stocks have been mapped along the crest and flanks of Prospect Ridge by Padgham (1958), Holyk *et al.* (1958), Delancey and Newell (1973), Maxwell and Bradish (1987b), Payne (1990c) and Gareau (1991c and 1997).

Unit B-4 - Red Gulch Mountain Diorite

Holyk *et al.* (1958) and Gareau (1997) show a small hornblende diorite stock at the peak of Red Gulch Mountain, 2.7 kilometres north-northeast of the North Lens of the Ecstall deposit. This resistant igneous rock underlies the prominent peak.

UNIT C - FOCH LAKE STOCK AND JOHNSTON LAKE STOCK

Gareau (1991a) identified two large, elongate Early Jurassic age intrusions emplaced along the eastern margin of the Ecstall belt. These plutons are both weakly to strongly foliated tonalite, but one is medium-grained and equigranular while the other is plagioclase megacrystic. The northern, equigranular Johnston Lake pluton yielded U-Pb zircon ages of 193 Ma and 190 Ma (Gareau, 1991a). The southern, coarsely porphyritic, Foch Lake stock yielded a U-Pb zircon age of 192 Ma (Gareau, 1991a). These plutons suggest that the Ecstall belt strata were associated with Stikine Terrane before the Early Jurassic time (Gareau and Woodsworth, 2000, p.39-40).

UNIT D - ECSTALL PLUTON

The Ecstall pluton is the largest of a series of magmatic-epidote-bearing plutons (Zen and Hammarstrom, 1984; Zen, 1985) in the western Cordillera called the Ecstall Suite (Woodsworth *et al.*, 1992, p.518-519). Regionally, the Ecstall suite includes diorite, tonalite and granodiorite phases (Gareau, 1991a). Along the western margin of the map area (Figure 3), the early Late Cretaceous Ecstall pluton is biotite-hornblende diorite to quartz diorite to tonalite. Age determinations span 98 Ma to 64 Ma, with the six most recent analyses averaging 93.5 Ma (unpublished data from van der Heyden, 1991, cited in Gareau, 1991a, p.161-164).

The rock is massive to moderately foliated, medium to coarse-grained, and weathers to a black and white, granular-textured surface. Foliation is defined by preferentially oriented biotite and hornblende. The rock is commonly equigranular, but locally displays plagioclase porphyroclasts. Hornblende-biotite-epidote tonalite ranges from light to medium grey on fresh surfaces. Grain size typically ranges from medium to coarse-grained equigranular, but local very coarse grained phases were noted. Foliation is generally more intense near the pluton margins. Primary layering (flow-banding or cumulate layering) was noted in one location. The pluton is highly sheared in places; mylonitic and pyritic shear zones were mapped this season. Cobble to boulder size mafic xenoliths are locally abundant. Screens of metasedimentary rock up to 40 metres wide are typically incorporated near the margins.

A distinctive feature of the Ecstall pluton is the presence of magmatic epidote, which increases in abundance from the margins to the centre of the intrusion. Within 200 metres of the contact, no epidote is apparent; epidote becomes progressively more abundant moving into the pluton, appearing first in fractures, then as fine interstitial grains, finally as equigranular coarse grains making up to 5% of the rock volume. Prominent crystals and aggregates of magmatic epidote comprise 5% of the rock and are associated with knots of biotite. Dark grey to black mafic schlieren are common and parallel the foliation within the rock. Medium-grained, euhedral, transparent titanite is also present. Contacts are sharp and discordant to the foliation. The eastern contact of the pluton is also discordant to the regional trend of map units. No chilled margin or contact metamorphic aureole was noted.

Along the southwest edge of the Ecstall Greenstone Belt, a porphyritic phase of the Ecstall pluton, crops out as a satellite pluton, roughly 1 kilometre in diameter, and consists of dark grey massive diorite(?) with an aphanitic groundmass and feldspar phenocrysts 3 to 4 millimetres across. Swarms of narrow pegmatite dikes concentrated along the western margin of the Ecstall belt are also likely components of the Ecstall magmatic episode.

UNIT E - QUOTTOON PLUTON

The Quottoon pluton intrudes along the eastern margin of the Ecstall Greenstone Belt (Figure 3). It is a long narrow body that extends north through southeastern Alaska, where it is called the “foliated tonalite sill” (Brew and Ford, 1978; Gehrels *et al.*, 1991a). The Quottoon Pluton is a medium to coarse-grained hornblende quartz diorite to tonalite and is intensely foliated close to its contact with the gneissic rocks of the Ecstall belt. Age determinations from this extensive pluton span Late Cretaceous (80 Ma) to mid-Eocene (43 Ma) time (van der Heyden, 1989, p.158-160), with Gareau’s (1991a, p.184-185) age of 57 Ma determined for a sample site closest to the present study area. This pluton is the focus of ongoing studies by the Keck Geology Consortium.

Gareau (1991a, p.182-184) reported a U-Pb zircon age of 59 Ma for an unfoliated pegmatite dike near the eastern edge of the belt, which indicates that the extensive swarm of pegmatite dikes that intrudes the eastern margin of the Ecstall belt is a component of the Quottoon magmatic episode.

Structure

The stratigraphic sequence has been isoclinally folded (Gareau, 1991a, p.46). Strata are exposed as a mirror-image sequence along the two margins of the belt (Gareau, 1997), although the layered gneiss (map unit 3) is missing along the western limb of the fold. The two plutons of Big Falls tonalite are likely repetitions of the same subvolcanic pluton duplicated by folding.

Rocks of the central Ecstall belt are highly deformed and characterized by north-striking, steeply dipping to vertical foliation defined by near-parallel compositional layering and cleavage. Detailed analyses of the structure of this belt are presented in Gareau (1991a) and Alldrick and Gallagher (2000). Coaxial, map-scale, upright, F₁ and F₂ isoclinal folds and upright to inclined F₃ open folds are identified (Alldrick and Gallagher, 2000). Mineral lineations and stretching lineations are steeply northwest to southeast plunging. The relative timing of thermal and dynamic metamorphic events deduced from analysis of textures, mineralogy and cross-cutting plutons are illustrated in Figure 4 and discussed in Alldrick *et al.*, (2001).

Metamorphism

Two metamorphic episodes have been documented; a peak regional prograde metamorphic event (M₁) and a much later regional retrograde metamorphic event (M₂). Gareau (1991a) demonstrated that peak metamorphic grades varied from lower amphibolite facies in the south-west part of the belt to granulite facies in the northeast part of the belt. In the central part of the Ecstall Belt, biotite, muscovite, garnet and kyanite are consistent with upper amphibolite facies metamorphism. No gneiss units were noted in the central part of the Ecstall belt, in sharp contrast to extensive gneiss units mapped further to the north (Alldrick and Gallagher, 2000) and the layered gneiss (map unit 3) mapped to the east (Gareau, 1997). Rocks are generally moderately to highly deformed, but local areas of relatively undeformed rocks

are preserved. A 400-metre-long unit of pillow lava and adjacent pillow breccia were mapped south of Thirteen Creek cirque; Hassard *et al.* (Figure 6 in 1987b) report a similar exposure of pillow lava in the canyon of Red Gulch Creek, 1050 metres upstream from the north end of the North Lens, and Schmidt (1996a) reports graded beds, accretionary lapilli and bomb sags in outcrops near the Steelhead prospect.

Gareau (1991a) attributed a series of mid-Cretaceous K-Ar dates on hornblende from metavolcanic rocks, and metasedimentary rocks to thermal resetting by an early to mid-Cretaceous regional-scale metamorphic event. Still younger thermal resetting of the westernmost and easternmost samples in the transect were caused by the thermal envelopes of the Ecstall (94 Ma) and Quottoon (57 Ma) plutons respectively. A Paleocene metamorphic event is attributed to emplacement of the Quottoon pluton, which created metamorphic zircons and titanites. The metamorphic ages coincide well with U-Pb zircon ages of 57 Ma and 61 Ma that Gareau (1991a) obtained from a samples of the Quottoon pluton and a related dike.

5.0 MINERALIZATION

5.1 Mineralized Showings

Friday 13th (103H 077)

The Friday 13th showing was discovered on Friday August 13th, 1999 during a regional stream sediment sampling program by Bishop Resources (AR #26168). The showing occurs as a ~130m wide band of silicified rhyolites interbedded with chloritic gneiss. The showing contains several zones of massive pyrite up to 1m in width. Within the zone, historic sampling has returned values as high as 0.38% Cu.

Marmot

The Marmot Zone occurs along strike approximately 6km to the north from the Ecstall Deposit. Two sub-vertical quartz-sericite-schist units outcrop in very steep terrain. There is no record of rock sampling on the target area although stream sediment samples indicate a favourable environment for VMS mineralization. One stream within the target area contains historic anomalous values up to 287 ppm Cu and 405 ppb Au.

Mark

The Mark showing occurs west of the Marmot Zone. Mineralization consists of quartz-sericite-schists with disseminated chalcopyrite and pyrite. The best historic rock samples from this zone are 0.14% Cu. It appears that this rhyolite schist unit is on strike with the Thirteen Creek Zone.

Ecstall (103H 011)

The Ecstall VMS Deposit occurs within Red Gulch Creek just above where it enters the Ecstall River. The deposit is hosted in chloritic schists and quartz-sericite-pyrite schists. Three separate massive sulfide lenses occur there with the North and South Lens of the Ecstall Deposit as well as the Third Outcrop Lens.

The deposit has seen 8265m of drilling in 98 holes resulting in a historic resource of 6.87mt at 0.65% Cu, 2.45% Zn, 17 g/t Ag, and 0.5 g/t Au. The Ecstall Deposit is not within the Ecstall Property. At the time of writing, the historic crown grants are owned by Peter Bojtos of Denver, Colorado.

Thirteen Creek (103H 54, 103H 53, 103H 69)

The Thirteen Creek Zone comprises the Phoebe, Elaine, and Thirteen Creek showings. The zone comprises a quartz-sericite±kyanite schist unit ranging from 50-130m wide. Mineralization is widespread along the strike of the unit with values up to 8.05% Cu and 2.4 g/t Au.

Mineralization occurs as disseminated and stringer hosted chalcopyrite. Alteration within the zone includes silification, sericite, and chlorite. Geochemical results from the zone include widespread Cu, Au, Ag, Zn, Pb, Ba soil anomalies, some of the strongest Cu and Au stream sediment anomalies within the Ecstall Belt, and widespread Cu and Au mineralization in outcrop. Historic sampling by Atna Resources (1994) includes channel samples of 0.2% Cu over 124m and 0.65% Cu over 7.5m

It is believed (D. Alldrick, personal communication) that this zone represents a stringer/feeder zone to one or more VMS deposits. The author believes that given the extent and strength of the Thirteen Creek alteration zone, potential exists for multiple VMS deposits in the vicinity.

Horsefly (103H 14, 103H 36)

The Horsefly showing comprises the Horsefly and Steelhead Minfile showings. The zone comprises several quartz-sericite-schist units that contain abundant disseminated pyrite mineralization. Additionally, narrow massive sulfides occur in outcrop in several creeks as well as in drill intercepts.

Strike

The Strike showing is located at the south end of the Ecstall Property. The area has received limited work; however, historic sampling of up to 0.17% Cu and 2.83% Zn, in addition to widespread stream geochemical anomalism makes this an interesting VMS target.

6.0 2019 Field Program

The 2019 exploration program was designed to test several areas of the Ecstall Property in advance of a 1501 line Km VTEM geophysical survey that was completed later in the summer. Given the ideal time for an airborne geophysical survey was in August, devoting an entire field program to following up the geophysical results would have been limited due to weather. Due to this, Kingfisher decided to complete an initial program of work on areas with little to no historic work. The phase 1 field program consisted of 63 rock samples, 250 soil samples, and 8 stream sediment samples. Rock samples were analysed at Bureau Veritas in Vancouver using a 4 acid digestion with ICP-MS analysis (MA200). Additionally, select rock samples were analysed for litho geochemistry using a Li₂B₄O₇/LiB₄O₇ fusion with ICP-ES analysis (LF300) for samples with less than 10% visible sulfides and Li₂B₄O₇/LiBO₂ fusion with XRF analysis (LF725) for samples with greater than 10% visible sulfides. Samples were selected for litho geochemistry to aid with building a property wide sample inventory for future interpretations. At this point, the results of litho geochemical analysis are not adequate to make any final interpretations without the aid of detailed geological and alteration mapping. Soil and stream sediment samples were

also analyzed at Bureau Veritas with a 1:1:1 Aqua Regia digestion and ultratrace ICP-MS (AQ252_EXT) analysis.

The four areas of work outlined below in Figure 1 stretch the majority of the 49Km length of the property. The field programs on the four zones are outlined below. Rock sample descriptions, analytical results, and maps displaying sample numbers and results can be found in Appendix D, E, and F

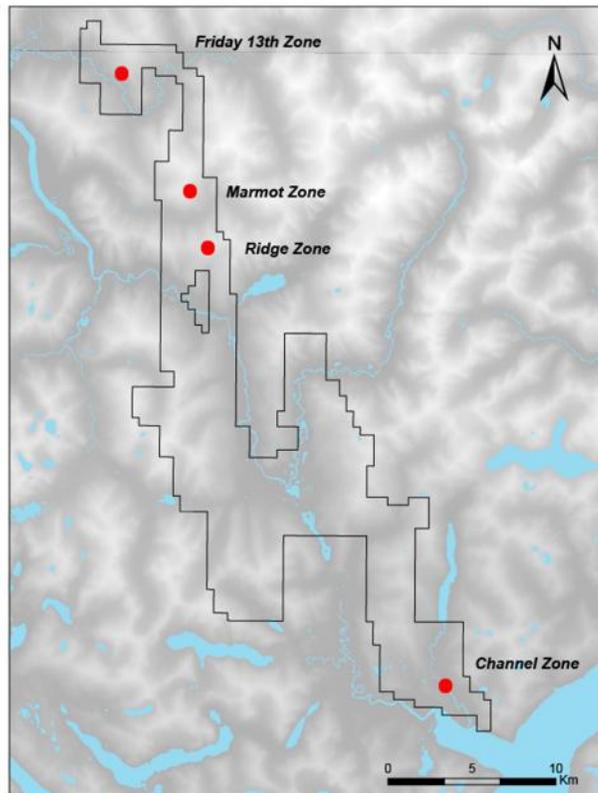


Figure 6: 2019 Phase 1 Work Areas

Friday 13th (F13) Zone

The Friday 13th Zone is an area of historically located mineralization. The area of interest was located during initial prospecting efforts on a recently built logging road. The historic showing outcrops in a road crop over ~130m and consists of rusty rhyolite schists and chloritic gneiss. The 2019 field program was designed to locate the historic mineralization since the BC Minfile showing appears to be misplaced, in addition to confirming and expanding on historic soil geochemical surveys. Historic geochemical surveys do not have any location information and are not suitable for digitization. In addition to sampling near the historic soil lines which were run just upslope of the deactivated logging road, soil samples were extended east by ~1000m and west by ~600m, and a second soil contour line was completed up upslope. In total 102 soil samples were taken and 15 rock samples were taken. Sampling returned positive results in both soil and rock sampling. Soil sampling outlined elevated Zn, Ag, Pb, and As values near the historic showing and to the west. Proximal to the mineralized showing, soil sampling returned anomalous Cu and Au values. The highest soil values in this survey returned 871.75 ppm Cu, 51.4 ppb Au, 435.2 ppm Zn, 6109 ppb Ag, and 84.24 ppm Pb.

Rock sampling was focused on the known mineralization as well to the east and west along road cuts. Prospecting was completed upslope of known mineralization and returned encouraging values including from float in a creek drainage east and north of the F13 showing. Rock sampling returned values up to 0.35% Cu and 52 ppb Au in outcrop (sample no: 3440049) from near the F13 showing within a rusted rhyolite with strong silica-sericite alteration and 10% disseminated sulfides. Up slope and east of the showing float sample (3440051) returned anomalous values for Mo (225.8 ppm), Cu (1114.2 ppm), Pb (245.8 ppm), and Co (180.9 ppm) within a rusted silicified gneiss with mineralization occurring in 1cm bands of pyrite, pyrrhotite, and chalcopyrite.

Marmot Zone

The Marmot Zone consists of an area of anomalous historic stream sediment samples with values up to 405 ppb Au and 287 ppm Cu. The 2019 program was designed to test the area where possible for mineralized rhyolite horizons. The program included several contour soil lines consisting of 110 samples. In addition to sampling the Marmot Zone, field crews spent two days evaluating the Mark showing located west of the Marmot Zone. There, field investigations included rock, soil, and stream sediment sampling. Due to the extreme topography at the Marmot Zone, and given that field crews did not have nearby helicopter support, it was decided to limit the soil sampling contours to what was deemed safe by those in the field. Although the target areas based on historic stream geochemistry were down slope of the area of work, the survey did identify several areas of interest. Rock sampling consisted of 28 samples and was focused on altered quartz-sericite rhyolite schists. At the north end of the Marmot Zone, sampling returned up to 58 ppb Au (3440021) in rusted rhyolites with laminated sulfides and 662 ppm Zn (3440028) in rusted volcanics with up to 30% massive pyrite. Uphill of the Mark showing sampling returned up to 0.11% Cu, 0.10% Zn (3440034). South of the Mark showing on a ridgeline, sampling returned up to 622.8 ppm Cu and 235 ppm Zn (3440041) from a 20m wide zone of chlorite and silica altered rhyolite.

Although rock sampling did return some anomalous values, especially at the Mark showing, it did not identify anything that would explain the strong stream sediment anomalies down slope.

Lithochemical analysis outlined one sample (3440031) with extreme silicification and desodification (93.52% SiO₂ and 0.04% NaO₂) associated with a 50cm wide zone of fracture controlled intense mariposite alteration. This subvertical zone trends 340° and is on trend with a zone of soil anomalism surrounding a rusty gully (described below). Also on the Marmot Zone, two samples taken from quartz-sericite-pyrite altered gossans (3440022 and 3440023) returned highly anomalous Ba values from the LF725 XRF whole rock analysis with 0.26% and 0.33% Ba. Together, these potentially indicate a favourable environment for VMS mineralization.

Soil sampling outlined a small area of Cu, Au, and Ag anomalism near a steeply incised gully at the north end of the Marmot Zone. Within and surrounding the gully, many of the outcrops showed intense silica-sericite-pyrite alteration as well as mariposite alteration in places. Soil samples returned up to 362.52 ppm Cu, 285.8 ppb Au, and 1479 ppb Ag. As with rock sampling, soil sampling did not outline any areas of mineralization that would explain the stream sediment anomalies down slope. However, the highly anomalous soil sample containing 285.8 ppb Au (0.29 g/t) does indicate that there may additional areas of anomalism down slope. Due safety concerns with not having a helicopter on site, the area was not adequately surveyed and future work will have to concentrate down slope of the 2019 work program.

A total of 4 stream sediment samples were taken from nearby the Mark showing. They failed to return anomalous values.

Channel Zone

The Channel Zone consists of a previously unexplored area near tidewater at Kitkiatka Inlet. Sampling was conducted on foot and by using inflatable packrafts. Field crews bushwacked up deactivated logging roads and returned via Kitkiatka Creek in the packrafts. Field crews had intended to cover more ground during this phase of work but due to extremely dense second growth forest, the program was limited in its extent. Sampling was restricted to two areas previously mapped as having quartz-sericite rhyolite schists.

Sampling consisted of 40 soil samples, 16 rock samples, and 4 stream sediment samples. Sampling was completed up slope of deactivated logging roads when possible. Soil sampling returned values up to 781.9 ppm Zn and up to 18.2 ppb Au. Soil sampling failed to outline any strongly anomalous zones although west of Kitkiatka Creek sampling did return moderately anomalous gold values. Rock sampling returned anomalous Zn values west of Kitkiatka Creek with up to 0.12% Zn (3440001) and near tidewater two showings of chalcopyrite stringer mineralization returned values up to 0.45% Cu and 0.40 g/t Au (3440008), and 0.58% Cu and 0.42 g/t Au (3440010). Both samples occurred within biotite-quartz-sericite altered schists and gniesses. Although these results are interesting, soil sampling around these areas did not return any significant anomalies. Further work is recommended for this area but it is not a high priority area.

Stream sediment sampling did not return any significant anomalies.

Ridge Zone

While mobilizing out of the field, several hours were spent on the Ridge Zone with the goal of sampling rusty sericite units to determine the host lithology and the extent of any VMS related alteration. Four rock samples were taken along the ridge line with one sample returned anomalous copper 0.16% Cu (3440059). Lithochemical analysis returned two highly anomalous values from samples 3440056 and 3440057 with SiO₂ value of 82.86% and 93.06% and NaO₂ values of 0.16% and 0.17% respectively. Although minimal information was collected at this location, extreme silicification and desodification highlight an area with potential VMS alteration.

7.0 CONCLUSIONS

The Ecstall Property covers an extensive portion of the highly prospective Ecstall Greenstone Belt. The underlying rocks belong to the Devonian Yukon-Tanana Terrane which is also host to significant VMS districts such as the Finlayson Lake District in Yukon Territory as well as the Bonnington District in Alaska. Although there has been a significant amount of historic exploration work throughout the belt, much of it remains poorly understood.

The 2019 Phase one field program served to explore several of these poorly understood areas. Through rock, soil, and silt sampling, Kingfisher outlined several areas of interest that will help with further property evaluations. Since this program was part only the first program in a three staged field season, which included airborne geophysics and additional ground work, further work programs will need to take into account all exploration in 2019. Despite this, Kingfisher highlighted several areas of interest that warrant follow up work in future exploration programs.

8.0 RECOMMENDATIONS

The following program is recommended for the Friday 13th, Marmot, and Channel Zones on the Ecstall Property:

-) Additional soil sampling, rock sampling, prospecting and mapping at the Channel Zone paying special attention to alteration vectors. Areas of work should not be limited to those worked in 2019 but should also include the areas where stringer Cu-Au mineralization was located in addition to anomalous Zn values west of Kitkiatka Creek.
-) Further prospecting at the Friday the 13th Zone in addition to further regional soil sampling north of known mineralization which can be accessed from deactivated logging roads to the west.
-) Further prospecting and soil sampling at the Marmot Zone, with a focus on exploring the lower elevation areas from the bottom up. A detailed soil sampling and prospecting program should be completed near the gully where soil samples returned values up to 285.8 ppb Au. Geologic mapping should also be completed in this area. No further work is recommended for the Mark area.
-) The Ridge Zone needs detailed mapping, prospecting, and soil sampling as it is highly prospective given its proximity to the Ecstall Deposit.

Respectfully submitted,



Dustin Perry, P.Geo.

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APPENDIX A: STATEMENT OF QUALIFICATIONS

For: Dustin Perry of 42012 Birken Rd, Squamish, B.C.

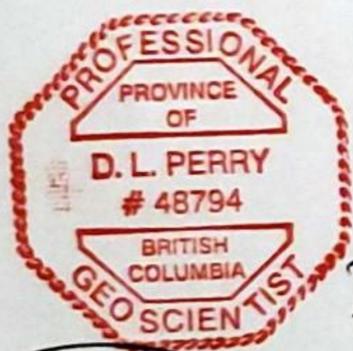
I graduated from the University of British Columbia with a Bachelor of Sciences Degree in Geology (2013);

I have been practicing my profession as a geologist in mineral exploration and mining continuously since 2010 and seasonally since 2008

The observations, conclusions and recommendations contained in the report are based on supervision of the described program, field examinations, and the evaluation of results of the exploration program completed by the operator of the property.

I am a professional geologist (#48794) registered with the Association of Professional Engineers and Geoscientists of British Columbia.

I hold a direct interest in the Ecstall Property. I am also the CEO and director for Kingfisher Resources Ltd, the current owners of the property.



Dec 19, 2019

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

Dustin Perry, P.Ge.

December 19th, 2019

Appendix B: Statement of Expenditures

Exploration Work Type	Comment	No.	Rate		Totals
Field Work					
Personnel (Name,Position)		Days	Rate	Subtotal	
Dustin Perry P.Geo, Geologist	July 6 - Aug 3	29	\$700.00	\$20,300.00	
Dave Loretto, Geologist	July 9-Aug 2	25	\$650.00	\$16,250.00	
Louis-Phillipe Morro	July 9 - Aug 3	26	\$358.73	\$9,326.85	
				\$45,876.85	\$45,876.85
Office Work		Days	Rate	Subtotal	
Report preparation	Dustin Perry, P.Geo	5	\$800.00	\$4,000.00	
GIS drafting	Dustin Perry, P.Geo	4	\$800.00	\$3,200.00	
				\$7,200.00	\$7,200.00
Geochemical Surveying	Analytical Methods	No.	Rate	Subtotal	
Rock	ICP-MS analysis incl 47 additional whole rock analyses	63	\$62.17	\$3,916.84	
Soils	ICP-MS	250	\$34.58	\$8,644.13	
Streams	ICP-MS	8	\$34.58	\$276.61	
				\$12,837.58	\$12,837.58
Transportation		No.	Rate	Subtotal	
Truck Rental	Toyota Tundra	3715	0.75	2786.25	
Trailer Rental	Cummings Trailers, Abbotsford	1	\$1,284.00	1284	
Fuel	Actual Costs	1	\$1,214.54	1214.54	
Water Taxi	Steelhead Heaven Holdings Inc.	1	\$1,312.50	\$1,312.50	
Helicopters	Summit Helicopters - Bell 407	2023.95	12.60	\$25,501.79	
				\$32,099.08	\$32,099.08
Accomodations & Food		No.	Rate	Subtotal	
Hotel				\$2,038.61	
Meals				\$2,290.81	
Groceries				\$3,294.44	
				\$7,623.86	\$7,623.86
Miscellaneous		No.	Rate	Subtotal	
Field Supplies				\$5,031.33	

Inflatable Rafts (50%)				\$3,503.85	
				\$8,535.18	\$8,535.18
Equipment Rentals		No.	Rate	Subtotal	
Radios (Orevista)	3 units	60	10	\$600.00	
Camp Radio (Orevista)		20	20	\$400.00	
Field Computer (Orevista)		20	50	\$1,000.00	
Chainsaw (Orevista)		20	25	\$500.00	
InReach Communication	3 units	3	\$123.37	\$370.10	
Camp Rental (Orevista)	\$75/pp/day	63	75	\$4,725.00	
				\$7,595.10	\$7,595.10
	TOTAL EXPENDITURES				\$121,767.65

APPENDIX C: Mineral Tenures

ECSTALL PROPERTY: MINERAL TENURES				Date:	2019-12-17	
OWNER:		Kingfisher Resources Ltd.		BC Client No.	286218	
ROYALTY:		nil		Tenures:	28	
				Area (ha):	25,017	
MINING DIVISION: Skeena			GEOGRAPHIC COORDINATES:		53° 51' 2.7"N 129° 31' 2.3"W	
LAND DISTRICT: Prince Rupert						
LOCATION: Ecstall River						
NTS: 104H11, 104H13, 104H14			UTM COORDINATES (NAD 83, ZONE 9): 465969E, 5967024N			
Tenure No.	Tenure Type	Owner	Map No.	Record Date	Good To Date	Area (ha)
1061192	Mineral	286218 (100%)	103H	2018/JUN/15	2021/JAN/25	1907.37
1061193	Mineral	286218 (100%)	103H	2018/JUN/15	2021/JAN/25	1903.50
1061194	Mineral	286218 (100%)	103H	2018/JUN/15	2021/JAN/25	1900.96
1061195	Mineral	286218 (100%)	103H	2018/JUN/15	2021/JAN/25	1852.39
1061196	Mineral	286218 (100%)	103H	2018/JUN/15	2021/JAN/25	1796.86
1063430	Mineral	286218 (100%)	103H	2018/SEP/27	2021/JAN/25	19.07
1063804	Mineral	286218 (100%)	103H	2018/OCT/16	2021/JAN/25	114.64
1065561	Mineral	286218 (100%)	103H	2019/JAN/06	2020/JAN/06	19.11
1065567	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	1854.58
1065568	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	1911.29
1065569	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	1913.36
1065570	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	1820.18
1065571	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	611.20
1065572	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	459.24
1065573	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	743.45
1065574	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	704.86
1065575	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	897.38
1065576	Mineral	286218 (100%)	103H	2019/JAN/06	2021/JAN/25	95.55
1065583	Mineral	286218 (100%)	103H	2019/JAN/07	2021/JAN/25	229.37
1069361	Mineral	286218 (100%)	103H	2019/JUN/27	2021/JAN/25	1584.27
1069363	Mineral	286218 (100%)	103H	2019/JUN/27	2021/JAN/25	1014.79
1070111	Mineral	286218 (100%)	103H	2019/AUG/04	2020/AUG/04	38.21
1070867	Mineral	286218 (100%)	103H	2019/SEP/05	2020/SEP/05	95.68
1070868	Mineral	286218 (100%)	103H	2019/SEP/05	2020/SEP/05	38.27
1071829	Mineral	286218 (100%)	103H	2019/OCT/16	2020/OCT/16	382.56
1071830	Mineral	286218 (100%)	103H	2019/OCT/16	2020/OCT/16	325.02
1072798	Mineral	286218 (100%)	103H	2019/NOV/18	2020/NOV/18	631.66
1072799	Mineral	286218 (100%)	103H	2019/NOV/18	2020/NOV/18	152.23
Total	28					25,017

APPENDIX D: ANALYTICAL REPORTS



BUREAU MINERAL LABORATORIES
VERITAS Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Kingfisher Resources Ltd.
Vancouver British Columbia Canada

Submitted By: Dustin Perry, P.Geo.
Receiving Lab: Canada-Vancouver
Received: August 07, 2019
Report Date: August 26, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN19002115.1

CLIENT JOB INFORMATION

Project: Ecstall
Shipment ID: Ecstall-01
P.O. Number
Number of Samples: 63

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kingfisher Resources Ltd.
Vancouver British Columbia
Canada

CC: David Loretto

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	63	Crush, split and pulverize 250 g rock to 200 mesh			VAN
LF300	33	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
LF725	14	Li2B4O7/LiBO2 fusion, analysis by XRF	0.4	Completed	VAN
FA430	16	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
EN002	16	Environmental disposal charge-Fire assay lead waste			VAN
MA200	63	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	63	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

Project: Ecstall
Report Date: August 26, 2019

Page: 2 of 4

Part: 1 of 5

CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	Analyte	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300										
		Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI
Unit	MDL	kg	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
3440001	Rock	0.28	53.50	17.96	13.67	2.03	3.90	2.74	1.48	0.59	0.34	0.51	<0.002	1408	<20	456	82	22	<5	12	2.8
3440002	Rock	0.64	51.09	17.05	12.33	1.82	6.31	2.18	1.79	0.49	0.35	0.58	<0.002	1090	<20	428	76	24	<5	12	5.7
3440003	Rock	0.55	44.76	19.81	11.64	3.04	12.44	0.36	1.47	0.65	0.50	0.32	<0.002	1228	<20	966	83	27	7	19	4.6
3440004	Rock	0.72	57.24	19.67	7.33	0.27	4.62	3.05	2.38	0.66	0.47	0.18	<0.002	1712	<20	751	82	21	6	11	3.7
3440005	Rock	1.22	57.98	22.95	4.34	0.80	1.46	2.62	4.89	0.77	0.45	0.05	<0.002	1971	<20	284	83	17	5	16	3.3
3440006	Rock	0.52	55.46	17.85	7.98	4.21	3.88	2.91	4.24	0.63	0.28	0.15	<0.002	1992	<20	410	127	18	6	16	2.0
3440007	Rock	1.05	58.68	15.04	6.61	2.39	7.60	2.81	2.38	0.54	0.23	0.18	<0.002	923	<20	627	89	17	8	15	3.2
3440008	Rock	1.33	56.56	16.91	8.89	3.18	3.81	2.73	3.73	0.62	0.26	0.13	<0.002	1619	<20	400	128	19	7	17	2.3
3440009	Rock	0.28	63.05	15.82	4.45	4.82	2.57	4.93	1.05	0.62	0.30	0.05	<0.002	337	<20	424	82	11	9	17	2.1
3440010	Rock	0.42	45.10	15.84	10.75	7.54	12.83	1.58	0.24	0.43	0.22	0.61	0.003	186	<20	303	54	45	<5	20	3.9
3440012	Rock	0.33	54.00	20.22	11.45	2.25	0.59	0.46	6.24	0.80	0.25	0.08	0.075	1835	164	78	77	48	<5	36	3.2
3440014	Rock	0.83	57.39	16.54	9.98	4.31	1.30	0.39	3.13	0.66	0.35	0.09	0.019	842	54	170	79	24	8	27	5.6
3440015	Rock	0.64	57.74	15.37	7.40	2.40	5.41	4.04	2.28	0.62	0.30	0.09	0.008	1060	<20	518	81	16	7	21	4.1
3440017	Rock	0.90	49.62	16.75	11.51	6.44	8.11	3.05	0.38	0.70	0.09	0.19	0.005	89	21	217	32	16	<5	37	2.9
3440018	Rock	0.49	71.90	13.19	4.80	0.37	1.29	4.15	1.42	0.38	0.05	0.02	<0.002	763	<20	67	115	16	<5	16	2.3
3440019	Rock	0.51	84.12	5.69	2.66	0.50	0.24	0.48	1.73	0.29	0.06	0.01	0.015	1618	<20	22	53	12	<5	10	3.9
3440024	Rock	0.53	78.22	11.19	2.31	0.35	1.14	5.32	0.24	0.24	0.04	0.02	<0.002	36	<20	71	77	22	<5	14	0.9
3440025	Rock	0.27	68.41	15.28	4.61	0.65	2.69	5.38	0.42	0.19	0.09	0.02	<0.002	153	<20	187	111	15	<5	4	2.2
3440026	Rock	0.20	66.55	13.87	4.55	2.29	2.63	2.36	3.01	0.63	0.33	0.02	0.007	3914	<20	981	109	21	12	15	3.1
3440031	Rock	1.29	93.52	2.74	1.44	0.22	0.03	0.04	0.73	0.12	0.02	0.03	0.015	322	<20	6	41	<3	<5	6	1.0
3440033	Rock	0.90	56.64	15.58	8.91	3.48	7.62	3.70	0.40	1.09	0.13	0.14	<0.002	126	<20	243	89	33	<5	31	2.1
3440035	Rock	0.46	51.61	16.12	9.90	7.89	5.91	4.82	0.79	0.73	0.05	0.17	0.006	243	26	109	32	17	<5	43	1.7
3440042	Rock	0.34	49.96	17.13	10.50	6.81	7.13	4.56	0.24	0.90	0.08	0.28	0.002	64	<20	160	40	20	<5	40	2.2
3440043	Rock	0.64	48.96	15.32	10.10	9.28	9.46	3.18	0.41	0.66	0.10	0.19	0.112	113	152	153	48	17	<5	42	1.9
3440052	Rock	0.44	56.21	18.61	8.00	3.60	4.19	3.93	2.91	0.87	0.17	0.13	0.002	804	<20	462	145	20	12	17	1.1
3440054	Rock	0.63	73.40	12.84	3.46	0.70	1.92	4.43	0.86	0.37	0.09	0.02	<0.002	713	<20	178	194	29	11	9	1.8
3440055	Rock	0.53	62.78	16.48	5.49	2.50	3.58	5.22	1.46	0.50	0.47	0.03	0.008	670	33	345	168	24	7	10	1.3
3440056	Rock	0.48	82.86	5.69	4.62	1.90	0.20	0.16	1.34	0.32	0.06	0.12	0.004	1364	33	28	63	13	<5	8	2.5
3440057	Rock	0.47	93.06	2.69	1.52	0.55	0.10	0.17	0.57	0.15	0.03	0.03	0.002	685	<20	21	70	7	8	5	1.0
3440058	Rock	0.42	47.73	17.96	8.91	8.26	4.87	2.76	1.35	0.63	0.07	0.14	0.031	391	84	148	41	15	<5	34	7.0



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Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

Project: Ecstall

Report Date: August 26, 2019

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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	LF300	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	FA430	MA200	MA200
Analyte	Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	Au	Mo	Cu
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.1	0.1
3440001	Rock	99.79																	0.3	9.5
3440002	Rock	99.86																	0.9	20.9
3440003	Rock	99.89																	0.5	8.4
3440004	Rock	99.86																	8.3	74.8
3440005	Rock	99.94																	5.1	22.3
3440006	Rock	99.89																	0.4	8.5
3440007	Rock	99.90																	0.4	280.3
3440008	Rock	99.38																	1.0	4472.9
3440009	Rock	99.90																	<0.1	15.1
3440010	Rock	99.10																	64.8	5766.6
3440012	Rock	99.90																	0.4	21.0
3440014	Rock	99.86																	1.4	160.2
3440015	Rock	99.92																	0.8	85.2
3440017	Rock	99.82																	0.5	108.1
3440018	Rock	99.99																	8.6	78.3
3440019	Rock	99.84																	34.6	42.5
3440024	Rock	100.00																	0.2	54.7
3440025	Rock	99.98																	5.2	92.5
3440026	Rock	99.92																	2.4	96.0
3440031	Rock	100.00																	1.8	41.8
3440033	Rock	99.85																	0.5	330.7
3440035	Rock	99.80																	0.2	38.5
3440042	Rock	99.79																	0.2	118.1
3440043	Rock	99.77																	10.6	92.7
3440052	Rock	99.90																	0.4	4.1
3440054	Rock	99.97																	3.0	37.5
3440055	Rock	99.93																	2.2	91.1
3440056	Rock	99.95																	1.2	80.0
3440057	Rock	100.00																	0.1	24.6
3440058	Rock	99.80																	<0.1	85.1



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Report Date: August 26, 2019

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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method Analyte	Unit	MDL	MA200																			
			Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
			ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%							
3440001	Rock		47.8	1210	<0.1	2.5	17.8	3897	8.74	2	1.4	4.1	448	3.2	0.4	<0.1	155	2.61	0.150	17.9	3	1.16
3440002	Rock		39.3	646	<0.1	1.8	14.1	4471	7.98	<1	1.1	4.0	415	1.1	0.3	<0.1	131	4.28	0.165	13.5	3	1.02
3440003	Rock		29.6	118	<0.1	3.0	19.3	2502	7.60	13	2.3	3.6	900	0.2	8.3	0.4	185	8.57	0.235	16.9	5	1.59
3440004	Rock		22.4	779	1.1	1.2	16.9	1323	4.74	4	3.1	3.8	645	53.4	1.3	<0.1	134	2.99	0.198	12.1	4	0.13
3440005	Rock		18.4	55	0.2	2.5	15.6	362	2.78	4	4.5	4.4	235	0.2	0.2	<0.1	180	0.74	0.188	14.2	3	0.43
3440006	Rock		7.4	94	<0.1	3.5	11.9	1136	5.15	<1	2.4	5.8	371	0.2	0.4	<0.1	171	2.51	0.111	13.8	6	2.29
3440007	Rock		13.5	72	0.6	3.1	14.1	1374	4.42	3	2.1	6.8	583	0.2	1.0	<0.1	130	5.24	0.107	16.2	5	1.39
3440008	Rock		7.6	101	17.1	3.5	19.3	987	5.78	<1	2.6	6.6	379	0.4	1.4	0.3	163	2.49	0.117	14.7	7	1.76
3440009	Rock		4.3	18	<0.1	3.0	8.0	339	2.85	2	1.3	5.1	379	<0.1	0.3	<0.1	100	1.68	0.126	5.2	10	2.66
3440010	Rock		6.1	101	15.6	5.2	15.8	4807	7.29	2	5.0	4.9	311	1.4	1.2	1.9	197	8.83	0.103	89.0	10	4.29
3440012	Rock		4.5	52	<0.1	166.3	36.0	634	7.44	1	2.4	3.0	72	<0.1	0.2	0.3	271	0.37	0.117	15.0	454	1.25
3440014	Rock		9.9	101	0.5	52.6	31.8	614	6.39	3	1.6	3.4	142	<0.1	0.3	0.4	190	0.77	0.148	12.1	108	2.36
3440015	Rock		18.9	65	0.4	16.3	22.6	748	4.87	3	2.4	6.1	461	0.3	1.1	0.3	157	3.73	0.136	15.5	49	1.39
3440017	Rock		5.4	120	0.2	20.8	29.3	1533	7.79	<1	0.6	1.2	229	0.2	0.2	1.3	303	5.76	0.045	3.9	29	3.70
3440018	Rock		6.1	75	0.3	0.6	6.6	149	3.31	6	1.5	5.8	69	0.5	0.1	1.6	13	0.83	0.022	3.4	3	0.21
3440019	Rock		4.6	64	0.5	4.8	0.5	89	1.88	<1	4.3	2.4	25	0.3	0.1	0.3	946	0.16	0.023	6.4	80	0.30
3440024	Rock		3.4	16	<0.1	0.6	1.5	168	1.49	<1	0.8	2.7	54	<0.1	0.1	0.6	30	0.70	0.016	2.8	3	0.16
3440025	Rock		3.9	19	<0.1	1.1	3.8	170	3.06	<1	0.5	1.9	163	<0.1	0.2	0.7	31	1.74	0.037	6.5	3	0.31
3440026	Rock		9.3	92	1.3	18.4	11.0	197	3.03	<1	2.3	4.9	827	0.5	0.3	<0.1	163	1.71	0.143	20.9	39	1.35
3440031	Rock		5.4	46	0.1	20.8	4.6	297	1.05	1	0.3	2.0	8	<0.1	<0.1	<0.1	46	0.02	0.009	2.2	63	0.14
3440033	Rock		16.1	97	0.3	10.3	24.9	1137	6.18	2	1.4	4.4	253	0.3	0.5	1.4	257	5.31	0.062	9.9	6	2.02
3440035	Rock		3.5	92	<0.1	25.4	33.9	1412	6.82	<1	0.6	1.5	119	<0.1	0.1	<0.1	340	4.18	0.026	2.7	35	4.69
3440042	Rock		9.8	262	0.2	19.0	34.5	2233	7.09	<1	0.5	1.4	155	0.4	0.1	0.9	351	4.95	0.037	4.4	12	3.81
3440043	Rock		15.7	123	0.1	147.6	39.3	1479	6.89	1	3.9	3.4	157	0.7	0.2	<0.1	321	6.67	0.049	15.1	530	5.33
3440052	Rock		15.2	107	<0.1	7.8	17.0	1044	5.30	<1	1.0	4.4	422	<0.1	<0.1	<0.1	129	2.83	0.072	16.1	15	1.97
3440054	Rock		19.5	65	0.4	13.2	5.8	128	2.32	1	2.8	11.0	162	0.4	0.1	0.1	40	1.21	0.041	16.8	8	0.41
3440055	Rock		11.1	38	0.2	29.7	12.6	245	3.65	1	3.4	15.0	312	<0.1	<0.1	<0.1	146	2.39	0.207	22.5	44	1.45
3440056	Rock		4.7	56	0.4	28.6	10.1	963	3.28	<1	1.8	3.1	30	0.3	<0.1	<0.1	77	0.13	0.030	10.2	22	1.17
3440057	Rock		2.5	25	<0.1	12.1	3.4	288	1.10	<1	0.6	2.6	23	<0.1	<0.1	<0.1	29	0.07	0.010	9.2	12	0.34
3440058	Rock		17.7	127	0.2	76.1	32.8	1127	5.94	1	0.5	2.2	151	0.4	0.2	<0.1	242	3.36	0.037	5.0	155	4.66



