GEOLOGICAL REPORT ON THE KATE AND LIL CLAIMS, KLONDIKE GOLDFIELDS, YUKON TERRITORY

DAWSON MINING DISTRICT

NTS Map Sheet 116 B 02, 03

Latitude 64° 01´ 50.2" N; Longitude 138° 58' 24.5" W

NAD 83 UTM Zone 7N

599000 m E 7102000 m N

Prepared for

Small Hydro Investments Inc.
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by

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&

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TABLE OF CONTENTS

List of Figures

List of Tables

Appendices

1.0 INTRODUCTION

Small Hydro Investments Inc. ("Small Hydro") is the registered owner of 267 quartz claims covering that portion of the Klondike Goldfields located between Hunker Creek and the South Klondike Highway #2 to the north. The claims were staked in December 2015 to cover open ground that was considered prospective for gold mineralization.

In 2016, Small Hydro conducted a soil and rock geochemistry program on the Lil and Kate claims to test the precious and/or base metal potential. The fieldwork on the Lil Claims was carried out on two soil sampling grids that were laid in areas A and B, situated east and west of Germaine Creek (Figs. 2, 3) and a total of 98 samples from "C" and/or "B" horizon collected. Additionally, twelve rock samples were collected from outcrops and from historical drill cores situated outside the soil grids. The fieldwork on Kate claims was conducted in September 2016 on a grid over the southwest portion of the claim block.

The Kate and Lil Claims are prospective for orogenic gold mineralization, epithermal gold associated with a late Cretaceous Aalki Creek stock, hydrothermally altered ultramafic rocks ("listwanites") and/or Tertiary felsic volcanic rocks. The possibility of intrusion related gold systems has also been suggested.

1.1 Location and Access

The Kate and Lil claims are located approximately 20 kilometers east of Dawson City, Yukon. They comprise a contiguous block of 266 claims consisting of Kate 1-103 and Lil 1-164 quartz claims covering an area of approximately 5560 hectares. The 266 claims are all held under one Grouping HD03521. All claims are all within Tr'ondëk Hwëch'in traditional territory.

The centre of the claim block is at Latitude 64° 01′ 50.2" N, Longitude 138° 58' 24.5" W. All claims are within NTS map sheets 116 B 02 & 03. The UTM Coordinates at the same point are: UTM NAD 83 Zone 7V 599000 m E and 7102000 m N.

Access to the Property can be gained by the Klondike Highway or Hunker Creek road and old roads and trails leading off either the Hunker road or the Klondike Highway. A number of old trails and cat roads provide access to the Germaine Showing (Minfile 116B006) and areas north of the Hunker road.

From Whitehorse there is jet service to Vancouver, Kelowna, Calgary, and Edmonton, Yellowknife, Ottawa and other points south. Whitehorse is a major center of supplies, communications and has a source of skilled labour for exploration, diamond drilling, construction and mining operations. Air North provides daily turbo-prop flights

between Whitehorse and Dawson. Flights are sometimes delayed or cancelled due to valley fog in September and October.

1.2 The Claims

The Kate and Lil claims are a contiguous block of claims covering an area of approximately 55 km^2. Located in central-western Yukon within the Klondike Goldfields, the claim block is south of the Klondike Highway and the Dawson airport approximately 22 km east of Dawson City (Fig. 1). The claims are located in the Dawson Mining District, NTS sheet 116B 02 & 03 centered at 64^o 01'43" north latitude and 134^o 01 15" west longitude. The property exploration history and geology are summarized in Yukon Minfile occurrences number 116B 004, 116B 006 and 116B 157. A list of claims with names and grant numbers is found in Appendix IV.

All claims are located within the Traditional Territory of the Tr'ondëk Hwëch'in First Nation. The claims were staked in December 2015 for Xyquest Mining Corp and subsequently transferred to Small Hydro Investments Inc. All claims are in good standing to 2021 and/or 2022 dates.

Three claims all on the northern claim perimeter are subject to Securities Agreement with the Government of Yukon because these claims Kate 88 (YF48505), Lil 121 (YF48375) and Lil 124 (YF48378) lie partly or wholly on Tr'ondëk Hwëch'in land parcels TH R64B, TH DS-106B1 and TH S 165B respectively. Under the Securities Agreement, the claim holder agrees that s/he shall not (a) enter on the land for miming purposes or mine on the land; or (b) authorize any other person to enter on the land for mining purposes or mine on the land without prior notice being given to the mining recorder. As long as the claim holder abides by conditions (a) and (b), the security shall be zero dollars.

Subsequent to the Securities Agreement, OIC 2020-28 dated February 6, 2020, withdraws the site specific land parcels from staking. Should these claims lapse, they cannot be restaked by any party.

Any exploration work carried out in the Yukon post April 1, 2020 required a Class 1 Notice (Permit) or a Class 3 Permit where work exceeds the Class 1 thresholds.

All work is based out of accommodation in Dawson City. The claims are accessible by road and a camp or helicopter are not required.

The Kate and Lil claims are contiguous with other mineral claims on all sides except the north.

Mineralization located on the property consists of quartz gold veins reported in the Ben Levy adit which is reported to have returned assays between 0.87 and 7.88 oz/ton Au

(McFaull, 1988). Work by UKHM from 1984-1988 which included adit re-habilitation did not duplicate these grades and it was assumed that all high grade vein material had been mined.

Trenches on the unexpected showing produced assay results of 1.4 g/t Au and 2.1 g/t Ag over 0.9 m (Yukon Minfile 116B006).

There are no outstanding environmental liabilities associated with the property as determined by the authors. There are old trails and cut-lines and some very old quartz and placer trenches.

There are no other environmental impacts associated with the site.

In accordance with the Yukon Quartz Mining Act, yearly extensions to the expiry dates of quartz claims are dependent upon conducting $100 of work per claim per year or paying the equivalent cash in lieu of work.

For assessment purposes, work must be filed before the claim expiry date for the year the work was completed. Excess work over the first year can be used to extend expiry dates up to maximum of four more years. Assessment costs can be applied to contiguous claims through filing grouping certificates (up to 750 contiguous claims). A statement of work and costs, and submission of an assessment report to the Dawson Mining Recorder is required verifying completion of the work. A $5 fee is payable for each assessment year claimed on the Certificate of work.

B. Boris Molak, PhD, P.Geo (BC) and R. Allan Doherty, P. Geo. were retained by Xyquest Mining Corp.,to provide an assessment report on the 2016 fieldwork and analytical results on the Kate and Lil claims for filing by the Yukon Mining Recorder Office.

1.3 Topography, Vegetation and Local Resources

Topography on the property is moderate. The terrain in the area of the TIN claims is characteristic of the un-glaciated Klondike Plateau. Elevations on the property range from 400 m (1,312 ft) at Hunker Creek to 780 m (2,559 ft) at the headwaters of Tinhorn Gulch. The property is tree covered and outcrop is generally poor. A new 69kV power line from Mayo, Yukon to Dawson City crosses the property along Wet Gulch.