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Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

Project: Ecstall
Report Date: August 26, 2019

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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	Analyte	MA200																			
		Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	In	Re
Unit		ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm									
MDL		1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.05	0.005	
3440001	Rock	1352	0.366	8.40	2.073	1.16	0.5	0.9	37	0.7	20.2	5.6	0.3	1	11	6.5	<0.1	30.7	<0.1	0.09	<0.005
3440002	Rock	1078	0.266	7.81	1.694	1.38	0.6	1.4	28	0.7	20.6	7.2	0.3	<1	10	13.3	<0.1	34.5	<0.1	0.06	<0.005
3440003	Rock	1144	0.266	8.54	0.291	1.06	1.1	14.7	35	1.8	22.0	6.7	0.4	<1	15	16.6	<0.1	9.1	0.5	0.10	<0.005
3440004	Rock	244	0.392	8.35	2.310	1.93	0.8	2.5	28	0.8	14.7	9.0	0.4	2	8	3.0	0.8	45.7	<0.1	0.15	<0.005
3440005	Rock	175	0.412	9.39	1.967	4.07	3.5	2.8	31	0.9	15.9	9.0	0.4	2	14	8.1	0.8	143.7	<0.1	0.06	<0.005
3440006	Rock	1807	0.374	7.86	2.270	2.50	1.4	1.7	28	1.0	14.4	8.5	0.6	1	15	10.5	<0.1	79.4	0.1	<0.05	<0.005
3440007	Rock	913	0.334	7.83	2.245	2.10	0.6	2.4	31	0.9	17.4	8.7	0.8	1	15	8.2	<0.1	58.9	0.2	<0.05	<0.005
3440008	Rock	1213	0.377	7.99	2.091	2.85	2.1	2.6	31	1.1	17.1	9.4	0.6	1	15	10.3	0.5	72.4	0.1	<0.05	<0.005
3440009	Rock	323	0.130	7.43	3.817	0.75	0.2	5.8	10	0.5	8.9	1.0	<0.1	2	15	9.5	<0.1	10.3	0.2	<0.05	<0.005
3440010	Rock	200	0.120	8.55	1.289	0.20	0.3	6.7	142	5.0	49.0	0.6	<0.1	2	22	6.5	0.5	7.3	0.3	0.38	0.011
3440012	Rock	1725	0.408	9.50	0.352	3.78	5.0	1.0	34	3.0	40.7	6.5	0.4	1	33	9.6	<0.1	126.5	<0.1	0.18	<0.005
3440014	Rock	114	0.221	7.22	0.292	2.63	1.2	2.3	27	0.7	18.0	2.1	0.1	1	21	12.6	1.3	47.6	<0.1	0.10	<0.005
3440015	Rock	148	0.373	7.88	3.083	1.81	0.7	2.9	30	1.1	16.4	9.3	0.6	1	20	11.3	1.4	49.3	0.1	0.05	<0.005
3440017	Rock	99	0.416	8.63	2.330	0.31	0.2	2.0	9	3.2	15.8	1.3	<0.1	<1	33	5.5	0.4	2.4	0.1	0.30	<0.005
3440018	Rock	70	0.200	6.67	3.242	1.16	1.8	1.7	8	0.8	10.4	2.5	0.1	<1	16	3.1	0.9	14.5	<0.1	0.23	<0.005
3440019	Rock	1718	0.149	3.04	0.384	1.48	1.3	29.6	9	0.8	12.4	2.9	0.2	<1	11	2.3	<0.1	25.7	0.4	0.07	<0.005
3440024	Rock	32	0.149	4.19	3.936	0.17	0.1	2.6	7	0.7	12.7	2.4	0.2	<1	10	1.9	<0.1	1.2	<0.1	<0.05	<0.005
3440025	Rock	146	0.110	6.67	4.152	0.31	0.3	0.7	15	0.2	10.4	1.7	0.1	<1	3	2.1	0.1	3.8	<0.1	0.06	<0.005
3440026	Rock	117	0.255	6.66	1.837	2.60	1.0	2.7	40	0.9	18.1	7.0	0.4	2	14	12.1	0.9	50.2	<0.1	<0.05	<0.005
3440031	Rock	358	0.048	1.51	0.025	0.62	0.4	2.7	14	1.1	3.1	1.3	<0.1	<1	6	3.3	<0.1	23.4	0.3	<0.05	<0.005
3440033	Rock	137	0.546	8.18	2.850	0.32	0.4	3.0	22	0.9	35.1	1.9	0.1	<1	32	3.0	1.1	6.1	0.2	0.08	<0.005
3440035	Rock	258	0.462	8.61	3.797	0.66	0.1	1.8	7	0.4	19.3	1.3	<0.1	<1	43	11.0	<0.1	12.0	0.2	0.06	<0.005
3440042	Rock	64	0.445	8.78	3.490	0.20	0.2	1.9	10	0.5	18.6	1.1	<0.1	<1	31	6.8	0.5	1.3	0.2	0.12	<0.005
3440043	Rock	117	0.385	8.06	2.482	0.32	0.1	2.7	33	0.7	18.0	2.1	0.1	<1	40	8.5	0.2	7.6	0.2	<0.05	0.011
3440052	Rock	768	0.540	8.66	3.039	2.33	0.3	0.9	39	1.7	16.4	10.6	0.6	3	15	8.0	<0.1	38.7	<0.1	<0.05	<0.005
3440054	Rock	82	0.167	6.31	3.466	0.68	0.3	19.9	38	1.8	22.7	6.6	0.5	<1	8	4.0	1.0	19.0	0.5	<0.05	0.007
3440055	Rock	301	0.301	7.77	3.967	1.16	0.1	11.3	43	0.8	21.9	6.6	0.6	2	10	11.4	0.8	26.6	0.3	0.05	<0.005
3440056	Rock	1405	0.119	3.09	0.121	1.17	0.6	5.6	24	0.7	12.4	1.6	<0.1	<1	8	10.4	0.1	27.5	0.2	<0.05	<0.005
3440057	Rock	729	0.090	1.49	0.139	0.51	0.5	5.3	22	0.5	7.0	5.2	0.3	<1	5	3.9	<0.1	14.8	<0.1	<0.05	<0.005
3440058	Rock	394	0.195	9.11	2.131	1.06	1.1	0.6	11	0.2	10.3	0.8	<0.1	<1	33	15.7	<0.1	25.3	<0.1	<0.05	<0.005

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Vancouver British Columbia Canada

Project: Ecstall

Report Date: August 26, 2019

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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	MA200	MA200	MA200	
Analyte	Se	Te	Tl	
Unit	ppm	ppm	ppm	
MDL	1	0.5	0.5	
3440001	Rock	<1	<0.5	1.7
3440002	Rock	<1	<0.5	1.9
3440003	Rock	<1	1.0	<0.5
3440004	Rock	<1	<0.5	1.6
3440005	Rock	<1	<0.5	1.7
3440006	Rock	<1	0.5	0.7
3440007	Rock	<1	0.8	<0.5
3440008	Rock	6	0.6	0.6
3440009	Rock	<1	0.9	<0.5
3440010	Rock	5	3.8	<0.5
3440012	Rock	<1	<0.5	1.3
3440014	Rock	<1	1.2	0.6
3440015	Rock	1	0.8	<0.5
3440017	Rock	<1	1.3	<0.5
3440018	Rock	<1	<0.5	<0.5
3440019	Rock	23	<0.5	0.5
3440024	Rock	<1	<0.5	<0.5
3440025	Rock	<1	<0.5	<0.5
3440026	Rock	14	<0.5	<0.5
3440031	Rock	<1	<0.5	<0.5
3440033	Rock	<1	0.7	<0.5
3440035	Rock	<1	1.5	<0.5
3440042	Rock	<1	1.8	<0.5
3440043	Rock	<1	2.8	<0.5
3440052	Rock	<1	<0.5	<0.5
3440054	Rock	2	<0.5	<0.5
3440055	Rock	2	<0.5	<0.5
3440056	Rock	4	<0.5	<0.5
3440057	Rock	1	<0.5	<0.5
3440058	Rock	<1	1.5	<0.5



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300											
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
3440059	Rock	0.91	50.54	14.88	15.95	4.82	1.30	1.51	2.32	0.63	0.05	0.08	0.005	516	20	53	66	26	<5	29	7.5
3440554	Rock	1.01	76.28	12.65	2.65	0.56	0.79	1.24	3.21	0.23	0.03	0.01	<0.002	507	<20	45	268	36	8	8	2.2
3440556	Rock	0.92	78.04	9.92	4.21	0.77	0.28	0.31	3.18	0.19	0.01	0.04	<0.002	571	<20	25	500	52	20	<1	2.9
3440020	Rock	0.78																			
3440021	Rock	0.92																			
3440022	Rock	0.83																			
3440023	Rock	0.57																			
3440030	Rock	0.77																			
3440036	Rock	0.38																			
3440040	Rock	0.40																			
3440041	Rock	0.63																			
3440044	Rock	1.92																			
3440045	Rock	0.60																			
3440046	Rock	0.45																			
3440047	Rock	3.09																			
3440050	Rock	0.34																			
3440555	Rock	0.98																			
3440011	Rock	0.92																			
3440013	Rock	1.88																			
3440016	Rock	0.36																			
3440027	Rock	1.05																			
3440028	Rock	0.45																			
3440029	Rock	0.67																			
3440032	Rock	0.94																			
3440034	Rock	0.40																			
3440037	Rock	0.29																			
3440038	Rock	0.85																			
3440048	Rock	0.35																			
3440049	Rock	0.89																			
3440051	Rock	1.16																			

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



BUREAU VERITAS MINERAL LABORATORIES
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Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

Project: Ecstall
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CERTIFICATE OF ANALYSIS

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Method	LF300	LF725	FA430	MA200	MA200																
Analyte	Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	Au	Mo	Cu	
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.1	0.1	
3440059	Rock	99.68																		0.8	1596.4
3440554	Rock	99.98																		21.9	14.9
3440556	Rock	99.97																		4.6	9.7
3440020	Rock		62.93	15.88	5.94	2.23	3.31	2.89	0.09	0.43	0.14	<0.01	0.11	<0.01	<0.01	<0.01	4.2	99.17		3.0	14.1
3440021	Rock		74.69	4.41	9.74	1.17	4.46	0.18	0.09	0.24	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	4.2	99.34		1.7	53.1
3440022	Rock		60.76	15.51	7.22	0.89	0.75	5.12	0.03	1.88	0.62	<0.01	0.26	<0.01	<0.01	<0.01	4.0	98.88		2.2	9.6
3440023	Rock		62.88	15.31	4.91	0.22	0.77	8.57	0.03	2.10	0.30	<0.01	0.33	<0.01	<0.01	<0.01	3.8	99.70		2.0	19.0
3440030	Rock		42.25	15.86	15.06	3.03	5.04	2.36	0.12	2.96	0.30	0.01	0.11	0.04	<0.01	0.01	10.4	98.02		3.8	429.0
3440036	Rock		51.74	13.69	14.73	3.32	6.92	1.36	0.29	0.72	0.06	<0.01	0.02	<0.01	<0.01	0.03	5.9	99.73		0.7	108.5
3440040	Rock		66.18	12.03	8.24	2.21	3.25	2.11	0.16	0.93	0.13	<0.01	0.13	0.02	<0.01	<0.01	1.8	99.55		0.4	272.6
3440041	Rock		51.83	16.13	11.46	6.25	6.28	0.71	0.18	0.56	0.05	0.02	<0.01	0.06	<0.01	0.02	3.9	99.62		0.5	622.8
3440044	Rock		72.61	11.75	6.35	0.08	1.09	3.87	0.05	0.19	<0.01	<0.01	0.09	0.02	<0.01	<0.01	3.6	99.95		2.6	293.2
3440045	Rock		68.72	14.10	5.59	0.27	1.26	4.40	0.05	0.27	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	3.6	98.76		4.2	11.0
3440046	Rock		71.82	14.49	3.75	0.41	0.66	2.63	0.13	0.23	0.02	<0.01	0.19	<0.01	<0.01	<0.01	1.5	99.75		1.8	110.9
3440047	Rock		65.18	15.73	5.74	1.92	1.61	2.82	0.14	0.30	0.07	<0.01	0.20	0.02	<0.01	<0.01	2.1	98.93		32.0	230.5
3440050	Rock		75.54	9.85	6.20	0.11	0.74	2.94	0.04	0.16	<0.01	<0.01	0.09	0.02	<0.01	<0.01	3.4	99.38		1.0	290.7
3440555	Rock		59.54	14.89	8.06	4.68	2.55	2.14	0.17	1.03	0.39	<0.01	0.04	<0.01	<0.01	<0.01	2.7	98.54		3.0	29.1
3440011	Rock																		<0.005	14.0	92.1
3440013	Rock																		<0.005	2.7	160.5
3440016	Rock																		<0.005	7.9	204.8
3440027	Rock																		0.005	3.2	266.4
3440028	Rock																		0.016	98.2	240.1
3440029	Rock																		0.011	1.9	214.2
3440032	Rock																		<0.005	2.4	32.7
3440034	Rock																		<0.005	1.3	1088.4
3440037	Rock																		0.269	4.7	728.2
3440038	Rock																		0.005	0.5	118.2
3440048	Rock																		<0.005	2.0	113.3
3440049	Rock																		0.052	1.1	3545.0
3440051	Rock																		0.007	225.8	1114.2



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200																			
		Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
Unit		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm							
MDL		0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	1	0.01	0.001	0.1	1	0.01
3440059	Rock	7.2	126	1.1	19.8	27.0	644	10.63	<1	1.8	3.0	53	0.6	<0.1	2.2	235	0.85	0.026	6.6	29	2.77
3440554	Rock	13.1	55	<0.1	0.6	1.5	93	1.82	2	3.5	16.0	44	0.4	<0.1	0.3	12	0.44	0.013	27.0	3	0.30
3440556	Rock	80.5	119	0.2	0.9	0.2	342	3.00	16	2.8	16.1	25	0.2	0.2	0.5	2	0.18	0.007	43.2	5	0.46
3440020	Rock	38.8	98	<0.1	6.6	11.6	521	3.88	8	2.7	10.7	108	<0.1	<0.1	1.0	119	1.31	0.065	18.1	15	1.90
3440021	Rock	15.6	109	0.2	24.1	17.1	513	6.55	28	0.2	0.9	11	0.5	0.3	<0.1	66	0.83	0.013	1.1	48	2.66
3440022	Rock	12.3	25	0.4	2.9	7.8	107	4.86	14	<0.1	2.2	76	<0.1	0.3	<0.1	115	0.53	0.255	17.6	4	0.43
3440023	Rock	27.7	19	0.4	4.5	6.7	90	3.27	25	0.1	1.9	87	<0.1	0.7	0.1	137	0.15	0.124	17.3	16	0.43
3440030	Rock	16.9	137	6.0	87.4	54.6	765	9.30	<1	1.4	1.2	72	0.6	0.7	0.4	437	1.85	0.114	10.2	95	2.79
3440036	Rock	5.4	311	0.3	13.4	30.3	2093	9.15	5	0.9	1.5	40	0.6	<0.1	0.9	288	2.26	0.026	3.3	21	3.85
3440040	Rock	5.2	92	0.2	4.3	24.6	1193	5.39	1	1.2	4.0	59	0.1	<0.1	0.2	124	1.46	0.057	6.9	5	1.88
3440041	Rock	8.5	235	0.4	53.0	43.1	1282	7.22	3	0.3	1.0	152	0.7	0.2	0.6	223	4.24	0.023	2.0	111	3.43
3440044	Rock	8.1	44	0.1	0.9	3.6	211	4.25	8	2.4	12.1	16	<0.1	<0.1	3.1	4	0.05	0.005	38.8	3	0.62
3440045	Rock	28.4	61	<0.1	0.5	0.2	270	3.64	4	5.2	15.0	16	<0.1	<0.1	0.4	2	0.17	0.005	57.8	3	0.71
3440046	Rock	7.6	39	<0.1	1.2	1.0	796	2.35	<1	0.8	10.8	60	0.2	<0.1	0.2	3	0.25	0.011	14.2	3	0.39
3440047	Rock	33.1	53	0.2	1.9	7.8	880	3.71	14	4.5	24.5	371	0.1	<0.1	0.2	17	1.10	0.029	64.9	3	0.92
3440050	Rock	7.6	24	0.1	0.9	1.7	116	4.13	8	2.8	10.5	27	<0.1	<0.1	2.9	3	0.07	0.003	30.4	3	0.42
3440555	Rock	28.2	84	0.1	1.4	14.3	1169	5.26	5	2.7	9.4	177	0.2	0.2	1.9	92	3.27	0.167	26.6	5	1.43
3440011	Rock	10.7	48	0.1	65.7	22.4	73	2.95	1	2.6	3.1	417	<0.1	0.4	0.1	159	0.50	0.196	10.8	79	1.45
3440013	Rock	11.6	84	0.3	128.0	53.5	612	6.02	4	2.0	3.7	257	0.1	0.5	0.4	221	1.85	0.173	9.9	173	2.68
3440016	Rock	18.1	122	0.5	75.8	34.2	311	6.83	64	1.6	2.7	83	0.1	0.2	0.7	207	0.24	0.110	8.9	132	1.41
3440027	Rock	11.3	110	4.2	56.2	34.0	356	6.10	<1	1.5	2.2	822	1.1	0.5	0.2	342	2.22	0.165	8.0	35	2.98
3440028	Rock	8.1	662	4.0	156.0	18.3	278	5.82	<1	12.3	5.0	169	15.2	1.1	0.9	505	1.08	0.133	17.6	125	1.47
3440029	Rock	6.5	24	6.3	147.9	16.5	257	13.99	39	0.1	0.1	9	0.1	0.9	0.4	15	0.16	0.009	0.3	9	0.34
3440032	Rock	9.1	29	0.5	32.5	24.3	212	3.96	8	<0.1	0.9	101	0.1	0.4	0.1	138	0.74	0.105	7.7	101	0.62
3440034	Rock	12.4	1009	0.8	87.3	32.4	2678	12.88	<1	0.6	2.5	80	0.9	0.1	0.6	249	3.10	0.041	6.6	562	7.26
3440037	Rock	110.7	767	3.9	7.1	61.3	826	12.94	27	1.0	1.9	30	3.6	<0.1	14.4	183	0.70	0.023	3.3	7	1.92
3440038	Rock	24.9	266	0.1	40.4	32.7	1211	5.57	2	0.9	2.8	142	0.7	<0.1	0.3	186	3.28	0.040	8.0	76	3.10
3440048	Rock	26.6	61	0.1	4.2	13.0	1033	6.40	2	1.5	6.9	76	<0.1	<0.1	1.1	101	1.53	0.066	16.8	7	2.02
3440049	Rock	18.9	143	2.2	2.2	8.7	149	2.79	18	1.6	10.9	37	0.9	0.3	6.8	11	0.10	0.003	35.2	5	0.36
3440051	Rock	245.8	180	0.6	6.2	180.9	2770	14.89	<1	1.7	3.7	1326	1.2	0.3	5.8	349	10.85	0.086	19.0	5	2.00



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200																			
		Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	In	Re
Unit		ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL		1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.05	0.005	
3440059	Rock	101	0.163	7.34	1.159	1.95	1.4	1.9	16	2.3	20.0	0.5	<0.1	<1	28	10.8	2.0	27.5	<0.1	1.65	<0.005
3440554	Rock	378	0.136	5.94	0.885	2.54	1.7	9.2	57	2.7	28.8	7.1	0.3	1	7	2.9	0.6	88.7	0.4	0.06	0.014
3440556	Rock	60	0.120	4.92	0.241	2.51	1.9	5.9	88	6.3	48.7	21.0	1.2	3	<1	4.7	1.4	70.6	0.1	0.05	<0.005
3440020	Rock	41	0.124	7.41	0.794	2.34	0.4	12.6	34	1.7	13.2	1.1	<0.1	<1	9	9.9	2.6	44.1	0.4	0.06	<0.005
3440021	Rock	11	0.079	2.45	0.047	0.17	<0.1	0.9	2	0.1	5.1	0.3	<0.1	<1	9	3.8	3.7	7.2	<0.1	<0.05	<0.005
3440022	Rock	41	0.354	7.45	1.305	4.04	1.1	1.9	50	2.2	16.3	3.2	0.2	1	12	13.4	2.4	75.3	<0.1	<0.05	<0.005
3440023	Rock	112	0.421	7.58	0.346	6.01	1.7	2.0	46	1.7	15.6	4.1	0.3	<1	16	12.5	1.3	129.0	<0.1	<0.05	<0.005
3440030	Rock	39	1.076	7.51	0.303	1.93	2.7	8.1	30	1.3	33.7	9.6	0.6	2	34	18.9	5.5	65.8	0.3	0.08	<0.005
3440036	Rock	187	0.234	7.26	0.604	1.09	<0.1	1.2	8	1.2	19.4	0.4	<0.1	<1	37	13.0	2.8	27.6	0.4	0.16	<0.005
3440040	Rock	96	0.555	6.29	1.738	1.81	0.4	0.7	17	3.0	29.5	2.6	0.2	<1	25	10.5	0.9	38.2	<0.1	0.21	<0.005
3440041	Rock	127	0.254	8.06	1.577	0.53	<0.1	1.3	5	1.1	15.4	0.7	<0.1	<1	30	5.5	2.5	5.5	0.1	0.08	<0.005
3440044	Rock	37	0.128	5.85	0.178	3.18	2.1	8.6	86	12.0	45.3	18.1	1.1	2	<1	7.0	3.0	81.5	0.1	0.12	<0.005
3440045	Rock	61	0.169	6.94	0.286	3.76	1.1	5.4	125	6.8	78.4	23.7	1.3	5	<1	6.5	2.6	98.1	0.1	0.08	<0.005
3440046	Rock	1780	0.151	6.89	2.752	2.19	0.7	4.3	31	3.4	14.4	17.9	0.9	2	4	4.6	0.2	50.6	0.3	0.06	<0.005
3440047	Rock	171	0.186	7.51	2.240	2.36	1.1	9.8	123	2.3	24.6	36.8	1.7	5	4	8.9	0.6	67.7	0.3	<0.05	<0.005
3440050	Rock	28	0.103	4.98	0.231	2.41	1.4	6.0	69	7.7	41.8	15.1	0.8	1	<1	4.8	3.1	58.6	0.1	0.15	<0.005
3440555	Rock	130	0.357	7.72	1.745	1.76	0.8	4.0	56	1.9	39.2	2.3	0.1	1	18	8.5	2.0	69.2	0.1	0.13	<0.005
3440011	Rock	58	0.109	6.77	1.298	2.53	1.4	13.9	23	0.8	6.0	0.9	<0.1	<1	17	9.8	1.6	76.8	0.4	<0.05	0.018
3440013	Rock	179	0.214	8.09	0.324	3.16	2.3	5.5	22	1.1	11.6	1.0	<0.1	1	25	12.4	1.8	40.0	0.2	0.13	0.007
3440016	Rock	54	0.175	7.05	0.142	3.01	1.3	5.8	19	1.0	5.5	0.7	<0.1	<1	17	8.1	2.1	32.7	0.2	0.10	0.100
3440027	Rock	53	0.273	8.30	2.422	1.88	0.3	3.5	16	1.1	14.1	3.7	0.2	2	30	27.4	4.3	55.0	0.1	<0.05	<0.005
3440028	Rock	83	0.198	4.69	0.316	1.86	4.6	10.7	34	1.8	31.9	2.7	0.2	1	11	21.1	3.9	68.3	0.2	<0.05	0.198
3440029	Rock	15	0.029	0.63	0.063	0.16	0.2	0.3	<1	0.1	1.0	0.3	<0.1	<1	1	4.8	>10	7.4	<0.1	<0.05	<0.005
3440032	Rock	38	0.361	8.59	2.736	3.38	1.1	1.7	22	1.3	10.1	2.8	0.2	2	19	10.8	2.7	70.4	<0.1	<0.05	<0.005
3440034	Rock	29	0.479	9.79	1.353	0.08	0.2	1.2	16	0.8	16.4	2.3	0.1	<1	41	13.1	1.0	0.9	0.1	0.32	<0.005
3440037	Rock	18	0.309	5.43	0.815	0.97	0.5	0.3	8	5.3	19.9	1.2	<0.1	<1	20	7.2	8.7	9.3	<0.1	2.06	0.008
3440038	Rock	290	0.300	7.55	3.029	0.64	<0.1	1.4	18	0.7	24.6	1.2	<0.1	<1	28	10.1	1.7	10.6	0.1	0.08	<0.005
3440048	Rock	39	0.196	7.51	2.351	2.07	0.4	1.9	36	0.6	15.4	0.9	<0.1	2	13	9.4	5.0	65.8	<0.1	<0.05	<0.005
3440049	Rock	48	0.102	5.13	0.275	2.39	1.2	3.8	74	7.2	38.3	11.9	0.6	1	<1	5.0	1.8	47.4	<0.1	1.38	<0.005
3440051	Rock	22	0.496	10.50	0.639	0.14	0.6	7.9	36	1.1	16.6	4.3	0.2	<1	18	4.0	5.3	0.9	0.4	0.16	0.153



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	Analyte	MA200	MA200	MA200
		Se	Te	Tl
Unit		ppm	ppm	ppm
MDL		1	0.5	0.5
3440059	Rock	7	1.9	0.7
3440554	Rock	2	<0.5	<0.5
3440556	Rock	1	<0.5	0.5
3440020	Rock	<1	<0.5	0.7
3440021	Rock	<1	<0.5	<0.5
3440022	Rock	<1	<0.5	0.8
3440023	Rock	<1	<0.5	3.4
3440030	Rock	12	<0.5	2.4
3440036	Rock	2	1.0	<0.5
3440040	Rock	2	<0.5	<0.5
3440041	Rock	4	0.8	<0.5
3440044	Rock	7	<0.5	<0.5
3440045	Rock	<1	<0.5	0.6
3440046	Rock	<1	<0.5	<0.5
3440047	Rock	<1	<0.5	<0.5
3440050	Rock	7	<0.5	<0.5
3440555	Rock	<1	<0.5	<0.5
3440011	Rock	<1	<0.5	0.6
3440013	Rock	1	0.7	0.5
3440016	Rock	<1	<0.5	<0.5
3440027	Rock	62	<0.5	2.8
3440028	Rock	51	0.5	1.8
3440029	Rock	55	1.7	<0.5
3440032	Rock	<1	<0.5	0.8
3440034	Rock	2	0.7	<0.5
3440037	Rock	8	5.3	<0.5
3440038	Rock	2	<0.5	<0.5
3440048	Rock	4	0.6	<0.5
3440049	Rock	8	<0.5	<0.5
3440051	Rock	3	1.1	<0.5



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	WGHT	LF300																			
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm								
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
3440053	Rock	0.95																			
3440552	Rock	0.44																			
3440553	Rock	0.70																			



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	LF300	LF725	FA430	MA200	MA200															
Analyte	Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	Au	Mo	Cu
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.1	0.1
3440053	Rock																	<0.005	1.2	300.5
3440552	Rock																	<0.005	1.6	78.0
3440553	Rock																	0.007	0.4	43.3



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	MA200																				
Analyte	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	%								
MDL	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	1	0.01	
3440053	Rock	10.3	146	0.2	79.6	46.6	1359	6.40	<1	0.1	0.7	216	0.8	<0.1	<0.1	192	4.12	0.099	10.1	103	2.90
3440552	Rock	8.9	87	0.7	47.9	12.2	303	3.96	<1	1.0	4.8	90	<0.1	<0.1	0.2	168	0.84	0.048	16.5	192	1.67
3440553	Rock	6.2	32	0.3	17.1	25.3	165	5.71	3	<0.1	0.7	50	<0.1	0.1	<0.1	168	0.47	0.126	6.6	106	0.71



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	Analyte	MA200																			
		Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	In	Re
Unit		ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm									
MDL		1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.05	0.005
3440053	Rock	48	0.272	6.34	2.306	0.23	0.1	2.6	24	0.9	28.0	0.9	<0.1	1	30	3.0	1.5	6.1	0.2	0.11	<0.005
3440552	Rock	583	0.229	6.11	0.620	1.96	0.6	8.0	35	0.9	10.1	2.8	0.2	<1	18	13.5	0.3	59.9	0.2	<0.05	<0.005
3440553	Rock	34	0.423	7.06	0.857	4.28	1.3	1.1	22	1.4	11.7	1.7	0.1	<1	26	12.9	3.2	90.4	<0.1	<0.05	<0.005



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CERTIFICATE OF ANALYSIS

VAN19002115.1

Method	Analyte	MA200	MA200	MA200
		Se	Te	Tl
Unit		ppm	ppm	ppm
MDL		1	0.5	0.5
3440053	Rock	2	<0.5	<0.5
3440552	Rock	1	<0.5	1.3
3440553	Rock	2	<0.5	0.9



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QUALITY CONTROL REPORT

VAN19002115.1

Method	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300											
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
3440018	Rock	0.49	71.90	13.19	4.80	0.37	1.29	4.15	1.42	0.38	0.05	0.02	<0.002	763	<20	67	115	16	<5	16	2.3
3440047	Rock	3.09																			
Pulp Duplicates																					
3440019	Rock	0.51	84.12	5.69	2.66	0.50	0.24	0.48	1.73	0.29	0.06	0.01	0.015	1618	<20	22	53	12	<5	10	3.9
REP 3440019	QC		84.39	5.53	2.64	0.48	0.23	0.47	1.68	0.28	0.06	0.01	0.014	1605	<20	22	51	11	<5	10	3.9
3440554	Rock	1.01	76.28	12.65	2.65	0.56	0.79	1.24	3.21	0.23	0.03	0.01	<0.002	507	<20	45	268	36	8	8	2.2
REP 3440554	QC																				
3440020	Rock	0.78																			
REP 3440020	QC																				
3440552	Rock	0.44																			
REP 3440552	QC																				
Core Reject Duplicates																					
3440005	Rock	1.22	57.98	22.95	4.34	0.80	1.46	2.62	4.89	0.77	0.45	0.05	<0.002	1971	<20	284	83	17	5	16	3.3
DUP 3440005	QC		58.11	22.79	4.35	0.79	1.46	2.61	4.94	0.76	0.46	0.05	<0.002	1987	<20	284	83	17	9	16	3.3
Reference Materials																					
STD OREAS25A-4A	Standard																				
STD OREAS25A-4A	Standard																				
STD OREAS45E	Standard																				
STD OREAS45H	Standard																				
STD OREAS72B	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD SO-19	Standard		59.97	14.13	7.65	2.95	5.99	4.06	1.32	0.70	0.33	0.13	0.508	472	483	317	117	35	73	27	1.9
STD SO-19	Standard		60.27	14.05	7.64	2.95	5.93	3.98	1.29	0.70	0.32	0.13	0.492	473	477	317	115	35	71	27	1.9
STD SY-4(D)	Standard																				
STD OREAS45E Expected																					
STD OREAS25A-4A Expected																					
STD OREAS45H Expected																					



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QUALITY CONTROL REPORT

VAN19002115.1

Method	LF300	LF725	FA430	MA200	MA200																
Analyte	Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	Au	Mo	Cu	
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.1	0.1	
3440018	Rock	99.99																		8.6	78.3
3440047	Rock		65.18	15.73	5.74	1.92	1.61	2.82	0.14	0.30	0.07	<0.01	0.20	0.02	<0.01	<0.01	2.1	98.93		32.0	230.5
Pulp Duplicates																					
3440019	Rock	99.84																		34.6	42.5
REP 3440019	QC	99.84																			
3440554	Rock	99.98																		21.9	14.9
REP 3440554	QC																			21.7	15.7
3440020	Rock		62.93	15.88	5.94	2.23	3.31	2.89	0.09	0.43	0.14	<0.01	0.11	<0.01	<0.01	<0.01	4.2	99.17		3.0	14.1
REP 3440020	QC		62.78	15.89	5.99	2.23	3.32	2.86	0.09	0.43	0.15	<0.01	0.11	<0.01	<0.01	<0.01	4.2	99.09			
3440552	Rock																		<0.005	1.6	78.0
REP 3440552	QC																			1.3	80.3
Core Reject Duplicates																					
3440005	Rock	99.94																		5.1	22.3
DUP 3440005	QC	99.95																		5.8	20.2
Reference Materials																					
STD OREAS25A-4A	Standard																			2.2	34.6
STD OREAS25A-4A	Standard																			2.4	34.2
STD OREAS45E	Standard																			2.3	822.4
STD OREAS45H	Standard																			1.6	785.7
STD OREAS72B	Standard		51.16	8.94	9.98	3.96	16.15	1.32	0.15	0.35	0.06	0.14	0.03	0.02	<0.01	0.02	5.1	98.74			
STD OXC145	Standard																			0.205	
STD OXH139	Standard																			1.281	
STD OXN134	Standard																			7.435	
STD SO-19	Standard	99.86																			
STD SO-19	Standard	99.87																			
STD SY-4(D)	Standard		50.09	20.83	6.18	8.00	0.53	1.66	0.11	0.28	0.14	<0.01	0.04	<0.01	<0.01	<0.01	4.6	99.57			
STD OREAS45E Expected																				2.4	780
STD OREAS25A-4A Expected																				2.41	33.9
STD OREAS45H Expected																				1.55	767



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QUALITY CONTROL REPORT

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Method	Analyte	MA200																			
		Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
Unit		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%						
MDL		0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.001	0.1	1	0.01	
3440018	Rock	6.1	75	0.3	0.6	6.6	149	3.31	6	1.5	5.8	69	0.5	0.1	1.6	13	0.83	0.022	3.4	3	0.21
3440047	Rock	33.1	53	0.2	1.9	7.8	880	3.71	14	4.5	24.5	371	0.1	<0.1	0.2	17	1.10	0.029	64.9	3	0.92
Pulp Duplicates																					
3440019	Rock	4.6	64	0.5	4.8	0.5	89	1.88	<1	4.3	2.4	25	0.3	0.1	0.3	946	0.16	0.023	6.4	80	0.30
REP 3440019	QC																				
3440554	Rock	13.1	55	<0.1	0.6	1.5	93	1.82	2	3.5	16.0	44	0.4	<0.1	0.3	12	0.44	0.013	27.0	3	0.30
REP 3440554	QC	13.4	54	<0.1	0.7	1.5	89	1.74	2	3.7	16.6	45	0.4	<0.1	0.3	11	0.43	0.014	27.0	3	0.32
3440020	Rock	38.8	98	<0.1	6.6	11.6	521	3.88	8	2.7	10.7	108	<0.1	<0.1	1.0	119	1.31	0.065	18.1	15	1.90
REP 3440020	QC																				
3440552	Rock	8.9	87	0.7	47.9	12.2	303	3.96	<1	1.0	4.8	90	<0.1	<0.1	0.2	168	0.84	0.048	16.5	192	1.67
REP 3440552	QC	8.9	90	0.7	47.4	12.5	317	4.02	<1	1.0	4.6	87	<0.1	<0.1	0.2	166	0.83	0.046	16.1	182	1.68
Core Reject Duplicates																					
3440005	Rock	18.4	55	0.2	2.5	15.6	362	2.78	4	4.5	4.4	235	0.2	0.2	<0.1	180	0.74	0.188	14.2	3	0.43
DUP 3440005	QC	17.4	56	0.2	2.4	15.6	388	2.77	4	4.8	4.4	221	0.2	0.2	<0.1	183	0.73	0.208	13.9	3	0.43
Reference Materials																					
STD OREAS25A-4A	Standard	24.9	45	<0.1	46.0	7.6	486	6.51	10	2.9	16.4	45	<0.1	0.6	0.3	167	0.28	0.051	21.2	113	0.31
STD OREAS25A-4A	Standard	27.2	44	<0.1	46.5	7.8	492	6.55	11	3.1	17.6	47	<0.1	0.6	0.4	152	0.28	0.047	23.2	117	0.34
STD OREAS45E	Standard	19.4	49	0.3	507.7	60.3	592	24.37	17	2.5	14.9	17	<0.1	1.2	0.2	360	0.06	0.033	11.8	967	0.16
STD OREAS45H	Standard	13.5	35	0.1	443.6	99.4	436	20.46	17	1.8	8.6	29	<0.1	0.6	0.2	273	0.14	0.022	14.3	631	0.27
STD OREAS72B	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SY-4(D)	Standard																				
STD OREAS45E Expected		18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11	979	0.156
STD OREAS25A-4A Expected		25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8	115	0.327
STD OREAS45H Expected		11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135	0.023	12.4	602	0.238



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QUALITY CONTROL REPORT

VAN19002115.1

Method	Analyte	MA200																			
		Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	In	Re
Unit		ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm									
MDL		1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	1	0.1	1	1	0.1	0.1	0.1	0.1	0.05	0.005
3440018	Rock	70	0.200	6.67	3.242	1.16	1.8	1.7	8	0.8	10.4	2.5	0.1	<1	16	3.1	0.9	14.5	<0.1	0.23	<0.005
3440047	Rock	171	0.186	7.51	2.240	2.36	1.1	9.8	123	2.3	24.6	36.8	1.7	5	4	8.9	0.6	67.7	0.3	<0.05	<0.005
Pulp Duplicates																					
3440019	Rock	1718	0.149	3.04	0.384	1.48	1.3	29.6	9	0.8	12.4	2.9	0.2	<1	11	2.3	<0.1	25.7	0.4	0.07	<0.005
REP 3440019	QC																				
3440554	Rock	378	0.136	5.94	0.885	2.54	1.7	9.2	57	2.7	28.8	7.1	0.3	1	7	2.9	0.6	88.7	0.4	0.06	0.014
REP 3440554	QC	511	0.132	5.64	0.945	2.55	1.7	9.6	57	2.6	28.9	7.0	0.3	<1	7	2.8	0.6	89.1	0.4	0.06	0.008
3440020	Rock	41	0.124	7.41	0.794	2.34	0.4	12.6	34	1.7	13.2	1.1	<0.1	<1	9	9.9	2.6	44.1	0.4	0.06	<0.005
REP 3440020	QC																				
3440552	Rock	583	0.229	6.11	0.620	1.96	0.6	8.0	35	0.9	10.1	2.8	0.2	<1	18	13.5	0.3	59.9	0.2	<0.05	<0.005
REP 3440552	QC	436	0.232	6.00	0.584	1.94	0.6	9.6	33	0.9	10.2	2.7	0.2	<1	18	11.7	0.3	59.9	0.2	0.05	<0.005
Core Reject Duplicates																					
3440005	Rock	175	0.412	9.39	1.967	4.07	3.5	2.8	31	0.9	15.9	9.0	0.4	2	14	8.1	0.8	143.7	<0.1	0.06	<0.005
DUP 3440005	QC	181	0.428	9.55	2.047	4.13	3.5	2.9	31	1.0	15.5	8.8	0.4	1	14	7.8	0.8	139.9	<0.1	<0.05	<0.005
Reference Materials																					
STD OREAS25A-4A	Standard	144	0.994	9.06	0.116	0.49	1.9	150.3	45	4.0	10.2	19.6	1.4	<1	12	35.9	<0.1	59.9	4.3	0.11	<0.005
STD OREAS25A-4A	Standard	147	0.961	9.65	0.127	0.51	2.0	162.6	50	4.1	11.3	21.3	1.5	<1	12	38.4	<0.1	64.0	4.7	0.11	<0.005
STD OREAS45E	Standard	269	0.589	7.39	0.055	0.35	1.1	102.3	25	1.3	8.6	6.5	0.5	<1	96	6.9	<0.1	22.2	2.8	0.14	<0.005
STD OREAS45H	Standard	368	0.888	8.67	0.089	0.23	1.0	132.0	26	2.1	10.8	15.1	1.0	1	58	14.7	<0.1	24.2	3.4	0.15	<0.005
STD OREAS72B	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SY-4(D)	Standard																				
STD OREAS45E Expected		252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11	0.099	
STD OREAS25A-4A Expected		147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14	0.09	
STD OREAS45H Expected		332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1		22.5	3.6	0.1	



Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Kingfisher Resources Ltd.
Vancouver British Columbia Canada

Project: Ecstall
Report Date: August 26, 2019

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QUALITY CONTROL REPORT

VAN19002115.1

Method Analyte	Unit	MA200	MA200	MA200
		Se	Te	Tl
MDL		ppm	ppm	ppm
		1	0.5	0.5
3440018	Rock	<1	<0.5	<0.5
3440047	Rock	<1	<0.5	<0.5
Pulp Duplicates				
3440019	Rock	23	<0.5	0.5
REP 3440019	QC			
3440554	Rock	2	<0.5	<0.5
REP 3440554	QC	2	<0.5	<0.5
3440020	Rock	<1	<0.5	0.7
REP 3440020	QC			
3440552	Rock	1	<0.5	1.3
REP 3440552	QC	2	<0.5	1.1
Core Reject Duplicates				
3440005	Rock	<1	<0.5	1.7
DUP 3440005	QC	<1	<0.5	1.8
Reference Materials				
STD OREAS25A-4A	Standard	2	<0.5	<0.5
STD OREAS25A-4A	Standard	2	<0.5	<0.5
STD OREAS45E	Standard	2	<0.5	<0.5
STD OREAS45H	Standard	2	<0.5	<0.5
STD OREAS72B	Standard			
STD OXC145	Standard			
STD OXH139	Standard			
STD OXN134	Standard			
STD SO-19	Standard			
STD SO-19	Standard			
STD SY-4(D)	Standard			
STD OREAS45E Expected		2.97	0.1	0.15
STD OREAS25A-4A Expected		2.4		0.35
STD OREAS45H Expected		2.02		



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QUALITY CONTROL REPORT

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	WGHT	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300											
	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	
	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	%							
	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1	
STD SO-19 Expected		61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27		
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OXN134 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0	
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	70.45	14.27	3.32	1.00	2.23	4.59	1.93	0.36	0.09	0.09	<0.002	797	<20	201	127	16	<5	7	1.5	
ROCK-VAN	Prep Blank	69.93	14.41	3.38	1.04	2.28	4.62	1.96	0.37	0.09	0.09	0.002	802	<20	203	136	17	<5	7	1.7	



QUALITY CONTROL REPORT

VAN19002115.1

	LF300	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	FA430	MA200	MA200	
	Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	Au	Mo	Cu	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.1	0.01	0.005	0.1	0.1	
STD SO-19 Expected																					
STD SY-4(D) Expected		49.9	20.69	6.21	0	0.54	1.66	0.108	0.287	0.131		0.034				4.56					
STD OREAS72B Expected		51.16	8.97	9.724	3.96	15.933	1.313	0.13	0.355	0.061	0.142	0.0335	0.0193			5.12					
STD OXC145 Expected																				0.212	
STD OXH139 Expected																				1.312	
STD OXN134 Expected																				7.667	
BLK	Blank																			<0.1	0.1
BLK	Blank																			<0.1	<0.1
BLK	Blank	<0.01																			
SI BLK	Blank	98.50	0.33	<0.01	<0.01	0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	98.85				
BLK	Blank																			<0.005	
BLK	Blank																			<0.005	
Prep Wash																					
ROCK-VAN	Prep Blank	99.96	70.33	13.98	3.44	2.20	0.99	1.91	0.11	0.34	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.9	99.01	<0.005	0.9	6.7
ROCK-VAN	Prep Blank	99.96	70.53	14.07	3.40	2.23	1.01	1.94	0.11	0.35	0.09	<0.01	0.08	<0.01	<0.01	<0.01	0.9	99.40	<0.005	1.0	6.8



Bureau Veritas Commodities Canada Ltd.

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Client: **Kingfisher Resources Ltd.**
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QUALITY CONTROL REPORT

VAN19002115.1

		MA200	MA200	MA200																		
		Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	%								
		0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	1	0.01	
STD SO-19 Expected																						
STD SY-4(D) Expected																						
STD OREAS72B Expected																						
STD OXC145 Expected																						
STD OXH139 Expected																						
STD OXN134 Expected																						
BLK	Blank	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	<1	<0.01	
BLK	Blank	<0.1	<1	<0.1	0.2	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	<1	<0.01	
BLK	Blank																					
SI BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
ROCK-VAN	Prep Blank	3.7	43	<0.1	2.2	4.6	685	2.27	1	1.1	3.1	197	<0.1	0.1	<0.1	39	1.43	0.041	11.3	5	0.58	
ROCK-VAN	Prep Blank	3.0	44	<0.1	1.8	4.5	698	2.29	2	1.1	2.8	190	<0.1	0.2	<0.1	41	1.45	0.039	10.5	6	0.59	



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QUALITY CONTROL REPORT

VAN19002115.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	In	Re	
		ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm										
		1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	0.05	0.005	
STD SO-19 Expected																						
STD SY-4(D) Expected																						
STD OREAS72B Expected																						
STD OXC145 Expected																						
STD OXH139 Expected																						
STD OXN134 Expected																						
BLK	Blank	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.005	
BLK	Blank	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.005	
BLK	Blank																					
SI BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
ROCK-VAN	Prep Blank	823	0.206	7.02	3.449	1.52	0.2	50.0	22	0.8	15.2	5.3	0.4	1	7	2.6	<0.1	31.9	1.6	<0.05	<0.005	
ROCK-VAN	Prep Blank	809	0.214	7.03	3.496	1.52	0.3	51.4	22	0.7	14.3	5.4	0.4	<1	7	3.0	<0.1	29.1	1.7	0.05	<0.005	



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QUALITY CONTROL REPORT

VAN19002115.1

		MA200	MA200	MA200
		Se	Te	Tl
		ppm	ppm	ppm
		1	0.5	0.5
STD SO-19 Expected				
STD SY-4(D) Expected				
STD OREAS72B Expected				
STD OXC145 Expected				
STD OXH139 Expected				
STD OXN134 Expected				
BLK	Blank	<1	<0.5	<0.5
BLK	Blank	<1	<0.5	<0.5
BLK	Blank			
SI BLK	Blank			
BLK	Blank			
BLK	Blank			
Prep Wash				
ROCK-VAN	Prep Blank	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: Kingfisher Resources Ltd.
Vancouver British Columbia Canada

Submitted By: Dustin Perry, P.Geo.
Receiving Lab: Canada-Vancouver
Received: August 07, 2019
Report Date: August 27, 2019
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN19002116.1

CLIENT JOB INFORMATION

Project: Ecstall
Shipment ID: Ecstall-01
P.O. Number
Number of Samples: 258

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	258	Dry at 60C			VAN
SS80	258	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	258	Save all or part of Soil Reject			VAN
AQ252_EXT	258	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kingfisher Resources Ltd.
Vancouver British Columbia
Canada

CC: David Loretto



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

Project: Ecstall
Report Date: August 27, 2019

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN19002116.1

Method	Analyte	AQ252																				
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3440201	Stream	0.79	40.67	3.70	64.5	55	36.6	19.9	864	3.31	4.5	0.3	3.1	0.9	25.2	0.12	0.11	0.04	83	0.53	0.119	
3440202	Stream	0.63	37.48	3.34	61.5	61	34.0	18.9	663	3.17	4.5	0.3	8.7	1.0	23.4	0.11	0.20	0.04	81	0.49	0.103	
3440203	Stream	0.70	38.56	3.32	58.5	55	33.9	17.1	677	3.17	6.5	0.3	2.8	1.2	24.2	0.13	0.17	0.05	79	0.50	0.116	
3440204	Stream	0.71	36.08	2.95	54.6	63	31.3	17.4	699	2.98	4.3	0.2	4.7	1.0	24.1	0.12	0.15	0.08	77	0.50	0.119	
3440205	Stream	0.41	55.85	1.12	50.2	59	18.9	16.3	387	2.26	0.3	1.3	1.8	6.3	5.2	0.18	0.09	0.03	60	0.33	0.046	
3440206	Stream	0.27	34.64	1.34	34.5	27	14.7	9.6	380	1.81	<0.1	5.5	0.9	18.4	7.3	0.03	<0.02	<0.02	36	0.33	0.065	
3440207	Stream	0.34	30.36	1.58	32.5	26	10.5	8.2	295	1.74	0.2	2.5	0.9	10.1	5.5	0.02	<0.02	0.02	37	0.23	0.048	
3440208	Stream	0.55	49.71	1.16	41.9	32	15.2	11.9	325	1.93	0.5	2.0	0.4	10.7	9.5	0.07	<0.02	<0.02	45	0.28	0.053	
3440209	Stream	0.56	50.85	2.31	71.1	32	30.3	16.4	428	2.56	<0.1	0.6	0.8	3.9	30.4	0.07	<0.02	<0.02	61	0.71	0.139	
3440551	Soil	0.56	24.15	3.35	33.7	347	8.5	8.2	315	2.18	2.1	0.4	3.9	1.7	15.7	0.09	0.10	0.04	42	0.21	0.094	
3440301	Soil	0.22	6.33	3.45	8.1	44	7.3	2.0	47	0.67	0.4	0.4	3.1	0.7	1.4	0.02	<0.02	0.16	19	0.02	0.023	
3440302	Soil	0.32	4.41	6.80	8.2	134	4.3	1.0	45	0.64	0.3	0.3	1.8	0.8	4.6	0.01	<0.02	0.17	42	0.01	0.016	
3440303	Soil	1.06	22.19	5.29	30.3	220	7.6	5.1	535	3.36	0.3	0.6	1.9	1.3	3.7	0.04	0.04	0.16	82	0.04	0.032	
3440304	Soil	0.36	5.86	5.31	10.2	103	10.2	3.5	164	2.04	0.4	0.3	5.2	0.6	4.9	0.04	0.03	0.13	107	0.09	0.039	
3440305	Soil	0.24	13.91	2.20	53.6	32	41.5	15.2	268	4.34	<0.1	0.3	1.0	0.6	5.4	0.06	0.12	0.04	128	0.07	0.060	
3440306	Soil	2.96	7.05	6.55	11.5	265	2.6	0.9	32	2.87	14.4	0.3	17.2	0.2	2.5	0.04	0.10	0.29	41	0.02	0.053	
3440307	Soil	0.63	71.94	4.02	44.1	96	31.1	19.0	804	4.17	0.5	0.6	0.9	1.3	3.5	0.09	<0.02	0.09	144	0.11	0.037	
3440308	Soil	0.69	98.85	4.80	56.0	72	52.0	24.7	1327	5.01	0.7	0.7	2.0	1.4	3.2	0.12	<0.02	0.07	192	0.13	0.043	
3440309	Soil	1.05	63.12	4.87	40.5	73	35.9	20.2	1096	4.49	0.4	0.8	1.2	1.3	6.0	0.07	<0.02	0.08	155	0.20	0.049	
3440310	Soil	0.77	67.53	3.20	32.1	33	47.1	20.4	867	4.06	0.8	0.6	<0.2	1.9	2.3	0.06	<0.02	0.08	128	0.12	0.034	
3440311	Soil	1.18	47.96	5.64	37.9	65	32.4	18.1	1883	4.24	0.7	0.9	1.7	1.7	2.5	0.05	0.03	0.14	121	0.09	0.055	
3440312	Soil	1.38	36.03	5.83	57.4	70	17.5	11.5	446	4.58	0.3	1.3	1.0	1.7	4.0	0.10	<0.02	0.08	141	0.09	0.047	
3440313	Soil	0.55	74.04	2.44	43.9	68	15.8	18.1	361	3.54	0.3	0.8	0.6	0.8	2.5	0.04	<0.02	0.05	130	0.07	0.041	
3440314	Soil	1.25	27.10	6.96	49.0	83	25.5	8.5	382	3.71	0.4	0.9	<0.2	0.6	2.8	0.11	<0.02	0.08	121	0.07	0.057	
3440315	Soil	1.01	24.78	3.78	24.5	50	12.4	13.6	992	4.57	0.6	0.5	0.7	0.5	1.7	0.10	<0.02	0.09	115	0.14	0.043	
3440316	Soil	1.12	72.62	1.96	64.4	63	21.7	14.0	464	3.52	0.3	0.6	1.1	0.6	2.8	0.16	<0.02	0.13	114	0.07	0.035	
3440317	Soil	0.67	11.20	2.26	11.1	113	3.4	1.7	86	1.74	0.4	0.4	8.0	0.3	1.9	0.03	<0.02	0.74	64	0.05	0.030	
3440318	Soil	0.60	18.32	2.48	15.7	67	5.8	4.1	181	2.43	0.5	0.4	0.9	0.5	2.9	0.03	<0.02	0.08	81	0.09	0.036	
3440319	Soil	0.82	29.52	1.70	35.5	52	6.1	9.0	324	3.18	0.4	0.6	1.2	1.1	3.7	0.04	<0.02	0.03	61	0.08	0.042	
3440320	Soil	0.73	31.39	3.07	20.0	78	7.8	6.6	117	2.64	0.4	0.5	<0.2	2.2	2.1	0.03	<0.02	0.06	65	0.12	0.032	



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Vancouver British Columbia Canada

Project: Ecstall
Report Date: August 27, 2019

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CERTIFICATE OF ANALYSIS

VAN19002116.1

Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm						
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
3440201	Stream	1.4	65.4	1.54	261.3	0.162	<1	2.09	0.022	0.65	0.1	3.9	0.23	0.02	23	0.4	0.08	5.1	3.01	0.1	<0.02
3440202	Stream	1.4	66.3	1.47	244.3	0.158	<1	1.99	0.021	0.64	0.2	3.8	0.22	0.03	5	0.3	0.08	4.8	2.84	<0.1	<0.02
3440203	Stream	1.5	69.3	1.43	257.7	0.161	2	1.98	0.020	0.62	0.2	3.6	0.21	0.04	<5	0.2	0.06	4.5	2.83	<0.1	<0.02
3440204	Stream	1.2	62.5	1.42	250.5	0.163	<1	1.89	0.016	0.62	0.2	3.2	0.19	0.03	<5	0.2	0.08	4.2	2.87	<0.1	<0.02
3440205	Stream	1.6	35.4	1.07	126.3	0.126	<1	1.35	0.014	0.29	0.2	2.8	0.11	0.05	<5	0.2	0.03	3.6	0.54	<0.1	<0.02
3440206	Stream	7.7	26.4	0.86	138.9	0.131	<1	1.16	0.010	0.44	0.2	2.2	0.18	<0.02	<5	<0.1	<0.02	3.3	0.65	0.1	<0.02
3440207	Stream	5.4	20.1	0.78	95.4	0.130	<1	1.30	0.010	0.32	0.1	2.1	0.13	<0.02	<5	<0.1	<0.02	3.6	0.57	<0.1	<0.02
3440208	Stream	4.3	31.0	0.94	136.5	0.115	<1	1.25	0.017	0.35	0.3	2.3	0.13	<0.02	<5	<0.1	0.02	3.4	0.46	<0.1	<0.02
3440209	Stream	3.7	50.4	1.14	174.8	0.181	<1	1.50	0.046	0.38	<0.1	2.9	0.11	<0.02	<5	0.1	<0.02	5.2	0.45	0.1	<0.02
3440551	Soil	2.5	16.4	0.73	123.3	0.114	<1	1.78	0.006	0.30	0.1	1.7	0.18	0.03	68	0.8	0.05	3.4	1.41	<0.1	<0.02
3440301	Soil	4.5	8.4	0.21	101.7	0.051	1	0.52	0.003	0.07	<0.1	0.7	0.05	0.02	8	0.2	0.03	3.4	1.34	<0.1	<0.02
3440302	Soil	3.2	8.5	0.10	49.2	0.120	<1	0.50	0.003	0.05	<0.1	1.0	0.05	<0.02	5	0.2	<0.02	7.0	1.08	<0.1	<0.02
3440303	Soil	4.0	14.9	0.39	64.8	0.170	<1	1.35	0.005	0.12	<0.1	4.4	0.07	0.03	29	0.9	0.05	10.9	1.24	<0.1	<0.02
3440304	Soil	3.0	45.2	0.26	18.8	0.180	<1	1.01	0.010	0.01	<0.1	1.8	0.04	0.04	20	0.2	<0.02	10.3	0.58	<0.1	<0.02
3440305	Soil	5.4	102.0	1.41	34.5	0.201	<1	3.48	0.008	0.07	<0.1	5.7	0.03	0.05	72	0.6	0.02	10.8	1.04	<0.1	<0.02
3440306	Soil	3.0	7.2	0.02	45.2	0.060	<1	0.40	0.003	0.04	<0.1	0.3	0.22	0.07	38	1.1	0.11	3.9	0.69	<0.1	<0.02
3440307	Soil	3.2	115.1	1.67	57.7	0.164	<1	3.97	0.013	0.21	<0.1	7.8	0.13	0.05	63	1.1	<0.02	9.7	0.97	0.1	0.07
3440308	Soil	2.2	174.9	2.13	50.7	0.174	<1	4.01	0.011	0.21	0.1	10.3	0.14	0.05	64	1.2	<0.02	11.8	1.49	<0.1	0.04
3440309	Soil	5.7	135.3	1.62	44.8	0.151	<1	4.71	0.037	0.18	<0.1	8.3	0.11	0.06	86	1.1	<0.02	13.4	0.95	<0.1	0.14
3440310	Soil	2.8	152.0	1.30	15.8	0.094	<1	2.59	0.015	0.03	<0.1	6.7	0.09	0.04	77	1.2	<0.02	10.6	0.68	<0.1	0.06
3440311	Soil	3.3	133.0	1.17	21.9	0.118	<1	2.58	0.011	0.05	<0.1	5.4	0.13	0.05	71	1.4	<0.02	13.0	1.07	<0.1	0.05
3440312	Soil	6.9	52.2	1.21	91.6	0.096	<1	4.34	0.010	0.10	<0.1	8.6	0.14	0.05	131	1.4	<0.02	10.7	0.37	<0.1	0.03
3440313	Soil	4.5	35.7	1.57	34.1	0.105	<1	3.22	0.011	0.06	<0.1	5.7	0.10	0.03	60	0.6	0.02	8.2	0.53	<0.1	<0.02
3440314	Soil	5.7	103.2	1.37	30.1	0.082	<1	3.31	0.010	0.03	<0.1	3.9	0.10	0.05	85	0.9	<0.02	12.0	0.45	<0.1	0.06
3440315	Soil	2.4	40.5	0.98	8.1	0.111	<1	1.95	0.024	0.02	<0.1	3.0	0.04	0.04	75	0.9	<0.02	12.3	0.38	<0.1	0.03
3440316	Soil	2.2	56.9	1.04	41.2	0.106	<1	2.75	0.010	0.07	0.3	6.6	0.15	0.04	56	1.1	0.07	7.6	0.54	<0.1	0.03
3440317	Soil	1.2	10.7	0.24	14.0	0.077	<1	0.76	0.006	0.03	<0.1	1.6	0.04	0.03	31	0.4	<0.02	10.0	0.74	<0.1	<0.02
3440318	Soil	1.4	18.8	0.50	22.7	0.124	<1	1.36	0.009	0.07	<0.1	2.1	0.04	0.04	112	0.5	<0.02	9.1	0.71	<0.1	<0.02
3440319	Soil	1.9	16.5	0.95	95.2	0.130	<1	2.74	0.009	0.39	<0.1	2.9	0.12	0.05	50	0.9	<0.02	6.8	1.13	<0.1	<0.02
3440320	Soil	3.1	16.9	0.67	8.2	0.091	<1	2.57	0.016	0.03	<0.1	4.0	0.03	0.04	52	0.7	<0.02	9.4	0.27	<0.1	0.15



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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppb	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	2
3440201	Stream	0.43	25.0	0.3	<0.05	<0.1	2.49	3.0	<0.02	1	0.2	14.8	<10	<2
3440202	Stream	0.36	25.0	0.2	<0.05	<0.1	2.18	2.9	<0.02	1	0.2	13.5	<10	<2
3440203	Stream	0.41	25.0	0.3	<0.05	1.0	2.41	2.9	<0.02	<1	0.2	13.8	<10	<2
3440204	Stream	0.47	25.4	0.3	<0.05	<0.1	2.08	2.5	<0.02	<1	0.2	13.7	<10	<2
3440205	Stream	0.30	11.5	0.3	<0.05	<0.1	1.80	3.0	<0.02	<1	<0.1	6.1	<10	<2
3440206	Stream	0.58	22.6	0.3	<0.05	<0.1	3.87	14.0	<0.02	<1	<0.1	5.9	<10	<2
3440207	Stream	0.73	16.7	0.3	<0.05	<0.1	3.15	10.4	<0.02	<1	<0.1	5.6	<10	<2
3440208	Stream	0.36	15.0	0.2	<0.05	0.1	2.29	7.4	<0.02	<1	<0.1	5.6	<10	<2
3440209	Stream	1.00	17.0	0.4	<0.05	0.6	2.75	7.7	<0.02	<1	0.2	6.9	<10	<2
3440551	Soil	1.01	14.0	0.2	<0.05	<0.1	2.03	4.5	<0.02	<1	0.3	5.3	<10	<2
3440301	Soil	1.43	5.4	0.7	<0.05	0.1	1.04	10.0	<0.02	<1	<0.1	1.2	<10	<2
3440302	Soil	1.68	4.5	0.8	<0.05	0.1	1.14	6.6	<0.02	<1	<0.1	1.0	<10	<2
3440303	Soil	1.64	6.6	1.2	<0.05	0.3	2.63	8.1	0.03	<1	0.2	3.3	<10	<2
3440304	Soil	2.41	1.3	1.0	<0.05	<0.1	1.99	5.8	<0.02	<1	0.1	2.3	<10	<2
3440305	Soil	3.43	4.3	0.8	<0.05	0.4	2.74	10.8	0.04	<1	0.3	16.5	<10	<2
3440306	Soil	1.87	5.7	1.1	<0.05	0.4	1.98	6.3	<0.02	<1	<0.1	0.3	<10	<2
3440307	Soil	2.07	11.6	0.5	<0.05	3.5	2.66	6.9	0.03	<1	0.3	12.9	<10	<2
3440308	Soil	1.63	14.4	0.5	<0.05	2.7	2.13	4.5	0.05	<1	0.2	12.5	<10	<2
3440309	Soil	8.04	13.7	1.7	<0.05	10.2	4.47	11.8	0.04	<1	0.4	8.4	<10	<2
3440310	Soil	2.76	3.7	0.6	<0.05	2.9	2.58	5.8	0.03	<1	0.1	6.7	<10	<2
3440311	Soil	2.73	5.2	1.0	<0.05	3.3	2.77	7.1	0.03	<1	<0.1	6.6	<10	<2
3440312	Soil	2.50	4.2	0.7	<0.05	1.8	4.99	12.9	0.04	<1	0.3	6.9	<10	<2
3440313	Soil	0.70	2.5	0.3	<0.05	0.6	4.17	9.5	0.02	<1	<0.1	9.5	<10	<2
3440314	Soil	5.31	3.3	1.2	<0.05	2.9	5.72	10.8	0.03	<1	0.2	9.1	<10	<2
3440315	Soil	4.29	1.6	1.0	<0.05	2.5	2.54	4.7	0.04	<1	<0.1	4.2	<10	<2
3440316	Soil	1.67	5.2	0.5	<0.05	1.6	3.99	4.9	0.03	<1	0.1	8.1	<10	<2
3440317	Soil	2.64	2.5	1.2	<0.05	0.6	1.66	2.6	<0.02	<1	<0.1	1.3	<10	<2
3440318	Soil	1.21	3.4	0.5	<0.05	0.4	1.62	2.9	<0.02	<1	<0.1	2.4	<10	<2
3440319	Soil	1.78	14.8	0.3	<0.05	0.7	1.82	3.7	<0.02	<1	0.2	6.1	<10	<2
3440320	Soil	8.41	1.5	1.4	<0.05	10.8	3.37	6.4	0.02	<1	0.1	2.6	<10	<2



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Method Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3440321	Soil		0.41	5.65	2.80	4.0	113	4.4	1.6	26	0.66	<0.1	0.4	1.7	0.6	1.6	0.02	<0.02	0.09	53	0.06	0.042	
3440322	Soil		0.81	8.76	3.04	31.3	58	3.8	7.0	190	3.32	0.2	0.7	0.4	1.9	5.9	0.04	<0.02	0.03	69	0.09	0.043	
3440323	Soil		1.49	18.37	2.18	50.4	62	6.5	12.3	299	3.52	<0.1	1.7	<0.2	8.0	4.5	0.02	0.02	0.03	65	0.08	0.022	
3440324	Soil		0.40	10.65	2.24	41.7	73	7.0	10.0	299	3.99	0.3	1.4	<0.2	6.1	3.4	0.03	<0.02	0.05	86	0.06	0.021	
3440325	Soil		0.07	1.14	6.36	10.5	11	2.3	1.6	81	0.60	<0.1	0.5	0.6	1.4	3.4	0.03	0.05	0.05	25	0.03	0.011	
3440326	Soil		0.05	2.60	5.19	39.0	30	3.1	5.0	326	2.06	<0.1	0.8	<0.2	4.7	4.3	0.01	0.02	0.05	36	0.04	0.016	
3440327	Soil		4.04	83.66	7.64	93.0	215	33.3	10.4	711	4.03	<0.1	1.5	4.5	1.9	14.1	0.15	0.05	0.18	148	0.05	0.055	
3440328	Soil		0.50	45.10	4.18	35.0	161	6.5	5.9	183	3.94	<0.1	0.5	1.8	0.8	2.5	0.17	<0.02	0.07	93	0.04	0.038	
3440329	Soil		0.86	77.69	7.94	36.4	196	19.0	14.2	934	2.99	0.7	0.8	3.7	1.4	7.6	0.11	0.05	0.12	73	0.06	0.034	
3440330	Soil		1.26	244.80	6.83	35.6	250	25.2	17.3	817	3.33	0.6	0.5	9.7	0.8	4.0	0.05	0.04	0.11	131	0.18	0.057	
3440331	Soil		1.23	28.34	8.25	44.6	226	19.5	10.4	772	2.07	<0.1	0.6	4.5	0.5	2.6	0.04	<0.02	0.17	63	0.04	0.051	
3440332	Soil		0.99	42.70	8.32	46.7	344	30.4	11.7	549	2.99	0.3	1.1	3.6	0.6	4.1	0.13	0.02	0.18	63	0.04	0.062	
3440333	Soil		1.12	17.19	5.78	23.1	226	5.9	3.0	317	2.49	0.4	0.5	0.3	1.9	1.6	0.05	<0.02	0.16	73	0.01	0.023	
3440334	Soil		1.29	30.64	6.59	80.2	159	28.0	8.8	286	4.19	<0.1	0.7	2.6	2.6	27.0	0.12	0.05	0.11	166	0.05	0.045	
3440335	Soil		1.70	67.33	4.83	40.7	216	62.1	13.9	428	4.14	1.2	0.6	1.3	1.3	2.9	0.07	0.04	0.10	135	0.06	0.050	
3440336	Soil		0.65	90.84	5.59	45.9	103	38.6	18.8	918	4.90	0.2	0.6	1.3	1.2	3.0	0.10	0.03	0.11	179	0.09	0.048	
3440337	Soil		0.36	51.12	3.84	34.2	48	30.9	14.1	549	3.88	0.1	0.4	0.8	0.9	2.3	0.04	0.02	0.07	141	0.10	0.029	
3440338	Soil		0.39	94.04	4.71	40.8	32	50.3	17.2	391	4.16	0.6	0.6	1.1	1.3	2.4	0.04	<0.02	0.03	130	0.12	0.037	
3440339	Soil		1.25	62.76	6.93	47.0	48	35.8	15.8	796	5.48	1.1	0.9	0.5	1.9	2.7	0.05	0.03	0.10	156	0.09	0.044	
3440340	Soil		0.79	29.82	4.65	48.5	72	11.7	9.0	297	3.50	<0.1	0.6	<0.2	0.7	3.2	0.09	<0.02	0.05	133	0.09	0.044	
3440341	Soil		0.43	59.31	2.82	41.5	56	20.8	20.8	528	3.36	0.5	0.8	<0.2	1.8	2.4	0.03	<0.02	0.04	96	0.10	0.029	
3440342	Soil		0.35	60.09	1.94	37.3	29	20.8	13.6	339	2.81	0.3	0.4	<0.2	0.7	1.5	0.11	<0.02	0.03	80	0.11	0.024	
3440343	Soil		0.48	22.06	2.26	26.2	91	13.4	9.3	207	2.18	0.2	0.3	<0.2	0.3	1.6	0.09	<0.02	0.07	88	0.08	0.038	
3440344	Soil		0.48	59.82	1.07	27.8	66	7.4	11.2	328	2.64	0.3	0.6	5.0	1.5	1.8	0.03	<0.02	0.73	49	0.05	0.026	
3440345	Soil		1.00	31.15	1.94	28.4	76	13.5	6.9	174	2.73	0.1	0.4	<0.2	0.7	3.9	0.03	<0.02	0.06	76	0.11	0.033	
3440346	Soil		0.37	61.71	1.30	56.1	83	15.9	9.9	333	2.85	0.2	0.5	3.7	1.0	8.4	0.04	<0.02	<0.02	61	0.08	0.030	
3440347	Soil		1.07	164.66	1.54	42.7	99	6.6	11.3	394	3.27	0.2	0.7	5.9	1.5	3.7	0.06	<0.02	0.03	66	0.06	0.022	
3440348	Soil		0.34	53.86	1.61	29.1	75	6.8	7.5	244	2.59	0.4	0.3	1.6	0.8	3.5	0.02	<0.02	0.03	59	0.10	0.027	
3440349	Soil		0.44	30.95	1.78	42.9	48	5.4	10.3	376	3.71	<0.1	0.4	<0.2	1.1	5.6	0.03	<0.02	0.04	81	0.07	0.038	
3440350	Soil		0.45	7.26	2.87	11.0	240	5.7	3.5	82	1.28	0.4	0.3	0.3	1.6	2.2	0.03	<0.02	0.12	54	0.07	0.025	



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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm						
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
3440321	Soil	1.0	35.7	0.15	4.2	0.082	<1	0.61	0.006	0.01	<0.1	1.9	<0.02	0.06	40	<0.1	<0.02	4.4	0.61	<0.1	0.05
3440322	Soil	2.5	10.0	0.76	86.0	0.155	<1	1.78	0.010	0.25	<0.1	1.9	0.10	0.06	56	0.5	<0.02	8.2	0.81	<0.1	0.02
3440323	Soil	2.4	15.4	1.30	229.8	0.206	2	2.92	0.010	0.60	0.1	2.7	0.18	0.03	45	0.6	<0.02	6.6	1.18	0.1	<0.02
3440324	Soil	3.7	15.8	1.14	182.5	0.209	1	2.66	0.009	0.47	<0.1	3.5	0.14	0.02	36	0.4	<0.02	8.5	0.86	0.2	<0.02
3440325	Soil	1.5	4.0	0.25	20.6	0.152	<1	0.50	0.005	0.16	<0.1	0.8	0.07	<0.02	6	<0.1	<0.02	8.0	0.36	<0.1	<0.02
3440326	Soil	2.8	6.0	0.94	49.6	0.197	<1	1.74	0.009	0.47	<0.1	2.3	0.22	<0.02	28	0.2	<0.02	11.2	1.05	0.2	<0.02
3440327	Soil	8.1	59.4	1.03	134.2	0.165	1	3.79	0.005	0.45	0.1	9.8	0.27	0.05	109	2.3	0.06	10.3	2.54	<0.1	<0.02
3440328	Soil	3.7	14.8	0.61	247.7	0.164	1	1.95	0.008	0.22	<0.1	4.4	0.06	0.04	86	0.8	0.02	13.3	1.00	<0.1	<0.02
3440329	Soil	6.3	28.6	0.56	61.6	0.084	1	1.71	0.008	0.05	<0.1	3.7	0.08	0.04	75	0.9	0.04	9.2	0.72	<0.1	0.04
3440330	Soil	4.0	33.4	0.51	373.1	0.098	1	1.73	0.018	0.13	0.1	4.8	0.06	0.05	54	1.1	0.08	9.8	0.80	<0.1	0.03
3440331	Soil	4.5	27.9	0.41	152.6	0.087	1	1.41	0.006	0.14	<0.1	1.6	0.10	0.06	82	0.6	0.04	9.5	1.03	<0.1	<0.02
3440332	Soil	7.2	30.3	0.57	165.0	0.068	2	1.93	0.007	0.14	<0.1	2.3	0.11	0.06	110	1.1	0.05	9.4	1.31	<0.1	<0.02
3440333	Soil	3.0	7.2	0.15	60.8	0.164	1	0.72	0.004	0.06	<0.1	1.8	0.03	<0.02	40	0.4	0.06	10.0	0.76	<0.1	0.06
3440334	Soil	6.5	82.5	1.49	318.1	0.179	1	2.99	0.006	0.56	<0.1	9.5	0.37	0.06	62	2.2	0.09	10.2	1.44	0.2	<0.02
3440335	Soil	3.2	118.4	1.28	38.2	0.188	1	2.77	0.010	0.13	<0.1	5.4	0.17	0.05	54	1.7	0.04	9.6	1.09	<0.1	0.02
3440336	Soil	2.1	127.5	1.88	14.7	0.185	2	3.46	0.007	0.04	<0.1	7.0	0.14	0.06	74	1.7	0.03	13.3	0.81	<0.1	0.04
3440337	Soil	1.8	124.4	1.50	11.1	0.160	2	2.71	0.010	0.04	<0.1	5.5	0.05	0.03	40	1.4	<0.02	9.9	0.74	<0.1	<0.02
3440338	Soil	2.5	171.3	1.76	27.6	0.115	<1	3.25	0.008	0.07	<0.1	8.4	0.05	0.03	68	1.1	<0.02	10.3	0.64	<0.1	<0.02
3440339	Soil	4.3	144.0	1.52	22.6	0.138	1	3.63	0.016	0.05	0.1	8.5	0.12	0.05	89	1.3	<0.02	15.1	0.77	<0.1	0.13
3440340	Soil	3.3	35.4	0.95	41.3	0.093	<1	2.57	0.011	0.06	<0.1	6.0	0.11	0.05	58	1.0	<0.02	9.7	0.36	<0.1	<0.02
3440341	Soil	6.1	36.8	1.69	89.5	0.145	<1	2.91	0.013	0.25	<0.1	3.9	0.11	0.02	41	0.6	<0.02	8.5	0.77	<0.1	<0.02
3440342	Soil	2.0	36.2	1.28	22.5	0.085	<1	2.10	0.014	0.05	<0.1	3.6	0.04	0.02	34	0.6	<0.02	6.5	0.32	<0.1	0.03
3440343	Soil	1.2	42.6	0.80	12.2	0.090	<1	1.25	0.013	0.02	<0.1	2.1	0.07	0.04	54	0.4	0.04	6.1	0.48	<0.1	<0.02
3440344	Soil	2.3	15.0	0.69	51.6	0.089	<1	1.77	0.008	0.22	0.6	7.1	0.12	0.02	28	0.4	0.13	6.4	1.02	<0.1	0.04
3440345	Soil	1.4	34.9	0.94	26.2	0.153	<1	1.80	0.010	0.09	<0.1	3.3	0.05	0.04	42	0.4	<0.02	8.0	0.53	<0.1	<0.02
3440346	Soil	1.3	25.2	1.43	125.0	0.180	<1	2.31	0.008	0.42	<0.1	2.9	0.11	0.03	49	0.4	<0.02	7.7	0.99	<0.1	<0.02
3440347	Soil	1.6	14.5	1.35	125.4	0.172	1	2.44	0.009	0.64	<0.1	4.9	0.15	0.02	18	0.3	0.02	7.7	1.26	0.1	<0.02
3440348	Soil	1.2	18.6	0.96	60.6	0.131	<1	1.96	0.010	0.27	<0.1	3.0	0.08	0.02	40	0.5	<0.02	6.1	0.77	<0.1	<0.02
3440349	Soil	1.2	11.0	1.46	126.2	0.164	<1	2.69	0.010	0.49	<0.1	4.1	0.13	0.04	55	0.4	<0.02	7.9	1.39	0.2	<0.02
3440350	Soil	1.1	14.5	0.39	3.8	0.085	1	0.76	0.008	0.01	<0.1	1.4	<0.02	0.02	21	0.5	<0.02	5.1	0.18	<0.1	0.02



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440321	Soil	0.73	1.8	0.6	<0.05	2.1	0.71	2.0	<0.02	<1	<0.1	0.6	<10	<2
3440322	Soil	2.78	9.5	0.6	<0.05	0.4	1.46	4.1	<0.02	<1	<0.1	3.1	<10	<2
3440323	Soil	2.56	24.1	0.9	<0.05	<0.1	1.22	4.3	<0.02	<1	0.1	6.6	<10	<2
3440324	Soil	3.06	17.1	0.8	<0.05	0.1	2.49	6.8	<0.02	<1	<0.1	5.5	<10	<2
3440325	Soil	1.90	10.1	0.9	<0.05	0.5	1.24	2.9	<0.02	<1	<0.1	1.1	<10	<2
3440326	Soil	2.98	30.3	0.5	<0.05	<0.1	2.40	4.8	<0.02	<1	0.1	5.1	<10	<2
3440327	Soil	3.20	22.7	0.9	<0.05	0.1	6.46	13.9	0.05	<1	0.4	16.4	<10	<2
3440328	Soil	1.95	7.6	0.9	<0.05	0.2	2.82	8.1	0.05	<1	0.2	5.3	<10	<2
3440329	Soil	3.71	4.4	1.0	<0.05	2.4	4.48	16.4	0.05	<1	0.3	7.4	<10	<2
3440330	Soil	2.41	5.9	0.7	<0.05	1.2	5.16	8.7	0.07	1	0.3	7.6	12	2
3440331	Soil	3.01	10.2	0.9	<0.05	0.1	2.25	10.1	0.02	<1	0.2	4.2	<10	<2
3440332	Soil	3.10	9.8	0.8	<0.05	1.3	3.34	16.5	0.03	<1	0.5	5.8	<10	<2
3440333	Soil	2.67	4.6	1.4	<0.05	2.7	1.99	6.1	<0.02	<1	<0.1	1.6	<10	<2
3440334	Soil	1.34	27.4	0.7	<0.05	0.6	3.50	11.6	0.03	<1	0.2	9.7	<10	<2
3440335	Soil	1.34	9.6	0.5	<0.05	1.3	3.46	6.5	0.02	1	0.2	7.4	<10	<2
3440336	Soil	1.56	3.1	0.6	<0.05	1.5	1.95	4.6	0.04	<1	<0.1	8.0	<10	<2
3440337	Soil	0.64	2.9	0.3	<0.05	0.4	1.73	4.1	0.02	<1	<0.1	6.2	<10	<2
3440338	Soil	0.70	4.3	0.3	<0.05	0.4	2.44	5.3	<0.02	<1	0.1	8.6	<10	<2
3440339	Soil	11.22	5.2	2.0	<0.05	9.0	3.14	8.8	0.06	<1	0.2	7.6	<10	<2
3440340	Soil	1.07	3.2	0.4	<0.05	0.5	2.85	6.5	<0.02	<1	<0.1	5.4	<10	<2
3440341	Soil	1.59	9.6	0.5	<0.05	2.1	3.56	12.0	0.02	<1	0.1	9.8	<10	<2
3440342	Soil	1.31	2.6	0.3	<0.05	1.6	2.51	4.7	0.03	<1	<0.1	7.8	<10	<2
3440343	Soil	0.97	2.4	0.3	<0.05	0.4	1.23	2.1	<0.02	<1	<0.1	3.6	<10	<2
3440344	Soil	1.64	7.8	0.7	<0.05	1.9	5.05	5.4	0.02	<1	0.1	6.4	<10	<2
3440345	Soil	1.25	3.4	0.3	<0.05	0.9	1.52	2.8	<0.02	<1	<0.1	4.3	<10	<2
3440346	Soil	0.77	11.9	0.3	<0.05	<0.1	1.48	2.8	<0.02	<1	<0.1	6.3	<10	<2
3440347	Soil	0.92	20.2	0.3	<0.05	<0.1	1.72	3.4	<0.02	<1	<0.1	6.8	<10	<2
3440348	Soil	0.85	8.7	0.2	<0.05	0.2	1.62	2.5	<0.02	<1	<0.1	4.5	<10	<2
3440349	Soil	1.00	16.1	0.2	<0.05	<0.1	1.40	2.7	<0.02	<1	<0.1	6.7	<10	<2
3440350	Soil	1.27	1.1	0.5	<0.05	1.1	1.04	2.0	<0.02	<1	<0.1	1.5	<10	<2



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	
3440604	Soil	2.14	23.14	15.13	218.3	245	21.1	10.3	477	4.16	2.0	0.4	3.6	2.1	3.4	0.22	0.02	0.09	91	0.10	0.046
3440605	Soil	2.12	33.11	11.02	182.3	320	21.8	10.4	669	3.60	0.5	0.5	1.3	2.4	9.7	0.46	<0.02	0.11	68	0.52	0.044
3440606	Soil	1.63	26.57	10.96	175.0	119	22.2	13.7	462	3.86	0.7	0.3	0.3	1.6	5.9	0.07	<0.02	0.12	76	0.24	0.083
3440607	Soil	2.86	39.16	51.03	245.2	234	19.3	13.6	700	3.73	1.6	0.6	1.4	3.7	3.6	0.23	<0.02	1.26	61	0.14	0.046
3440608	Soil	1.77	224.19	5.11	147.5	130	40.7	24.0	938	3.61	0.2	0.6	3.8	2.2	6.8	0.23	<0.02	0.61	62	0.28	0.051
3440609	Soil	2.87	220.13	10.48	112.9	118	35.6	10.0	352	4.05	0.4	0.5	1.2	3.4	3.9	0.16	<0.02	0.46	61	0.13	0.042
3440610	Soil	1.32	137.39	2.78	31.9	112	37.2	7.0	201	3.40	0.3	0.3	6.9	2.2	2.6	0.14	<0.02	0.45	54	0.10	0.032
3440611	Soil	2.37	222.84	3.25	45.6	67	12.5	14.2	384	4.40	0.8	0.6	2.5	2.6	8.7	0.11	<0.02	0.46	61	0.40	0.083
3440612	Soil	1.26	37.95	4.60	59.7	243	20.3	18.1	637	4.39	0.6	0.6	2.1	2.4	7.4	0.16	<0.02	0.08	100	0.43	0.170
3440613	Soil	1.29	33.01	6.96	55.2	187	25.7	14.8	507	3.33	5.4	1.0	1.4	4.8	4.3	0.13	0.04	0.11	78	0.10	0.040
3440614	Soil	1.40	65.90	6.95	81.4	403	45.6	21.4	749	3.89	7.1	1.2	1.3	6.1	6.8	0.21	0.04	0.10	90	0.21	0.060
3440615	Soil	0.85	38.91	6.78	55.1	67	19.2	13.4	660	3.32	0.3	0.4	6.8	2.0	13.3	0.07	<0.02	0.07	74	0.26	0.078
3440616	Soil	0.76	59.44	4.33	99.9	37	37.2	23.8	681	3.79	0.6	0.6	0.6	3.0	19.4	0.08	<0.02	0.05	84	0.40	0.107
3440617	Soil	0.70	27.67	3.31	47.4	104	17.0	10.6	355	2.72	0.4	0.4	0.9	1.8	15.3	0.07	<0.02	0.02	68	0.29	0.087
3440618	Soil	0.59	33.02	2.56	54.4	74	22.5	13.5	443	2.45	0.5	0.4	0.5	1.7	19.4	0.08	<0.02	<0.02	62	0.42	0.089
3440619	Soil	0.54	19.72	3.26	45.5	64	17.4	10.0	338	2.02	0.2	0.3	0.4	1.1	18.7	0.03	<0.02	0.02	55	0.33	0.061
3440620	Soil	0.78	48.80	2.39	62.6	71	25.6	17.2	420	2.70	0.4	0.5	<0.2	2.9	20.8	0.04	<0.02	0.03	66	0.50	0.105
3440621	Soil	1.36	41.70	3.21	55.5	75	20.7	13.2	435	2.49	0.2	1.0	1.4	2.1	13.9	0.04	<0.02	0.03	62	0.35	0.089
3440622	Soil	0.65	50.56	2.68	70.3	49	26.1	16.6	488	2.83	<0.1	0.5	0.5	2.5	22.9	0.06	<0.02	<0.02	67	0.50	0.142
3440623	Soil	0.65	43.37	2.01	55.2	49	19.5	13.3	399	2.41	0.4	0.5	0.3	2.2	18.6	0.06	<0.02	<0.02	58	0.48	0.109
3440624	Soil	0.60	30.00	2.27	52.1	51	20.9	13.5	367	2.53	0.4	0.4	<0.2	2.1	22.3	0.10	<0.02	<0.02	60	0.43	0.110
3440625	Soil	0.69	43.92	2.98	69.9	65	26.0	16.7	447	3.32	0.3	0.4	0.5	2.6	30.4	0.11	<0.02	<0.02	77	0.47	0.134
3440626	Soil	0.52	45.80	2.95	77.9	131	27.8	16.5	429	3.33	0.8	0.5	0.7	2.9	46.2	0.06	<0.02	0.03	74	0.57	0.163
3440627	Soil	2.01	32.62	3.81	54.6	76	24.8	17.0	707	3.19	0.4	0.7	0.6	3.2	8.1	0.06	<0.02	0.03	73	0.22	0.065
3440628	Soil	0.67	45.46	3.01	55.7	53	24.2	13.8	646	2.80	0.1	0.8	0.4	2.3	9.1	0.08	<0.02	0.02	69	0.53	0.114
3440629	Soil	0.50	60.45	9.49	93.5	108	29.2	18.3	738	3.26	0.2	2.9	1.0	2.2	10.3	0.22	<0.02	0.03	87	0.54	0.110
3440630	Soil	0.77	33.22	10.23	94.2	144	30.6	16.5	565	3.28	0.1	0.2	1.1	1.7	7.9	0.13	<0.02	0.03	90	0.26	0.074
3440631	Soil	0.71	31.38	8.72	88.7	104	27.6	17.7	606	3.47	0.2	0.2	19.1	1.7	8.5	0.17	<0.02	0.03	91	0.37	0.089
3440632	Soil	0.57	27.15	7.41	67.0	109	24.5	11.0	272	2.84	<0.1	0.3	1.4	1.4	6.8	0.04	<0.02	0.03	84	0.25	0.097
3440633	Soil	0.71	50.56	10.72	93.3	191	30.7	19.7	822	3.69	0.2	0.3	1.7	2.0	8.4	0.16	<0.02	<0.02	92	0.30	0.096