The Property area contains abundant accessible sites for mining, camp sites, potential tailings storage areas and waste disposal areas and potential processing plant sites. Local resources in Dawson are sufficient for most levels of exploration work.

In 2016, Xyquest Mining Corp. completed soil and rock sampling and prospecting on parts of the Kate and Lil claim blocks.

There is no defined mineralization discovered to date on the Kate or LIL claims. However, previous geochemical surveys and drilling detected sulphidic mineralization and anomalous gold values associated with carbonatized and silicified serpentinites (listwanites), which crop out in the northern portion of the Lil claims. A fault parallel to Tintina Trench runs through this area and may have served as a conduit for hydrothermal fluids that caused hydrothermal alteration and mineralization including gold. Acid and mafic volcanic rocks of Eocene age occur on the Lil claims and in the surrounding area but a volcanic centre has not been identified to date. Many uncertainties regarding the structure and mineralization still exist and one cannot reject the idea that the above rocks are part of a tectonic melange. More work is needed to answer the many questions that were brought by the previous and recent work in this area.

Data concerning the location and status of mineral claims was obtained from Yukon Government Mining Claims Database tab at: https://www.yukonminingrecorder.ca.

The claims can be searched individually or by name to retrieve the digital claims records (Claims List Table 1, p 6). Claim data can also be obtained from the Mining Map Viewer best accessed through the Yukon Mining Recorder web site at: https://www.yukonminingrecorder.ca.

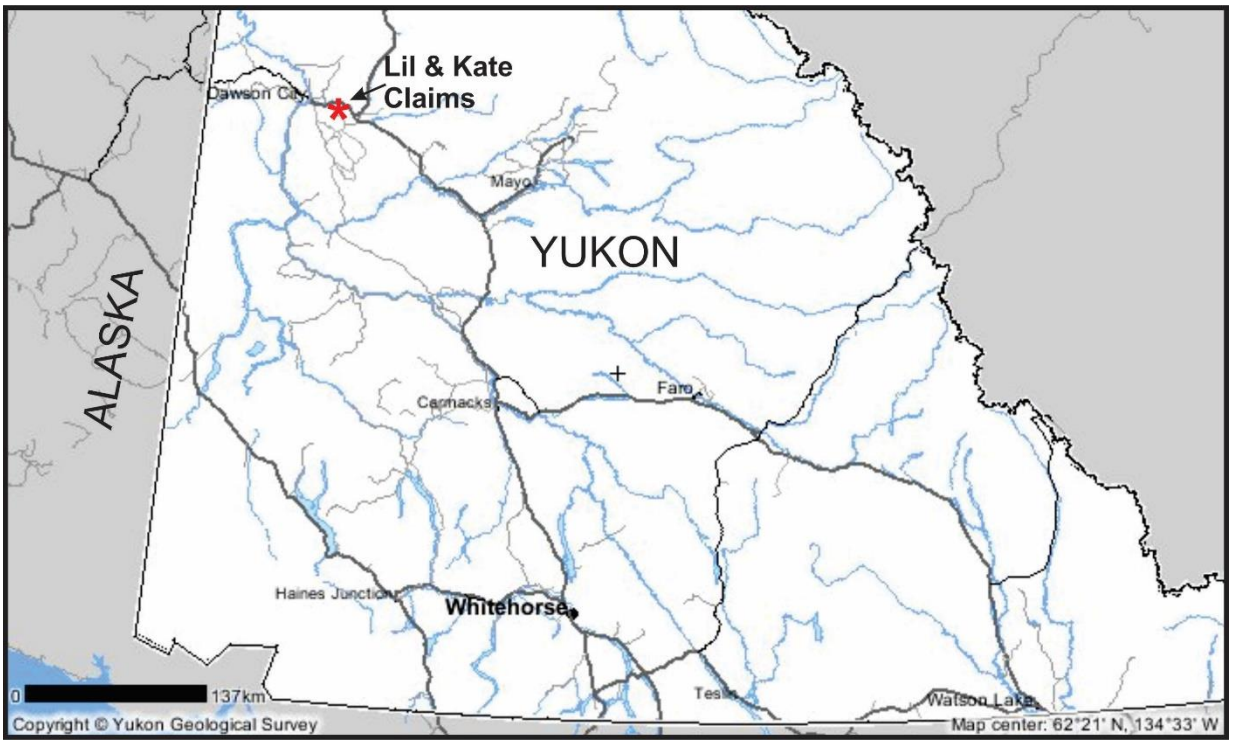


Fig. 1: Location of Lil and Kate claims.

The authors assume that independent legal advice has been received by Small Hydro Investments Inc., regarding the validity of the claims. The Mining Recorder claim data information is from Februray 2020 and lists ownership and expiry dates of the claims to describe the number and size of the claims used in Section 4.0 Property Description and Location.

1.4 History

Parts of the Kate and Lil claims have been explored intermittently since 1978. Drilling programs were completed in 1978 by Ukon JV on the Unexpected project (Minfile 116B006), and 1998 by Noranda, Balaclava and Radius Exploration Ltd (Minfile # 116B 004). The Ben Levy Adit (minfile occurrence 116B157) is located along the hunker Creek road just south of the Kate claims boundary.

Madelena Ventures Ltd complete grid soil sampling and magnetometer and IP surveys, parts of which cover the extreme SW corner of the current Kate claims. Golden Predator completed soil sampling across the Germaine Creek area in 2010. Shawn Ryan has reported on soil lines that cover a few of the Kate claims on the southeast side.

The Germaine Creek has been placer mined intermittently since 1962. Small operations generally recovered 200-300 ounces per year. Sluicing difficulties were encountered due to the clay-altered quartz porphyry bedrock that tended to ball up and carry considerable gold with it. Placer mining operations also recovered topaz, and cassiterite (Gleeson, 1970; Cathro, 1985), which had a distinct cutoff upstream (south) of the mapped volcanic rocks; therefore the source of topaz and cassiterite was presumably in the volcanics.

Between1978-1979 Archer Cathro and Associates ("Archer") conducted exploration for uranium on behalf of Ukon Joint Venture (Chevron and Kerr Addison). The main focus was on an area between current Kate and Lil southern claims boundary and Hunker Creek with some soil grids extending onto the current claims area. More recent work by various companies (Noranda, Balaclava, Radius Exploration and Golden Predator) had focused on the Goring and Germaine creek areas and the area on the north side of Hunker Creek. Radiometric, magnetometer, soil surveys and trenching showed that anomalies were associated with a Eocene quartz-feldspar porphyry stock. The claims were allowed to lapse when the uranium potential was found to be too low.

Archer (1979) describes topaz, fluorite, and zeolites occur in the volcanics. A sample from an open cut on the Unexpected claim exposed a purple stained quartz porphyry plug that assayed 1.4 g/t Au, 2.1 g/t AG over 0.9 m (Minfile 116B006).