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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm						
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
3440604	Soil	2.9	49.7	0.80	40.4	0.256	<1	1.65	0.010	0.19	0.1	4.5	0.23	0.04	69	0.3	0.05	8.7	0.85	<0.1	<0.02
3440605	Soil	11.8	34.5	0.67	102.6	0.207	1	1.68	0.010	0.25	0.1	3.0	0.43	0.05	88	0.4	0.05	8.2	0.83	<0.1	<0.02
3440606	Soil	3.6	40.4	0.91	59.0	0.242	<1	1.85	0.009	0.21	<0.1	3.3	0.20	0.03	52	0.2	0.05	8.1	0.89	0.1	<0.02
3440607	Soil	8.5	39.7	0.94	70.4	0.202	1	1.78	0.008	0.39	<0.1	2.3	0.26	0.05	83	0.7	0.12	6.8	0.83	<0.1	<0.02
3440608	Soil	10.0	46.4	0.87	100.1	0.165	<1	1.72	0.015	0.20	<0.1	2.8	0.21	0.04	88	0.9	0.14	7.0	1.02	<0.1	<0.02
3440609	Soil	7.8	29.5	0.65	71.4	0.181	<1	1.38	0.014	0.23	0.1	1.6	0.15	0.05	78	0.8	0.13	9.0	0.95	<0.1	<0.02
3440610	Soil	3.7	44.5	0.72	68.1	0.182	1	1.23	0.009	0.19	<0.1	1.6	0.08	0.05	53	0.8	0.13	7.4	0.67	<0.1	<0.02
3440611	Soil	14.3	24.9	0.79	211.6	0.141	2	1.86	0.014	0.26	0.1	2.4	0.13	0.07	70	0.9	0.03	8.0	0.56	<0.1	<0.02
3440612	Soil	12.5	40.7	1.04	229.7	0.245	2	2.56	0.013	0.41	0.1	4.3	0.19	0.03	77	0.6	0.03	9.2	1.14	0.2	<0.02
3440613	Soil	9.2	53.4	0.93	91.2	0.229	1	2.12	0.013	0.31	0.2	4.6	0.20	0.03	118	0.6	0.03	7.3	1.43	<0.1	<0.02
3440614	Soil	11.4	72.4	1.44	207.9	0.257	1	2.93	0.015	0.62	0.3	6.7	0.33	<0.02	108	0.5	0.04	7.5	2.01	0.1	<0.02
3440615	Soil	3.1	38.2	1.07	103.4	0.207	1	1.91	0.023	0.31	0.1	2.5	0.11	0.03	71	0.2	0.03	6.2	0.60	<0.1	<0.02
3440616	Soil	4.4	68.9	1.38	202.9	0.232	1	2.79	0.031	0.48	0.1	3.6	0.15	<0.02	45	0.3	<0.02	6.9	0.69	0.1	<0.02
3440617	Soil	3.4	38.2	0.76	88.3	0.195	1	1.47	0.031	0.19	<0.1	2.1	0.07	0.03	61	0.4	<0.02	5.9	0.45	<0.1	0.03
3440618	Soil	3.5	40.4	0.96	141.1	0.173	1	1.41	0.035	0.30	<0.1	2.7	0.09	0.02	61	0.2	<0.02	5.1	0.48	<0.1	0.03
3440619	Soil	2.6	32.8	0.78	107.4	0.177	2	1.15	0.033	0.21	<0.1	2.2	0.06	0.02	53	0.1	<0.02	5.7	0.58	<0.1	0.03
3440620	Soil	3.6	40.8	1.13	186.6	0.177	<1	1.62	0.039	0.44	0.1	3.0	0.12	<0.02	33	<0.1	<0.02	5.3	0.47	0.1	<0.02
3440621	Soil	3.7	36.9	0.93	141.0	0.175	<1	1.49	0.028	0.33	0.1	2.6	0.10	0.02	42	0.2	<0.02	5.7	0.53	0.1	<0.02
3440622	Soil	4.1	42.7	1.22	181.8	0.184	<1	1.73	0.041	0.43	<0.1	3.2	0.12	<0.02	13	0.1	<0.02	5.3	0.48	<0.1	<0.02
3440623	Soil	3.6	33.3	0.98	164.9	0.157	<1	1.38	0.038	0.39	<0.1	2.6	0.09	<0.02	14	<0.1	<0.02	4.6	0.39	0.1	<0.02
3440624	Soil	3.9	41.3	0.94	128.6	0.168	<1	1.36	0.037	0.28	0.1	2.9	0.08	<0.02	15	<0.1	<0.02	4.7	0.43	<0.1	0.03
3440625	Soil	5.0	54.0	1.11	158.7	0.215	<1	1.85	0.046	0.33	0.1	2.9	0.09	<0.02	32	0.3	<0.02	6.2	0.53	<0.1	0.04
3440626	Soil	7.3	62.2	1.06	142.1	0.200	<1	1.86	0.079	0.33	0.1	3.0	0.10	<0.02	31	0.2	<0.02	6.4	0.44	<0.1	0.04
3440627	Soil	2.7	49.0	1.18	149.7	0.249	<1	1.99	0.015	0.50	0.2	3.1	0.16	<0.02	40	<0.1	<0.02	6.2	0.72	0.1	0.04
3440628	Soil	2.7	38.2	1.29	229.9	0.196	<1	1.69	0.018	0.70	0.1	3.8	0.20	0.02	28	0.1	<0.02	5.2	0.62	0.1	<0.02
3440629	Soil	2.3	45.1	1.59	298.4	0.254	<1	2.08	0.026	1.03	0.1	4.7	0.29	<0.02	14	<0.1	0.03	6.8	0.97	0.1	<0.02
3440630	Soil	2.0	54.7	1.47	211.6	0.263	<1	2.03	0.020	0.82	0.2	3.6	0.30	<0.02	20	<0.1	0.04	7.2	1.34	0.1	<0.02
3440631	Soil	2.1	48.3	1.44	190.8	0.259	<1	2.09	0.022	0.64	0.2	3.8	0.19	<0.02	40	0.2	0.03	6.7	0.95	0.1	<0.02
3440632	Soil	1.9	48.9	1.20	102.0	0.228	<1	1.74	0.016	0.43	0.2	3.4	0.15	0.03	38	<0.1	<0.02	6.2	0.94	0.1	<0.02
3440633	Soil	1.9	53.0	1.52	187.3	0.262	<1	2.57	0.018	0.72	0.2	3.6	0.25	<0.02	61	0.4	<0.02	6.2	1.05	0.1	<0.02



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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440604	Soil	3.11	23.0	0.9	<0.05	<0.1	3.26	13.6	<0.02	<1	0.1	5.5	<10	<2
3440605	Soil	2.73	31.4	1.1	<0.05	<0.1	17.39	28.7	0.04	<1	0.5	6.4	<10	<2
3440606	Soil	1.84	24.9	0.7	<0.05	<0.1	4.33	13.3	0.03	<1	0.6	12.6	<10	<2
3440607	Soil	2.40	26.7	1.0	<0.05	<0.1	6.84	19.5	0.07	<1	0.4	6.4	<10	<2
3440608	Soil	1.65	18.0	0.9	<0.05	<0.1	8.98	25.0	0.08	<1	0.4	7.0	<10	<2
3440609	Soil	3.47	16.9	0.9	<0.05	<0.1	3.75	27.7	0.06	<1	0.3	5.6	<10	<2
3440610	Soil	3.56	10.3	1.0	<0.05	<0.1	1.91	9.2	<0.02	<1	<0.1	2.9	10	7
3440611	Soil	2.45	20.4	1.0	<0.05	<0.1	9.25	49.1	0.03	<1	0.4	10.9	<10	<2
3440612	Soil	1.87	35.9	0.8	<0.05	<0.1	16.47	22.8	0.03	<1	0.4	9.7	<10	<2
3440613	Soil	2.79	25.4	0.6	<0.05	<0.1	6.42	25.4	0.03	<1	0.3	8.0	<10	<2
3440614	Soil	1.26	46.2	0.7	<0.05	0.6	11.34	31.6	0.03	<1	0.6	11.2	<10	<2
3440615	Soil	1.51	19.2	0.5	<0.05	0.3	2.01	6.6	<0.02	<1	0.2	6.1	<10	<2
3440616	Soil	1.37	22.0	0.4	<0.05	0.8	2.81	9.4	<0.02	<1	0.4	11.3	<10	<2
3440617	Soil	1.71	11.6	0.5	<0.05	1.0	2.02	6.8	<0.02	<1	0.2	4.1	<10	<2
3440618	Soil	1.22	16.2	0.3	<0.05	0.6	2.30	6.9	<0.02	<1	0.2	4.9	<10	<2
3440619	Soil	1.09	17.3	0.3	<0.05	0.6	1.79	5.4	<0.02	<1	0.1	3.0	<10	<2
3440620	Soil	1.10	20.4	0.3	<0.05	0.6	2.77	7.2	<0.02	<1	0.2	6.2	<10	<2
3440621	Soil	1.36	18.7	0.3	<0.05	0.3	2.60	7.1	<0.02	<1	0.2	5.8	<10	<2
3440622	Soil	0.91	19.6	0.3	<0.05	0.4	2.84	8.5	<0.02	<1	0.1	7.0	<10	<2
3440623	Soil	0.83	16.6	0.2	<0.05	0.4	2.72	7.2	<0.02	<1	0.1	5.2	<10	<2
3440624	Soil	0.86	13.8	0.3	<0.05	0.6	2.70	7.7	<0.02	<1	<0.1	5.4	<10	<2
3440625	Soil	1.46	18.5	0.3	<0.05	1.4	2.73	10.3	<0.02	<1	0.3	7.8	<10	<2
3440626	Soil	1.08	16.9	0.3	<0.05	2.0	3.25	14.4	<0.02	<1	0.4	9.0	<10	<2
3440627	Soil	1.21	32.1	0.5	<0.05	1.6	1.84	5.6	<0.02	<1	0.1	9.4	<10	<2
3440628	Soil	1.02	33.0	0.3	<0.05	0.2	2.55	4.7	<0.02	<1	<0.1	5.2	<10	<2
3440629	Soil	0.59	48.3	0.3	<0.05	<0.1	3.25	4.7	<0.02	<1	<0.1	8.2	<10	<2
3440630	Soil	1.20	61.6	0.4	<0.05	<0.1	1.86	4.1	<0.02	<1	<0.1	6.3	<10	<2
3440631	Soil	1.07	33.2	0.4	<0.05	<0.1	2.35	4.0	<0.02	<1	0.1	6.4	<10	<2
3440632	Soil	1.24	26.3	0.3	<0.05	<0.1	1.93	3.6	<0.02	<1	<0.1	4.0	<10	<2
3440633	Soil	0.93	36.1	0.4	<0.05	<0.1	2.28	4.1	<0.02	<1	0.1	9.7	<10	<2



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Method Analyte	Unit	MDL	AQ252																			
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
3440634	Soil		0.53	55.18	9.51	88.8	91	24.3	17.8	585	3.10	<0.1	0.2	1.0	1.9	8.5	0.27	<0.02	0.03	80	0.44	0.116
3440635	Soil		0.79	37.85	12.48	89.8	214	29.2	17.7	571	3.48	<0.1	0.4	0.7	1.7	8.3	0.16	<0.02	0.03	93	0.29	0.084
3440636	Soil		0.67	63.90	9.87	98.5	117	29.3	18.5	622	3.21	<0.1	0.3	1.1	1.8	10.1	0.25	<0.02	0.03	85	0.45	0.101
3440637	Soil		0.69	42.99	9.83	107.7	98	32.5	19.2	649	3.36	0.1	0.3	0.7	2.3	9.9	0.19	<0.02	0.03	87	0.52	0.115
3440638	Soil		0.52	92.30	12.98	114.3	116	62.1	22.9	758	3.58	0.3	0.3	1.2	1.9	8.6	0.24	<0.02	0.02	88	0.37	0.115
3440639	Soil		0.80	36.96	15.14	85.0	378	26.4	13.7	485	3.70	<0.1	0.3	0.7	1.7	6.7	0.16	<0.02	0.03	86	0.26	0.090
3440640	Soil		1.77	56.20	7.18	99.0	104	21.5	15.3	610	3.67	<0.1	0.3	0.3	1.8	6.5	0.09	<0.02	0.06	89	0.26	0.083
3440641	Soil		2.00	58.76	6.58	77.3	83	13.5	13.3	467	3.08	0.3	0.5	3.2	1.5	7.6	0.09	<0.02	0.14	69	0.19	0.058
3440642	Soil		2.87	71.42	7.32	82.3	102	11.3	14.6	601	3.34	0.8	0.4	6.7	2.1	9.3	0.06	<0.02	0.22	67	0.21	0.066
3440643	Soil		1.76	65.46	9.69	79.1	78	12.4	9.7	335	2.59	0.8	0.3	4.0	1.9	10.3	0.05	<0.02	0.23	60	0.33	0.066
3440644	Soil		2.31	40.72	6.34	55.3	149	7.7	6.3	312	2.97	0.6	0.3	2.7	1.7	7.7	0.05	<0.02	0.16	60	0.15	0.039
3440645	Soil		2.67	86.18	6.71	78.3	91	15.5	17.4	424	4.00	1.0	0.4	2.5	2.2	11.4	0.12	<0.02	0.11	76	0.39	0.078
3440646	Soil		3.37	90.05	4.67	91.6	40	16.1	17.2	501	3.39	0.3	0.6	2.5	2.0	12.1	0.08	<0.02	0.15	73	0.31	0.071
3440647	Soil		3.66	69.84	15.91	98.5	119	11.4	19.1	1678	3.39	0.8	0.7	2.5	2.0	15.0	0.25	<0.02	0.17	73	0.52	0.063
3440648	Soil		1.81	25.81	15.18	124.4	352	16.1	8.2	283	2.61	0.3	0.5	1.4	2.2	3.7	0.19	<0.02	0.14	72	0.16	0.050
3440649	Soil		1.71	37.19	16.35	213.9	175	27.7	16.6	462	3.46	0.7	0.6	1.3	3.2	5.3	0.27	<0.02	0.09	81	0.31	0.091
3440650	Soil		2.17	31.06	37.95	117.5	416	21.7	13.1	638	3.49	2.1	0.7	0.5	3.2	3.4	0.13	0.03	0.12	84	0.15	0.063
3440751	Soil		3.22	39.48	84.24	209.9	633	28.3	18.1	915	4.30	3.4	1.1	3.3	5.4	3.2	0.13	0.05	0.15	98	0.15	0.071
3440752	Soil		1.34	32.62	8.44	129.2	106	55.5	21.2	820	4.43	1.2	0.6	0.6	4.0	4.0	0.17	<0.02	0.07	112	0.17	0.200
3440753	Soil		2.32	27.28	34.36	139.9	171	25.9	14.3	581	4.49	2.8	0.7	0.9	3.4	4.4	0.11	<0.02	0.11	106	0.21	0.059
3440754	Soil		5.04	40.67	13.00	122.9	523	40.4	23.9	895	4.54	4.5	0.9	1.5	3.5	4.1	0.34	<0.02	0.11	133	0.23	0.083
3440755	Soil		4.14	27.48	10.80	72.8	524	22.4	13.9	604	4.21	4.6	0.7	1.0	3.6	2.4	0.10	<0.02	0.12	117	0.11	0.077
3440756	Soil		3.97	24.65	8.70	83.3	456	26.2	14.5	998	3.85	<0.1	1.2	1.0	5.9	2.1	0.18	<0.02	0.16	73	0.11	0.095
3440757	Soil		2.89	22.30	2.70	63.3	190	33.4	16.5	641	4.55	<0.1	0.6	<0.2	4.1	1.7	0.13	<0.02	0.04	108	0.10	0.069
3440758	Soil		1.24	39.55	2.42	74.9	91	42.8	20.0	996	3.84	0.5	0.7	<0.2	2.4	9.0	0.22	<0.02	0.03	101	0.72	0.117
3440759	Soil		1.42	42.77	2.69	63.5	72	40.1	21.6	735	3.96	0.4	0.5	0.5	2.2	5.0	0.08	<0.02	0.04	117	0.30	0.109
3440760	Soil		4.40	55.04	3.55	70.7	245	98.2	49.9	2110	4.65	<0.1	0.3	0.3	0.8	7.5	0.26	<0.02	0.05	190	0.66	0.150
3440761	Soil		1.46	56.41	3.22	37.6	141	32.0	16.5	357	2.40	0.3	0.5	0.4	2.1	8.6	0.10	<0.02	0.06	54	0.39	0.099
3440762	Soil		0.90	46.90	0.62	40.2	29	48.5	22.4	610	3.39	0.3	0.3	<0.2	1.4	8.5	0.06	<0.02	<0.02	103	0.73	0.141
3440763	Soil		1.91	30.15	3.73	41.8	235	17.8	14.4	635	3.49	0.5	0.6	0.3	1.4	2.3	0.06	<0.02	0.07	96	0.12	0.059



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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
3440634	Soil	2.0	38.9	1.42	269.4	0.212	<1	1.86	0.024	0.98	0.2	4.3	0.26	<0.02	10	<0.1	0.03	5.7	0.91	0.1	<0.02
3440635	Soil	2.2	54.6	1.38	197.0	0.271	<1	2.23	0.018	0.63	0.1	3.8	0.21	<0.02	41	<0.1	0.02	6.9	1.02	0.1	<0.02
3440636	Soil	2.1	47.0	1.51	291.3	0.239	<1	2.01	0.026	0.93	0.2	4.3	0.29	<0.02	8	0.1	0.02	6.5	1.00	0.2	<0.02
3440637	Soil	2.0	51.2	1.65	341.3	0.261	<1	2.10	0.031	1.18	0.2	5.0	0.31	<0.02	14	<0.1	0.02	6.9	0.97	0.2	<0.02
3440638	Soil	1.8	91.6	1.94	272.2	0.258	<1	2.72	0.027	1.08	0.2	4.4	0.37	<0.02	10	0.1	0.03	7.1	1.25	0.2	<0.02
3440639	Soil	1.8	53.1	1.21	112.1	0.253	<1	2.33	0.016	0.40	0.2	3.5	0.17	0.02	115	0.3	<0.02	7.1	0.87	<0.1	<0.02
3440640	Soil	2.3	35.8	1.38	209.9	0.239	<1	2.67	0.014	0.77	0.2	4.3	0.23	<0.02	72	0.4	0.02	6.7	1.08	0.1	<0.02
3440641	Soil	2.2	22.6	1.26	164.9	0.194	<1	2.07	0.013	0.58	0.2	2.5	0.19	<0.02	17	0.2	0.10	5.4	0.83	<0.1	<0.02
3440642	Soil	2.3	20.1	1.28	168.0	0.192	<1	2.38	0.015	0.68	0.2	2.6	0.25	0.02	23	0.5	0.15	5.7	0.99	<0.1	<0.02
3440643	Soil	2.4	18.2	1.31	184.6	0.175	<1	1.97	0.015	0.73	0.2	2.7	0.20	<0.02	11	0.2	0.15	5.4	0.83	<0.1	<0.02
3440644	Soil	2.3	16.8	0.83	95.7	0.171	<1	1.99	0.010	0.35	0.2	2.1	0.14	0.03	54	0.4	0.10	5.5	0.64	<0.1	<0.02
3440645	Soil	3.0	22.3	1.51	234.1	0.201	<1	2.32	0.018	0.95	0.3	3.2	0.25	<0.02	<5	0.2	0.09	6.2	0.91	0.1	<0.02
3440646	Soil	2.7	23.9	1.43	211.2	0.203	<1	2.39	0.017	0.69	1.3	2.8	0.20	<0.02	19	0.2	0.11	6.4	0.85	0.1	<0.02
3440647	Soil	3.2	16.4	1.16	199.0	0.188	<1	2.08	0.016	0.51	0.6	2.5	0.28	0.03	25	0.5	0.09	6.0	0.78	<0.1	<0.02
3440648	Soil	7.3	35.7	0.68	64.8	0.225	<1	1.71	0.009	0.22	<0.1	3.0	0.30	0.03	56	0.4	0.06	8.4	0.87	<0.1	<0.02
3440649	Soil	8.6	48.9	1.08	136.5	0.220	<1	2.21	0.013	0.43	0.1	5.0	0.32	<0.02	54	0.4	0.03	8.1	0.99	0.1	<0.02
3440650	Soil	8.2	46.3	0.85	80.3	0.227	<1	2.01	0.011	0.28	<0.1	4.5	0.28	0.03	73	0.5	0.03	8.0	0.78	0.1	<0.02
3440751	Soil	16.1	58.9	1.06	112.8	0.245	<1	2.51	0.010	0.37	0.1	8.1	0.43	0.03	98	0.6	0.04	9.3	0.99	<0.1	<0.02
3440752	Soil	6.6	109.4	1.86	149.8	0.310	<1	3.37	0.010	0.84	<0.1	11.1	0.39	<0.02	44	<0.1	<0.02	10.3	1.81	0.2	<0.02
3440753	Soil	7.6	60.3	1.04	127.2	0.252	<1	2.27	0.010	0.32	0.1	5.9	0.27	0.02	47	0.4	0.03	9.0	0.76	<0.1	<0.02
3440754	Soil	7.5	89.4	1.42	243.9	0.272	<1	2.60	0.010	0.32	0.1	10.2	0.37	0.03	30	1.0	0.04	8.8	1.17	0.2	<0.02
3440755	Soil	5.7	66.5	0.97	121.6	0.241	<1	2.37	0.009	0.27	0.1	6.1	0.21	0.05	83	1.2	0.05	8.0	0.99	<0.1	<0.02
3440756	Soil	8.0	65.7	1.03	175.2	0.202	<1	2.53	0.008	0.54	<0.1	5.0	0.39	0.04	68	0.7	0.05	8.6	1.87	0.2	<0.02
3440757	Soil	5.8	77.5	1.23	92.8	0.313	<1	2.67	0.007	0.50	<0.1	7.9	0.23	0.03	59	0.5	0.02	9.8	1.36	0.2	<0.02
3440758	Soil	9.3	82.2	1.60	293.9	0.265	1	2.70	0.012	0.64	<0.1	7.4	0.31	0.03	60	0.5	<0.02	8.2	1.46	0.1	<0.02
3440759	Soil	5.6	87.4	1.66	200.5	0.279	<1	2.73	0.013	0.45	<0.1	6.5	0.19	<0.02	35	0.2	<0.02	7.6	1.31	0.2	<0.02
3440760	Soil	2.4	201.9	1.93	703.8	0.267	<1	2.46	0.011	0.62	0.1	15.4	0.64	<0.02	17	<0.1	0.02	6.9	0.71	0.2	<0.02
3440761	Soil	5.4	47.5	0.74	161.8	0.121	<1	1.60	0.016	0.19	<0.1	3.0	0.13	0.02	34	0.4	<0.02	4.1	0.41	<0.1	<0.02
3440762	Soil	1.9	71.5	1.87	334.3	0.249	<1	2.41	0.014	0.86	<0.1	5.9	0.27	<0.02	<5	<0.1	<0.02	7.3	0.88	0.2	<0.02
3440763	Soil	3.7	52.9	0.73	65.0	0.250	<1	2.12	0.010	0.13	<0.1	4.4	0.11	0.03	97	0.4	<0.02	7.9	0.92	0.1	<0.02



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Method Analyte	Unit	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppb	ppm	ppm	ppb	ppb							
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440634	Soil	0.53	45.2	0.4	<0.05	<0.1	3.05	4.1	<0.02	1	0.1	6.8	<10	<2
3440635	Soil	1.23	37.7	0.4	<0.05	<0.1	2.79	4.0	<0.02	<1	0.1	7.6	<10	2
3440636	Soil	0.67	46.4	0.3	<0.05	<0.1	3.36	4.1	<0.02	<1	0.1	7.8	<10	<2
3440637	Soil	0.62	50.7	0.4	<0.05	<0.1	2.92	4.2	<0.02	<1	<0.1	8.3	<10	<2
3440638	Soil	0.58	54.9	0.3	<0.05	<0.1	2.85	3.9	<0.02	<1	0.2	9.7	<10	<2
3440639	Soil	1.61	23.3	0.4	<0.05	<0.1	2.09	3.7	<0.02	<1	0.2	7.4	<10	<2
3440640	Soil	1.34	35.9	0.5	<0.05	<0.1	2.10	4.0	<0.02	<1	0.2	8.7	<10	<2
3440641	Soil	0.57	32.3	0.3	<0.05	<0.1	2.03	4.0	<0.02	<1	0.2	7.4	<10	<2
3440642	Soil	0.90	41.0	0.5	<0.05	<0.1	1.75	4.4	<0.02	<1	0.4	8.7	<10	<2
3440643	Soil	0.44	36.8	0.4	<0.05	<0.1	1.74	4.7	<0.02	<1	0.1	6.7	<10	<2
3440644	Soil	1.17	22.2	0.4	<0.05	<0.1	1.34	4.4	<0.02	<1	0.1	5.1	<10	<2
3440645	Soil	0.52	45.6	0.4	<0.05	<0.1	2.80	5.9	<0.02	<1	0.2	7.6	<10	<2
3440646	Soil	0.75	33.8	0.4	<0.05	0.3	2.15	5.1	<0.02	<1	0.2	9.0	<10	<2
3440647	Soil	1.09	27.5	0.3	<0.05	<0.1	2.57	6.9	<0.02	2	0.2	7.9	<10	<2
3440648	Soil	3.07	28.8	0.8	<0.05	0.2	6.86	15.9	0.04	<1	0.5	7.1	<10	<2
3440649	Soil	2.14	29.5	0.8	<0.05	0.2	10.14	22.7	0.05	<1	0.4	9.9	<10	<2
3440650	Soil	2.22	24.5	0.6	<0.05	0.2	7.97	22.6	0.04	<1	0.3	7.8	<10	<2
3440751	Soil	1.60	34.2	0.9	<0.05	0.1	15.15	36.7	0.05	<1	0.8	10.5	<10	<2
3440752	Soil	1.14	86.7	1.1	<0.05	<0.1	5.92	17.1	0.06	<1	0.6	20.9	<10	<2
3440753	Soil	1.35	25.9	0.8	<0.05	<0.1	6.94	18.3	0.04	<1	0.5	10.4	<10	<2
3440754	Soil	1.15	33.0	0.6	<0.05	<0.1	10.30	14.5	0.04	<1	0.2	14.6	<10	<2
3440755	Soil	1.85	25.3	0.6	<0.05	<0.1	5.42	12.7	0.03	<1	0.3	10.7	<10	<2
3440756	Soil	2.73	61.6	1.0	<0.05	0.7	6.43	30.7	0.05	<1	0.4	11.0	<10	<2
3440757	Soil	2.72	47.5	1.0	<0.05	<0.1	3.77	19.4	0.05	<1	0.3	18.6	<10	<2
3440758	Soil	0.96	58.3	0.5	<0.05	<0.1	8.99	13.8	0.03	<1	0.3	16.6	<10	<2
3440759	Soil	0.54	33.3	0.4	<0.05	<0.1	5.73	14.4	0.02	<1	0.3	16.1	<10	<2
3440760	Soil	0.11	19.9	<0.1	<0.05	0.3	6.39	2.8	0.03	<1	0.2	7.5	<10	<2
3440761	Soil	0.58	9.5	<0.1	<0.05	0.3	6.11	9.6	<0.02	<1	0.2	8.6	<10	<2
3440762	Soil	0.11	40.1	0.3	<0.05	<0.1	3.14	3.5	<0.02	<1	0.1	18.2	<10	<2
3440763	Soil	1.79	14.1	0.4	<0.05	0.2	3.65	8.0	0.03	<1	0.2	11.9	<10	<2



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Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	
3440764	Soil	1.52	42.85	5.16	54.8	364	22.3	16.6	614	3.32	0.1	0.5	<0.2	0.8	4.4	0.08	<0.02	0.04	86	0.24	0.081
3440765	Soil	0.86	23.38	3.34	40.2	62	13.0	11.2	440	3.32	<0.1	0.4	0.4	0.8	3.3	0.04	<0.02	0.04	82	0.15	0.234
3440501	Soil	0.31	0.66	2.44	12.2	22	0.5	1.1	43	1.18	0.1	0.1	0.4	0.3	3.8	<0.01	0.04	<0.02	22	0.03	0.010
3440502	Soil	0.56	2.39	9.10	86.3	19	5.2	2.3	110	0.93	0.4	0.2	18.2	0.3	7.6	0.09	0.03	0.04	11	0.07	0.024
3440503	Soil	0.71	22.59	3.49	169.8	44	8.8	13.4	776	2.65	1.2	1.0	3.1	2.0	23.2	0.30	0.07	0.03	53	0.49	0.125
3440504	Soil	0.97	14.22	20.70	69.9	83	7.6	4.1	197	4.16	0.8	0.7	2.8	3.2	23.0	0.09	0.10	0.12	123	0.14	0.028
3440505	Soil	0.35	2.55	2.87	38.5	55	0.6	1.5	149	0.84	0.3	0.1	14.0	0.4	7.8	0.12	<0.02	<0.02	17	0.05	0.027
3440506	Soil	0.29	0.77	2.90	49.7	9	10.2	2.4	85	1.29	<0.1	0.1	0.7	0.4	4.2	0.01	<0.02	<0.02	22	0.03	0.014
3440507	Soil	1.20	18.71	4.63	64.6	84	6.1	9.2	383	2.33	1.5	0.9	3.6	0.9	20.9	0.19	0.11	0.07	60	0.29	0.081
3440508	Soil	0.30	0.73	8.52	1.8	18	0.5	0.6	26	0.22	0.2	0.4	1.7	0.3	6.6	0.02	0.18	0.06	25	0.02	0.004
3440509	Soil	0.13	0.56	1.34	17.3	42	0.6	0.6	21	0.22	<0.1	<0.1	3.2	0.2	3.0	0.04	<0.02	<0.02	3	0.01	0.009
3440510	Soil	1.99	9.72	9.20	53.2	48	1.2	5.8	609	3.00	2.0	0.5	8.0	0.8	5.1	0.32	0.11	0.11	25	0.05	0.042
3440511	Soil	1.11	3.75	5.52	42.5	97	2.3	5.0	195	2.40	0.3	0.2	3.5	0.2	5.7	0.06	0.07	<0.02	45	0.05	0.013
3440512	Soil	0.51	1.35	7.69	26.8	23	1.7	3.6	189	1.30	0.4	0.3	2.5	0.2	8.8	0.02	0.05	0.08	20	0.07	0.021
3440513	Soil	4.52	115.85	8.46	781.9	302	7.1	55.6	3931	4.67	6.4	1.2	11.2	1.3	19.2	72.54	0.72	0.09	24	0.55	0.251
3440514	Soil	2.41	29.18	7.74	69.1	154	2.2	13.9	1522	3.25	1.6	1.5	9.9	1.4	6.9	0.47	0.12	0.04	28	0.09	0.100
3440515	Soil	1.09	23.72	3.97	54.4	48	2.3	6.0	303	3.37	0.6	0.4	4.0	0.5	6.6	0.13	0.07	0.06	45	0.05	0.024
3440516	Soil	1.00	14.26	6.73	55.6	94	4.6	11.2	497	3.61	1.2	0.8	4.4	0.4	11.4	0.08	0.08	0.10	55	0.11	0.064
3440517	Soil	1.00	31.90	7.59	74.4	65	16.4	10.5	507	3.53	3.6	0.8	2.0	1.8	20.3	0.29	0.18	0.11	76	0.25	0.060
3440518	Soil	1.47	3.80	3.24	9.1	166	1.1	2.0	94	6.24	0.8	0.9	1.7	2.1	15.3	0.04	0.31	0.04	118	0.11	0.032
3440519	Soil	0.87	9.81	1.51	78.1	43	13.2	18.9	1108	3.57	0.8	0.4	1.2	1.9	20.0	0.04	0.19	<0.02	64	0.26	0.103
3440520	Soil	1.23	13.44	1.78	76.6	133	5.9	16.8	1116	3.37	0.7	0.4	1.5	1.1	24.8	0.08	0.17	<0.02	59	0.24	0.085
3440521	Soil	1.07	10.90	1.38	53.4	82	3.3	11.3	631	3.83	0.9	0.3	2.9	0.5	11.2	0.04	0.13	<0.02	76	0.08	0.044
3440522	Soil	0.72	17.47	1.46	65.2	103	5.2	16.6	944	3.62	1.1	0.4	2.2	1.2	23.0	0.04	0.18	<0.02	64	0.21	0.115
3440523	Soil	0.67	9.66	1.51	42.1	82	2.6	11.5	416	3.08	0.9	0.3	1.6	0.9	25.8	0.02	0.17	<0.02	63	0.19	0.056
3440524	Soil	1.07	8.05	2.17	32.4	157	3.1	9.4	321	4.31	1.0	0.5	1.6	2.0	16.8	0.05	0.27	0.03	72	0.12	0.040
3440525	Soil	0.54	4.77	1.23	26.8	203	2.0	6.3	205	2.13	0.5	0.2	1.6	0.5	11.5	0.02	0.12	<0.02	49	0.08	0.020
3440526	Soil	0.71	19.79	1.19	59.6	102	6.7	15.8	621	3.70	2.9	0.2	1.4	1.2	16.7	0.05	0.18	<0.02	61	0.15	0.070
3440527	Soil	0.80	5.47	1.06	19.0	38	2.9	7.3	403	2.06	2.3	0.5	<0.2	1.8	4.0	0.03	0.12	0.07	55	0.10	0.101
3440528	Soil	5.84	9.63	1.72	28.4	186	7.5	26.4	965	4.11	3.7	1.7	3.7	1.5	8.7	0.03	0.11	0.07	87	0.07	0.068

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
3440764	Soil	3.4	46.0	0.85	130.1	0.204	<1	2.18	0.015	0.24	0.1	3.6	0.13	<0.02	68	0.3	<0.02	7.4	1.46	<0.1	<0.02
3440765	Soil	2.7	41.5	0.64	50.9	0.198	<1	2.04	0.012	0.19	<0.1	2.9	0.11	<0.02	65	0.3	<0.02	8.2	1.42	<0.1	<0.02
3440501	Soil	1.2	1.3	0.04	12.9	0.002	<1	0.60	0.003	0.01	<0.1	0.5	0.04	<0.02	11	<0.1	<0.02	2.6	0.27	<0.1	<0.02
3440502	Soil	1.9	6.5	0.26	8.6	0.006	<1	0.82	0.003	<0.01	0.3	0.8	0.04	<0.02	24	<0.1	<0.02	3.1	0.24	<0.1	<0.02
3440503	Soil	4.8	11.3	1.01	88.5	0.170	<1	2.63	0.018	0.25	1.6	3.1	0.12	<0.02	35	0.2	<0.02	5.2	0.99	<0.1	<0.02
3440504	Soil	4.8	24.0	0.34	27.1	0.366	1	1.88	0.017	0.03	<0.1	2.7	0.03	0.03	105	0.4	0.02	12.9	0.66	<0.1	0.33
3440505	Soil	1.5	2.2	0.08	9.0	0.003	<1	0.31	0.004	0.01	1.2	0.6	0.03	<0.02	33	<0.1	<0.02	1.8	0.19	<0.1	0.02
3440506	Soil	1.0	45.4	0.15	6.8	0.003	<1	0.57	0.003	<0.01	<0.1	0.8	0.02	<0.02	11	<0.1	<0.02	2.7	0.14	<0.1	<0.02
3440507	Soil	4.5	10.3	0.89	90.6	0.177	<1	1.97	0.009	0.15	0.1	2.7	0.12	0.03	27	0.4	<0.02	5.6	0.77	<0.1	0.03
3440508	Soil	0.8	1.0	<0.01	24.8	0.119	<1	0.28	0.003	0.02	<0.1	0.3	0.05	<0.02	13	<0.1	<0.02	3.8	1.01	<0.1	<0.02
3440509	Soil	0.9	1.2	0.03	5.4	0.005	<1	0.15	0.004	0.01	<0.1	0.2	<0.02	<0.02	16	<0.1	<0.02	0.7	0.09	<0.1	<0.02
3440510	Soil	2.7	2.5	0.10	11.3	0.006	<1	0.77	0.003	0.02	<0.1	0.9	0.03	0.03	89	0.6	0.09	4.1	0.25	<0.1	<0.02
3440511	Soil	1.3	5.2	0.52	56.7	0.020	<1	1.44	0.004	0.01	<0.1	1.0	0.06	<0.02	38	<0.1	<0.02	4.9	0.58	<0.1	<0.02
3440512	Soil	1.7	4.8	0.40	32.3	0.035	<1	0.79	0.003	0.06	<0.1	0.7	0.09	<0.02	16	<0.1	<0.02	3.5	0.81	<0.1	<0.02
3440513	Soil	12.7	6.2	0.36	52.3	0.005	<1	2.03	0.005	0.04	0.4	2.3	0.12	0.09	103	0.7	0.24	3.0	0.45	<0.1	<0.02
3440514	Soil	6.4	3.7	0.21	21.3	0.006	<1	2.02	0.004	0.02	0.3	2.4	0.05	0.04	116	0.6	0.03	4.0	0.46	<0.1	0.04
3440515	Soil	1.8	3.5	0.45	19.5	0.023	<1	1.25	0.003	0.02	<0.1	0.9	0.07	<0.02	48	0.4	<0.02	4.7	0.86	<0.1	<0.02
3440516	Soil	4.3	9.3	0.36	36.4	0.048	<1	1.84	0.006	0.04	<0.1	1.6	0.09	0.03	140	0.9	<0.02	7.3	0.79	<0.1	<0.02
3440517	Soil	7.1	29.4	0.80	124.2	0.147	2	3.11	0.012	0.15	0.1	5.7	0.10	0.02	71	0.6	0.03	9.7	1.34	<0.1	0.04
3440518	Soil	2.1	6.0	0.20	21.8	0.388	<1	1.42	0.006	0.03	<0.1	1.0	0.03	0.03	102	0.8	<0.02	12.1	0.67	<0.1	<0.02
3440519	Soil	2.1	33.9	1.78	358.3	0.260	<1	2.64	0.009	0.96	<0.1	1.4	0.37	<0.02	25	<0.1	<0.02	5.3	3.03	<0.1	<0.02
3440520	Soil	2.3	13.9	1.44	296.8	0.239	<1	2.30	0.008	0.87	<0.1	1.0	0.46	0.03	54	0.3	<0.02	5.2	3.04	<0.1	<0.02
3440521	Soil	1.1	4.9	1.44	242.6	0.253	<1	2.29	0.008	0.76	<0.1	0.7	0.27	0.02	92	0.3	<0.02	6.4	2.88	<0.1	<0.02
3440522	Soil	2.1	9.6	1.63	268.7	0.247	<1	2.52	0.007	0.99	<0.1	1.2	0.43	<0.02	28	<0.1	<0.02	5.4	3.56	<0.1	<0.02
3440523	Soil	1.5	3.4	1.23	257.5	0.282	<1	1.97	0.007	0.67	<0.1	0.8	0.29	<0.02	33	<0.1	<0.02	5.2	2.77	<0.1	<0.02
3440524	Soil	1.4	5.6	0.96	151.7	0.302	<1	2.22	0.006	0.44	<0.1	0.9	0.20	0.02	66	0.3	<0.02	6.6	1.78	<0.1	<0.02
3440525	Soil	1.0	2.4	0.87	143.6	0.257	<1	1.38	0.007	0.47	<0.1	0.6	0.18	<0.02	25	<0.1	<0.02	5.4	2.05	<0.1	<0.02
3440526	Soil	1.3	12.7	1.51	246.3	0.277	<1	2.58	0.008	0.96	<0.1	1.0	0.44	<0.02	67	0.2	<0.02	5.0	2.40	<0.1	<0.02
3440527	Soil	3.6	12.9	1.16	64.1	0.150	<1	2.07	0.007	0.31	<0.1	2.9	0.19	<0.02	31	0.3	0.03	5.3	1.96	<0.1	<0.02
3440528	Soil	2.1	28.9	1.13	176.2	0.187	<1	2.30	0.007	0.38	<0.1	2.3	0.23	0.04	61	0.8	0.03	6.2	2.04	<0.1	<0.02