In 1982, trenching by placer miners exposed a silicified volcanic breccia in bedrock and the area was restaked by Archer for its precious metal potential. Rock samples returned very high values in flourine (between 820-10,000 ppm), however the claims were allowed to lapse again due to low values in gold (less than 219 ppb).

In the early 1980s, Exploration and Geological Services, the Division of the Yukon Territory conducted a geological mapping program including norther part of the Klondike Goldfields (Debicki, 1984). The rock units underlying the Germaine Creek area were classified as dark grey to black carbonaceous quartzite and muscovite-quartz schist of Triassic or older age and as felsic volcanic rocks of Late Cretaceous to Early Tertiary age. A cassiterite occurrence named Germaine and the highly argillitized quartz porphyry that contains up to 100 ppm tin is described and compared with the unaltered porphyries, which contain ~ 7 ppm Sn only. Considerable colloform cassiterite is also reported from the placer gravels in Germaine Creek.

Noranda conducted a geological mapping and soil and rock geochemistry surveys in the Germaine Creek area (Diment, 1989). The soil survey produced a 400 m long arsenic anomaly, which also contained gold values up to 70 ppb and was thought to be derived from the nearby outcrops of strong to intense listwanitization. While quartz-feldspar

porphyry assayed insignificant values in gold, arsenic, mercury or antimony, all listwanite samples returned anomalous nickel ranging from 755 to 1336 ppm, anomalous arsenic and weak sporadic anomalies in gold (as much as 80 ppb) and mercury. The nickel and gold was confined to the more intensely altered areas, however, no significant sulphide mineralization or gold anomalies were found.

Although the quartz – feldspar porphyry contained eruptive textures and intense argillitization, it lacked the trace element anomalies (e.g. Hg, As, Sb, Ba) that are associated with the upper levels of epithermal gold deposits. Silicification is confined to minor chalcedonic veinlets representing a weak and single hydrothermal event. Usually, repetitive hydrothermal pulses forming cross-cutting stockwork breccias and silicified caps are needed to concentrate enough gold to produce an economic deposit.

Geological mapping by Balaclava Mines Inc. in 1996 and by Radius Explorations Ltd. ("Radius") in 1997 identified a zone of serpentinite altered to dolomite and ankerite with disseminated magnetite and rare fuchsite (Keyser, 1997). The altered ultramafics (listwanites) are locally sheared, brecciated and healed by a chalcedonic matrix with occasional calcite and fluorite. The zone lies between an outcrop of felsic pyroclastics with locally intense argillic alteration and the outcrop-free Tintina Trench. Part of the area underlain by listwanite is naturally devoid of vegetation.

Most of the scanty local bedrock talus that occurs on the hills and in the creek consists of porphyry. An exception occurs in the bulldozer trenches immediately south of the gravel pit, on the west side of Germaine Creek, which were probably cut by placer miners between 1981 - 83. These trenches expose bedrock float beneath a till layer less than 2 m thick. Bedrock at this location consists of an unusual assemblage of silicified, mu1ticoloured (dark and 1ight green, amber and red) fragments in a black matrix. Nine specimens returned low values in gold (up to 219 ppb) and tin (less than 9 ppm). Seven of these assayed 820 to 1700 ppm fluorine while the other two gave 6000 and greater than 10,000 ppm. The assays of five porphyry specimens gave values of less than 10 ppb Au, less than 18 ppb Hg, less than 4 pprn Sb and less than 34 ppm As.

In 1997, Radius conducted a chargeability and resistivity survey on the Brik Property to test the potential for hosting an epithermal gold mineralization similar in style and age as the Eocene, volcanic-hosted, Grew Creek deposit, which was also located on the margin of the Tintina Fault. The surveys identified high order chargeability and resistivity anomalies spatially related to the historical geochemical anomalies. Therefore, Radius designed a drilling program to test the coincident anomalies and the presumed epithermal-style mineralization.

The 1998 diamond drilling program consisted of seven drill holes totaling 375 meters to test the coincident geological-geochemical-geophysical anomalies identified in 1997. Interpretation of drill hole data has shown that (1) epithermal-style alteration and mineralization is restricted to the ultramafic rocks, (2) gold mineralization is very low grade (<200 ppb), and did not improve with depth, (3) the ultramafic rocks are bounded at depth by a subhorizontal thrust fault(s), (4) the thrust fault is underlain by schist containing abundant graphite, (5) the chargeability anomalies can be explained by the presence of graphite, (6) the resistivity anomalies can be explained by locally thick, frozen, non-conductive overburden, and (7) the gold-in-soil anomaly can be explained by low grade gold mineralization in the ultramafic rocks.

Although the ultramafic rocks are almost ubiquitously mineralized with stockworks of quartz and chalcedony veinlets enriched in gold, arsenic, and antimony, economic potential is restricted by the very low values and by the limited size potential due to the thin nature of the mineralized klippe sheets. No further work was recommended for the Brik Property.

1.5 Regional Geology

The Tintina Fault marks the terrane boundary between North America platform and basin sedimentary rocks on the northwest side and allochthonous and autochthonous amalgamated terranes to the southwest. The Yukon Tanana Terrane is poorly exposed across the Yukon Plateau and adjoining physiographic regions between Tintina and Shakwak, both dextral strike slip faults. Structural trends southwest of Tintina Fault are predominantly northwest-southeast trending, orogeny-parallel faults. Mid Cretaceous and younger structures include northwest vergent ductile deformation thrusting and extension.

The Klondike goldfields have produced some 13 Million raw ounces of placer gold since discovery in August 1896. Southwest of Dawson, orogenic deposits have been discovered in similar rocks and are now in advanced stage of exploration.

1.6 Local Geology and Mineralization

Portions of the area now comprising the Lil claims have been previously mapped at scales 1:50,000 (Debicki, 1984, 1985), 1:10,000 (Archer, 1980), 1:5,000 (Diment, 1989), and 1:2,500 (Keyser, 1998). The claims are situated on the southwestern margin of the Tintina Trench, southwest of the Klondike River valley. Substantial portions of the Lil and Kate claim areas are covered by alluvial sediments, and the bedrock exposure is rare except at higher altitudes.

Two Minfile occurrences named Germaine (116B 004) and Unexpected (116B 006) are situated on the property. Minfile 116B 157 Ben Levy is south of the Kate claims.

Abundant cassiterite found in placer gravels was associated with rhyolite porphyry, which also contains fluorite and topaz as common accessory minerals. Highly kaolinized porphyry assayed up to 100 ppm Sn compared with only 7 ppm in unaltered porphyry.