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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440764	Soil	1.32	26.9	0.3	<0.05	0.3	4.65	6.8	0.03	1	0.3	13.9	<10	<2
3440765	Soil	1.42	32.6	0.3	<0.05	0.2	3.01	6.1	0.02	<1	0.2	9.3	<10	<2
3440501	Soil	0.04	2.0	<0.1	<0.05	<0.1	0.73	2.1	<0.02	<1	<0.1	0.5	<10	<2
3440502	Soil	0.32	0.6	<0.1	<0.05	0.1	1.13	3.6	<0.02	<1	<0.1	3.2	<10	<2
3440503	Soil	0.95	11.3	0.1	<0.05	0.9	4.12	9.8	<0.02	<1	0.3	9.8	<10	<2
3440504	Soil	3.28	2.3	0.9	<0.05	16.9	2.17	12.2	0.03	<1	0.4	3.2	14	<2
3440505	Soil	0.13	1.1	<0.1	<0.05	1.4	0.76	2.4	<0.02	<1	<0.1	1.0	<10	<2
3440506	Soil	0.04	0.8	<0.1	<0.05	0.2	0.72	1.9	<0.02	<1	<0.1	1.8	<10	<2
3440507	Soil	2.32	8.1	0.5	<0.05	2.0	5.12	8.8	<0.02	<1	0.3	11.4	<10	<2
3440508	Soil	0.95	2.3	0.3	<0.05	<0.1	0.75	1.3	<0.02	<1	<0.1	0.3	<10	<2
3440509	Soil	0.06	0.7	0.1	<0.05	<0.1	0.51	1.7	<0.02	<1	<0.1	0.4	<10	<2
3440510	Soil	0.49	1.6	0.3	<0.05	0.2	2.16	5.4	<0.02	<1	0.2	1.6	<10	<2
3440511	Soil	0.54	2.8	0.2	<0.05	0.3	1.05	2.6	<0.02	<1	<0.1	5.1	<10	<2
3440512	Soil	0.48	4.8	0.3	<0.05	<0.1	1.13	3.3	<0.02	<1	<0.1	2.8	<10	<2
3440513	Soil	0.15	4.9	0.2	<0.05	0.3	13.87	29.9	0.03	<1	0.7	5.3	<10	<2
3440514	Soil	0.84	3.5	0.3	<0.05	1.0	8.57	11.2	<0.02	<1	0.5	4.7	<10	<2
3440515	Soil	0.52	2.8	0.2	<0.05	<0.1	1.29	3.4	<0.02	<1	<0.1	4.2	<10	<2
3440516	Soil	0.83	4.4	0.4	<0.05	0.4	2.64	9.2	0.03	<1	0.2	5.8	<10	<2
3440517	Soil	1.49	10.6	0.6	<0.05	1.7	4.98	14.4	0.03	<1	0.2	14.4	<10	<2
3440518	Soil	5.81	2.4	0.4	<0.05	0.3	1.56	3.9	0.03	<1	<0.1	0.9	<10	<2
3440519	Soil	1.01	45.7	0.2	<0.05	<0.1	1.54	4.1	<0.02	<1	0.5	12.5	<10	<2
3440520	Soil	1.43	50.2	0.2	<0.05	<0.1	1.90	4.8	<0.02	<1	0.5	11.6	<10	<2
3440521	Soil	2.31	35.9	0.3	<0.05	<0.1	0.73	1.9	<0.02	<1	0.2	5.7	<10	<2
3440522	Soil	1.03	69.0	0.3	<0.05	<0.1	1.56	3.8	<0.02	<1	0.4	11.9	<10	<2
3440523	Soil	1.52	46.0	0.2	<0.05	<0.1	1.30	2.9	<0.02	<1	0.3	5.5	<10	<2
3440524	Soil	3.54	23.7	0.4	<0.05	0.2	0.97	2.6	<0.02	<1	0.3	5.0	<10	<2
3440525	Soil	1.93	31.9	0.3	<0.05	<0.1	0.79	2.1	<0.02	<1	0.1	2.4	<10	<2
3440526	Soil	1.52	51.6	0.2	<0.05	0.2	1.53	2.8	<0.02	<1	0.4	12.2	<10	2
3440527	Soil	1.29	21.2	0.3	<0.05	0.3	3.76	7.2	<0.02	<1	0.3	7.8	<10	<2
3440528	Soil	1.34	20.1	0.5	<0.05	0.1	1.85	4.3	<0.02	<1	0.3	10.0	<10	<2



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Method Analyte	Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3440529	Soil	1.74	4.64	2.05	6.2	261	2.3	1.3	71	1.98	2.6	0.6	3.7	1.1	8.4	0.08	0.09	0.10	47	0.05	0.026
3440530	Soil	7.03	4.04	2.98	8.1	129	2.1	1.4	91	3.07	2.8	0.8	2.5	2.1	6.3	0.05	0.18	0.21	72	0.08	0.020
3440531	Soil	0.58	6.66	1.48	30.0	47	2.6	8.2	364	3.08	1.0	0.4	2.3	0.9	7.7	0.02	0.08	<0.02	87	0.10	0.058
3440532	Soil	2.20	7.17	1.40	36.6	24	3.9	10.0	343	3.17	0.8	0.7	2.1	0.8	10.8	0.09	0.10	<0.02	94	0.23	0.079
3440533	Soil	0.04	0.42	1.51	20.9	28	2.0	3.0	202	0.80	0.3	0.2	1.3	0.2	12.4	<0.01	0.06	0.05	15	0.09	0.009
3440534	Soil	0.28	1.27	1.36	25.5	47	2.8	6.1	231	2.95	0.6	0.4	1.3	0.6	7.3	0.02	0.08	<0.02	68	0.05	0.016
3440535	Soil	0.66	26.53	6.02	57.2	225	16.2	9.4	359	3.63	3.5	0.7	1.6	2.0	17.0	0.17	0.15	0.08	76	0.23	0.030
3440536	Soil	0.96	11.92	6.55	27.2	159	8.4	4.6	187	3.96	3.3	0.5	1.7	0.9	13.6	0.06	0.14	0.06	69	0.14	0.021
3440351	Soil	3.07	57.16	9.04	80.9	751	16.4	18.1	1957	4.55	<0.1	1.1	2.8	0.8	13.9	0.14	0.04	0.22	193	0.06	0.058
3440352	Soil	0.68	94.86	5.36	54.1	141	15.7	14.7	611	3.83	0.3	0.5	4.9	1.2	3.2	0.12	0.04	0.11	120	0.04	0.027
3440353	Soil	0.59	28.47	4.64	22.6	107	7.7	10.1	807	2.44	0.2	0.5	5.0	1.2	3.2	0.08	0.04	0.12	68	0.01	0.031
3440354	Soil	1.59	58.00	4.90	93.4	505	26.8	10.7	502	4.95	0.5	1.1	2.1	1.1	5.0	0.11	0.08	0.12	202	0.06	0.078
3440355	Soil	0.95	64.06	8.75	158.2	736	74.0	61.9	1645	5.68	0.4	1.2	2.6	0.6	36.1	2.68	0.05	0.05	181	0.60	0.123
3440356	Soil	0.43	101.34	5.64	63.9	145	42.9	21.0	1035	3.78	0.5	0.6	1.3	1.3	6.5	0.07	0.04	0.10	143	0.16	0.040
3440357	Soil	0.30	62.63	2.20	43.9	40	24.2	18.0	309	3.93	0.3	0.5	1.1	1.1	3.4	0.06	0.04	0.05	162	0.11	0.027
3440358	Soil	0.59	70.28	3.93	53.5	68	37.9	19.4	755	3.63	0.6	0.6	<0.2	1.1	8.6	0.08	0.03	0.06	140	0.20	0.051
3440359	Soil	0.75	41.20	1.63	38.5	39	15.9	8.4	196	2.30	0.6	1.4	1.2	2.2	6.8	0.04	0.03	<0.02	58	0.18	0.038
3440360	Soil	0.94	65.76	0.75	25.0	61	7.0	5.2	134	2.22	1.0	0.4	0.5	0.8	3.7	0.03	0.04	<0.02	38	0.19	0.047
3440361	Soil	0.76	120.52	1.31	47.2	51	23.0	23.9	660	3.18	0.8	1.1	2.6	1.8	6.5	0.07	0.05	<0.02	51	0.26	0.086
3440362	Soil	0.59	94.21	1.20	49.7	114	28.6	25.8	1118	2.83	0.4	0.9	1.1	1.4	2.7	0.19	0.03	<0.02	82	0.15	0.030
3440363	Soil	1.21	54.82	2.07	40.6	41	15.6	13.1	488	2.62	0.8	1.3	0.6	4.1	8.0	0.04	0.04	0.03	59	0.20	0.062
3440364	Soil	0.88	34.13	2.01	29.0	53	12.4	6.7	173	2.19	0.5	0.9	<0.2	1.0	4.6	0.02	0.04	<0.02	60	0.16	0.027
3440365	Soil	0.82	66.75	1.80	36.8	24	15.3	12.8	389	2.30	0.5	1.5	0.4	4.4	6.0	0.04	0.04	<0.02	51	0.24	0.052
3440366	Soil	0.79	66.06	1.64	36.1	23	14.7	8.7	245	2.55	0.3	1.1	0.7	2.1	4.3	0.03	0.04	<0.02	55	0.15	0.027
3440367	Soil	1.47	215.98	1.82	55.0	50	19.9	15.8	454	2.72	0.8	2.6	3.0	8.2	6.9	0.07	0.04	0.04	59	0.30	0.065
3440368	Soil	0.72	36.50	2.02	34.5	47	13.2	8.0	208	2.20	0.3	1.1	<0.2	1.3	5.2	0.03	0.03	<0.02	57	0.16	0.028
3440369	Soil	0.67	45.65	1.88	37.6	35	14.6	9.3	257	2.34	0.6	1.1	1.0	1.8	5.6	0.02	0.03	0.07	59	0.18	0.032
3440370	Soil	0.54	45.76	1.51	41.0	40	14.4	8.7	224	2.24	0.4	1.2	0.4	2.6	5.0	0.02	0.03	0.05	54	0.17	0.028
3440371	Soil	0.63	44.11	1.92	44.0	83	15.0	9.6	241	2.23	0.4	1.2	0.5	2.0	6.5	0.04	0.03	0.03	54	0.20	0.038
3440372	Soil	0.66	52.57	1.57	42.2	51	16.2	10.9	302	2.21	0.4	1.2	0.8	3.1	6.9	0.05	0.03	<0.02	52	0.21	0.039



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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
3440529	Soil	2.3	14.3	0.30	45.9	0.154	<1	0.87	0.004	0.05	<0.1	0.9	0.08	0.03	54	0.7	0.04	4.5	0.75	<0.1	<0.02
3440530	Soil	2.2	13.4	0.30	53.4	0.191	<1	1.23	0.005	0.07	<0.1	1.2	0.08	<0.02	71	0.8	0.05	7.1	0.90	<0.1	<0.02
3440531	Soil	2.1	10.2	1.64	400.6	0.201	<1	2.54	0.010	0.64	<0.1	4.5	0.17	0.02	48	0.2	<0.02	9.0	2.31	<0.1	<0.02
3440532	Soil	2.4	12.1	2.02	445.2	0.196	<1	2.78	0.006	0.79	<0.1	5.6	0.23	<0.02	24	0.1	<0.02	8.2	2.66	0.1	<0.02
3440533	Soil	0.9	2.3	0.67	9.8	0.048	<1	0.75	0.002	0.02	<0.1	0.7	0.02	<0.02	14	<0.1	<0.02	3.1	0.19	<0.1	<0.02
3440534	Soil	1.6	8.9	1.34	202.1	0.249	<1	2.15	0.008	0.45	<0.1	2.1	0.12	<0.02	40	0.2	<0.02	8.3	1.85	<0.1	<0.02
3440535	Soil	5.2	33.9	0.88	87.2	0.174	2	3.13	0.017	0.14	0.1	5.4	0.09	0.02	99	0.7	0.02	9.3	1.60	<0.1	0.06
3440536	Soil	4.2	23.7	0.42	35.3	0.143	1	1.54	0.011	0.04	<0.1	2.7	0.03	0.02	62	0.7	<0.02	9.6	0.46	<0.1	0.03
3440351	Soil	5.9	44.2	1.03	126.7	0.216	<1	3.04	0.008	0.54	<0.1	8.2	0.27	0.04	60	1.5	0.07	12.5	3.94	0.1	<0.02
3440352	Soil	6.2	28.4	0.90	305.5	0.150	<1	2.30	0.009	0.21	0.1	7.2	0.08	0.03	57	1.0	0.05	11.9	1.32	<0.1	<0.02
3440353	Soil	5.7	17.7	0.48	142.3	0.098	1	1.20	0.004	0.13	0.2	4.1	0.06	0.03	40	0.9	0.04	8.8	0.86	<0.1	0.04
3440354	Soil	2.8	151.9	3.11	487.6	0.199	1	4.17	0.022	1.07	<0.1	19.9	1.01	0.07	32	3.4	0.07	11.3	2.00	0.3	<0.02
3440355	Soil	2.2	113.1	3.39	658.1	0.318	1	8.94	0.153	2.14	<0.1	23.8	1.15	<0.02	13	1.3	0.02	15.5	1.89	0.2	<0.02
3440356	Soil	4.3	145.1	1.98	101.9	0.151	2	4.24	0.034	0.33	0.1	8.7	0.22	0.02	27	1.3	<0.02	9.9	1.34	<0.1	<0.02
3440357	Soil	2.4	83.0	1.96	123.1	0.199	2	2.96	0.024	0.42	<0.1	7.8	0.11	0.02	22	0.6	<0.02	9.0	1.25	0.2	<0.02
3440358	Soil	3.6	98.7	1.77	95.2	0.129	2	3.22	0.045	0.30	<0.1	7.9	0.25	0.04	45	0.8	<0.02	9.5	1.31	<0.1	0.03
3440359	Soil	2.7	43.1	0.91	68.1	0.148	<1	1.52	0.017	0.15	0.2	2.4	0.08	<0.02	10	0.3	<0.02	4.5	0.62	0.1	<0.02
3440360	Soil	0.7	15.9	0.65	188.6	0.102	<1	0.94	0.020	0.29	<0.1	1.4	0.08	<0.02	6	1.3	0.09	2.6	0.50	<0.1	<0.02
3440361	Soil	2.1	67.7	1.19	224.4	0.170	<1	1.87	0.019	0.51	0.2	2.1	0.21	<0.02	16	1.2	0.03	4.9	1.02	0.1	<0.02
3440362	Soil	2.1	56.5	1.70	281.2	0.176	1	2.36	0.016	0.48	0.2	4.9	0.30	<0.02	5	<0.1	0.02	5.5	0.99	0.1	<0.02
3440363	Soil	3.4	42.9	1.01	79.6	0.150	<1	1.66	0.017	0.20	0.2	2.5	0.11	<0.02	11	0.8	0.05	5.0	0.80	0.1	<0.02
3440364	Soil	2.7	40.2	0.74	35.3	0.150	<1	1.47	0.016	0.08	0.2	2.3	0.07	<0.02	18	0.6	<0.02	5.2	0.70	<0.1	<0.02
3440365	Soil	4.4	33.5	0.98	128.3	0.150	<1	1.63	0.019	0.37	0.3	2.5	0.16	<0.02	<5	0.1	<0.02	4.3	0.78	<0.1	<0.02
3440366	Soil	2.4	43.5	0.95	79.3	0.160	<1	1.68	0.015	0.18	0.2	2.5	0.09	<0.02	18	0.5	<0.02	4.8	0.59	<0.1	<0.02
3440367	Soil	5.8	39.3	1.21	169.3	0.174	<1	1.97	0.025	0.51	0.6	3.4	0.23	<0.02	<5	<0.1	0.09	4.7	1.12	0.2	0.02
3440368	Soil	2.8	39.7	0.87	45.9	0.139	1	1.48	0.016	0.11	0.2	2.1	0.08	<0.02	16	0.4	0.02	4.6	0.56	<0.1	<0.02
3440369	Soil	2.5	38.3	0.97	99.9	0.146	<1	1.46	0.018	0.25	0.2	2.2	0.12	<0.02	17	0.5	<0.02	4.6	0.73	0.1	0.04
3440370	Soil	2.6	36.7	0.95	80.4	0.148	<1	1.53	0.017	0.21	0.3	2.3	0.08	<0.02	11	0.4	0.03	4.1	0.62	<0.1	<0.02
3440371	Soil	3.3	38.2	1.02	81.0	0.143	1	1.63	0.019	0.21	0.2	2.3	0.10	<0.02	12	0.3	0.03	4.7	0.76	0.1	<0.02
3440372	Soil	3.5	39.4	0.95	101.7	0.145	<1	1.49	0.017	0.24	0.4	2.6	0.11	<0.02	14	0.4	0.02	4.6	0.67	0.1	<0.02



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Method Analyte	Unit	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppb	ppm	ppb	ppb	ppb							
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440529	Soil	1.59	4.8	0.4	<0.05	0.1	1.17	3.8	<0.02	<1	<0.1	1.5	<10	<2
3440530	Soil	2.36	5.9	0.6	<0.05	0.4	1.82	4.1	<0.02	<1	<0.1	1.9	<10	<2
3440531	Soil	0.93	23.1	0.6	<0.05	1.1	2.04	3.9	<0.02	<1	0.2	11.1	<10	<2
3440532	Soil	0.43	31.3	0.5	<0.05	0.4	3.67	4.3	<0.02	<1	0.3	14.5	<10	<2
3440533	Soil	0.03	1.3	0.2	<0.05	0.3	0.53	1.6	<0.02	<1	<0.1	2.9	<10	<2
3440534	Soil	0.82	17.6	0.4	<0.05	0.2	1.05	2.9	<0.02	<1	0.2	7.0	<10	<2
3440535	Soil	1.62	8.7	0.5	<0.05	2.4	3.54	10.1	0.04	<1	0.4	13.2	<10	<2
3440536	Soil	1.52	2.8	0.4	<0.05	1.1	2.13	7.8	0.03	<1	<0.1	5.0	<10	<2
3440351	Soil	2.75	49.3	1.2	<0.05	0.3	4.87	10.5	0.05	<1	0.3	11.3	<10	<2
3440352	Soil	2.08	10.4	1.0	<0.05	0.4	4.21	14.5	0.06	<1	0.3	8.6	<10	<2
3440353	Soil	1.58	6.7	0.9	<0.05	1.8	2.10	12.8	0.03	<1	0.1	4.1	<10	<2
3440354	Soil	0.62	38.4	0.5	<0.05	0.4	4.12	5.6	0.03	<1	0.2	22.2	<10	<2
3440355	Soil	0.26	80.8	0.8	<0.05	0.4	11.50	6.0	0.06	1	1.3	16.7	<10	<2
3440356	Soil	0.84	22.7	0.4	<0.05	0.8	4.51	8.6	0.02	<1	0.1	10.1	<10	<2
3440357	Soil	0.47	16.4	0.2	<0.05	0.2	2.14	4.6	0.02	<1	<0.1	8.1	<10	<2
3440358	Soil	0.70	17.8	0.4	<0.05	1.7	3.55	6.8	0.02	<1	0.2	9.1	<10	<2
3440359	Soil	0.69	8.9	0.2	<0.05	0.6	2.37	5.1	<0.02	<1	<0.1	5.9	<10	<2
3440360	Soil	0.23	10.7	<0.1	<0.05	0.3	1.07	1.4	<0.02	<1	<0.1	4.4	<10	<2
3440361	Soil	0.51	20.1	0.2	<0.05	0.2	2.27	4.5	<0.02	<1	<0.1	9.5	<10	<2
3440362	Soil	0.09	19.4	0.1	<0.05	0.2	3.69	3.3	<0.02	<1	<0.1	13.1	<10	<2
3440363	Soil	0.51	11.4	0.3	<0.05	0.3	2.79	6.1	<0.02	<1	<0.1	6.2	<10	<2
3440364	Soil	0.80	7.0	0.3	<0.05	0.4	2.45	5.2	<0.02	<1	<0.1	4.2	<10	<2
3440365	Soil	0.53	18.4	0.2	<0.05	0.6	3.24	8.3	<0.02	<1	0.1	6.4	<10	<2
3440366	Soil	0.68	9.4	0.3	<0.05	0.3	2.74	4.9	<0.02	<1	<0.1	5.2	<10	<2
3440367	Soil	0.47	26.9	0.3	<0.05	0.7	3.97	10.9	<0.02	<1	0.1	8.6	<10	<2
3440368	Soil	0.72	6.7	0.3	<0.05	0.3	2.44	5.3	<0.02	<1	<0.1	4.4	<10	<2
3440369	Soil	0.64	14.3	0.2	<0.05	1.5	2.33	4.6	<0.02	<1	<0.1	5.5	<10	<2
3440370	Soil	0.66	10.7	0.2	<0.05	0.5	2.58	5.3	<0.02	<1	<0.1	4.8	<10	<2
3440371	Soil	0.67	11.8	0.2	<0.05	0.4	2.68	6.0	<0.02	<1	<0.1	5.5	<10	<2
3440372	Soil	0.59	12.9	0.2	<0.05	0.3	2.74	6.4	<0.02	<1	<0.1	5.8	<10	<2



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Method Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3440373	Soil		0.56	52.48	1.91	39.9	46	15.4	9.6	287	2.34	0.4	0.8	1.2	0.9	5.1	0.04	0.03	0.03	60	0.18	0.036	
3440374	Soil		0.51	49.09	1.98	45.2	82	12.9	8.5	259	2.21	0.6	0.8	0.8	0.7	4.7	0.06	0.03	0.03	58	0.18	0.044	
3440375	Soil		0.39	332.16	10.54	94.1	552	115.2	53.5	1708	5.90	3.1	0.2	5.8	1.1	13.2	0.29	0.09	0.06	207	0.38	0.063	
3440376	Soil		0.72	84.53	5.30	42.0	205	22.9	18.9	300	4.31	0.5	0.4	1.0	0.8	4.4	0.08	0.04	0.10	174	0.12	0.061	
3440377	Soil		1.59	48.24	5.88	48.6	142	30.8	9.8	326	5.55	1.4	0.5	1.9	1.3	3.4	0.04	0.06	0.12	194	0.07	0.042	
3440378	Soil		1.26	53.64	7.34	89.3	117	38.7	13.0	522	5.48	2.7	0.5	3.9	1.1	5.1	0.12	0.07	0.09	143	0.10	0.068	
3440379	Soil		0.61	127.96	8.79	45.3	66	57.7	31.9	757	5.30	0.3	0.3	1.7	3.4	24.9	0.10	0.03	<0.02	217	0.72	0.079	
3440380	Soil		0.79	62.81	6.51	35.9	217	19.9	8.9	243	4.67	0.2	0.6	1.4	1.0	3.3	0.07	0.05	0.14	172	0.08	0.051	
3440381	Soil		0.36	82.19	3.59	64.0	108	69.4	22.9	949	4.45	0.5	0.3	1.2	1.3	8.3	0.12	0.02	0.04	164	0.27	0.061	
3440382	Soil		0.54	49.84	3.91	44.5	75	41.9	14.1	546	4.53	0.1	0.4	0.3	0.9	4.1	0.06	0.03	0.06	152	0.11	0.047	
3440383	Soil		0.56	43.34	5.86	78.4	64	29.8	22.7	1583	5.66	<0.1	0.6	<0.2	1.3	6.1	0.11	0.04	0.08	200	0.14	0.044	
3440384	Soil		0.51	45.09	5.21	43.8	96	39.6	12.3	279	3.51	0.1	0.6	0.4	0.3	4.3	0.04	0.03	0.08	153	0.12	0.079	
3440385	Soil		0.22	9.33	3.96	10.8	101	16.7	4.4	97	1.72	<0.1	0.5	2.0	0.3	2.0	0.05	<0.02	0.17	84	0.06	0.061	
3440386	Soil		1.04	19.02	10.54	47.5	97	8.6	5.3	305	3.75	0.5	2.4	1.3	3.6	3.9	0.09	0.05	0.19	66	0.07	0.050	
3440387	Soil		0.55	8.66	3.89	28.8	8	29.3	11.2	175	3.55	0.3	0.7	0.9	1.4	2.6	0.01	<0.02	0.08	111	0.05	0.038	
3440388	Soil		0.41	49.51	4.12	43.9	50	20.9	14.6	569	3.04	0.4	0.5	0.6	0.6	6.5	0.08	0.03	0.06	79	0.15	0.045	
3440389	Soil		1.12	55.94	3.66	56.5	82	23.6	18.4	419	3.97	0.2	0.5	1.0	0.6	3.0	0.16	0.03	0.09	144	0.09	0.038	
3440390	Soil		0.31	31.73	3.45	31.0	74	24.3	13.1	204	3.72	0.2	0.3	1.6	0.3	1.5	0.05	0.03	0.09	124	0.08	0.028	
3440391	Soil		0.84	27.26	2.17	26.3	23	22.9	5.2	170	2.09	<0.1	0.5	4.9	0.6	2.9	0.04	0.04	1.44	55	0.11	0.033	
3440392	Soil		0.45	63.05	2.36	32.9	92	18.3	9.4	207	3.23	<0.1	0.5	1.0	0.4	5.0	0.04	0.03	0.75	87	0.10	0.043	
3440393	Soil		0.27	21.36	1.55	25.4	33	3.1	5.5	276	2.86	<0.1	0.5	0.5	1.2	2.2	0.02	<0.02	0.03	51	0.02	0.024	
3440394	Soil		0.46	80.81	1.08	28.4	41	17.4	11.1	174	2.10	<0.1	0.2	0.8	0.4	6.2	0.02	<0.02	<0.02	63	0.18	0.031	
3440395	Soil		0.34	54.92	1.22	34.3	13	12.3	9.4	177	2.10	<0.1	0.4	1.6	1.1	4.9	0.01	<0.02	<0.02	57	0.16	0.034	
3440396	Soil		0.71	12.58	2.70	41.7	20	4.3	9.2	333	3.75	<0.1	1.0	0.7	3.1	2.9	0.03	0.03	<0.02	80	0.05	0.032	
3440397	Soil		0.31	11.62	2.47	42.8	19	6.4	10.7	321	2.86	0.2	1.0	0.4	4.2	4.5	0.01	0.02	0.07	72	0.07	0.026	
3440398	Soil		0.33	13.18	2.36	51.3	15	7.1	8.2	401	3.64	0.2	0.8	<0.2	5.2	2.4	0.02	0.02	0.03	71	0.05	0.021	
3440399	Soil		0.20	7.30	3.97	47.3	4	4.6	8.7	327	2.80	0.2	1.1	0.6	4.6	5.7	<0.01	0.03	0.05	60	0.07	0.022	
3440400	Soil		0.27	7.68	4.97	25.5	41	3.4	4.2	171	1.78	<0.1	1.5	0.4	2.8	3.5	0.01	0.03	0.06	34	0.04	0.052	
3440701	Soil		0.05	0.65	10.48	2.0	14	0.5	0.3	16	0.15	<0.1	0.4	0.7	1.9	2.1	<0.01	0.02	0.08	12	0.02	0.008	
3440702	Soil		0.06	1.57	6.27	29.1	79	2.7	5.6	222	1.68	<0.1	0.5	0.5	1.8	6.9	<0.01	0.02	0.03	35	0.05	0.013	



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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
3440373	Soil	2.2	43.0	0.96	67.5	0.126	<1	1.47	0.017	0.16	0.2	2.5	0.09	<0.02	7	0.5	<0.02	4.6	0.67	<0.1	<0.02
3440374	Soil	1.9	33.0	0.95	67.7	0.110	1	1.46	0.017	0.16	0.2	2.2	0.10	<0.02	15	0.3	0.03	4.4	0.65	<0.1	<0.02
3440375	Soil	1.6	298.3	3.22	275.3	0.196	2	6.20	0.071	0.62	0.1	13.8	0.32	0.04	38	1.4	0.09	11.4	1.12	0.2	<0.02
3440376	Soil	2.9	92.9	1.80	66.4	0.154	1	4.48	0.027	0.15	<0.1	7.9	0.10	0.06	83	1.8	0.04	11.3	0.64	<0.1	<0.02
3440377	Soil	4.0	160.6	1.64	56.2	0.206	<1	4.22	0.010	0.08	<0.1	10.1	0.08	0.04	94	2.3	0.02	13.6	0.92	<0.1	0.02
3440378	Soil	3.9	86.9	2.45	174.1	0.189	1	4.82	0.012	0.46	<0.1	9.2	0.21	0.06	57	2.6	0.04	10.9	1.48	<0.1	<0.02
3440379	Soil	3.9	182.8	3.25	176.6	0.246	<1	7.46	0.122	0.44	<0.1	12.8	0.24	0.03	59	2.9	0.04	13.3	0.82	0.2	<0.02
3440380	Soil	4.2	95.1	1.13	33.2	0.181	1	3.29	0.009	0.04	<0.1	6.5	0.07	0.05	76	1.5	0.03	13.9	0.79	<0.1	<0.02
3440381	Soil	2.9	215.0	2.66	149.0	0.201	1	6.79	0.022	0.38	0.1	11.7	0.23	0.04	90	1.7	<0.02	10.6	1.02	0.2	<0.02
3440382	Soil	3.4	196.8	1.52	33.7	0.179	<1	4.32	0.012	0.04	<0.1	8.2	0.07	0.04	102	1.6	<0.02	11.4	0.74	<0.1	<0.02
3440383	Soil	3.1	104.3	2.00	69.4	0.270	1	4.06	0.009	0.17	<0.1	7.1	0.10	0.04	70	1.3	0.02	13.5	1.40	0.1	<0.02
3440384	Soil	3.5	166.3	1.50	26.3	0.124	1	3.31	0.018	0.05	<0.1	5.5	0.10	0.07	69	0.9	<0.02	13.6	0.99	<0.1	<0.02
3440385	Soil	2.3	103.6	0.53	6.9	0.077	1	1.66	0.008	0.01	<0.1	2.8	0.05	0.07	72	0.5	<0.02	9.2	0.26	<0.1	<0.02
3440386	Soil	13.0	25.6	0.65	46.4	0.087	1	2.98	0.011	0.08	<0.1	3.7	0.13	0.04	76	2.0	<0.02	13.2	0.53	<0.1	0.06
3440387	Soil	6.2	129.4	1.25	22.6	0.178	<1	2.79	0.012	0.04	<0.1	3.0	0.04	0.03	24	0.8	<0.02	11.1	0.50	0.1	0.08
3440388	Soil	4.2	51.2	1.20	37.2	0.112	<1	3.05	0.017	0.04	<0.1	3.6	0.06	0.04	44	0.9	<0.02	8.2	0.71	<0.1	0.04
3440389	Soil	3.4	64.4	1.84	34.1	0.158	<1	3.26	0.010	0.04	<0.1	5.6	0.10	0.03	41	1.1	<0.02	11.5	1.19	<0.1	<0.02
3440390	Soil	2.1	100.7	1.38	8.7	0.099	<1	2.73	0.012	0.01	<0.1	4.6	0.04	0.02	48	0.9	<0.02	10.5	0.50	<0.1	<0.02
3440391	Soil	2.2	52.6	0.76	32.5	0.116	<1	1.99	0.010	0.07	1.3	4.8	0.04	0.03	26	0.6	0.10	6.2	0.59	<0.1	<0.02
3440392	Soil	2.0	49.3	0.94	74.6	0.134	<1	3.10	0.012	0.23	0.2	5.4	0.15	0.05	62	0.9	0.21	8.4	1.19	<0.1	<0.02
3440393	Soil	1.8	7.0	0.98	64.5	0.170	<1	2.02	0.007	0.39	<0.1	3.8	0.09	0.02	28	0.4	<0.02	7.2	1.01	<0.1	<0.02
3440394	Soil	0.9	41.6	1.24	90.6	0.145	<1	2.06	0.024	0.35	<0.1	2.9	0.08	<0.02	7	0.3	<0.02	5.2	0.74	0.1	<0.02
3440395	Soil	1.7	30.9	1.21	102.8	0.141	<1	1.90	0.017	0.35	0.1	2.8	0.10	<0.02	11	0.3	<0.02	5.2	0.82	<0.1	<0.02
3440396	Soil	2.8	11.7	1.34	193.1	0.201	<1	2.62	0.008	0.51	<0.1	4.4	0.17	0.02	24	0.7	<0.02	9.1	1.24	0.1	<0.02
3440397	Soil	2.2	14.8	1.56	183.3	0.191	<1	2.33	0.009	0.48	<0.1	3.2	0.13	<0.02	23	0.2	<0.02	7.3	1.20	0.1	<0.02
3440398	Soil	5.0	16.7	1.67	154.5	0.201	<1	2.75	0.009	0.66	<0.1	6.0	0.20	<0.02	26	0.4	<0.02	7.9	1.39	0.2	0.03
3440399	Soil	3.8	11.1	1.21	146.8	0.202	<1	2.11	0.009	0.49	<0.1	2.8	0.21	<0.02	12	0.2	<0.02	8.0	1.46	<0.1	<0.02
3440400	Soil	4.9	9.6	0.68	55.8	0.128	<1	1.44	0.006	0.26	<0.1	2.2	0.14	0.06	43	0.3	<0.02	5.4	0.78	<0.1	<0.02
3440701	Soil	0.8	1.5	0.05	11.5	0.103	<1	0.22	0.004	0.04	<0.1	0.4	0.05	<0.02	8	<0.1	<0.02	3.4	0.58	<0.1	0.02
3440702	Soil	1.5	5.7	0.65	86.6	0.218	<1	1.47	0.006	0.51	<0.1	1.8	0.19	<0.02	14	<0.1	<0.02	10.3	0.76	0.1	<0.02



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440373	Soil	0.53	9.8	0.2	<0.05	0.2	2.37	4.3	<0.02	<1	<0.1	5.5	<10	<2
3440374	Soil	0.44	9.9	0.2	<0.05	0.2	1.92	3.8	<0.02	<1	0.1	4.3	<10	<2
3440375	Soil	0.27	31.8	0.2	<0.05	0.2	3.80	3.2	<0.02	<1	0.2	15.6	11	5
3440376	Soil	0.74	7.0	0.4	<0.05	0.4	1.78	5.3	0.03	<1	0.1	8.6	<10	<2
3440377	Soil	1.14	7.7	0.6	<0.05	0.9	2.39	7.7	0.05	<1	0.2	9.3	<10	<2
3440378	Soil	1.02	21.5	0.5	<0.05	0.3	4.01	7.5	0.03	<1	0.5	14.7	<10	<2
3440379	Soil	0.37	16.1	0.4	<0.05	0.4	2.79	7.5	0.03	1	0.4	18.6	<10	3
3440380	Soil	1.37	3.9	0.6	<0.05	0.8	2.71	8.2	0.03	<1	0.1	7.0	<10	<2
3440381	Soil	0.99	22.0	0.6	<0.05	0.5	3.15	5.7	0.02	<1	0.4	14.4	<10	2
3440382	Soil	1.47	5.7	0.4	<0.05	1.2	2.50	6.2	0.03	<1	0.2	9.7	<10	2
3440383	Soil	0.77	11.6	0.4	<0.05	0.6	2.34	6.3	0.03	<1	0.1	11.1	<10	2
3440384	Soil	2.41	5.2	0.6	<0.05	1.2	2.20	6.6	<0.02	<1	0.2	5.9	<10	<2
3440385	Soil	0.85	1.0	0.6	<0.05	0.4	1.42	4.1	0.02	<1	<0.1	1.9	<10	<2
3440386	Soil	5.87	5.6	1.2	<0.05	4.9	6.24	23.7	0.05	<1	0.2	4.3	<10	<2
3440387	Soil	4.87	2.4	0.9	<0.05	5.9	2.56	11.4	0.03	<1	0.2	5.0	<10	<2
3440388	Soil	1.96	3.8	0.5	<0.05	2.4	3.18	8.3	0.02	<1	0.1	10.4	<10	<2
3440389	Soil	1.38	3.8	0.5	<0.05	1.4	3.67	7.0	0.02	<1	0.1	12.1	<10	<2
3440390	Soil	0.90	1.9	0.4	<0.05	0.8	1.96	4.2	0.03	<1	<0.1	6.3	<10	<2
3440391	Soil	0.69	3.3	0.5	<0.05	0.3	2.98	4.7	0.02	<1	0.1	7.6	<10	<2
3440392	Soil	0.72	10.8	0.3	<0.05	0.4	3.26	4.3	0.02	<1	<0.1	5.6	<10	<2
3440393	Soil	1.01	10.6	0.4	<0.05	0.4	1.42	3.6	<0.02	<1	<0.1	3.2	<10	<2
3440394	Soil	0.35	11.7	0.1	<0.05	0.3	1.45	1.8	<0.02	<1	<0.1	5.7	<10	<2
3440395	Soil	0.56	13.0	0.2	<0.05	0.2	1.96	3.4	<0.02	<1	<0.1	5.9	<10	<2
3440396	Soil	2.14	21.4	0.7	<0.05	0.5	2.43	5.4	0.02	<1	<0.1	5.6	<10	<2
3440397	Soil	1.42	19.9	0.6	<0.05	0.6	1.81	4.2	<0.02	<1	0.2	6.6	<10	<2
3440398	Soil	1.06	29.5	0.7	<0.05	1.5	2.38	9.2	0.02	<1	0.2	6.7	<10	<2
3440399	Soil	1.32	25.9	0.7	<0.05	0.7	2.56	7.2	<0.02	<1	<0.1	6.5	<10	<2
3440400	Soil	1.95	14.6	0.6	<0.05	0.9	2.98	8.2	<0.02	<1	<0.1	3.1	<10	<2
3440701	Soil	1.65	4.1	0.7	<0.05	0.7	0.64	1.2	<0.02	<1	<0.1	0.2	<10	<2
3440702	Soil	2.31	29.3	0.9	<0.05	0.2	1.98	2.9	<0.02	<1	<0.1	2.7	<10	<2



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001
3440703	Soil		0.26	2.59	4.53	27.2	36	3.2	5.5	249	2.20	<0.1	1.0	<0.2	1.3	3.6	0.02	<0.02	0.04	58	0.05	0.030	
3440704	Soil		0.66	145.68	1.92	78.3	37	5.1	11.6	693	5.14	1.1	0.5	1.8	2.1	2.4	0.06	<0.02	0.15	99	0.06	0.046	
3440705	Soil		0.35	70.52	1.94	47.4	31	34.9	20.1	653	3.47	0.3	0.3	2.2	0.6	2.3	0.02	0.03	<0.02	132	0.08	0.023	
3440706	Soil		0.39	52.16	2.30	49.7	36	26.8	11.5	262	2.96	0.3	0.2	1.6	0.5	2.1	0.03	0.03	0.07	103	0.09	0.025	
3440707	Soil		0.59	103.38	2.48	135.0	36	24.9	8.5	545	5.78	6.6	0.2	5.6	0.4	3.1	0.02	0.06	0.42	163	0.03	0.035	
3440708	Soil		1.60	19.84	5.07	125.0	84	43.2	14.8	842	3.64	1.0	0.3	1.9	2.3	4.5	0.07	0.03	0.05	57	0.19	0.028	
3440709	Soil		1.06	20.87	4.73	128.1	58	2.6	17.1	939	5.04	0.5	0.2	0.7	1.2	14.3	0.19	0.02	0.04	93	1.13	0.453	
3440710	Soil		1.99	32.61	37.77	435.2	59	48.6	21.3	893	4.30	1.6	0.3	1.3	3.0	11.1	0.52	0.02	0.26	73	0.53	0.035	
3440711	Soil		3.47	58.92	16.97	434.4	115	31.2	18.4	920	4.51	2.7	0.9	1.7	3.7	8.3	0.98	<0.02	1.44	71	0.38	0.045	
3440712	Soil		4.33	871.75	8.10	78.2	1815	16.7	10.0	374	8.21	4.5	0.7	51.4	7.6	7.3	0.28	0.07	11.94	42	0.20	0.046	
3440713	Soil		1.86	137.62	5.51	80.9	160	30.1	19.6	410	2.87	0.1	0.5	1.7	1.8	7.5	0.23	<0.02	0.53	49	0.32	0.042	
3440714	Soil		1.50	133.91	2.64	40.3	407	65.5	9.8	222	2.87	0.1	0.4	16.6	1.4	5.0	0.12	<0.02	0.59	48	0.16	0.033	
3440715	Soil		1.38	263.37	2.67	68.3	70	24.9	16.3	427	3.75	<0.1	0.6	2.0	3.6	7.7	0.12	0.02	0.56	63	0.32	0.041	
3440716	Soil		1.45	24.88	7.33	27.3	144	17.0	11.0	393	2.84	0.2	0.7	2.8	1.6	4.5	0.14	<0.02	0.14	65	0.15	0.049	
3440717	Soil		0.65	25.34	2.56	50.3	110	30.9	14.5	456	3.46	0.5	0.4	0.9	1.8	5.5	0.10	<0.02	0.03	79	0.13	0.036	
3440718	Soil		1.48	39.30	4.97	51.0	312	12.7	8.3	358	4.06	0.4	0.5	0.4	1.5	4.0	0.19	<0.02	0.07	83	0.14	0.044	
3440719	Soil		1.06	15.30	4.27	59.4	99	3.8	4.2	203	2.36	0.2	0.7	0.7	3.4	3.5	0.03	<0.02	0.10	67	0.08	0.036	
3440720	Soil		1.04	39.16	6.57	77.4	60	17.6	15.0	731	3.96	0.2	0.6	1.5	2.1	14.8	0.10	<0.02	0.03	76	0.50	0.075	
3440721	Soil		2.14	22.69	6.39	58.9	77	23.5	11.9	432	3.65	<0.1	0.5	1.2	1.8	12.0	0.04	<0.02	0.03	78	0.31	0.060	
3440722	Soil		1.97	66.50	14.26	84.6	261	24.6	17.1	614	3.74	0.6	0.5	1.8	1.3	5.9	0.08	<0.02	0.34	83	0.20	0.088	
3440723	Soil		0.64	25.90	3.78	61.9	37	24.4	11.4	416	2.94	0.3	0.3	<0.2	1.4	31.0	0.05	<0.02	0.03	80	0.48	0.139	
3440724	Soil		0.51	19.51	2.21	40.9	64	17.3	7.8	219	1.82	0.3	0.3	<0.2	1.0	18.1	0.04	<0.02	<0.02	50	0.34	0.057	
3440725	Soil		0.84	46.18	2.63	64.0	72	26.8	13.7	386	2.71	0.4	0.5	<0.2	1.7	20.9	0.06	<0.02	<0.02	65	0.46	0.104	
3440726	Soil		0.89	50.98	2.91	67.7	36	31.7	16.9	433	2.81	<0.1	0.6	<0.2	1.9	32.2	0.06	<0.02	0.02	66	0.63	0.122	
3440727	Soil		0.72	44.43	2.38	69.2	40	26.1	16.3	405	2.65	0.3	0.4	<0.2	2.0	20.0	0.05	<0.02	<0.02	63	0.52	0.118	
3440728	Soil		0.72	12.81	3.67	52.2	35	18.4	8.8	361	2.52	0.4	0.4	<0.2	1.1	15.4	0.02	<0.02	0.03	80	0.25	0.079	
3440729	Soil		1.65	24.53	2.54	29.5	49	22.7	8.4	252	2.26	0.3	0.3	0.3	0.9	8.5	0.04	<0.02	0.02	60	0.21	0.044	
3440730	Soil		2.87	26.96	4.71	47.5	283	12.5	7.7	271	2.90	0.3	0.6	<0.2	1.3	7.4	0.05	<0.02	0.05	76	0.17	0.081	
3440731	Soil		0.86	8.69	4.64	32.0	80	13.7	5.9	277	1.90	0.4	0.3	0.6	0.8	7.4	0.02	<0.02	0.05	69	0.13	0.068	
3440732	Soil		2.02	23.19	4.03	50.8	126	24.3	13.4	721	2.74	0.4	0.7	0.7	1.0	9.1	0.05	<0.02	0.04	67	0.25	0.082	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm						
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
3440703	Soil	2.4	8.6	0.73	133.7	0.204	<1	1.59	0.006	0.41	<0.1	2.1	0.16	0.03	26	<0.1	<0.02	8.7	1.15	<0.1	<0.02
3440704	Soil	2.3	13.3	1.68	621.5	0.225	<1	3.08	0.011	0.87	0.2	16.5	0.12	0.04	14	1.1	0.10	10.4	0.78	0.2	<0.02
3440705	Soil	1.3	108.7	1.84	40.3	0.176	<1	2.50	0.008	0.09	0.1	9.8	0.07	<0.02	21	0.6	<0.02	6.7	0.74	0.2	<0.02
3440706	Soil	1.3	89.7	1.49	24.9	0.146	<1	1.95	0.008	0.06	<0.1	7.0	0.04	<0.02	12	0.4	0.02	5.7	0.53	0.1	<0.02
3440707	Soil	<0.5	78.2	2.20	165.9	0.227	<1	2.67	0.007	0.54	0.3	9.0	0.18	0.04	9	3.1	0.64	6.4	0.42	0.2	<0.02
3440708	Soil	4.8	81.6	1.48	64.9	0.229	<1	2.07	0.009	0.28	0.1	1.7	0.42	0.02	40	<0.1	<0.02	7.3	0.87	0.1	<0.02
3440709	Soil	4.5	3.9	1.38	83.5	0.297	<1	2.58	0.010	0.57	0.2	5.6	0.33	0.02	56	<0.1	0.06	14.2	1.36	0.3	<0.02
3440710	Soil	5.4	77.8	1.67	136.8	0.283	<1	2.47	0.009	0.30	0.2	2.2	0.29	<0.02	28	<0.1	0.12	8.2	1.04	0.1	<0.02
3440711	Soil	13.4	62.5	1.19	146.0	0.224	<1	2.11	0.011	0.59	<0.1	3.1	0.40	0.04	67	0.7	0.10	8.0	1.06	0.2	<0.02
3440712	Soil	13.6	23.5	0.77	240.9	0.146	<1	1.44	0.016	0.79	<0.1	1.5	0.37	0.61	79	19.8	0.18	9.0	0.86	0.2	<0.02
3440713	Soil	8.4	25.0	0.58	95.8	0.140	<1	1.10	0.016	0.17	<0.1	1.8	0.14	0.05	50	0.4	0.22	5.8	0.83	0.1	<0.02
3440714	Soil	4.9	73.7	1.14	219.6	0.182	<1	1.46	0.010	0.35	<0.1	1.4	0.11	0.04	97	0.7	0.12	6.6	0.57	<0.1	<0.02
3440715	Soil	22.8	43.0	1.08	308.2	0.243	<1	2.77	0.012	0.46	0.1	3.4	0.21	0.03	63	1.1	0.04	7.6	0.75	0.2	0.02
3440716	Soil	5.9	46.7	0.63	175.4	0.209	1	1.32	0.010	0.36	0.1	2.8	0.13	0.04	84	0.4	0.05	6.8	0.84	0.1	<0.02
3440717	Soil	3.2	61.9	1.57	325.0	0.276	<1	2.41	0.013	0.84	0.3	3.0	0.16	0.03	71	0.3	<0.02	7.1	1.41	0.2	<0.02
3440718	Soil	2.8	33.9	0.80	60.1	0.247	<1	1.84	0.010	0.24	0.3	3.2	0.14	0.03	82	0.5	0.03	7.2	1.48	0.1	<0.02
3440719	Soil	5.2	10.1	0.92	138.9	0.219	<1	1.49	0.012	0.55	0.1	3.4	0.24	0.04	52	0.4	<0.02	6.5	1.60	0.1	<0.02
3440720	Soil	3.3	35.0	1.35	253.4	0.265	1	2.36	0.014	0.60	0.3	3.5	0.21	<0.02	77	0.2	0.03	7.5	0.96	0.1	<0.02
3440721	Soil	2.7	46.8	1.19	113.8	0.307	1	2.03	0.014	0.36	0.4	3.5	0.20	0.02	67	0.2	<0.02	8.8	1.16	0.2	<0.02
3440722	Soil	2.9	44.3	1.35	202.8	0.201	<1	2.09	0.015	0.54	0.3	3.8	0.17	0.07	79	0.6	0.08	7.5	1.04	0.2	<0.02
3440723	Soil	4.2	50.9	1.01	83.1	0.228	<1	1.49	0.043	0.17	<0.1	2.8	0.06	<0.02	36	0.2	<0.02	7.1	0.50	0.1	0.03
3440724	Soil	2.7	39.9	0.71	74.2	0.168	<1	0.99	0.033	0.16	0.1	2.1	0.05	<0.02	41	0.2	<0.02	5.3	0.35	<0.1	0.03
3440725	Soil	3.9	46.0	1.13	217.9	0.190	<1	1.65	0.035	0.49	0.2	3.2	0.12	<0.02	33	0.1	<0.02	5.5	0.50	0.1	<0.02
3440726	Soil	4.9	57.2	1.18	144.0	0.190	<1	1.64	0.049	0.33	<0.1	3.4	0.10	<0.02	19	0.1	<0.02	5.4	0.50	0.1	<0.02
3440727	Soil	3.9	41.3	1.17	210.0	0.187	<1	1.64	0.036	0.45	0.1	3.2	0.10	<0.02	27	<0.1	<0.02	5.2	0.50	0.1	<0.02
3440728	Soil	2.8	44.2	0.87	98.9	0.271	<1	1.29	0.033	0.19	0.1	2.9	0.06	<0.02	40	0.2	<0.02	8.4	0.63	0.1	0.02
3440729	Soil	1.9	40.0	0.83	115.6	0.197	<1	1.40	0.017	0.27	0.1	1.9	0.07	<0.02	34	0.3	<0.02	4.8	0.39	0.1	<0.02
3440730	Soil	2.7	32.7	0.65	70.6	0.196	<1	1.62	0.015	0.14	0.1	2.0	0.06	0.02	59	0.4	<0.02	6.5	0.55	<0.1	<0.02
3440731	Soil	2.7	37.0	0.64	79.8	0.238	<1	0.97	0.014	0.26	0.2	2.1	0.09	0.02	67	<0.1	<0.02	8.5	0.59	0.1	<0.02
3440732	Soil	2.9	49.3	1.00	163.5	0.239	<1	1.44	0.011	0.41	0.2	2.6	0.14	0.03	42	0.1	<0.02	6.8	0.80	0.1	<0.02



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppb	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440703	Soil	2.83	20.9	0.7	<0.05	0.2	2.25	4.2	<0.02	<1	<0.1	2.6	<10	<2
3440704	Soil	0.55	19.8	3.0	<0.05	0.5	4.63	4.9	0.13	<1	<0.1	6.5	<10	<2
3440705	Soil	0.34	6.8	0.3	<0.05	0.2	2.97	3.3	0.02	<1	<0.1	6.9	<10	<2
3440706	Soil	0.34	3.3	0.3	<0.05	0.2	2.15	2.8	0.02	<1	<0.1	5.3	<10	<2
3440707	Soil	0.14	15.5	0.7	<0.05	0.3	1.04	1.1	<0.02	<1	<0.1	6.1	<10	3
3440708	Soil	1.64	25.7	0.8	<0.05	0.1	4.88	11.0	0.02	<1	0.5	8.4	<10	<2
3440709	Soil	2.11	61.0	1.8	<0.05	<0.1	19.54	9.0	0.04	<1	0.3	9.2	<10	<2
3440710	Soil	1.76	23.0	0.9	<0.05	0.2	5.00	12.4	0.06	1	0.4	10.3	<10	<2
3440711	Soil	1.99	39.7	1.1	<0.05	0.2	16.44	27.4	0.11	<1	0.5	9.8	<10	<2
3440712	Soil	2.78	44.5	2.7	<0.05	0.2	6.06	21.0	1.50	<1	0.3	4.0	<10	<2
3440713	Soil	1.85	15.2	0.8	<0.05	0.1	5.46	14.5	0.04	<1	0.2	3.9	<10	<2
3440714	Soil	2.34	17.7	0.9	<0.05	<0.1	1.87	8.7	0.02	<1	0.2	2.9	24	18
3440715	Soil	2.56	32.3	1.0	<0.05	1.2	14.21	51.0	0.03	1	0.5	10.5	<10	<2
3440716	Soil	2.76	25.3	0.6	<0.05	0.2	4.18	11.8	<0.02	<1	0.1	2.7	<10	<2
3440717	Soil	1.71	35.1	0.4	<0.05	0.2	1.74	6.6	<0.02	<1	0.1	6.3	<10	<2
3440718	Soil	2.04	22.1	0.4	<0.05	0.2	1.84	7.2	<0.02	<1	0.1	6.2	<10	<2
3440719	Soil	2.47	36.1	0.6	<0.05	<0.1	3.36	9.0	<0.02	<1	<0.1	4.0	<10	<2
3440720	Soil	2.56	57.9	0.6	<0.05	0.2	2.87	7.2	<0.02	<1	0.3	9.4	<10	<2
3440721	Soil	3.23	34.9	0.6	<0.05	<0.1	1.87	6.5	<0.02	<1	0.1	5.0	<10	<2
3440722	Soil	1.18	34.0	0.4	<0.05	0.2	2.33	5.6	0.02	<1	0.2	7.6	<10	<2
3440723	Soil	1.34	13.1	0.4	<0.05	2.1	2.29	8.3	<0.02	<1	0.2	5.7	<10	<2
3440724	Soil	1.28	10.0	0.3	<0.05	1.3	1.83	5.6	<0.02	<1	<0.1	2.5	<10	<2
3440725	Soil	1.37	26.2	0.3	<0.05	0.9	2.60	7.9	<0.02	<1	0.2	5.9	<10	<2
3440726	Soil	1.15	18.6	0.3	<0.05	1.4	3.23	10.2	<0.02	<1	0.2	6.4	<10	<2
3440727	Soil	0.95	21.5	0.3	<0.05	0.6	2.65	7.3	<0.02	<1	0.1	6.4	<10	<2
3440728	Soil	1.71	16.4	0.4	<0.05	1.3	1.89	5.3	<0.02	<1	0.1	2.5	<10	<2
3440729	Soil	1.29	13.7	0.3	<0.05	0.5	1.36	3.6	<0.02	<1	0.1	3.3	<10	<2
3440730	Soil	1.81	8.7	0.5	<0.05	0.2	1.43	5.3	<0.02	<1	0.1	4.9	<10	<2
3440731	Soil	1.29	23.3	0.5	<0.05	<0.1	1.25	4.8	<0.02	<1	<0.1	2.0	<10	<2
3440732	Soil	1.19	50.0	0.4	<0.05	<0.1	1.69	5.8	<0.02	<1	<0.1	5.0	<10	<2



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Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	%	%								
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.01	0.02	0.02	1	0.01	0.001	
3440733	Soil	1.08	21.07	5.77	61.8	38	29.3	13.8	584	3.05	0.2	0.4	<0.2	1.3	5.6	0.03	<0.02	0.05	78	0.27	0.086
3440734	Soil	1.36	71.65	4.33	78.8	70	38.1	19.1	793	3.83	0.3	1.1	0.5	2.4	12.4	0.09	<0.02	0.04	95	0.66	0.114
3440735	Soil	1.06	37.09	10.02	88.0	71	29.6	21.0	906	3.63	<0.1	0.5	<0.2	1.5	8.6	0.09	<0.02	0.04	87	0.39	0.103
3440736	Soil	0.48	27.75	10.69	75.8	53	27.8	16.4	817	3.11	0.6	0.3	0.8	1.8	8.3	0.06	<0.02	0.04	87	0.31	0.109
3440737	Soil	1.29	38.41	15.58	95.1	188	19.5	10.5	359	3.56	1.0	0.5	1.5	2.0	8.9	0.25	0.04	0.07	70	0.31	0.062
3440738	Soil	1.61	31.38	16.36	114.8	63	20.1	9.1	351	3.56	0.7	0.5	0.7	2.2	4.6	0.09	<0.02	0.09	77	0.17	0.069
3440739	Soil	0.84	43.14	6.05	49.2	72	14.1	8.3	319	2.07	0.7	0.5	0.4	2.6	10.2	0.15	<0.02	0.11	45	0.33	0.071
3440740	Soil	2.45	30.60	18.18	133.2	413	23.7	12.6	672	3.68	1.3	0.6	0.4	2.6	3.4	0.15	<0.02	0.11	86	0.14	0.063
3440741	Soil	2.75	39.65	32.59	138.9	174	46.1	19.2	1302	4.32	2.9	1.3	2.8	3.4	10.3	0.35	0.02	0.10	108	0.64	0.082
3440742	Soil	0.72	49.19	3.86	54.4	137	31.9	16.6	352	2.35	0.7	1.4	0.2	1.7	13.1	0.12	<0.02	0.09	55	0.41	0.067
3440743	Soil	5.70	22.60	11.14	62.7	6109	14.4	8.9	343	3.42	3.1	0.6	1.2	1.8	2.1	0.37	<0.02	0.11	109	0.07	0.256
3440744	Soil	6.13	11.98	13.80	20.8	59	10.2	3.5	222	2.09	1.0	0.4	<0.2	1.5	1.7	0.08	<0.02	0.23	130	0.06	0.037
3440745	Soil	2.97	27.99	7.59	81.4	208	34.7	16.8	746	3.83	0.4	1.3	2.4	2.3	9.2	0.30	<0.02	0.11	91	0.74	0.116
3440746	Soil	2.62	35.34	2.45	84.5	127	38.5	21.2	1017	4.21	0.3	1.3	1.4	5.2	2.6	0.20	<0.02	0.06	107	0.20	0.062
3440747	Soil	1.69	26.58	3.22	78.9	117	48.2	22.1	1057	3.95	0.8	0.5	<0.2	1.4	6.0	0.10	<0.02	0.06	114	0.42	0.152
3440601	Soil	2.69	196.08	4.28	140.1	449	48.6	33.9	2930	5.12	1.5	0.5	2.0	1.0	61.9	0.82	0.15	0.13	210	0.50	0.157
3440602	Soil	0.84	293.42	11.73	107.7	1479	24.2	29.5	3287	7.65	0.5	6.5	8.9	6.4	32.9	1.41	0.09	0.25	143	0.33	0.279
3440603	Soil	25.67	362.52	15.03	166.4	927	198.1	86.2	3111	12.07	0.8	5.0	285.8	1.3	10.2	1.55	0.27	0.22	232	0.13	0.173



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Method	Analyte	AQ252																				
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	MDL																			
3440733	Soil	2.8	57.5	1.33	228.6	0.266	<1	1.79	0.016	0.86	0.2	4.2	0.23	0.02	23	<0.1	<0.02	7.4	0.99	0.2	<0.02	
3440734	Soil	3.1	60.3	1.82	381.4	0.291	<1	2.38	0.021	0.98	0.3	6.0	0.31	<0.02	40	0.2	<0.02	7.8	0.88	0.2	<0.02	
3440735	Soil	2.5	57.6	1.44	167.9	0.256	<1	2.10	0.018	0.53	0.2	3.9	0.16	<0.02	31	<0.1	<0.02	6.9	1.03	0.2	<0.02	
3440736	Soil	2.3	48.5	1.40	213.5	0.266	<1	1.93	0.022	0.72	0.1	4.3	0.22	<0.02	23	0.1	<0.02	6.8	0.93	0.2	<0.02	
3440737	Soil	3.7	43.7	0.92	128.8	0.237	<1	2.36	0.017	0.30	0.2	3.7	0.28	0.02	100	0.5	0.03	7.3	0.73	0.1	<0.02	
3440738	Soil	5.6	44.5	0.89	78.0	0.235	<1	1.97	0.013	0.33	0.1	3.6	0.24	0.03	48	0.4	0.03	8.7	0.85	<0.1	<0.02	
3440739	Soil	5.0	19.4	0.69	143.5	0.137	<1	1.71	0.024	0.37	0.1	3.1	0.13	<0.02	51	0.2	<0.02	4.7	0.52	0.1	<0.02	
3440740	Soil	7.2	61.4	0.92	109.1	0.226	<1	2.06	0.010	0.24	0.1	3.9	0.22	0.04	111	0.5	0.04	8.6	0.94	<0.1	0.03	
3440741	Soil	15.3	72.7	1.51	221.0	0.233	<1	2.37	0.011	0.62	0.1	9.0	0.46	0.03	80	0.7	0.04	8.9	1.04	0.2	<0.02	
3440742	Soil	7.6	37.3	0.81	174.3	0.146	<1	2.17	0.023	0.32	<0.1	4.0	0.17	<0.02	49	0.5	0.02	5.3	0.64	0.1	<0.02	
3440743	Soil	3.9	50.8	0.64	120.5	0.187	<1	1.48	0.008	0.36	0.1	4.7	0.15	0.05	129	1.3	0.04	6.6	0.82	0.1	<0.02	
3440744	Soil	2.8	27.2	0.16	53.5	0.360	<1	0.40	0.006	0.09	<0.1	1.0	0.06	0.03	55	0.5	0.04	10.1	0.46	0.1	<0.02	
3440745	Soil	9.6	65.0	1.30	298.8	0.234	<1	2.43	0.009	0.51	<0.1	7.3	0.40	0.04	80	1.1	<0.02	9.2	2.02	0.2	<0.02	
3440746	Soil	14.1	76.2	1.38	176.0	0.305	<1	2.96	0.008	0.71	0.1	8.9	0.40	<0.02	50	0.4	0.02	9.8	1.95	0.3	<0.02	
3440747	Soil	5.7	105.0	1.68	222.1	0.265	<1	2.45	0.011	0.43	<0.1	6.1	0.18	0.03	63	0.3	0.03	8.8	1.63	0.2	<0.02	
3440601	Soil	4.3	47.9	1.81	173.1	0.320	<1	3.18	0.019	1.26	1.3	18.8	0.59	<0.02	31	1.2	0.10	10.3	3.94	0.3	<0.02	
3440602	Soil	18.7	14.0	1.35	248.2	0.243	3	2.73	0.015	1.20	0.6	17.0	0.40	<0.02	17	2.6	0.26	9.6	2.51	0.4	<0.02	
3440603	Soil	12.1	79.0	1.59	128.0	0.012	<1	3.97	0.005	0.08	<0.1	42.1	0.24	<0.02	46	1.3	0.21	11.6	2.81	<0.1	0.08	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
3440733	Soil	1.58	52.9	0.4	<0.05	0.2	1.67	5.2	<0.02	<1	<0.1	5.2	<10	<2
3440734	Soil	1.09	54.6	0.5	<0.05	<0.1	3.40	6.0	<0.02	<1	0.1	9.0	<10	<2
3440735	Soil	1.02	39.1	0.4	<0.05	0.2	2.44	5.2	<0.02	<1	0.2	7.7	<10	<2
3440736	Soil	0.94	37.0	0.4	<0.05	0.3	2.39	4.6	<0.02	<1	0.1	5.8	<10	<2
3440737	Soil	2.40	19.2	0.4	<0.05	0.5	4.24	9.1	<0.02	<1	0.4	7.3	<10	<2
3440738	Soil	3.40	26.0	0.7	<0.05	0.8	5.40	21.1	0.04	<1	0.3	7.0	<10	<2
3440739	Soil	1.55	22.1	0.5	<0.05	0.7	3.63	9.9	<0.02	<1	0.2	5.0	<10	<2
3440740	Soil	2.49	22.6	0.9	<0.05	0.7	6.46	19.2	0.04	<1	0.4	9.5	<10	<2
3440741	Soil	1.78	49.8	0.9	<0.05	0.5	14.99	31.4	0.04	<1	0.6	10.8	<10	<2
3440742	Soil	0.98	21.3	0.3	<0.05	0.3	7.50	12.7	<0.02	<1	0.3	12.4	<10	<2
3440743	Soil	1.68	29.5	0.6	<0.05	0.4	3.22	8.6	0.03	<1	0.2	5.7	<10	<2
3440744	Soil	3.61	9.1	1.5	<0.05	1.2	2.38	10.3	<0.02	<1	<0.1	0.6	<10	<2
3440745	Soil	1.93	66.4	1.0	<0.05	0.9	13.19	15.3	0.03	1	0.2	14.8	<10	<2
3440746	Soil	1.82	95.5	1.1	<0.05	0.5	14.01	58.0	0.04	<1	0.5	18.9	<10	<2
3440747	Soil	0.80	56.1	0.5	<0.05	0.2	4.10	13.0	0.03	<1	0.3	16.3	<10	<2
3440601	Soil	1.23	84.7	0.9	<0.05	0.3	14.79	7.9	0.06	<1	0.2	28.5	13	<2
3440602	Soil	1.61	51.5	1.1	<0.05	0.9	34.92	35.4	0.06	<1	0.5	22.3	<10	<2
3440603	Soil	0.11	6.3	1.0	<0.05	3.1	54.07	27.5	0.11	4	1.3	14.0	50	8



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Client: **Kingfisher Resources Ltd.**
Vancouver British Columbia Canada

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QUALITY CONTROL REPORT

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01	0.001	
Pulp Duplicates																					
3440313	Soil	0.55	74.04	2.44	43.9	68	15.8	18.1	361	3.54	0.3	0.8	0.6	0.8	2.5	0.04	<0.02	0.05	130	0.07	0.041
REP 3440313	QC	0.55	76.10	2.52	43.9	71	15.5	18.4	349	3.58	0.3	0.8	0.7	0.8	2.6	0.04	<0.02	0.05	131	0.07	0.041
3440345	Soil	1.00	31.15	1.94	28.4	76	13.5	6.9	174	2.73	0.1	0.4	<0.2	0.7	3.9	0.03	<0.02	0.06	76	0.11	0.033
REP 3440345	QC	0.96	30.38	1.95	27.9	73	13.7	7.3	175	2.74	0.5	0.4	0.3	0.6	3.7	0.03	<0.02	0.05	77	0.10	0.033
3440630	Soil	0.77	33.22	10.23	94.2	144	30.6	16.5	565	3.28	0.1	0.2	1.1	1.7	7.9	0.13	<0.02	0.03	90	0.26	0.074
REP 3440630	QC	0.77	34.34	10.20	95.3	141	31.4	17.9	548	3.37	0.4	0.2	0.8	1.5	7.6	0.17	<0.02	0.03	92	0.26	0.081
3440762	Soil	0.90	46.90	0.62	40.2	29	48.5	22.4	610	3.39	0.3	0.3	<0.2	1.4	8.5	0.06	<0.02	<0.02	103	0.73	0.141
REP 3440762	QC	0.84	49.16	0.64	41.3	31	51.1	22.2	606	3.43	0.5	0.3	<0.2	1.5	8.4	0.09	<0.02	<0.02	103	0.74	0.157
3440529	Soil	1.74	4.64	2.05	6.2	261	2.3	1.3	71	1.98	2.6	0.6	3.7	1.1	8.4	0.08	0.09	0.10	47	0.05	0.026
REP 3440529	QC	1.62	4.92	2.02	5.9	245	2.2	1.2	73	2.04	2.5	0.6	3.5	1.1	7.4	0.06	0.09	0.09	48	0.05	0.026
3440375	Soil	0.39	332.16	10.54	94.1	552	115.2	53.5	1708	5.90	3.1	0.2	5.8	1.1	13.2	0.29	0.09	0.06	207	0.38	0.063
REP 3440375	QC	0.34	341.06	10.48	98.6	536	115.8	51.7	1735	6.10	2.9	0.2	4.4	1.1	12.7	0.28	0.10	0.03	210	0.40	0.062
3440707	Soil	0.59	103.38	2.48	135.0	36	24.9	8.5	545	5.78	6.6	0.2	5.6	0.4	3.1	0.02	0.06	0.42	163	0.03	0.035
REP 3440707	QC	0.59	107.02	2.54	142.6	38	24.5	8.6	574	5.82	6.4	0.2	5.7	0.4	3.3	0.03	0.06	0.42	164	0.03	0.035
3440739	Soil	0.84	43.14	6.05	49.2	72	14.1	8.3	319	2.07	0.7	0.5	0.4	2.6	10.2	0.15	<0.02	0.11	45	0.33	0.071
REP 3440739	QC	0.80	45.69	6.41	53.0	74	14.4	8.5	319	2.10	0.6	0.5	1.5	2.6	10.6	0.19	<0.02	0.10	45	0.33	0.072
3440603	Soil	25.67	362.52	15.03	166.4	927	198.1	86.2	3111	12.07	0.8	5.0	285.8	1.3	10.2	1.55	0.27	0.22	232	0.13	0.173
REP 3440603	QC	25.35	359.65	14.35	173.4	883	198.2	86.0	3076	11.87	0.6	4.8	447.3	0.8	9.8	1.64	0.23	0.20	232	0.13	0.176
Reference Materials																					
STD BVGEO01	Standard	10.73	4366.35	194.99	1705.7	2470	152.2	24.0	717	3.63	114.1	3.8	210.1	17.4	57.7	5.97	3.24	24.42	73	1.34	0.076
STD BVGEO01	Standard	10.72	4351.84	189.91	1780.8	2453	159.6	24.6	706	3.61	112.6	3.8	215.0	14.5	56.7	6.20	2.88	24.11	72	1.38	0.071
STD BVGEO01	Standard	11.10	4392.65	193.34	1783.6	2550	154.9	23.6	743	3.70	116.8	4.0	235.8	15.7	60.3	6.51	3.20	25.24	72	1.41	0.076
STD BVGEO01	Standard	11.46	4460.71	194.06	1807.7	2749	161.2	27.3	784	3.80	131.7	4.3	223.5	16.6	60.2	5.91	3.73	28.34	75	1.45	0.073
STD DS11	Standard	15.12	159.34	141.42	349.9	1703	82.1	13.9	1058	3.25	43.0	2.7	87.6	9.2	72.9	2.28	8.14	11.72	51	1.11	0.074
STD DS11	Standard	14.83	156.49	136.20	332.8	1663	75.2	14.4	1015	3.15	42.2	2.6	73.6	9.4	73.3	2.32	8.05	11.29	51	1.05	0.069
STD DS11	Standard	14.88	158.16	134.31	347.2	1680	78.2	13.6	979	3.11	44.7	2.8	78.9	8.9	66.3	2.63	7.98	11.79	48	1.07	0.070
STD DS11	Standard	14.57	155.95	128.98	330.0	1699	76.5	13.7	1024	3.09	42.1	2.7	83.1	8.4	65.1	2.55	8.41	11.80	48	1.06	0.067
STD DS11	Standard	15.07	156.98	143.58	351.0	1825	78.0	14.7	1002	3.08	43.8	2.8	65.9	9.6	70.3	2.37	8.06	11.94	51	1.03	0.071



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QUALITY CONTROL REPORT

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Method	Analyte	AQ252																			
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
3440313	Soil	4.5	35.7	1.57	34.1	0.105	<1	3.22	0.011	0.06	<0.1	5.7	0.10	0.03	60	0.6	0.02	8.2	0.53	<0.1	<0.02
REP 3440313	QC	4.7	34.7	1.60	34.3	0.106	<1	3.25	0.012	0.06	<0.1	5.6	0.09	0.03	49	0.8	<0.02	8.6	0.56	<0.1	<0.02
3440345	Soil	1.4	34.9	0.94	26.2	0.153	<1	1.80	0.010	0.09	<0.1	3.3	0.05	0.04	42	0.4	<0.02	8.0	0.53	<0.1	<0.02
REP 3440345	QC	1.4	35.4	0.94	26.4	0.152	<1	1.83	0.010	0.09	<0.1	3.3	0.05	0.04	37	0.5	0.04	7.4	0.53	<0.1	<0.02
3440630	Soil	2.0	54.7	1.47	211.6	0.263	<1	2.03	0.020	0.82	0.2	3.6	0.30	<0.02	20	<0.1	0.04	7.2	1.34	0.1	<0.02
REP 3440630	QC	1.9	52.3	1.51	220.0	0.266	<1	2.09	0.020	0.85	0.2	3.6	0.30	<0.02	13	<0.1	0.02	7.5	1.35	<0.1	<0.02
3440762	Soil	1.9	71.5	1.87	334.3	0.249	<1	2.41	0.014	0.86	<0.1	5.9	0.27	<0.02	<5	<0.1	<0.02	7.3	0.88	0.2	<0.02
REP 3440762	QC	1.9	73.4	1.89	337.5	0.261	<1	2.44	0.014	0.86	<0.1	6.7	0.29	<0.02	11	<0.1	<0.02	7.7	0.89	0.2	<0.02
3440529	Soil	2.3	14.3	0.30	45.9	0.154	<1	0.87	0.004	0.05	<0.1	0.9	0.08	0.03	54	0.7	0.04	4.5	0.75	<0.1	<0.02
REP 3440529	QC	2.1	13.8	0.30	44.4	0.144	<1	0.87	0.004	0.05	<0.1	0.7	0.07	0.03	58	0.6	0.03	4.5	0.72	<0.1	<0.02
3440375	Soil	1.6	298.3	3.22	275.3	0.196	2	6.20	0.071	0.62	0.1	13.8	0.32	0.04	38	1.4	0.09	11.4	1.12	0.2	<0.02
REP 3440375	QC	1.6	292.3	3.33	275.0	0.204	2	6.51	0.076	0.63	0.1	13.3	0.32	0.04	34	1.5	0.11	10.8	1.10	0.3	<0.02
3440707	Soil	<0.5	78.2	2.20	165.9	0.227	<1	2.67	0.007	0.54	0.3	9.0	0.18	0.04	9	3.1	0.64	6.4	0.42	0.2	<0.02
REP 3440707	QC	<0.5	77.0	2.23	172.7	0.228	<1	2.70	0.006	0.54	0.3	9.3	0.18	0.04	<5	3.1	0.68	7.1	0.42	0.1	<0.02
3440739	Soil	5.0	19.4	0.69	143.5	0.137	<1	1.71	0.024	0.37	0.1	3.1	0.13	<0.02	51	0.2	<0.02	4.7	0.52	0.1	<0.02
REP 3440739	QC	5.1	19.7	0.70	145.4	0.143	<1	1.69	0.025	0.37	0.1	3.0	0.15	<0.02	53	0.3	0.03	5.2	0.53	<0.1	<0.02
3440603	Soil	12.1	79.0	1.59	128.0	0.012	<1	3.97	0.005	0.08	<0.1	42.1	0.24	<0.02	46	1.3	0.21	11.6	2.81	<0.1	0.08
REP 3440603	QC	12.5	78.1	1.58	129.5	0.011	<1	3.90	0.005	0.07	<0.1	37.7	0.22	<0.02	42	1.2	0.15	11.6	2.71	<0.1	0.07
Reference Materials																					
STD BVGEO01	Standard	26.8	201.8	1.31	272.0	0.231	3	2.43	0.210	0.94	4.8	6.5	0.65	0.68	94	4.6	0.96	7.0	7.15	0.1	0.27
STD BVGEO01	Standard	26.9	200.1	1.29	294.8	0.236	3	2.41	0.200	0.88	4.8	6.4	0.62	0.67	96	4.4	1.02	7.4	6.99	0.2	0.24
STD BVGEO01	Standard	28.0	208.3	1.30	295.0	0.240	4	2.44	0.203	0.86	4.7	6.7	0.65	0.61	94	4.7	0.96	7.2	7.35	0.2	0.29
STD BVGEO01	Standard	29.5	200.9	1.35	313.7	0.247	4	2.54	0.216	0.89	5.0	6.9	0.66	0.62	95	5.0	1.11	8.3	8.02	0.3	0.30
STD DS11	Standard	20.0	61.6	0.90	376.2	0.100	6	1.26	0.079	0.42	3.0	3.3	5.05	0.28	264	2.3	4.81	4.9	3.02	<0.1	0.06
STD DS11	Standard	19.5	58.5	0.85	352.8	0.094	6	1.26	0.083	0.42	3.1	3.5	4.87	0.26	240	2.1	4.60	4.9	2.95	<0.1	0.04
STD DS11	Standard	20.3	60.2	0.85	364.5	0.100	7	1.25	0.078	0.41	2.8	3.4	4.84	0.27	256	2.0	4.62	5.2	3.00	0.1	0.07
STD DS11	Standard	20.4	61.1	0.84	350.6	0.101	5	1.22	0.073	0.40	2.9	3.2	4.62	0.27	231	2.0	4.40	5.0	3.06	<0.1	0.07
STD DS11	Standard	19.3	64.4	0.88	391.8	0.097	7	1.20	0.074	0.41	3.1	3.6	5.11	0.28	249	2.1	4.80	5.4	3.07	<0.1	0.09



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QUALITY CONTROL REPORT

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Method	Analyte	AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppb	ppm	ppm	ppb	ppb							
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
3440313	Soil	0.70	2.5	0.3	<0.05	0.6	4.17	9.5	0.02	<1	<0.1	9.5	<10	<2
REP 3440313	QC	0.68	2.6	0.3	<0.05	0.5	4.44	10.0	<0.02	<1	0.1	9.6	<10	<2
3440345	Soil	1.25	3.4	0.3	<0.05	0.9	1.52	2.8	<0.02	<1	<0.1	4.3	<10	<2
REP 3440345	QC	1.26	3.4	0.4	<0.05	0.9	1.41	2.8	<0.02	<1	<0.1	4.3	<10	<2
3440630	Soil	1.20	61.6	0.4	<0.05	<0.1	1.86	4.1	<0.02	<1	<0.1	6.3	<10	<2
REP 3440630	QC	1.14	61.1	0.4	<0.05	<0.1	1.79	3.8	<0.02	<1	0.1	6.2	<10	<2
3440762	Soil	0.11	40.1	0.3	<0.05	<0.1	3.14	3.5	<0.02	<1	0.1	18.2	<10	<2
REP 3440762	QC	0.12	39.9	0.2	<0.05	<0.1	3.28	3.6	<0.02	<1	0.2	19.5	<10	<2
3440529	Soil	1.59	4.8	0.4	<0.05	0.1	1.17	3.8	<0.02	<1	<0.1	1.5	<10	<2
REP 3440529	QC	1.57	4.6	0.4	<0.05	<0.1	1.20	3.6	<0.02	<1	<0.1	1.3	<10	<2
3440375	Soil	0.27	31.8	0.2	<0.05	0.2	3.80	3.2	<0.02	<1	0.2	15.6	11	5
REP 3440375	QC	0.29	31.6	0.2	<0.05	0.3	3.91	3.4	<0.02	<1	0.2	15.5	<10	4
3440707	Soil	0.14	15.5	0.7	<0.05	0.3	1.04	1.1	<0.02	<1	<0.1	6.1	<10	3
REP 3440707	QC	0.15	16.2	0.7	<0.05	0.3	1.11	1.1	<0.02	<1	<0.1	5.9	<10	5
3440739	Soil	1.55	22.1	0.5	<0.05	0.7	3.63	9.9	<0.02	<1	0.2	5.0	<10	<2
REP 3440739	QC	1.49	22.1	0.3	<0.05	0.6	3.57	11.0	<0.02	<1	0.2	5.0	<10	<2
3440603	Soil	0.11	6.3	1.0	<0.05	3.1	54.07	27.5	0.11	4	1.3	14.0	50	8
REP 3440603	QC	0.11	6.0	0.9	<0.05	3.2	51.82	24.8	0.08	2	1.0	14.9	54	5
Reference Materials														
STD BVGE001	Standard	0.26	89.5	5.5	<0.05	6.4	13.92	52.6	0.47	2	0.6	21.9	142	188
STD BVGE001	Standard	0.22	93.1	5.6	<0.05	6.9	15.47	53.9	0.39	2	0.7	20.4	157	187
STD BVGE001	Standard	0.30	94.5	5.4	<0.05	11.7	14.23	57.3	0.44	3	0.7	22.2	131	174
STD BVGE001	Standard	0.27	103.9	6.2	<0.05	8.9	16.63	56.7	0.53	4	0.8	23.2	119	199
STD DS11	Standard	1.78	34.2	1.9	<0.05	2.7	9.15	39.1	0.22	48	0.7	23.8	103	167
STD DS11	Standard	1.54	32.9	1.7	<0.05	2.4	8.33	40.0	0.24	47	0.8	22.4	98	169
STD DS11	Standard	1.61	37.4	2.1	<0.05	3.2	8.54	39.2	0.27	45	0.5	21.6	94	167
STD DS11	Standard	1.65	35.5	1.9	<0.05	2.6	8.66	38.3	0.27	43	0.7	22.2	79	171
STD DS11	Standard	1.74	35.6	2.0	<0.05	3.7	8.39	39.0	0.25	60	0.5	24.2	133	185



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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
STD DS11	Standard	14.41	156.30	135.84	349.6	1677	71.6	13.5	991	3.13	41.1	2.6	83.0	9.3	72.7	2.25	8.31	10.90	47	1.05	0.069
STD OREAS262	Standard	0.71	120.51	60.68	155.8	484	65.1	29.2	531	3.29	35.0	1.3	66.0	11.1	36.5	0.59	4.96	1.06	23	3.09	0.040
STD OREAS262	Standard	0.65	118.59	56.26	144.5	427	60.4	27.0	553	3.27	34.3	1.3	56.0	10.9	34.9	0.64	4.26	0.97	25	2.94	0.041
STD OREAS262	Standard	0.66	120.41	56.24	145.2	438	63.2	27.0	546	3.27	34.3	1.2	54.4	11.1	33.4	0.62	4.20	1.00	24	2.99	0.040
STD OREAS262	Standard	0.55	112.59	54.94	140.8	425	62.5	26.2	508	3.18	35.6	1.1	54.6	10.1	32.4	0.55	3.92	0.94	23	2.98	0.039
STD OREAS262	Standard	0.66	121.24	59.28	151.3	456	60.2	26.1	530	3.29	35.1	1.3	57.7	10.7	35.3	0.65	4.14	1.00	22	3.04	0.036
STD OREAS262	Standard	0.63	123.02	57.07	143.7	450	63.9	28.7	522	3.31	36.1	1.3	56.8	10.2	38.0	0.72	3.80	1.04	22	3.09	0.040
STD OREAS262	Standard	0.67	115.99	60.21	157.4	478	65.3	29.0	555	3.23	35.6	1.4	65.2	9.7	38.7	0.69	4.76	1.11	24	3.02	0.040
STD OREAS262	Standard	0.65	122.87	56.35	147.2	453	59.3	27.8	508	3.33	37.3	1.4	62.8	10.5	36.2	0.72	4.87	1.07	24	3.07	0.039
STD OREAS262	Standard	0.66	124.58	55.54	142.1	471	61.9	27.4	552	3.26	34.6	1.3	54.5	10.9	36.4	0.66	4.19	0.98	22	3.02	0.039
STD OREAS262	Standard	0.68	121.16	56.56	135.9	453	66.5	28.8	558	3.32	34.9	1.2	58.8	11.1	36.6	0.58	4.86	0.95	21	3.12	0.038
STD BVGEO01 Expected		11.2	4415	187	1741	2530	163	25	733	3.7	121	3.77	219	14.4	55	6.5	3.39	25.6	73	1.3219	0.0727
STD DS11 Expected		14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected		0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
BLK	Blank	<0.01	<0.01	<0.01	0.2	<2	<0.1	<0.1	2	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.05	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	0.2	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	0.05	<0.01	0.3	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	0.2	<2	0.1	<0.1	1	<0.01	0.2	<0.1	<0.2	0.2	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.03	0.4	<2	0.2	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	<0.001



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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD DS11	Standard	19.0	57.3	0.84	363.8	0.092	7	1.21	0.080	0.42	3.0	3.3	5.09	0.26	282	2.1	4.75	4.8	2.82	<0.1	0.05
STD OREAS262	Standard	18.5	45.3	1.17	266.6	0.003	2	1.42	0.072	0.33	0.2	3.5	0.48	0.25	173	0.3	0.21	4.3	3.03	<0.1	0.27
STD OREAS262	Standard	18.6	43.9	1.18	243.7	0.003	4	1.53	0.070	0.35	0.2	3.4	0.47	0.25	175	0.5	0.25	4.2	2.85	<0.1	0.18
STD OREAS262	Standard	17.4	43.0	1.19	255.7	0.003	3	1.49	0.071	0.34	0.2	3.3	0.46	0.25	139	0.3	0.20	3.8	2.59	<0.1	0.22
STD OREAS262	Standard	17.2	42.6	1.15	243.7	0.003	4	1.41	0.066	0.33	<0.1	3.3	0.47	0.25	152	0.3	0.23	4.0	2.63	<0.1	0.19
STD OREAS262	Standard	19.0	45.4	1.17	260.7	0.003	4	1.50	0.068	0.34	0.2	3.4	0.47	0.24	147	0.4	0.22	4.2	2.85	<0.1	0.17
STD OREAS262	Standard	18.5	46.4	1.18	267.8	0.003	4	1.47	0.068	0.33	0.2	3.5	0.48	0.25	165	0.3	0.24	4.3	2.84	<0.1	0.17
STD OREAS262	Standard	17.9	44.9	1.16	258.2	0.003	4	1.58	0.067	0.35	0.2	3.2	0.48	0.26	167	0.5	0.23	4.4	3.12	<0.1	0.20
STD OREAS262	Standard	20.5	45.5	1.17	272.3	0.003	5	1.57	0.070	0.36	0.2	3.5	0.50	0.24	162	0.5	0.25	4.5	3.30	<0.1	0.19
STD OREAS262	Standard	15.4	45.0	1.18	241.6	0.003	4	1.32	0.067	0.31	0.2	3.1	0.44	0.26	129	0.4	0.22	3.7	2.49	<0.1	0.20
STD OREAS262	Standard	17.2	42.5	1.16	248.6	0.003	4	1.44	0.069	0.33	0.2	3.3	0.48	0.24	139	0.1	0.21	3.9	2.71	<0.1	0.15
STD BVGEO01 Expected		25.9	187	1.2963	260	0.233	3.8	2.347	0.1924	0.89	5.3	5.97	0.62	0.6655	100	4.84	1.02	7.37	7.36	0.15	0.32
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	0.06
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	3.24	0.47	0.253	170	0.4	0.23	3.73	2.8		0.27
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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Project: Ecstall
Report Date: August 27, 2019