The Lil and Kate claims are floored by Nasina and Slide Mountain Assemblages and by acid and mafic volcanics of presumably Eocene age. The Nasina Assemblage is represented by quartz – muscovite - chlorite schists, locally carbonaceous and quartzite. The Slide Mountain Assemblage comprises ultramafic rocks forming blocks or slabs within the shistose environment. The rocks are represented by silicified and carbonatized serpentinite and listwanite, locally brecciated, altered to orange dolomite and ankerite with disseminated magnetite and rare fuchsite, chalcedonic quartz and fluorite. Most of this unit is affected by recessive weathering, and is rarely exposed. Both assemblages were involved in a series of thrusts that were stuck over each other during the subduction and/or obduction processes.

Felsic and mafic volcanic rocks on the Lil claims consist mainly of rhyolite porphyry, andesite, diabase, felsic lapilli tuff and volcanic breccia. Topaz, fluorite, zeolites and perlite were previously reported in the volcanics. Non-mineralized chalcedonic veinlets and schist fragments were identified in the tuffitic portions.

A landsat TM thermal imagery was applied to structural study of the Tintina Trench ("TT") in the area between Dawson and McQuesten (Mortensen and Von Gaza, 1992). This area has poor rock exposure and is characterized by the occurrence of epithermal-type alteration in Eocene volcanic and sedimentary rocks. The imagery identified several first, second and third order lineaments striking northwest – southeast and/or northeast – southwest within the Tintina Trench. The latter are described by the authors as late fractures and faults that postdate the major strike slip displacement. Importantly, one of the second order lineaments runs through the lower course of the Germaine Creek and coincides with the occurrences of Eocene volcanic rocks and altered ultramafic rocks (listwanites).

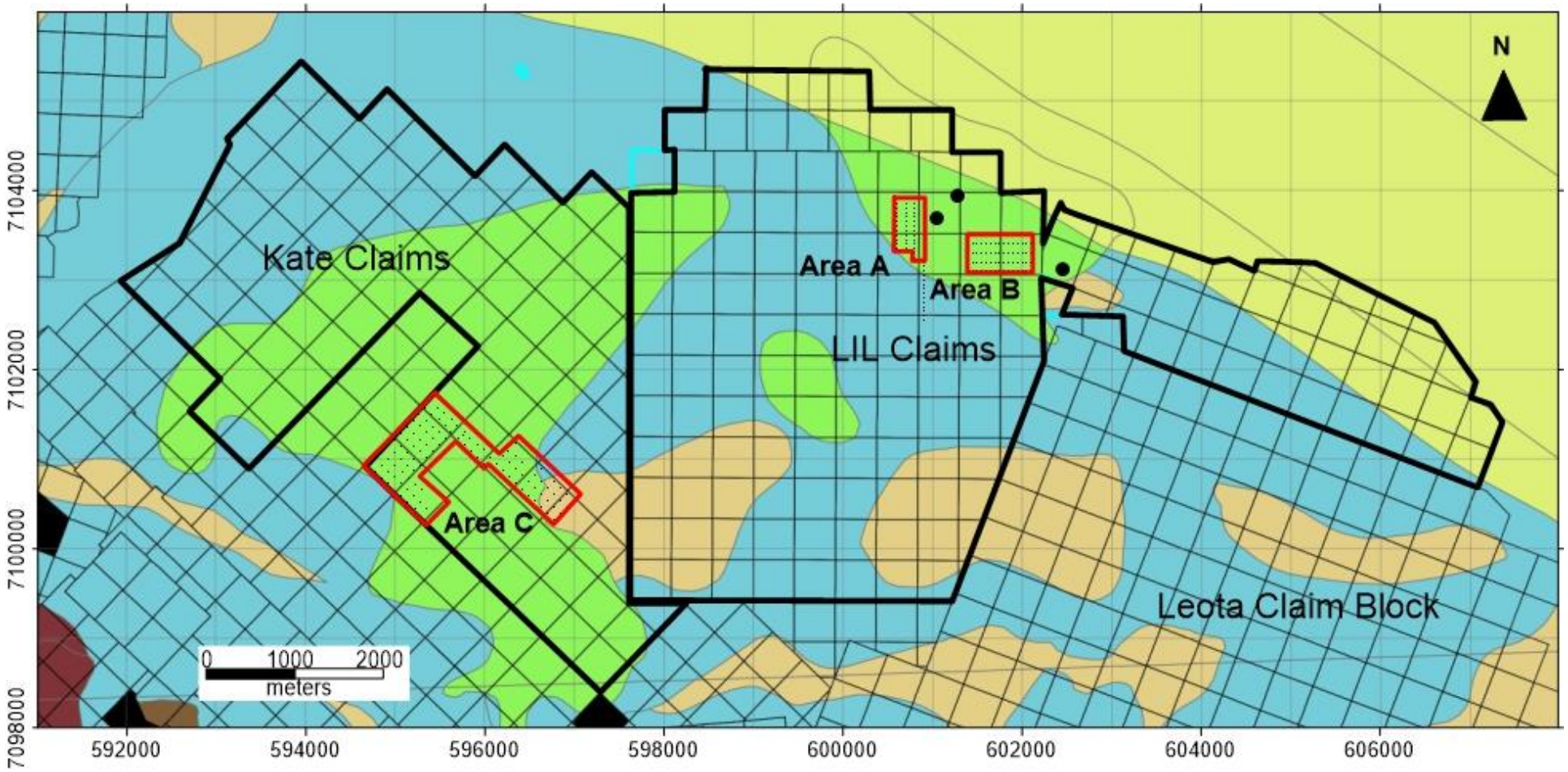


Fig. 2: Lil and Kate claims, geological map with soil grid locations (Areas A, B, C); green - acid to mafic volcanic rocks; blue – schists, quartzite (Nasina Assemblage); brown - ultramafic rocks (Slide Mt. Assemblage); black circles – rock samples.

Germaine Creek area has been targeted by miners, prospectors and companies mainly because of its placer gold, uranium and cassiterite mineralization. Placer operations recovered 200 - 300 ounces of gold. Several uranium anomalies associated with the quartz-feldspar porphyry stock were investigated, but the uranium content was too low to justify further work. Cassiterite and topaz were found in the alluvial sediments and were believed to be derived from the Eocene quartz porphyry stock.

Epithermal gold mineralization presumed to be associated with the porphyry stock was targeted in the late 1980s by Noranda (Diment, 1989). The soil survey detected anomalous gold up to 80 ppb but the anomaly was interpreted to reflect the nearby outcrops of listwanite-altered ultramafic body, not the porphyry stock. All listwanite samples returned anomalous nickel ranging from 755 to 1336 ppm, anomalous arsenic and weak sporadic anomalies in gold (as much as 80 ppb) and mercury. The nickel and gold was confined to the more intensely altered areas.

The samples from altered quartz-feldspar porphyry assayed insignificant gold, arsenic, mercury, antimony and barium values, which are usually associated with the upper levels of epithermal gold deposits. Silicification was confined to minor chalcedonic veinlets representing a weak and single hydrothermal event, and no repetitive hydrothermal pulses with cross-cutting stockwork breccias and silicified caps that usually occur at economic gold deposit were found.