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		AQ252												
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppb	ppm	ppm	ppb	ppb							
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD DS11	Standard	1.89	33.9	1.6	<0.05	2.0	8.21	38.3	0.26	48	0.9	26.6	115	151
STD OREAS262	Standard	<0.02	19.6	0.6	<0.05	9.5	11.01	37.8	0.04	<1	1.0	17.8	<10	<2
STD OREAS262	Standard	<0.02	19.3	0.6	<0.05	7.6	10.59	37.6	0.03	<1	1.1	17.0	<10	<2
STD OREAS262	Standard	<0.02	18.2	0.4	<0.05	7.2	10.42	34.8	0.03	1	1.1	18.7	<10	<2
STD OREAS262	Standard	<0.02	18.3	0.6	<0.05	11.8	9.97	35.1	<0.02	<1	1.0	16.7	<10	<2
STD OREAS262	Standard	<0.02	19.3	0.6	<0.05	12.2	10.83	38.5	0.03	<1	1.0	17.0	<10	<2
STD OREAS262	Standard	<0.02	21.4	0.6	<0.05	10.9	11.49	37.0	0.04	<1	1.1	17.2	<10	<2
STD OREAS262	Standard	<0.02	22.9	0.7	<0.05	12.1	12.38	37.7	0.04	2	1.1	19.4	<10	<2
STD OREAS262	Standard	<0.02	21.8	0.6	<0.05	12.6	11.56	38.8	0.03	<1	1.3	18.0	<10	<2
STD OREAS262	Standard	<0.02	17.7	0.7	<0.05	13.0	9.56	33.3	0.03	1	1.1	17.3	<10	<2
STD OREAS262	Standard	<0.02	19.1	0.5	<0.05	7.1	11.27	35.4	0.05	<1	1.6	20.8	<10	<2
STD BVGEO01 Expected		0.23	95	5.64		9.1	14.5	53	0.47	4	0.69	21.4	134	182
STD DS11 Expected		1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100	172
STD OREAS262 Expected			18.6	0.5		11.7	11.2	32	0.033		1.14	17.8		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.2	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.2	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

APPENDIX E: Sample Descriptions

Rock Samples

SampleNo	East	North	Target	SampleType	OutcropType	Lith	Colour1	Colour2	Alt1	Alt1Style	Alt2Intensity	Alt2	Alt2Style
3440001	479603	5946907	Channel Reg	Grab	Outcrop	Volcanic	Grey		Chlorite	Pervasive	Moderate	Carbonate	Pervasive
3440002	479592	5946820	Channel Reg	Grab	Outcrop	Volcanic	Grey		Chlorite	Pervasive	Moderate	Carbonate	Pervasive
3440003	479821	5946263	Channel Reg	Grab	Outcrop	Volcanic	Grey	Rust	Chlorite	Pervasive	Moderate		
3440004	479870	5946198	Channel Reg	Grab	Outcrop	Rhyolite	White	Rust	Sericite	Pervasive	Moderate		
3440005	479940	5946227	Channel Reg	Grab	Subcrop	Rhyolite	White	Rust	Sericite	Pervasive	Strong	Silica	Pervasive
3440006	481927	5945179	Channel Reg	Grab	Outcrop	Volcanic	Black	White	Sericite	Pervasive	Moderate	Silica	Pervasive
3440007	481977	5945125	Channel Reg	Grab	Subcrop	Volcanic	Black		Sericite	Pervasive	Moderate	Silica	Pervasive
3440008	481968	5945091	Channel Reg	Grab	Outcrop	Volcanic	Black	White	Sericite	Pervasive	Moderate	Silica	Pervasive
3440009	482278	5944695	Channel Reg	Grab	Outcrop	Volcanic	Black	White	Sericite	Pervasive	Moderate	Silica	Pervasive
3440010	482321	5944598	Channel Reg	Grab	Outcrop	Volcanic	Black	Rust	Chlorite	Patchy	Strong	Silica	Pervasive
3440011	482304	5944237	Channel Reg	Grab	Float	Argillite	Black						
3440012	482447	5944198	Channel Reg	Grab	Outcrop	Gniess	Black	White	Silica	Pervasive	Moderate		
3440013	482514	5944184	Channel Reg	Composite	Outcrop	Rhyolite	Black	Grey	Silica	Pervasive	Strong	Sericite	Pervasive
3440014	482525	5944211	Channel Reg	Composite	Outcrop	Rhyolite	Rust		Sericite	Pervasive	Strong	Silica	Pervasive
3440015	482626	5944228	Channel Reg	Grab	Outcrop	Volcanic	Black		Silica	Pervasive	Moderate		
3440016	482626	5944232	Channel Reg	Grab	Outcrop	Rhyolite	Tan	Rust	Sericite	Pervasive	Strong	Silica	Pervasive
3440017	465261	5976250	Marmot	Composite	Outcrop	Volcanic	Black	Rust	Chlorite	Pervasive	Strong		
3440018	465256	5976415	Marmot	Grab	Outcrop	Rhyolite	White	Rust	Sericite	Pervasive	Strong	Silica	Pervasive
3440019	465269	5976490	Marmot	Grab	Outcrop	Volcanic	Black	Rust	Silica	Pervasive	Strong	Chlorite	Pervasive
3440020	465421	5976575	Marmot	Grab	Outcrop	Rhyolite	Grey	Rust	Sericite	Pervasive	Strong	Silica	Pervasive
3440021	465482	5976949	Marmot	Grab	Outcrop	Volcanic	Rust	Grey	Silica	Pervasive	Strong		
3440022	465570	5976897	Marmot	Grab	Outcrop	Rhyolite	Rust		Silica	Pervasive	Strong	Sericite	Pervasive
3440023	465703	5976465	Marmot	Composite	Outcrop	Rhyolite	Rust		Sericite	Pervasive	Intense	Silica	Pervasive
3440024	465398	5975997	Marmot	Grab	Outcrop	Rhyolite	White	Rust	Silica	Pervasive	Strong	Sericite	Pervasive
3440025	465418	5975879	Marmot	Grab	Outcrop	Rhyolite	Rust	White	Sericite	Pervasive	Strong	Silica	Pervasive
3440026	466070	5976774	Marmot	Grab	Outcrop	Rhyolite	Rust		Silica	Pervasive	Strong	Sericite	Pervasive
3440027	466038	5976420	Marmot	Grab	Outcrop	Volcanic	Rust	Black					
3440028	466025	5976460	Marmot	Grab	Outcrop	Volcanic	Rust	Black					
3440029	466011	5976483	Marmot	Grab	Outcrop		White	Rust	Sericite	Pervasive	Strong		
3440030	465995	5976487	Marmot	Composite	Outcrop	Volcanic	Rust		Sericite	Pervasive	Intense		

SampleNo	Min4Style	Description
3440001		
3440002		
3440003		
3440004		
3440005		out crop is a long road section of oxidation and strong qsp alteration is approximately 3 meters wide
3440006		large out crop 20 by 20 meters some qtz veining w cuox. biotite ser qtz rhyolite.
3440007		Five meter OC what looks like bio schist w some porphyry?
3440008		min limited to 3m area. stringer and disd cpy in bio qtz ser schist.
3440009		bio qtz ser gniess/schist
3440010		bio qtz ser gniess/schist
3440011		pyritic arg float.
3440012		bio schist/gniess. creek outcrop.
3440013		schist from 2m creek oc. gossan,
3440014		gossan schist. gossan at least 30m upstream
3440015		waterfall oc. schist above volc/arg
3440016		
3440017		2m (visible) band of gossanous chl schist. disd and thin laminations of py. 340/80. pyrr 10m away intergrown w py
3440018		2m visihle bqnd of qsp schist
3440019		strong fe ox incl lim and jaro. some parts arr black and sooty...py/chl mix?
3440020		zone of strong qsp alt w 12%py. over 10m with striking 340/80
3440021		1m band of bio schist w 5% py disd and lamiated and tr cpy. 340/subvert
3440022		strong gossan of qsp schist. strong weathering. 2m wide at 340.
3440023		strong gossan of qsp schist. strong weathering. 5m wide at 340.
3440024		wk gossan. 2m wide of of rhy in area of chl schist. trending 340
3440025		3m wide gossan
3440026		10m wide rusty zone of intermed volc and rhy.
3440027		2m wide gossan trending 300. subvert. sandwivhdd btween arg
3440028		50m up ck from last samp. no gps service
3440029		1m milky qtz vein 310 deg. subvert
3440030		5m wide gossan 310.

SampleNo	East	North	Target	SampleType	OutcropType	Lith	Colour1	Colour2	Alt1	Alt1Style	Alt2Intensity	Alt2	Alt2Style
3440031	465940	5976565	Marmot	Grab	Outcrop	Rhyolite	Tan	Rust	Mariposite	Fracture Cont	Moderate		
3440032	465809	5976198	Marmot	Grab	Outcrop	Rhyolite	Rust		Sericite	Pervasive	Intense	Silica	Pervasive
3440033	464139	5975731	Mark	Composite	Outcrop	Volcanic	Red	Grey	Silica	Pervasive	Intense	Chlorite	Pervasive
3440034	464139	5975804	Mark	Grab	Outcrop	Volcanic	Grey		Chlorite	Pervasive			
3440035	463962	5975883	Mark	Grab	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong		
3440036	463949	5975895	Mark	Grab	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong		
3440037	463934	5975901	Mark	Composite	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong	Silica	Pervasive
3440038	463876	5975974	Mark	Composite	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong		
3440040	464173	5975382	Mark	Grab	Outcrop	Volcanic	Rust	Grey	Silica	Pervasive	Strong	Chlorite	Pervasive
3440041	464093	5975393	Mark	Grab	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong	Silica	Pervasive
3440042	464127	5975384	Mark	Grab	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong	Silica	Pervasive
3440043	464364	5975436	Mark	Grab	Outcrop	Volcanic	Rust		Chlorite	Pervasive	Strong	Silica	Patchy
3440044	460781	5982115	F13	Grab	Outcrop	Rhyolite	Rust	Grey	Silica	Pervasive	Strong	Sericite	Pervasive
3440045	460797	5982111	F13	Grab	Outcrop	Rhyolite	Rust	Grey	Silica	Pervasive	Strong	Sericite	Pervasive
3440046	460819	5982094	F13	Grab	Outcrop	Rhyolite	Rust	Grey	Silica	Pervasive	Strong	Sericite	Pervasive
3440047	460914	5982165	F13	Grab	Outcrop	Gniess	Rust		Silica	Pervasive	Strong	Chlorite	Pervasive
3440048	461084	5982173	F13	Grab	Float	Rhyolite	Rust	Grey	Silica	Pervasive	Strong	Chlorite	Pervasive
3440049	460787	5982146	F13	Grab	Outcrop	Rhyolite	White	Rust	Silica	Pervasive	Strong	Sericite	Pervasive
3440050	460790	5982150	F13	Grab	Outcrop	Rhyolite	White	Rust	Silica	Pervasive	Strong	Sericite	Pervasive
3440051	461142	5982108	F13	Grab	Float	Gniess	Black	Rust	Silica	Pervasive	Strong		
3440052	461215	5982240	F13	Grab	Outcrop	Gniess	Black	White					
3440053	461195	5982200	F13	Grab	Float	Gniess	Black	Rust	Silica	Pervasive	Strong	Chlorite	Pervasive
3440054	460334	5982313	F13	Composite	Outcrop	Rhyolite	Grey	Rust	Silica	Pervasive	Strong	Sericite	Pervasive
3440055	460323	5982319	F13	Grab	Outcrop	Rhyolite	Grey	Rust	Silica	Pervasive	Strong	Sericite	Pervasive
3440056	466830	5972299	Ridge	Grab	Outcrop	Volcanic	Rust		Silica	Pervasive	Strong		
3440057	466733	5972269	Ridge	Grab	Outcrop	Volcanic	Rust		Silica	Pervasive	Strong		
3440058	466594	5972193	Ridge	Grab	Outcrop	Volcanic	Rust		Silica	Pervasive	Moderate	Carbonate	Pervasive
3440059	466263	5972125	Ridge	Grab	Outcrop	Volcanic	Rust		Silica	Pervasive	Moderate	Carbonate	Pervasive
3440552	465810	5976350	Marmot	Grab	Outcrop	Rhyolite	Rust	White	Sericite	Pervasive	Moderate		
3440553	465770	5976287	Marmot	Grab	Outcrop	Rhyolite	Rust	Grey	Sericite	Patchy	Strong		

SampleNo	Min4Style	Description
3440031		50cm zone of fc mariposite. trending 340 subvert
3440032		20m wide intense gossan. 340 subvert
3440033		area in creek with
3440034		bands of chl of gossan win chl wchiwt. 1m bands
3440035		green chl schist
3440036		east edge of gossan
3440037		3m from w edge of gossan. area of chl/ser/sil alt and imcreasee py.
3440038		alternating bands of chl schist and hbl felsite dykes
3440040		2m zone of sil/chl alt volcanic likely and. finely disd sulfides
3440041		min 20m wide zone of green chl sil schist. strong py min. tr pyrr and cp. potentisly on trend with cpy zone in ck.
3440042		hbl felsic dykes coming into area.
3440043		50m exposed zone of chl alt volc west of intrusive.
3440044		road crop sample next to historic sample 301905
3440045		road crop within rhyolite gossan unit
3440046		1m gossan band.
3440047		1m band of rusty chl bio gniess within strongly ser altered rhyolite. appears to be 1cm chert beds in rhy nesrby. 010/subvert
3440048		float samp of rhy unit with strong py/chl banding. rest is strongly sil.
3440049		banded and dissem sulfides. could be bn but could also be weathered py.
3440050		20pp steely py in dissed bands
3440051		float boulder of rusty gniess with 1cm massive bands of pyrite, pyrr, cpy. some disd min too.
3440052		unaltered gniess from oc in creek. no sign of rhyolite in ck float.
3440053	disseminated	rusty gniess with fol parallel qtz veins (<1cm). disd and smass sulfides throighoit. sil and chl alt. angular.
3440054		gossanous rhyolite oc im exposed slide area
3440055		gossanous road crop. strong ser . bio rhy
3440056		gossanous volcanic
3440057		gossanous volcanic
3440058		chl schist
3440059		gossanous volcanic
3440552		3m wide out crop
3440553		5m wide outcrop

SampleNo	East	North	Target	SampleType	OutcropType	Lith	Colour1	Colour2	Alt1	Alt1Style	Alt2Intensity	Alt2	Alt2Style
3440554	461554	5981576	F13	Grab	Float	Rhyolite	Rust		Silica	Pervasive	Moderate		
3440555	461554	5981576	F13	Grab	Float	Gniess	Rust		Silica	Pervasive	Moderate		
3440556	460533	5982175	F13	Grab	Float	Rhyolite	White	Rust	Silica	Pervasive	Strong	Sericite	Patchy

SampleNo	Min4Style	Description
3440554		
3440555		
3440556		float with banded pyrite 5mm

APPENDIX D: Sample Descriptions

Soil Samples

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440301	465817	5976686	B	B	10	Coarse	Damp	N	
3440302	465795	5976630	B	GB	10	Coarse	Damp	N	
3440303	465784	5976573	B	B	10	Coarse	Damp	N	
3440304	465778	5976518	B	GB	20	Coarse	Damp	N	
3440305	465748	5976490	B	B	20	Coarse	Damp	N	
3440306	465707	5976454	B	B	30	Coarse	Damp	N	on top of pyritic schist rock sample
3440307	465676	5976404	B	B	35	Coarse	Damp	N	
3440308	465553	5976387	B	B	25	Coarse	Damp	N	
3440309	465626	5976332	B	B	25	Coarse	Damp	N	chlorite schist scree
3440310	465598	5976285	B	B	30	Coarse	Damp	N	
3440311	465581	5976247	B	B	25	Coarse	Damp	N	
3440312	465563	5976203	B	B	30	Coarse	Damp	N	
3440313	465533	5976160	B	B	30	Coarse	Damp	N	
3440314	465488	5976124	B	B	30	Coarse	Damp	N	
3440315	465454	5976095	B	B	30	Coarse	Damp	N	
3440316	465418	5976058	B	B	10	Coarse	Damp	N	
3440317	465381	5976039	B	B	15	Coarse	Damp	N	
3440318	465351	5975988	B	B	15	Coarse	Damp	N	
3440319	465331	5975930	B	B	30	Coarse	Damp	N	
3440320	465302	5975891	B	B	35	Coarse	Wet	N	
3440321	465260	5975872	B	B	20	Coarse	Wet	N	
3440322	465208	5975846	B	B	20	Coarse	Wet	N	
3440323	465175	5975844	B	B	20	Coarse	Damp	N	
3440324	465121	5975817	B	B	20	Coarse	Damp	N	
3440325	465101	5975776	B	GB	10	Coarse	Damp	N	
3440326	465080	5975766	B	GB	10	Coarse	Damp	N	
3440327	465947	5976689	C	B	30	Coarse	Damp	N	some organics
3440328	465897	5976642	C	B	30	Coarse	Damp	N	some organics
3440329	465903	5976578	C	B	10	Coarse	Damp	N	some organics
3440330	465907	5976551	C	B	15	Coarse	Damp	N	some organics
3440331	465894	5976491	C	B	15	Coarse	Damp	N	some organics
3440332	465887	5976454	C	B	20	Coarse	Damp	N	some organics
3440333	465869	5976404	C	B	20	Coarse	Damp	N	some organics

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440334	465810	5976350	C	GB	20	Coarse	Damp	N	rock sample DL2 rhyolite schist
3440335	465770	5976287	B	B	15	Coarse	Damp	N	
3440336	465733	5976264	B	B	15	Coarse	Damp	N	
3440337	465702	5976213	B	B	15	Coarse	Damp	N	
3440338	465683	5976172	C	B	25	Coarse	Damp	N	
3440339	465648	5976148	C	B	25	Coarse	Damp	N	
3440340	465597	5976120	B	B	15	Coarse	Damp	N	
3440341	465546	5976075	B	B	20	Coarse	Damp	N	
3440342	465499	5976017	B	B	10	Coarse	Damp	N	
3440343	465456	5976029	B	B	10	Coarse	Damp	N	
3440344	465394	5975994	C	B	15	Coarse	Damp	N	
3440345	465383	5975928	B	B	15	Coarse	Damp	N	
3440346	465382	5975882	B	B	10	Coarse	Damp	N	
3440347	465401	5975839	B	B	15	Coarse	Damp	N	base of cliff
3440348	465424	5975788	B	B	10	Coarse	Damp	N	
3440349	465411	5975741	B	B	10	Coarse	Damp	N	
3440350	465399	5975686	B	B	10	Coarse	Damp	N	next to creek
3440351	465976	5976599	C	B	20	Coarse	Dry	N	
3440352	465962	5976496	C	B	10	Coarse	Damp	N	
3440353	465963	5976434	C	B	10	Coarse	Dry	N	
3440354	465840	5976300	C	B	10	Coarse	Dry	N	
3440355	465812	5976200	C	B	20	Coarse	Dry	N	
3440356	465781	5976143	C	B	30	Coarse	Dry	N	
3440357	465733	5976138	C	B	25	Coarse	Damp	N	
3440358	465662	5976124	C	B	20	Coarse	Damp	N	
3440359	464037	5975847	C	B	20	Coarse	Dry	N	high organics
3440360	463997	5975877	C	GB	15	Coarse	Dry	N	
3440361	463978	5975883	C	B	25	Coarse	Dry	N	
3440362	463955	5975905	C	B	20	Coarse	Dry	N	
3440363	463927	5975912	C	B	30	Coarse	Dry	N	
3440364	463903	5975922	C	B	30	Coarse	Dry	N	
3440365	463882	5975919	C	B	30	Coarse	Dry	N	
3440366	463854	5975916	C	B	25	Coarse	Dry	N	

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440367	463825	5975901	C	B	35	Coarse	Dry	N	
3440368	463796	5975884	C	B	20	Coarse	Dry	N	high organics
3440369	463775	5975874	C	B	15	Coarse	Dry	N	
3440370	463755	5975863	C	B	15	Coarse	Dry	N	
3440371	463726	5975850	C	B	20	Coarse	Damp	N	
3440372	463694	5975844	C	B	20	Coarse	Damp	N	
3440373	463674	5975830	C	B	15	Coarse	Dry	N	
3440374	463651	5975826	C	B	20	Coarse	Dry	N	
3440375	465523	5976893	C	B	30	Coarse	Dry	N	
3440376	465555	5976855	C	B	40	Coarse	Dry	N	
3440377	465573	5976807	C	B	20	Coarse	Dry	N	
3440378	465590	5976755	C	B	45	Coarse	Damp	N	
3440379	465600	5976708	C	B	40	Coarse	Damp	N	
3440380	465603	5976659	C	B	30	Coarse	Damp	N	
3440381	465593	5976607	C	B	35	Coarse	Damp	N	
3440382	465593	5976563	C	B	20	Coarse	Damp	N	
3440383	465577	5976513	C	B	15	Coarse	Damp	N	
3440384	465558	5976455	C	B	35	Coarse	Damp	N	
3440385	465522	5976426	C	B	35	Coarse	Damp	N	
3440386	465491	5976391	C	B	35	Coarse	Damp	N	
3440387	465456	5976352	C	B	40	Coarse	Damp	N	
3440388	465419	5976316	C	B	45	Coarse	Damp	N	
3440389	465381	5976275	C	B	10	Coarse	Damp	N	
3440390	465348	5976246	C	B	30	Coarse	Damp	N	
3440391	465321	5976209	C	B	35	Coarse	Damp	N	
3440392	465292	5976170	C	B	30	Coarse	Damp	N	
3440393	465268	5976138	C	B	30	Coarse	Damp	N	
3440394	465221	5976076	C	GB	20	Coarse	Damp	N	high organics
3440395	465203	5976030	C	GB	20	Coarse	Damp	N	
3440396	465166	5975994	C	B	20	Coarse	Damp	N	
3440397	465118	5975976	C	B	20	Coarse	Damp	N	
3440398	465092	5975941	C	B	20	Coarse	Damp	N	
3440399	465061	5975892	C	B	20	Coarse	Damp	N	

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440400	465025	5975867	C	B	20	Coarse	Dry	N	
3440501	479616	5946921	B	GB	40	Coarse	Damp	Y	
3440502	479601	5946868	B	B	40	Coarse	Damp	Y	boggy
3440503	479597	5946793	B	GB	40	Coarse	Damp	Y	
3440504	479607	5946750	B	B	5	Coarse	Damp	Y	higher organics
3440505	479648	5946700	B	GB	30	Coarse	Damp	Y	
3440506	479657	5946644	B	GB	30	Coarse	Damp	Y	
3440507	479661	5946592	B	B	25	Coarse	Damp	Y	
3440508	479687	5946534	B	GB	30	Coarse	Damp	Y	
3440509	479752	5946451	B	G	10	Coarse	Damp	Y	high organics
3440510	479790	5946358	B	G	15	Coarse	Damp	Y	
3440511	479806	5946299	B	B	15	Coarse	Damp	Y	high organics
3440512	479832	5946241	B	B	20	Coarse	Damp	Y	at rock sample
3440513	479870	5946201	B	B	30	Coarse	Damp	Y	at rock sample
3440514	479929	5946216	B	B	15	Coarse	Damp	Y	
3440515	479943	5946258	B	B	10	Coarse	Damp	Y	
3440516	479924	5946320	B	B	25	Coarse	Damp	Y	
3440517	479914	5946374	B	B	10	Coarse	Damp	Y	
3440518	481894	5945171	B	B	25	Coarse	Damp	Y	
3440519	481921	5945160	B	B	25	Coarse	Dry	Y	
3440520	481962	5945139	B	B	20	Coarse	Dry	Y	
3440521	481975	5945111	B	B	20	Coarse	Dry	Y	
3440522	482015	5945057	B	B	20	Coarse	Dry	Y	
3440523	482040	5945019	B	B	25	Coarse	Dry	Y	
3440524	482085	5944980	B	B	25	Coarse	Damp	Y	
3440525	482130	5944946	B	B	20	Coarse	Dry	Y	
3440526	482174	5944926	B	B	20	Coarse	Dry	Y	
3440527	482203	5944875	B	B	15	Coarse	Dry	Y	
3440528	482235	5944819	B	B	30	Coarse	Dry	Y	
3440529	482254	5944764	B	B	30	Coarse	Dry	Y	
3440530	482300	5944742	B	B	25	Coarse	Dry	Y	high organics
3440531	482315	5944639	B	B	30	Coarse	Damp	Y	
3440532	482341	5944590	B	B	10	Coarse	Damp	Y	

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440533	482384	5944522	B	G	30	Coarse	Damp	Y	
3440534	482332	5944504	B	B	10	Coarse	Damp	Y	
3440535	482317	5944450	B	B	30	Coarse	Damp	Y	
3440536	482276	5944420	B	B	30	Coarse	Damp	Y	
3440551	482514	5944184	B	B	10	Coarse	Damp	Y	next to 3440013 rock sample
3440601	466066	5976507	C	B	5	Coarse	Damp	N	
3440602	466049	5976471	C	RB	0	Coarse	Damp	N	from gully gossan
3440603	465977	5976513	C	RB	0	Coarse	Damp	N	
3440604	460649	5982215	B	GB	30	Coarse	Damp	Y	below large rusty boulders
3440605	460666	5982225	B	B	10	Coarse	Damp	N	
3440606	460699	5982203	B	B	25	Coarse	Damp	Y	
3440607	460735	5982187	B	B	30	Coarse	Damp	Y	
3440608	460771	5982171	B	GB	35	Coarse	Damp	N	rusty outcrop and boulders
3440609	460786	5982157	B	B	20	Coarse	Damp	N	
3440610	460820	5982138	C	B	25	Coarse	Damp	N	
3440611	460852	5982119	C	B	25	Coarse	Damp	N	
3440612	460870	5982105	B	B	15	Coarse	Damp	N	
3440613	460911	5982078	B	B	15	Coarse	Damp	N	
3440614	460932	5982062	B	B	15	Coarse	Damp	N	
3440615	460959	5982041	B	B	15	Coarse	Damp	N	
3440616	460975	5982021	B	B	15	Coarse	Damp	N	
3440617	460998	5981998	B	B	20	Coarse	Damp	N	
3440618	461020	5981975	B	B	25	Coarse	Damp	N	
3440619	461046	5981959	B	GB	25	Coarse	Damp	N	
3440620	461079	5981926	B	GB	25	Coarse	Damp	N	
3440621	461113	5981918	B	GB	25	Coarse	Damp	N	
3440622	461137	5981907	B	GB	25	Coarse	Damp	N	
3440623	461163	5981922	B	GB	25	Coarse	Damp	N	
3440624	461191	5981918	B	GB	15	Coarse	Damp	N	
3440625	461216	5981922	B	GB	15	Coarse	Damp	N	
3440626	461243	5981919	B	GB	25	Coarse	Damp	N	
3440627	461276	5981916	B	GB	10	Coarse	Damp	N	
3440628	461299	5981900	B	GB	5	Coarse	Damp	N	

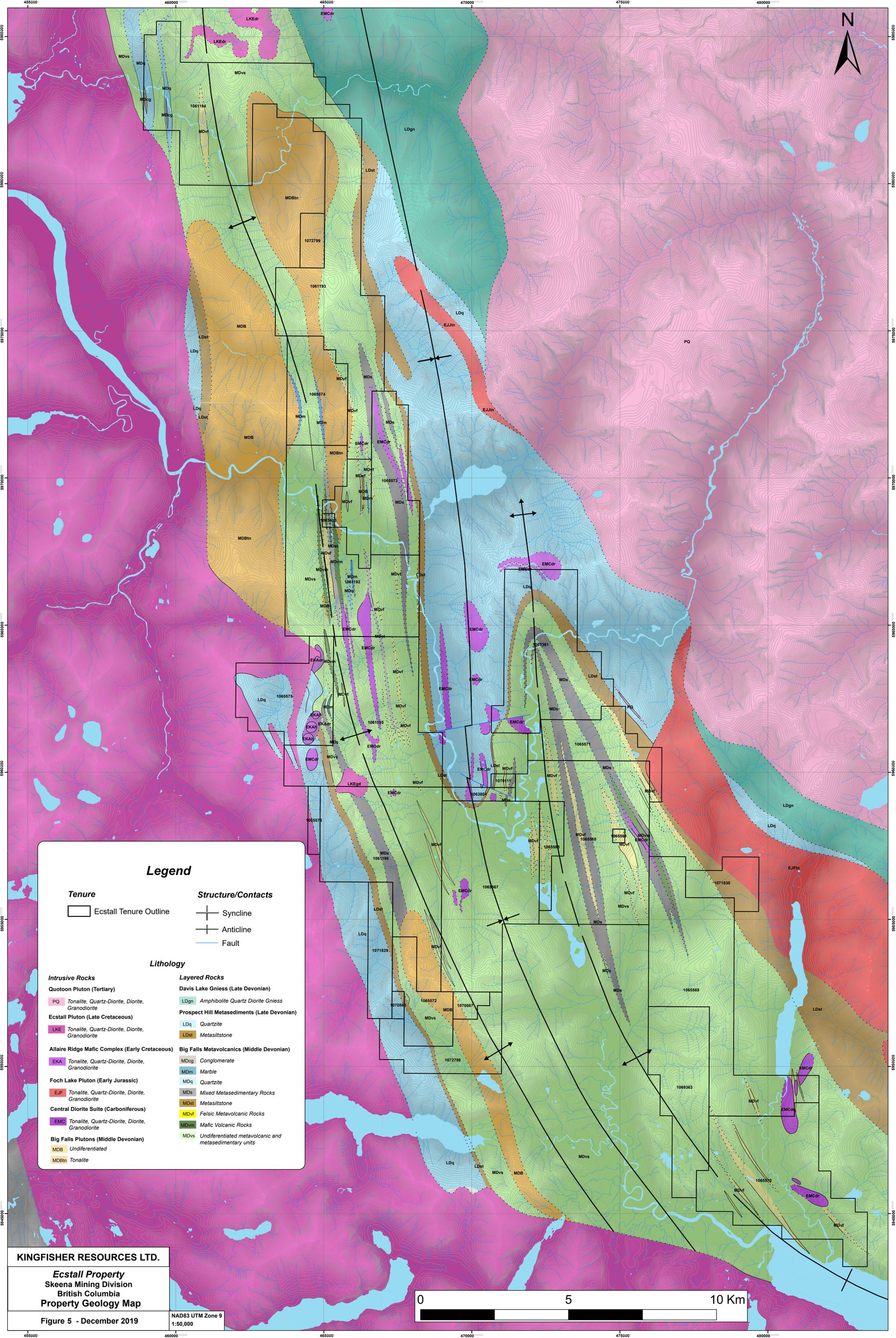
SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440629	461317	5981871	B	GB	5	Coarse	Damp	N	
3440630	461325	5981847	B	GB	5	Coarse	Damp	N	
3440631	461338	5981822	B	B	10	Coarse	Damp	N	
3440632	461355	5981799	B	GB	15	Coarse	Damp	N	
3440633	461376	5981769	B	B	15	Coarse	Damp	N	
3440634	461391	5981744	B	GB	20	Coarse	Damp	N	
3440635	461411	5981724	B	B	25	Coarse	Damp	N	
3440636	461427	5981699	B	B	15	Coarse	Damp	N	
3440637	461455	5981688	B	GB	5	Coarse	Damp	N	
3440638	461471	5981662	B	RB	20	Coarse	Damp	N	
3440639	461496	5981643	B	RB	25	Coarse	Damp	N	
3440640	461517	5981624	B	RB	10	Coarse	Damp	N	
3440641	461534	5981598	B	RB	25	Coarse	Damp	N	very rusty soil with py mineralized boulders
3440642	461554	5981576	B	RB	20	Coarse	Damp	N	
3440643	461585	5981537	B	GB	25	Coarse	Damp	N	
3440644	461570	5981556	B	RB	20	Coarse	Damp	N	
3440645	461606	5981517	B	GB	35	Coarse	Wet	N	
3440646	461624	5981492	B	GB	20	Coarse	Damp	N	some organics
3440647	461636	5981469	B	GB	20	Coarse	Damp	N	near rhyolite float
3440648	460628	5982153	B	RB	20	Coarse	Damp	N	
3440649	460599	5982155	B	RB	10	Coarse	Damp	N	
3440650	460569	5982166	B	RB	15	Coarse	Damp	N	near banded rhyolite float sample
3440701	464997	5975828	C	G	25	Coarse	Dry	N	
3440702	464960	5975788	C	G	25	Coarse	Damp	N	
3440703	464930	5975737	C	B	25	Coarse	Damp	N	at rock sample
3440704	464172	5975383	C	RB	15	Coarse	Damp	N	
3440705	464144	5975376	C	B	30	Coarse	Damp	N	at rock sample
3440706	464123	5975381	C	RB	35	Coarse	Damp	N	at rock sample
3440707	464091	5975390	C	RB	20	Coarse	Dry	N	under clif base
3440708	460661	5982238	B	B	15	Coarse	Damp	Y	under clif base
3440709	460690	5982225	B	B	60	Coarse	Damp	Y	
3440710	460731	5982219	B	B	65	Coarse	Damp	Y	
3440711	460746	5982211	B	B	30	Coarse	Damp	Y	under clif base/ at rock sample

SampleNo	East	North	Horizon	Colour	Depth	PebbleDesc	Moisture	Clearcut	Notes
3440712	460777	5982209	B	B	20	Coarse	Damp	Y	
3440713	460790	5982180	B	B	30	Coarse	Damp	Y	
3440714	460822	5982167	B	B	20	Coarse	Damp	Y	
3440715	460845	5982150	B	B	55	Coarse	Damp	Y	
3440716	460871	5982142	B	GB	45	Coarse	Damp	Y	
3440717	460897	5982136	B	GB	40	Coarse	Damp	Y	
3440718	460925	5982140	B	B	65	Coarse	Damp	Y	
3440719	460948	5982137	B	GB	60	Coarse	Damp	Y	
3440720	460976	5982129	B	B	15	Coarse	Dry	Y	
3440721	461045	5982174	B	B	60	Coarse	Dry	Y	
3440722	461068	5982117	B	B	45	Coarse	Damp	Y	
3440723	461083	5982086	B	GB	40	Coarse	Damp	Y	
3440724	461091	5982068	B	GB	50	Coarse	Damp	Y	
3440725	461122	5982034	B	GB	50	Coarse	Damp	Y	
3440726	461140	5982028	B	GB	40	Coarse	Damp	Y	
3440727	461171	5982017	B	GB	35	Coarse	Damp	Y	high organics
3440728	461210	5982043	B	GB	30	Coarse	Damp	Y	
3440729	461239	5982051	B	GB	40	Coarse	Damp	Y	high organics
3440730	461284	5982018	B	GB	50	Coarse	Damp	Y	high organics
3440731	461290	5982018	B	GB	15	Coarse	Damp	Y	
3440732	461306	5981973	B	GB	40	Coarse	Damp	Y	high organics
3440733	461343	5981955	B	GB	50	Coarse	Damp	Y	
3440734	461349	5981908	B	GB	40	Coarse	Dry	Y	
3440735	461373	5981896	B	GB	65	Coarse	Damp	Y	
3440736	461386	5981868	B	GB	50	Coarse	Damp	Y	
3440737	460648	5982230	B	B	50	Coarse	Damp	Y	
3440738	460623	5982253	B	B	45	Coarse	Damp	Y	
3440739	460595	5982263	B	GB	45	Coarse	Damp	Y	
3440740	460572	5982254	B	B	10	Coarse	Damp	Y	
3440741	460538	5982250	B	B	60	Coarse	Dry	Y	
3440742	460520	5982270	B	B	15	Coarse	Dry	Y	
3440743	460460	5982270	B	B	15	Coarse	Dry	Y	high organics
3440744	460440	5982202	B	G	60	Coarse	Damp	Y	

APPENDIX D: Sample Descriptions

Stream Sediments

SampleNo	East	North	StreamWidth	StreamFlow	Lith	StreamType	SampleQuality	Description
3440201	482288	5944252	2.50m	Low	Volcanic	Straight	Medium	mineralized float in ck
3440202	482285	5944236	2.50m	Low	Volcanic	Straight	High	southern branch. min float
3440203	482447	5944194	2.50m	Low	Volcanic	Straight	High	
3440204	482516	5944206	2.50m	Low	Volcanic	Straight	High	right below gossan
3440205	463954	5975890	2.0m	Medium	Volcanic	Straight	High	abv gossan
3440206	463901	5975961	1.00m	Medium	Volcanic	Straight	High	below gossan in si
3440207	463847	5975976	2.0m	Medium	Volcanic	Straight	High	
3440208	463855	5975896	2.0m	Medium	Volcanic	Straight	Medium	below gossan. very little sample material.
3440209	461202	5982229	3.00m	Low	Intrusive	Intermittent	Medium	no flow in seasonal ck. not much silt in sample. might not run. gniess bedrock around.



Legend

Tenure

Ecstall Tenure Outline

Structure/Contacts

Syncline
 Anticline
 Fault

Lithology

Intrusive Rocks

Quotoon Pluton (Tertiary)

PQ Tonalite, Quartz-Diorite, Diorite, Granodiorite

Ecstall Pluton (Late Cretaceous)

LKE Tonalite, Quartz-Diorite, Diorite, Granodiorite

Allaire Ridge Mafic Complex (Early Cretaceous)

EKA Tonalite, Quartz-Diorite, Diorite, Granodiorite

Foch Lake Pluton (Early Jurassic)

EJF Tonalite, Quartz-Diorite, Diorite, Granodiorite

Central Diorite Suite (Carboniferous)

EMC Tonalite, Quartz-Diorite, Diorite, Granodiorite

Big Falls Plutons (Middle Devonian)

MDB Undifferentiated

MDBtn Tonalite

Layered Rocks

LDgn Amphibolite Quartz Diorite Gneiss

Prospect Hill Metasediments (Late Devonian)

LDq Quartzite

LDst Metasilstone

Big Falls Metavolcanics (Middle Devonian)

MDcg Conglomerate

MDm Marble

MDq Quartzite

MDs Mixed Metasedimentary Rocks

MDst Metasilstone

MDvf Felsic Metavolcanic Rocks

MDvm Mafic Volcanic Rocks

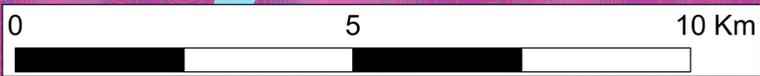
MDvs Undifferentiated metavolcanic and metasedimentary units

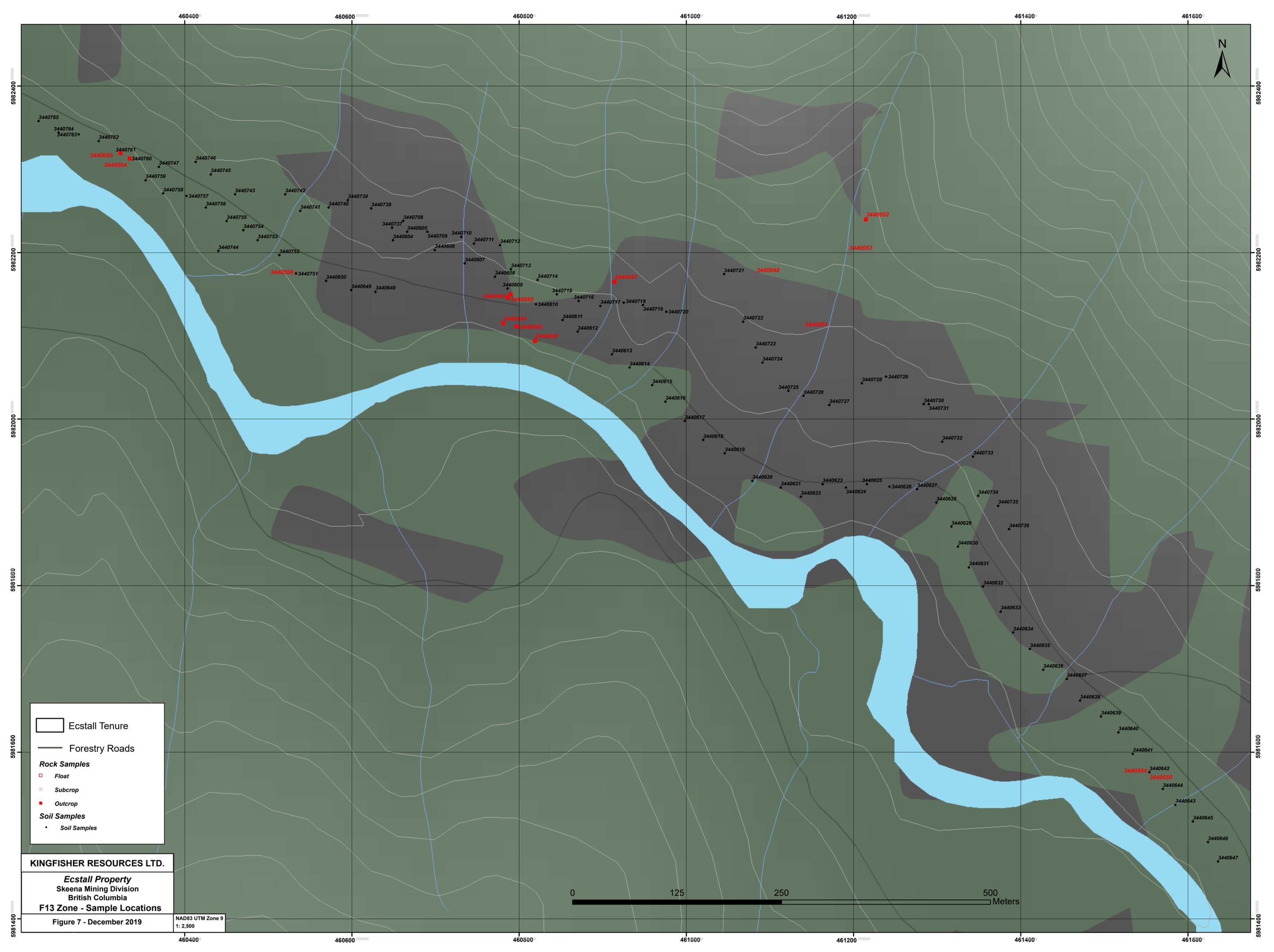
KINGFISHER RESOURCES LTD.

Ecstall Property
 Skeena Mining Division
 British Columbia
Property Geology Map

Figure 5 - December 2019

NAD83 UTM Zone 9
 1:50,000





Ecstall Tenure
— Forestry Roads

Rock Samples

- Float
- ▨ Subcrop
- Outcrop

Soil Samples

- Soil Samples

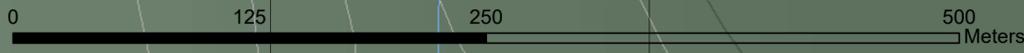
KINGFISHER RESOURCES LTD.

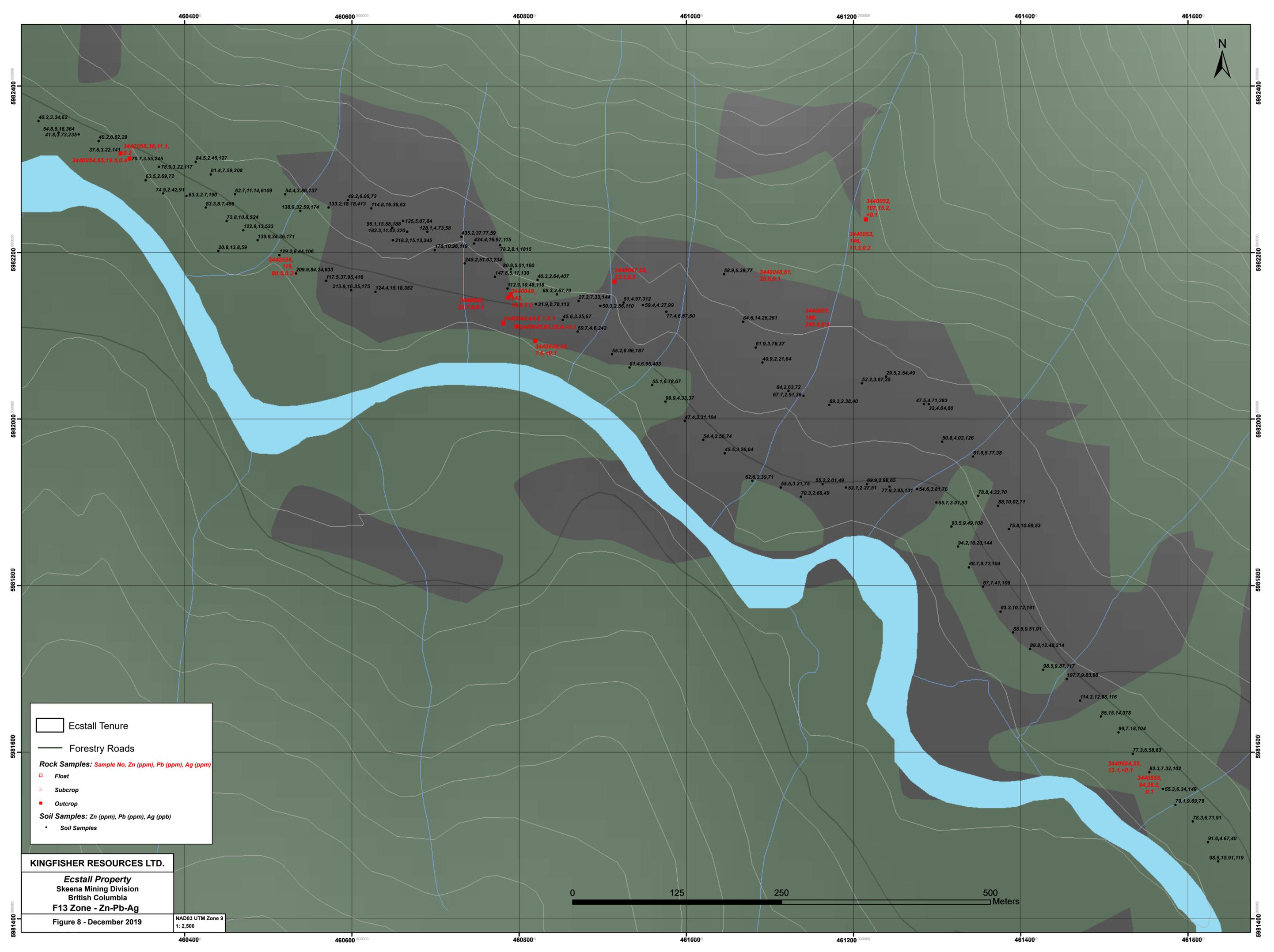
Ecstall Property
Skeena Mining Division
British Columbia

F13 Zone - Sample Locations

Figure 7 - December 2019

NAD83 UTM Zone 9
1: 2,500

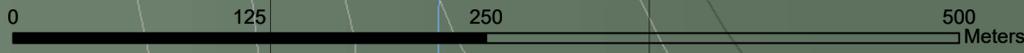


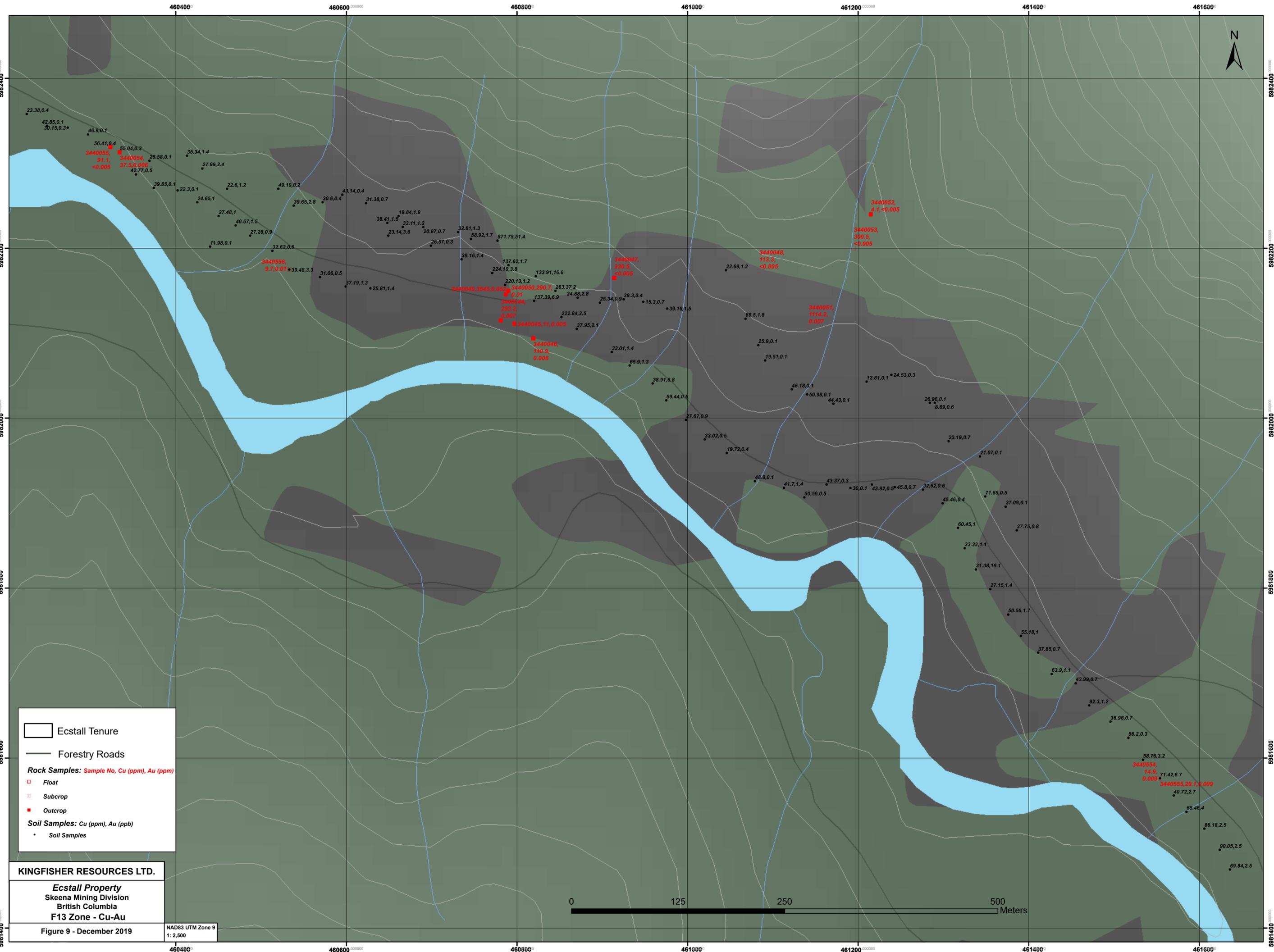


Ecstall Tenure
 Forestry Roads
Rock Samples: Sample No, Zn (ppm), Pb (ppm), Ag (ppm)
□ Float
▨ Subcrop
■ Outcrop
Soil Samples: Zn (ppm), Pb (ppm), Ag (ppb)
• Soil Samples

KINGFISHER RESOURCES LTD.
 Ecstall Property
 Skeena Mining Division
 British Columbia
F13 Zone - Zn-Pb-Ag
 Figure 8 - December 2019

NAD83 UTM Zone 9
 1: 2,500



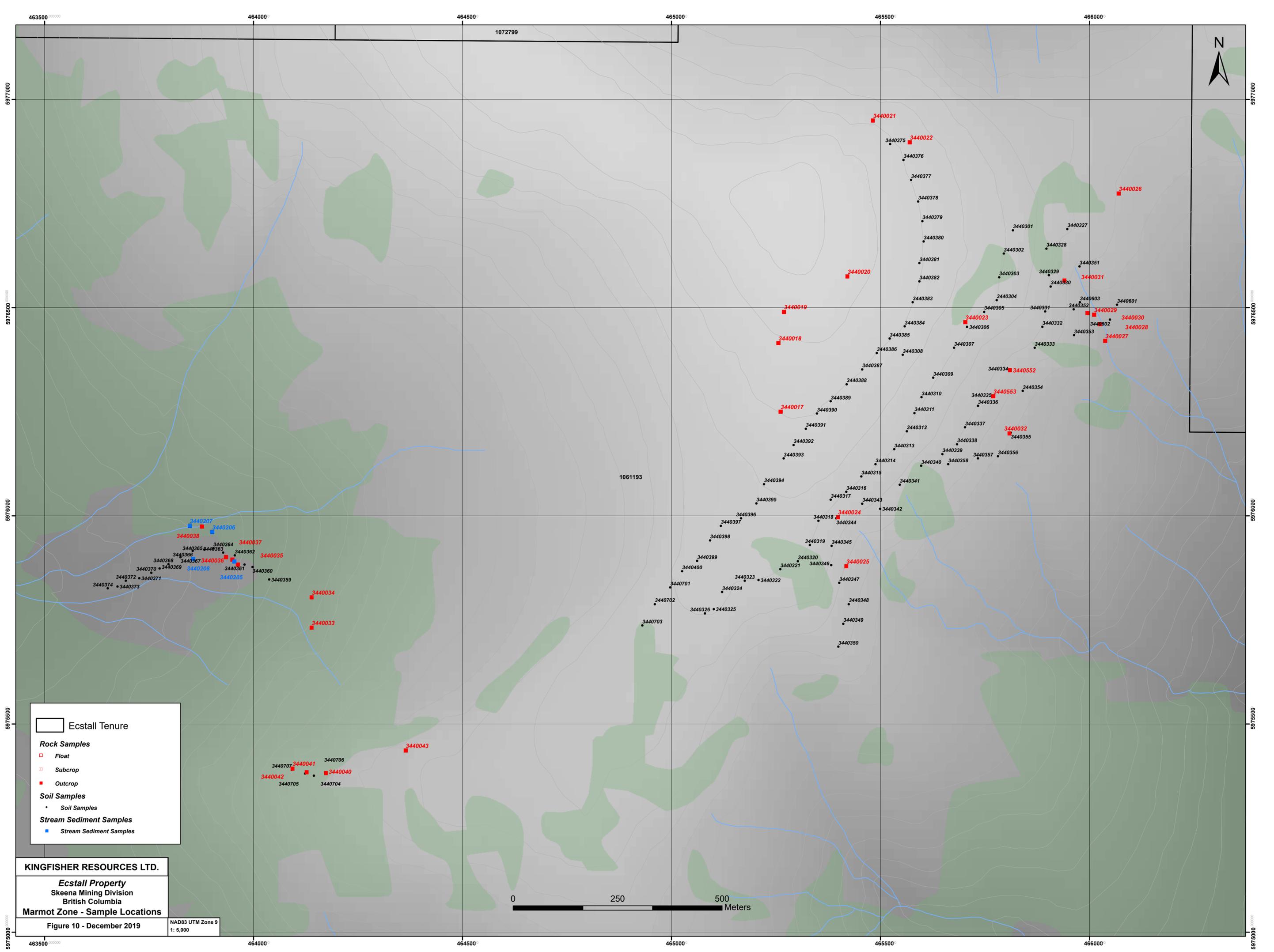


Ecstall Tenure
 Forestry Roads
Rock Samples: Sample No, Cu (ppm), Au (ppm)
 Float
 Subcrop
 Outcrop
Soil Samples: Cu (ppm), Au (ppb)
• Soil Samples

KINGFISHER RESOURCES LTD.
 Ecstall Property
 Skeena Mining Division
 British Columbia
 F13 Zone - Cu-Au
 Figure 9 - December 2019

NAD83 UTM Zone 9
 1: 2,500





Ecstall Tenure

Rock Samples

- Float
- ▤ Subcrop
- Outcrop

Soil Samples

- Soil Samples

Stream Sediment Samples

- Stream Sediment Samples

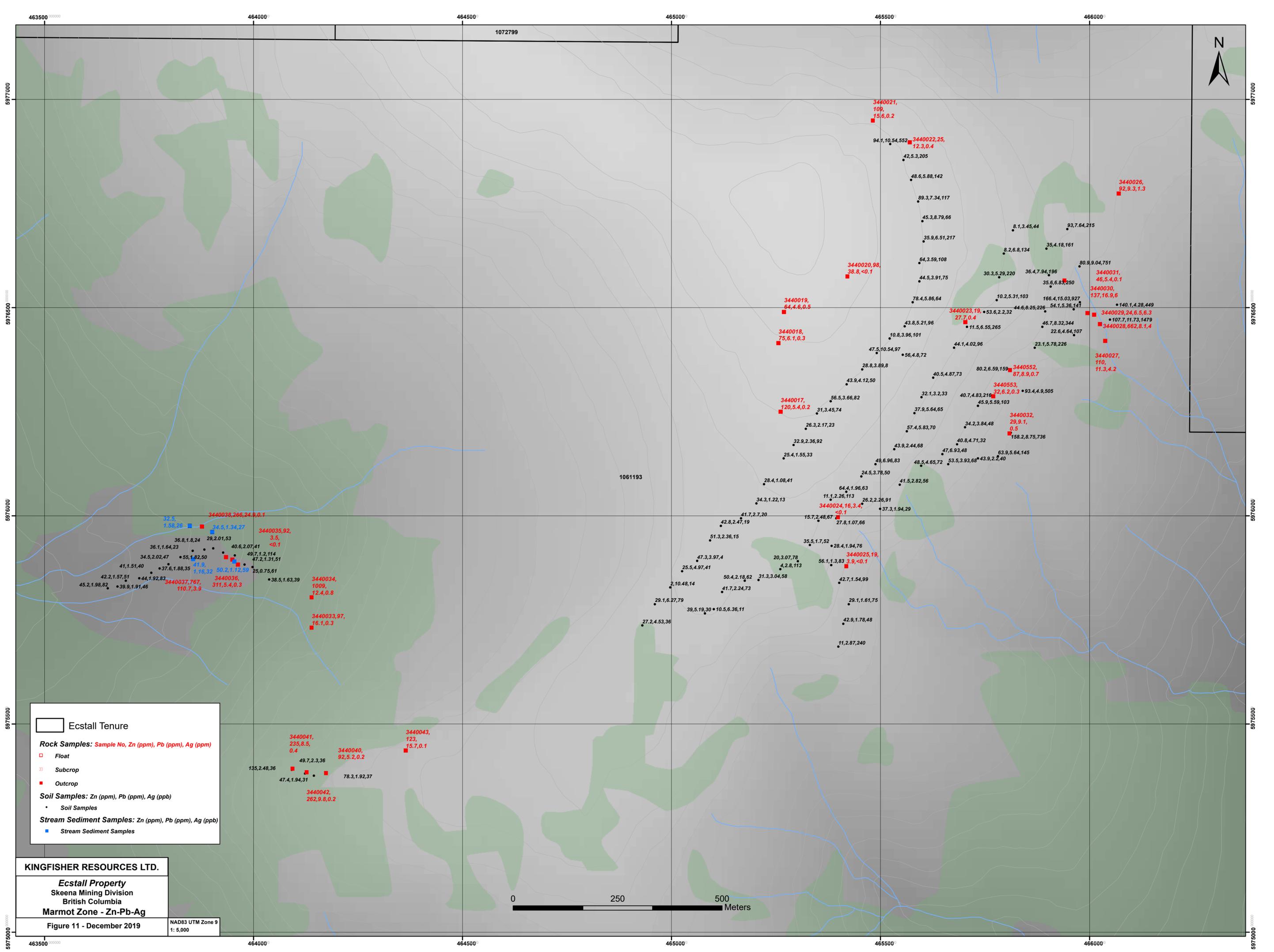
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Ecstall Property
Skeena Mining Division
British Columbia
Marmot Zone - Sample Locations

Figure 10 - December 2019

NAD83 UTM Zone 9
1: 5,000

0 250 500 Meters



Ecstall Tenure

Rock Samples: Sample No, Zn (ppm), Pb (ppm), Ag (ppm)

- Float
- ▤ Subcrop
- Outcrop

Soil Samples: Zn (ppm), Pb (ppm), Ag (ppb)

- Soil Samples

Stream Sediment Samples: Zn (ppm), Pb (ppm), Ag (ppb)

- Stream Sediment Samples

KINGFISHER RESOURCES LTD.

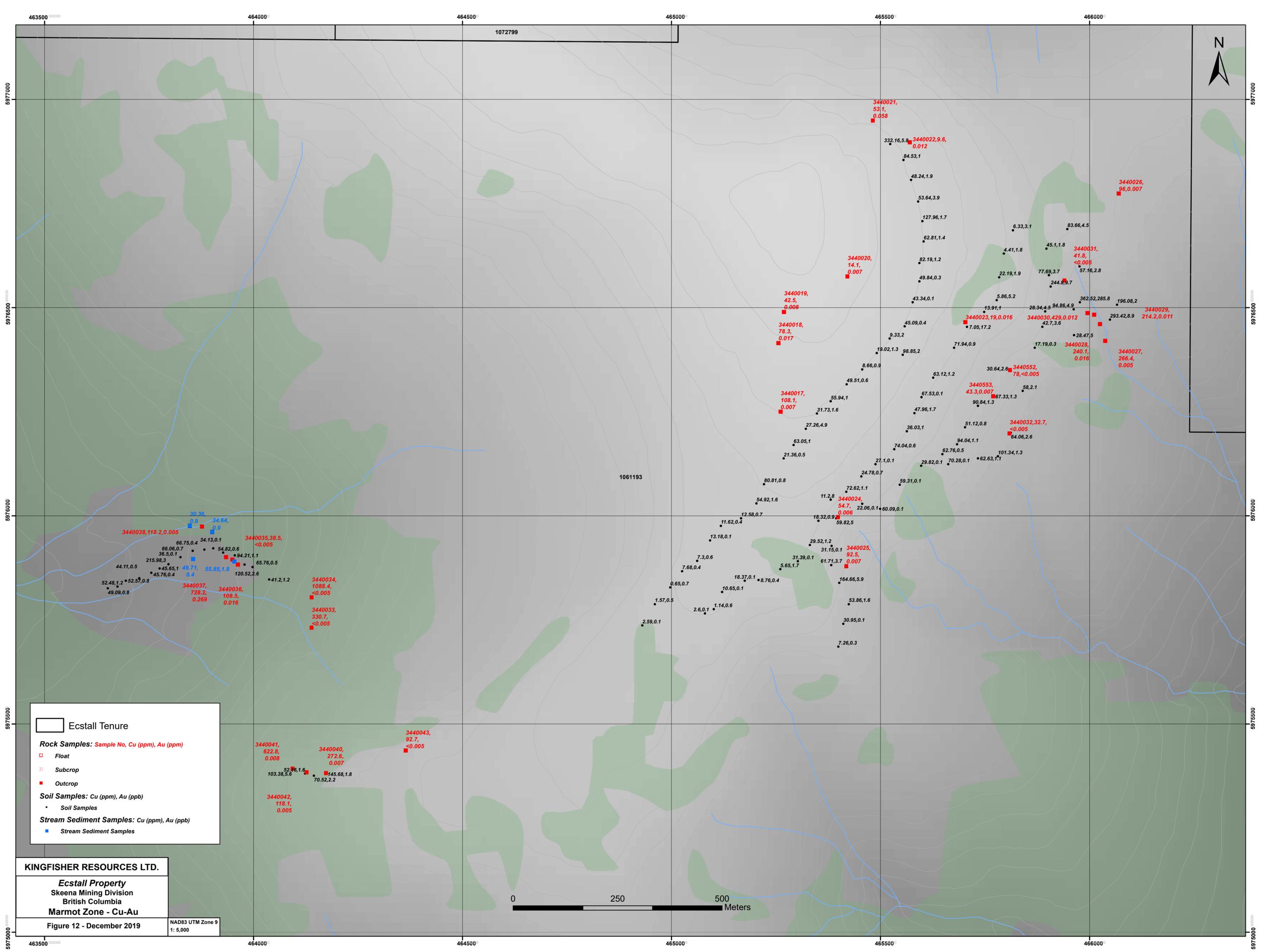
Ecstall Property
 Skeena Mining Division
 British Columbia
 Marmot Zone - Zn-Pb-Ag

NAD83 UTM Zone 9
 1: 5,000



463500 464000 464500 465000 465500 466000

5975000 5976000 5977000



Ecstall Tenure

Rock Samples: Sample No, Cu (ppm), Au (ppm)

- Float
- ▤ Subcrop
- Outcrop

Soil Samples: Cu (ppm), Au (ppb)

- Soil Samples

Stream Sediment Samples: Cu (ppm), Au (ppb)

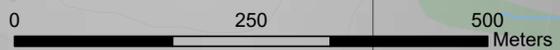
- Stream Sediment Samples

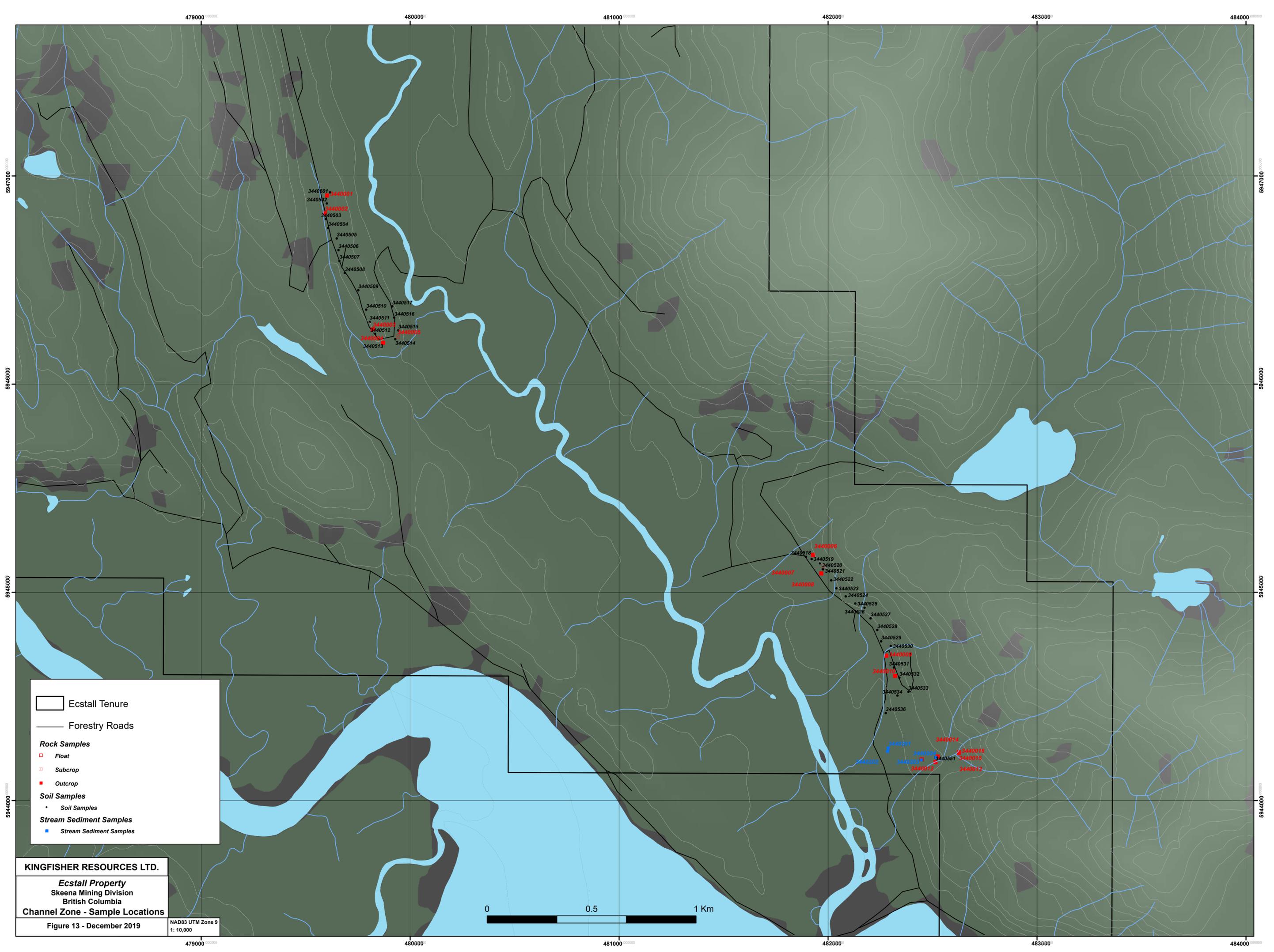
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Ecstall Property
 Skeena Mining Division
 British Columbia
 Marmot Zone - Cu-Au

Figure 12 - December 2019

NAD83 UTM Zone 9
 1: 5,000





	Ecstall Tenure
	Forestry Roads
Rock Samples	
	Float
	Subcrop
	Outcrop
Soil Samples	
	Soil Samples
Stream Sediment Samples	
	Stream Sediment Samples

KINGFISHER RESOURCES LTD.
Ecstall Property
 Skeena Mining Division
 British Columbia
Channel Zone - Sample Locations

NAD83 UTM Zone 9
 1: 10,000

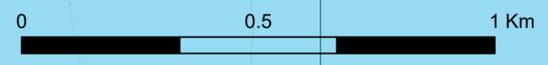


Figure 13 - December 2019

479000 480000 481000 482000 483000 484000

594700

594600

594500

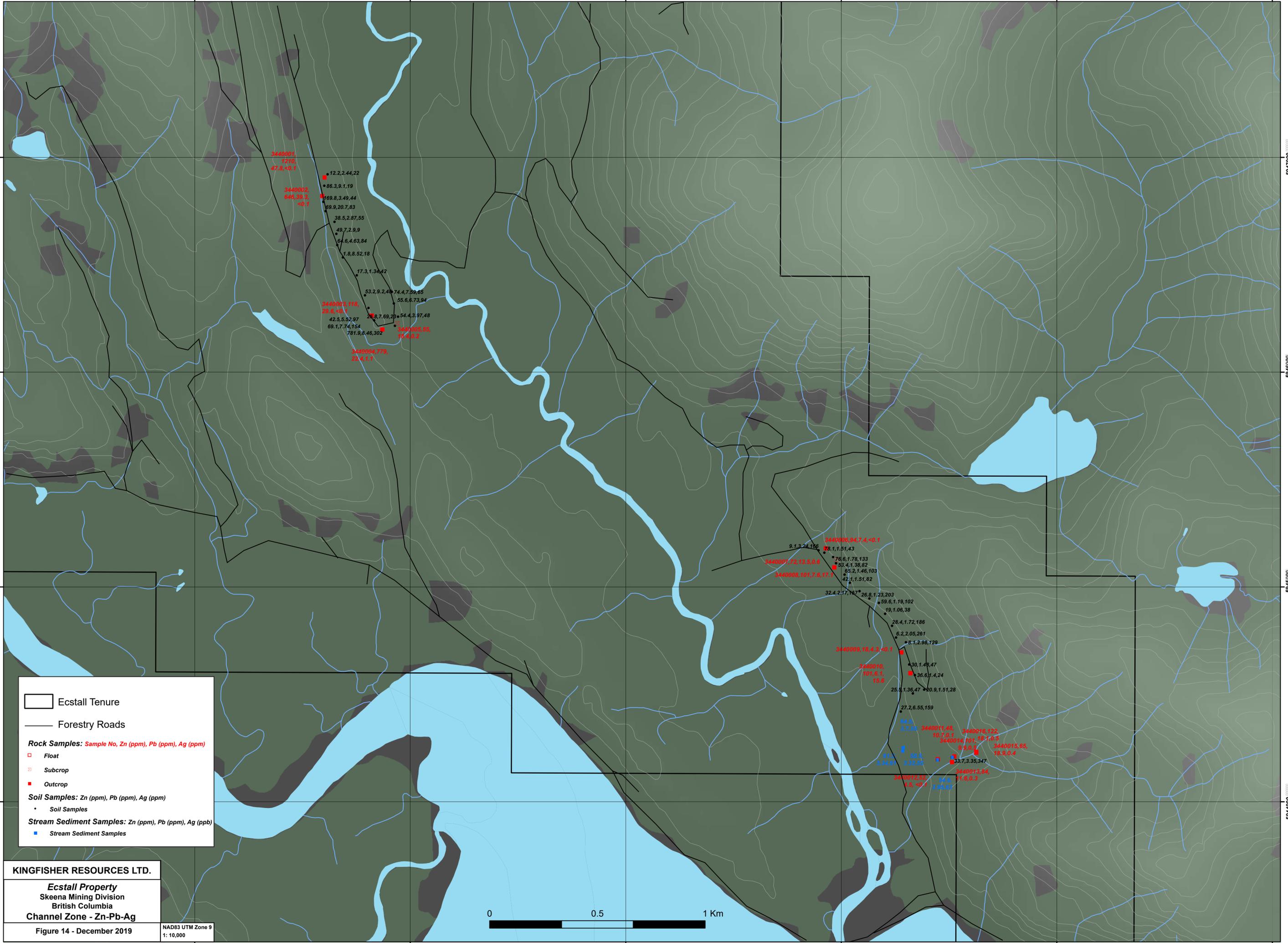
594400

594700

594600

594500

594400



Ecstall Tenure

Forestry Roads

Rock Samples: Sample No, Zn (ppm), Pb (ppm), Ag (ppm)

- Float
- ▤ Subcrop
- Outcrop

Soil Samples: Zn (ppm), Pb (ppm), Ag (ppm)

- Soil Samples

Stream Sediment Samples: Zn (ppm), Pb (ppm), Ag (ppb)

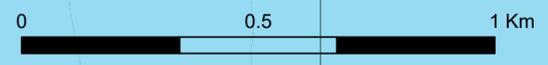
- Stream Sediment Samples

KINGFISHER RESOURCES LTD.

Ecstall Property
Skeena Mining Division
British Columbia
Channel Zone - Zn-Pb-Ag

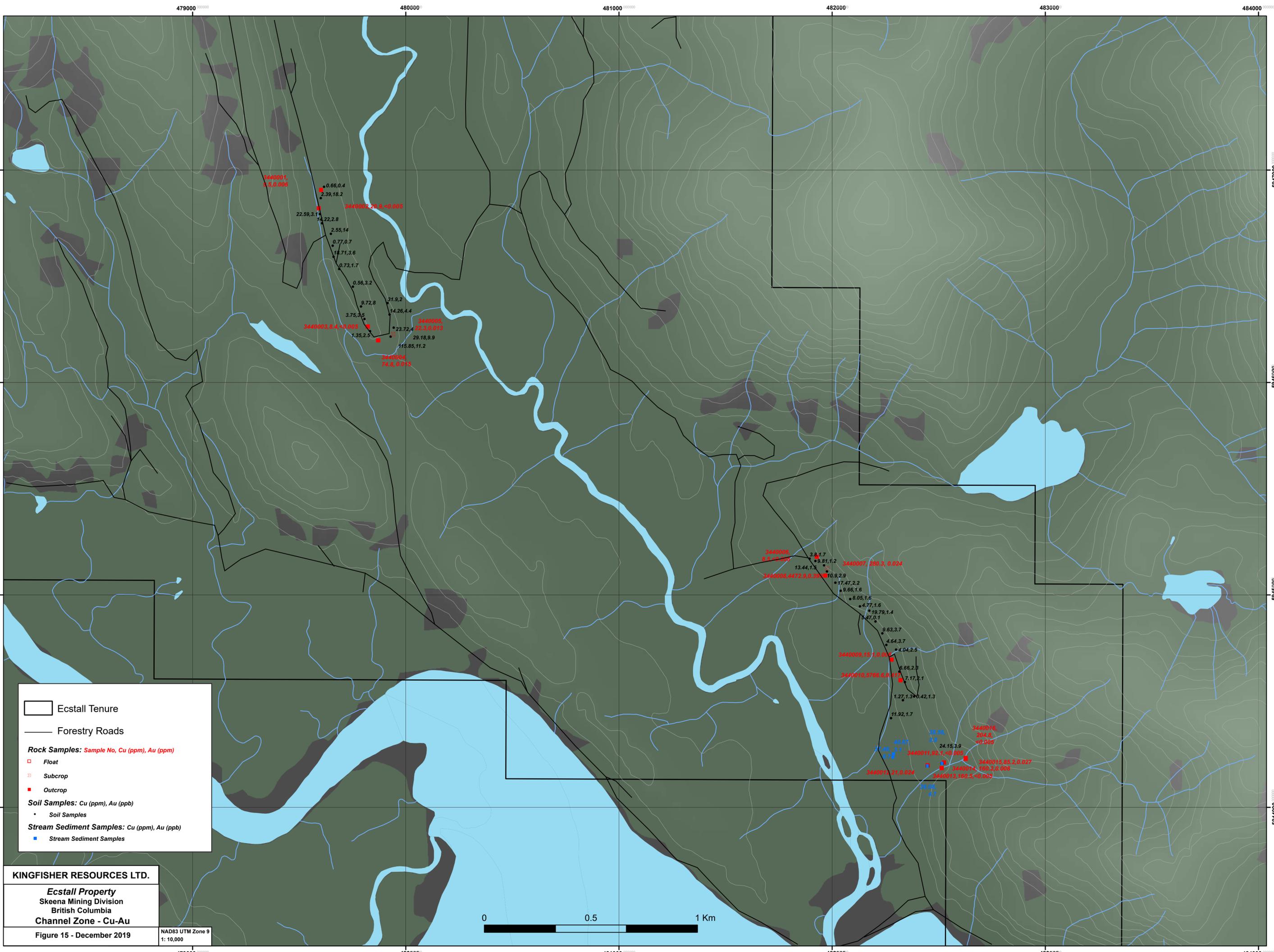
Figure 14 - December 2019

NAD83 UTM Zone 9
1: 10,000



479000 480000 481000 482000 483000 484000

479000 480000 481000 482000 483000 484000



594700

594600

594500

594400

594700

594600

594500

594400

479000 480000 481000 482000 483000 484000

Ecstall Tenure

Forestry Roads

Rock Samples: Sample No, Cu (ppm), Au (ppm)

- Float
- ▤ Subcrop
- Outcrop

Soil Samples: Cu (ppm), Au (ppb)

- Soil Samples

Stream Sediment Samples: Cu (ppm), Au (ppb)

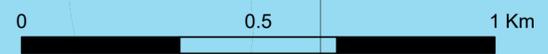
- Stream Sediment Samples

KINGFISHER RESOURCES LTD.

Ecstall Property
Skeena Mining Division
British Columbia
Channel Zone - Cu-Au

Figure 15 - December 2019

NAD83 UTM Zone 9
1: 10,000



3440001 3.3, 0.005

0.66, 0.4

2.39, 18.2

22.59, 3.1

14.22, 2.8

2.55, 1.4

0.77, 0.7

14.71, 3.6

0.73, 1.7

0.56, 3.2

9.72, 8

31.9, 2

3.75, 3.5

14.26, 4.4

3440002 26.8, 0.005

23.72, 4

22.3, 0.013

1.35, 2.5

29.18, 9.9

115.85, 11.2

3440003 74.8, 0.015

3440006 6.3, 0.005

3.8, 1.7

9.81, 1.2

13.44, 1.5

3440007 280.3, 0.024

10.9, 2.9

17.47, 2.2

9.66, 1.6

8.05, 1.6

4.77, 1.6

19.79, 1.4

3.47, 0.1

9.63, 3.7

4.64, 3.7

3440008 15, 0.005

4.04, 2.5

3440010 5796.8, 0.11

6.66, 2.8

7.17, 2.1

1.27, 1.3

0.42, 1.3

11.92, 1.7

3440011 31, 0.024

40.07

18.56

24.15, 3.9

3440012 180.5, 0.005

15.06

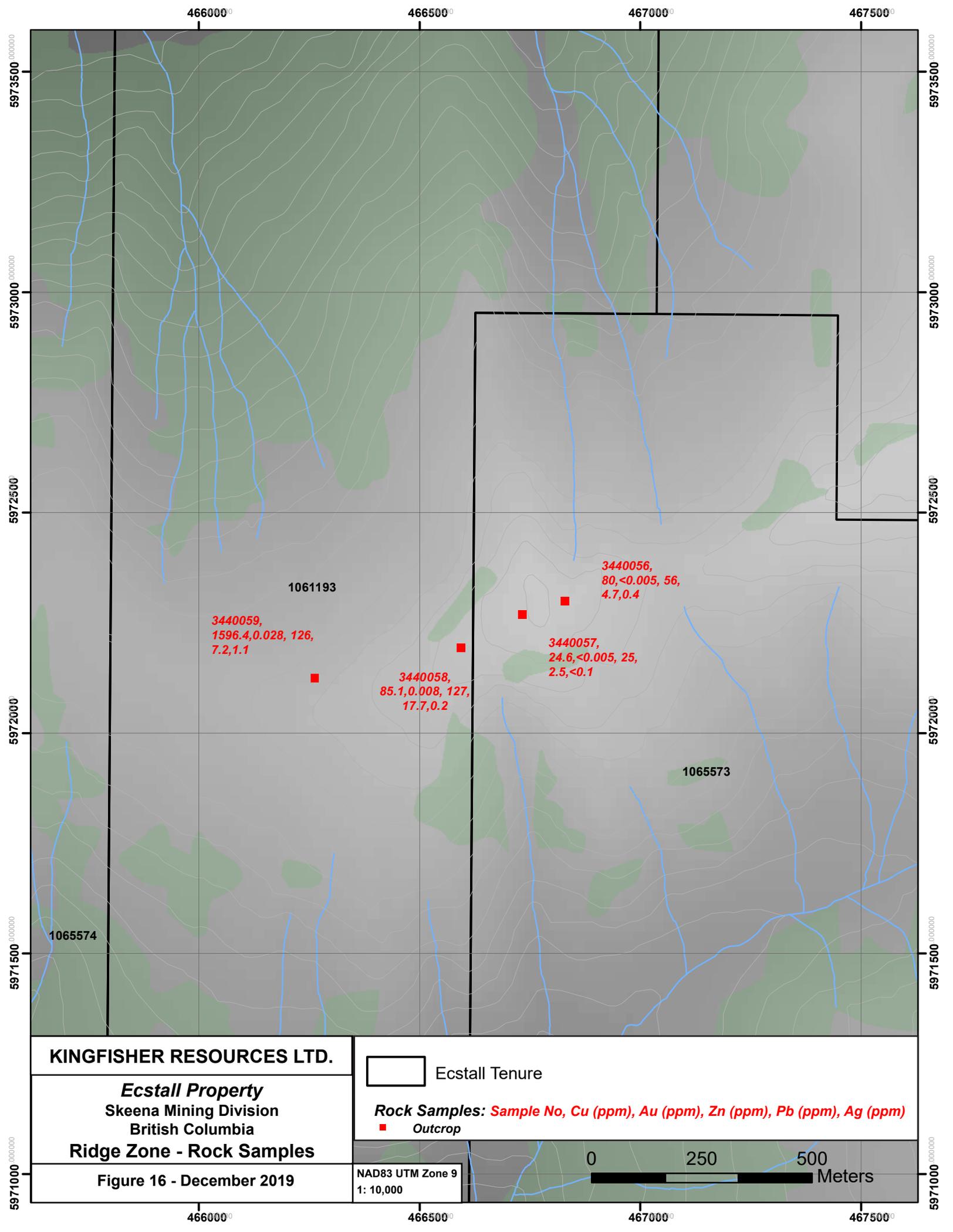
4.7

3440016 204.8, 0.005

3440015 85.2, 0.027

3440014 180.2, 0.008

3440013 180.5, 0.005



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Ecstall Property

**Skeena Mining Division
British Columbia**

Ridge Zone - Rock Samples

Figure 16 - December 2019

 Ecstall Tenure

Rock Samples: *Sample No, Cu (ppm), Au (ppm), Zn (ppm), Pb (ppm), Ag (ppm)*
 ***Outcrop***

NAD83 UTM Zone 9
1: 10,000

0 250 500
Meters

**3440059,
1596.4,0.028, 126,
7.2,1.1**

1061193

**3440058,
85.1,0.008, 127,
17.7,0.2**

**3440057,
24.6,<0.005, 25,
2.5,<0.1**

**3440056,
80,<0.005, 56,
4.7,0.4**

1065573

1065574

466000

466500

467000

467500

5971000

5971500

5972000

5972500

5973000

5973500

5971000

5971500

5972000

5972500

5973000

5973500