Diamond drilling in 1998 intersected altered ultramafic rocks (listwenites), locally containing low-grade gold mineralization up to 200 ppb. Sereval boreholes went through the ultramafics into the underlying black schist, thus providing evidence that these rocks form slabs truncated at depth by a subhorizontal thrust fault.

The altered ultramafics and listwanites on the Lil claims appear to have similar composition as those in other parts of the Klondike Goldfields. Our previously collected samples of altered serpentinite and listwanite from Paradise Hill and Hester Creek assayed anomalous gold ranging from 27.1 to 276.6 ppb. The Hattie occurrence (Yukon Minfile 116B081) is underlain by altered quartz sericite schist with poorly exposed east-west striking fault zones. Reports of quartz veins containing malachite and free gold and to assay about 1 ounce per ton gold and 20% silver (Yukon Minfile # 116B081) have not been confirmed by independent sampling.

The majority of geologists working in the Klondike Goldfields accept the orogenic, gold mineralization model based on the occurrences of non-conformable gold-bearing quartz ± carbonate veins hosted by various schist units and filling in the D4 deformation and extension faults. Genetic model proposed by Chapman et al., (2010a,b) is based on at least three localized, but exceedingly rich hydrothermal systems which evolved both temporally and spatially to give the observed systematic variation in mineralogical signature.

An alternative genetic model involving California Mother Lode style gold-quartz vein mineralization associated with listwanite alteration of the ophiolitic rocks has been advocated by MacFaull (2005), Ash (2001) and others. MacFaull investigated listwanite altered ophiolitic rocks with quartz and quartz-carbonate stockworks, chalcedonic banding, fuchsite and diatreme breccia in the Dago Hill – Last Chance Creek - Paradise Hill - Nugget Hill area. These rocks directly overlie the White Channel Gravel ("WCG") pay streak, and MacFaull believed the listwanite zone includes high-grade gold quartz veins that sourced the WCG with gold. Ash (2001) is a long-term proponent of the gold-quartz veins in the Klondike Goldfields that occur in the hanging wall of the obducted ophiolite nappes and/or klippen.

Previous exploration also targeted an epithermal gold model associated with a late Cretaceous Aalki Creek stock, and/or with Tertiary felsic volcanic rocks. The possibility of intrusion related gold systems has also been suggested.

2.0 SOIL AND ROCK SAMPLING AND PROSPECTING

In 2016, Small Hydro Investments Ltd. conducted a soil and rock geochemistry program on the Lil and Kate claims in three areas designated as A, B and C and shown in Fig. 2 to test the precious and/or base metal potential. The fieldwork was carried out by two teams led by Professional Geoscientists.

The bedrock on the Lil and Kate claims is made up of quartz mica schist, quartz-muscovite-chlorite schist, locally carbonaceous ("graphitic") of the Nasina Assemblage, altered ultramafic rocks of the Slide Mountain Assemblage and volcanic rocks of presumably Eocene age. Large portions of the area are covered by alluvial gravel and permafrost occurs on north-facing slopes and/or in the valleys. No soil samples were taken from these areas.

Surfer 12 software was used to plot the precious, base and other metals onto distribution maps and 3D images, which are presented in Figs. 4 to 29 and 31 to 42. As shown, gold on Lil claims is relatively low in both sampled areas, ranging from below detection limit to a maximum of 39.1 ppb in area A and up to 18.6 ppb in area B. Silver (Figs. 5 and 9) values commonly exceed 100 ppb in both areas, with a maximum of 563 ppb in the former and up to 462 ppb in the latter area.

2.1 Lil Claims

In July 2016, Xyquest Mining Corp. contracted B. Molak, PhD., PGeo (BC) to conduct a soil and rock geochemistry program on the Lil Claims situated in the Germaine Creek area (Fig. 2). The fieldwork was carried out with two assistants R. Eyolfson and A. Molak

intermittently from August 30 to September 23, 2016 (total 9 days). Two soil sampling grids were laid in areas A and B, as shown in Fig. 3 and a total of 98 samples from "C" and/or "B" horizon collected. Additionally, twelve rock samples were collected from outcrops situated inside and outside the soil grids. The soil and rocks assays are attached in Appendix V.

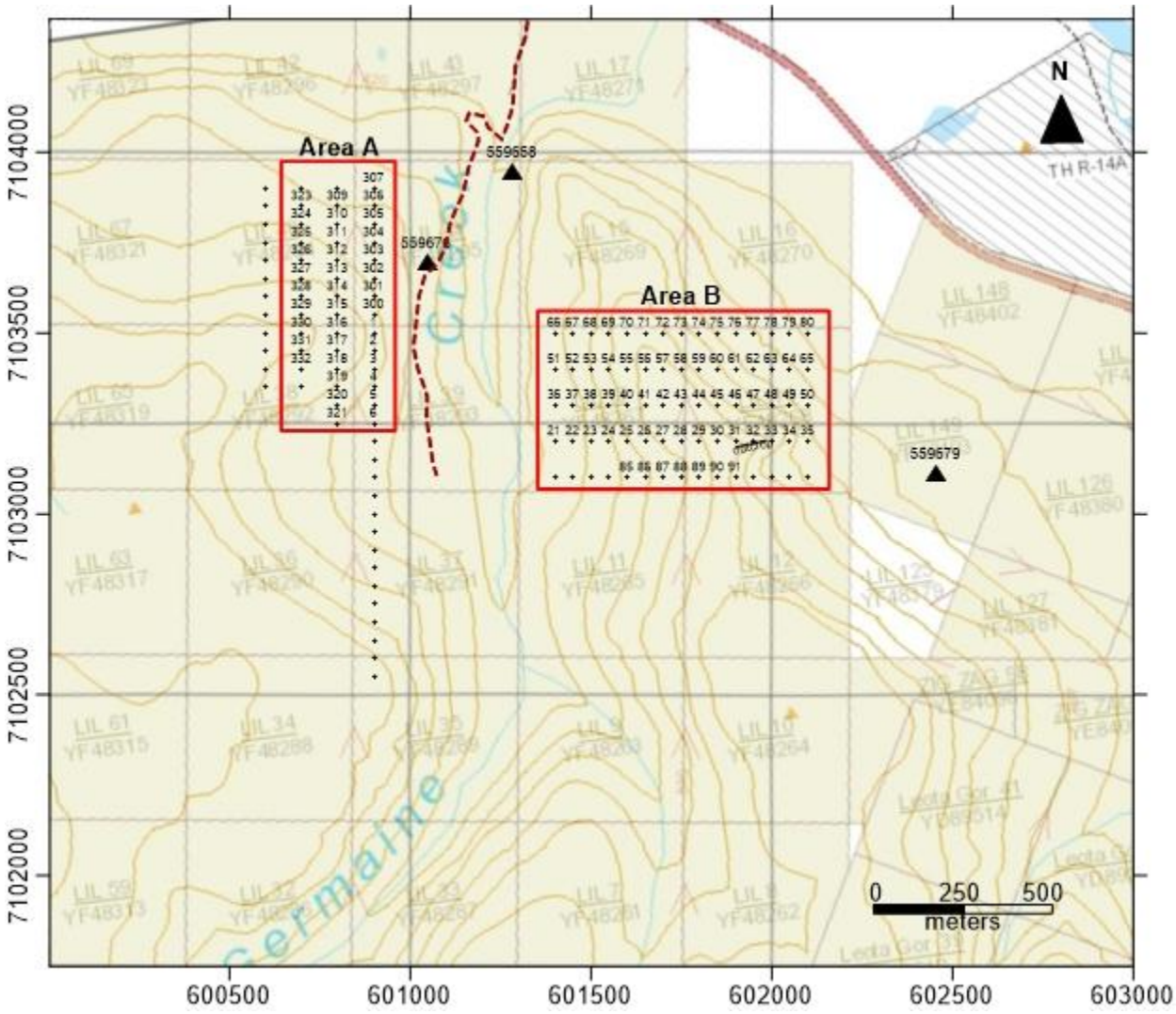


Fig. 3: Location of soil sampling grids on the Lil claims (areas A and B; sites without number – no samples taken).

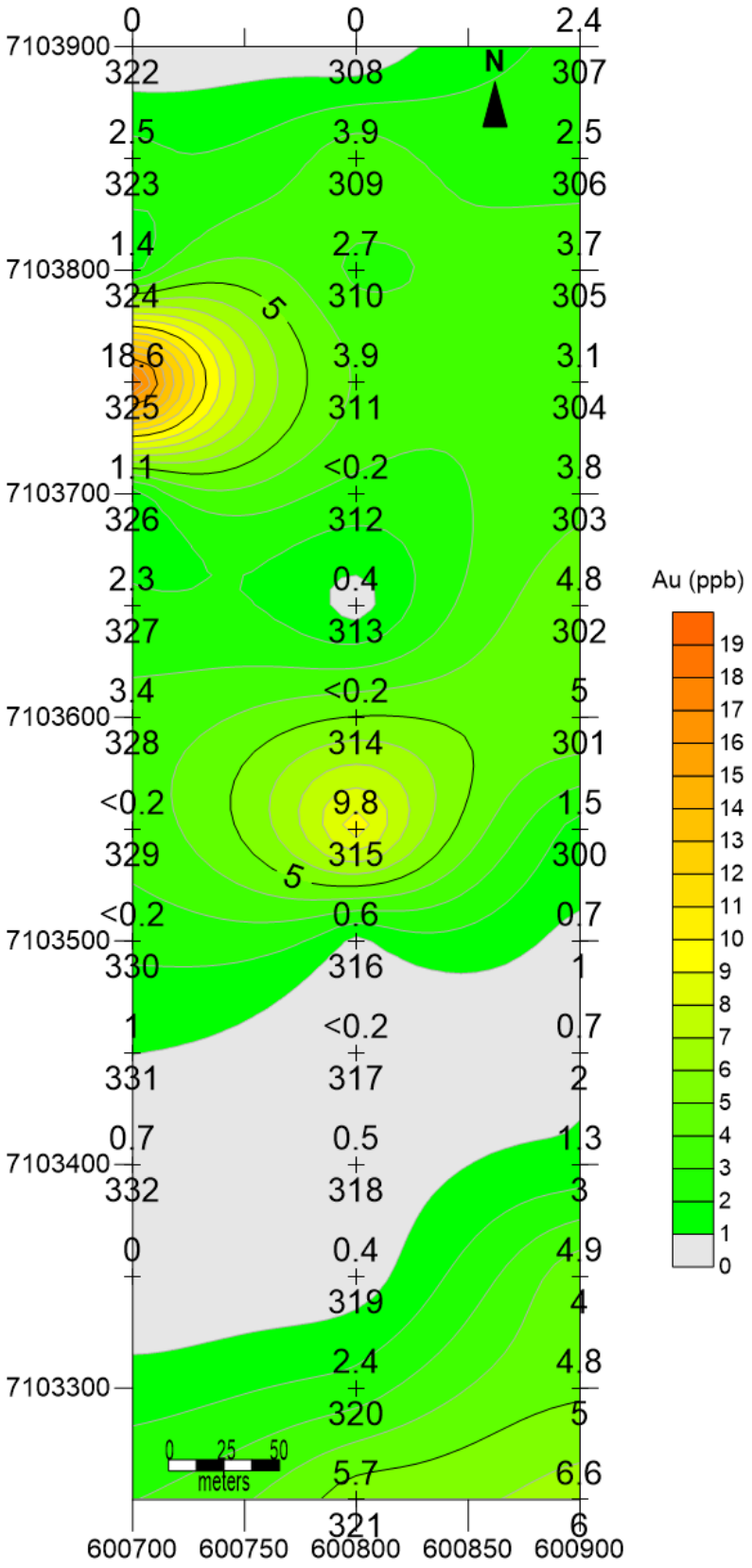


Fig. 4: Gold distribution in soil, area A (sample numbers below, gold values above).

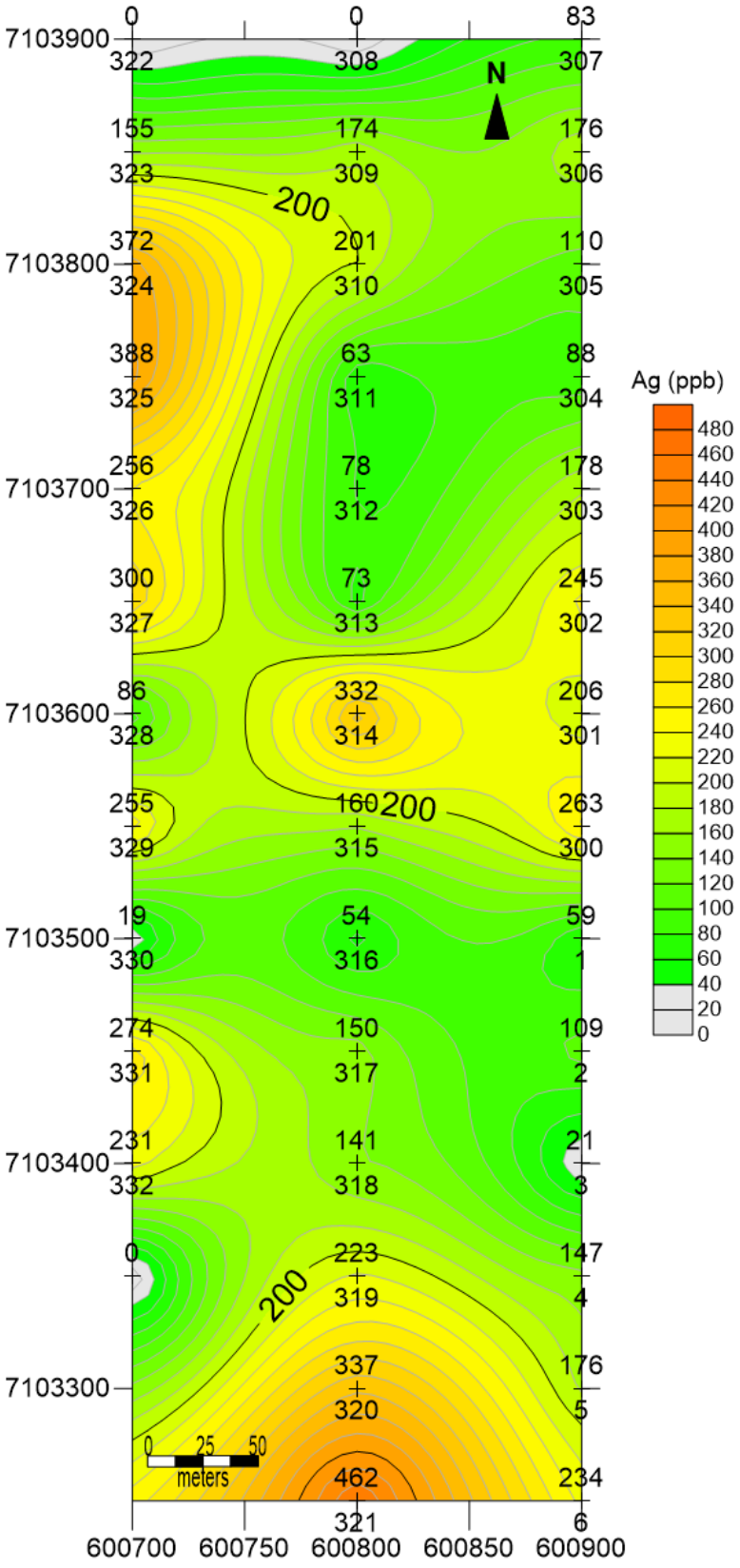


Fig. 5: Silver distribution in soil, area A (sample numbers below, assay values above).

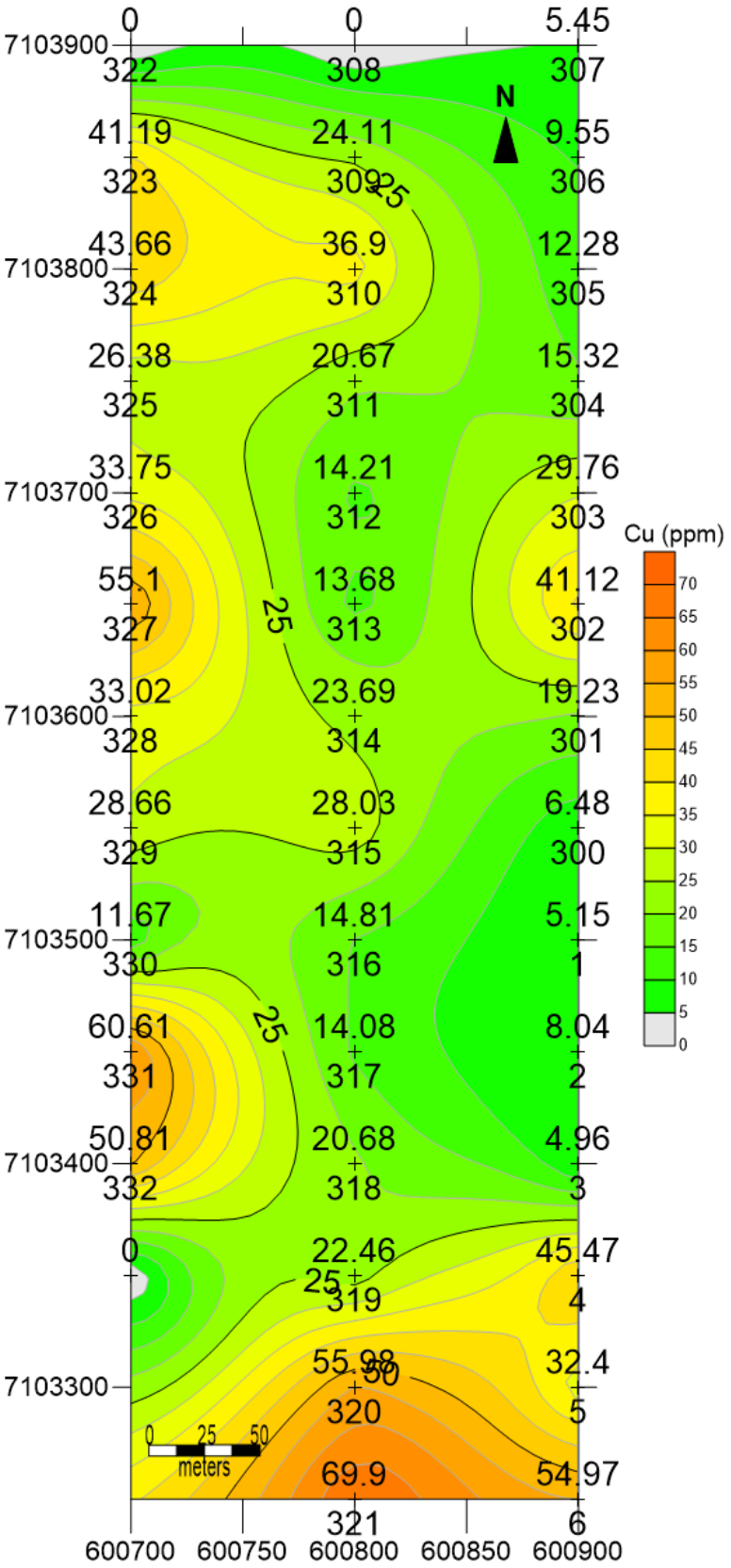


Fig. 6: Copper distribution in soil, area A (sample numbers below, assay values above).

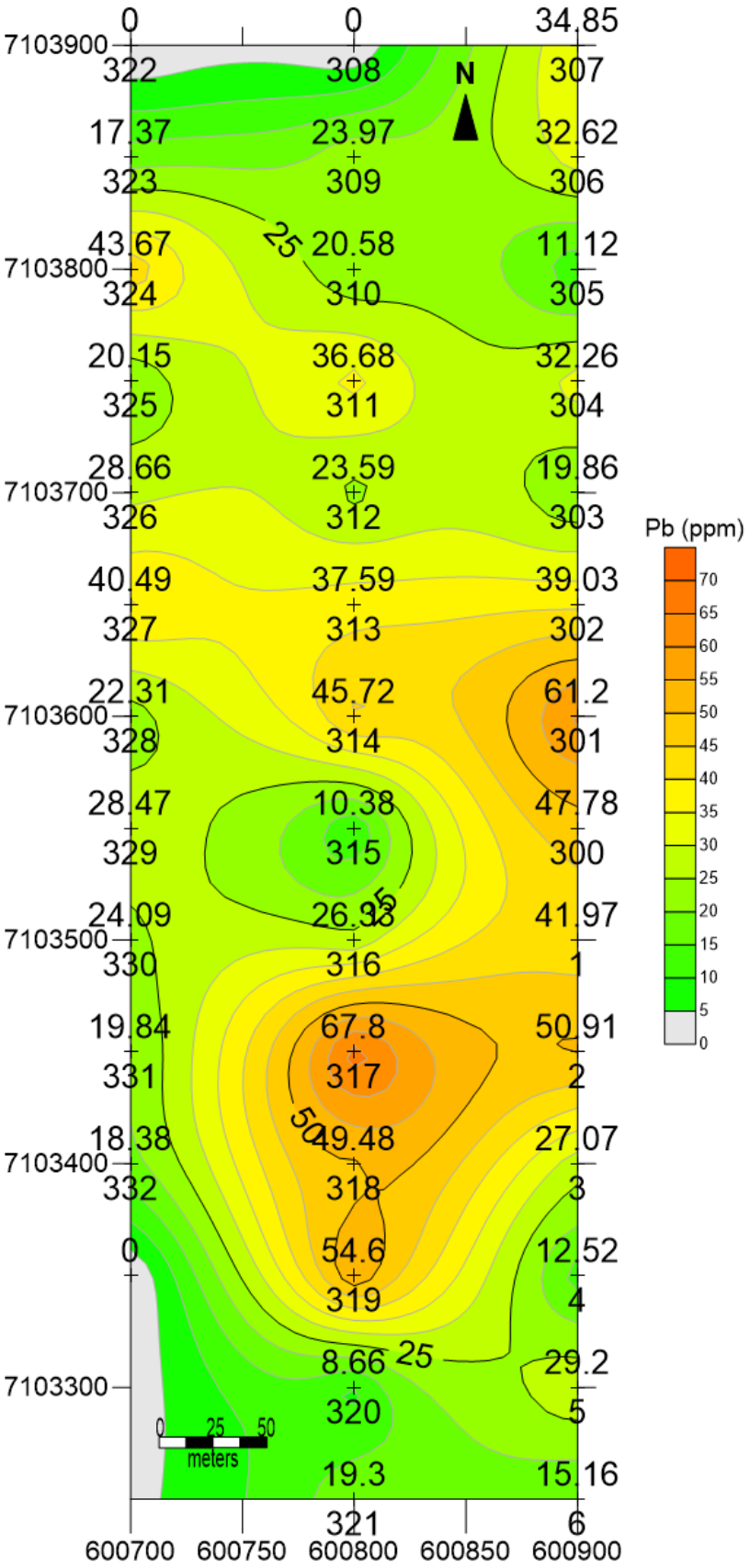


Fig. 7: Lead distribution in soil, area A (sample numbers below, assay values above).

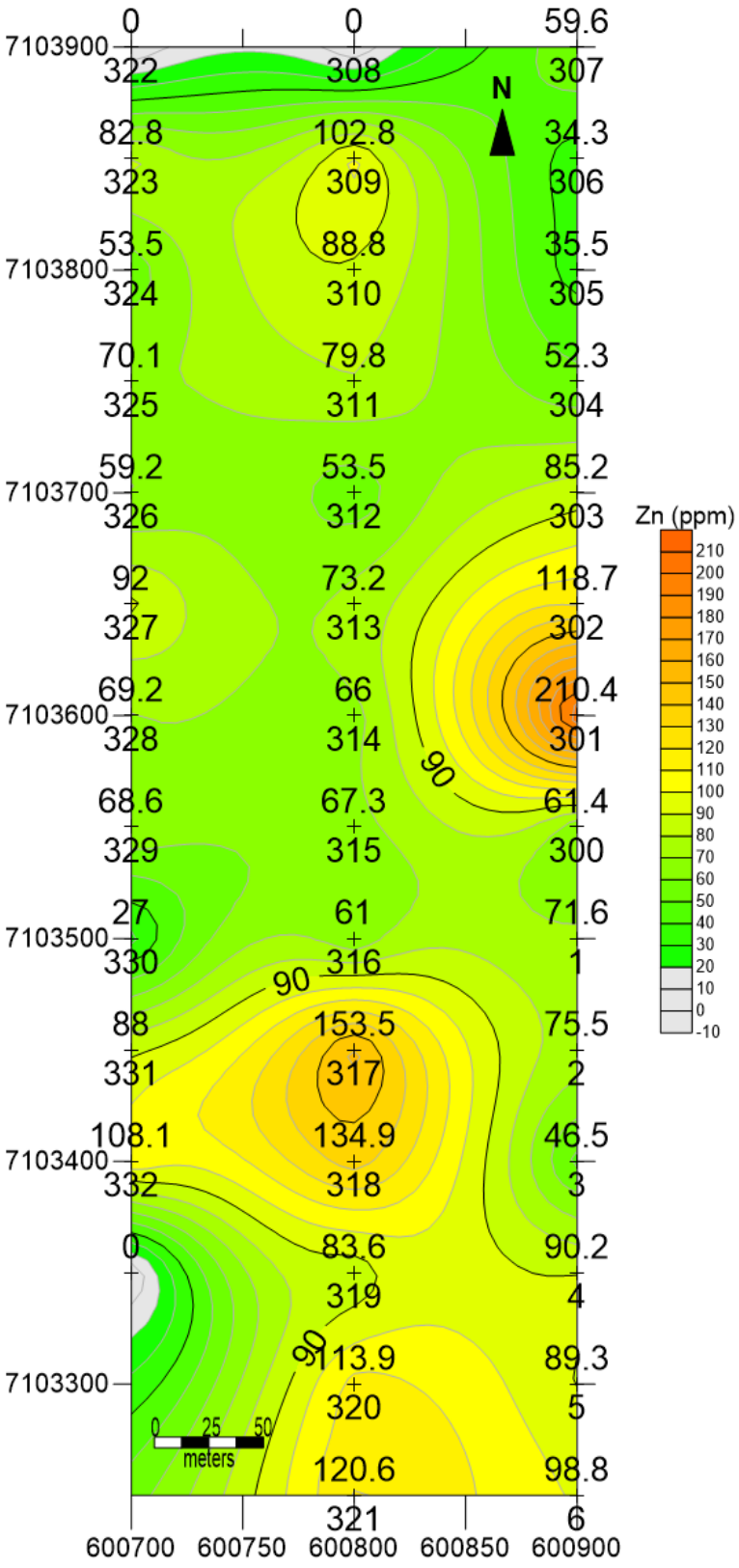


Fig. 8: Zinc distribution in soil, area A (sample numbers below, assay values above).

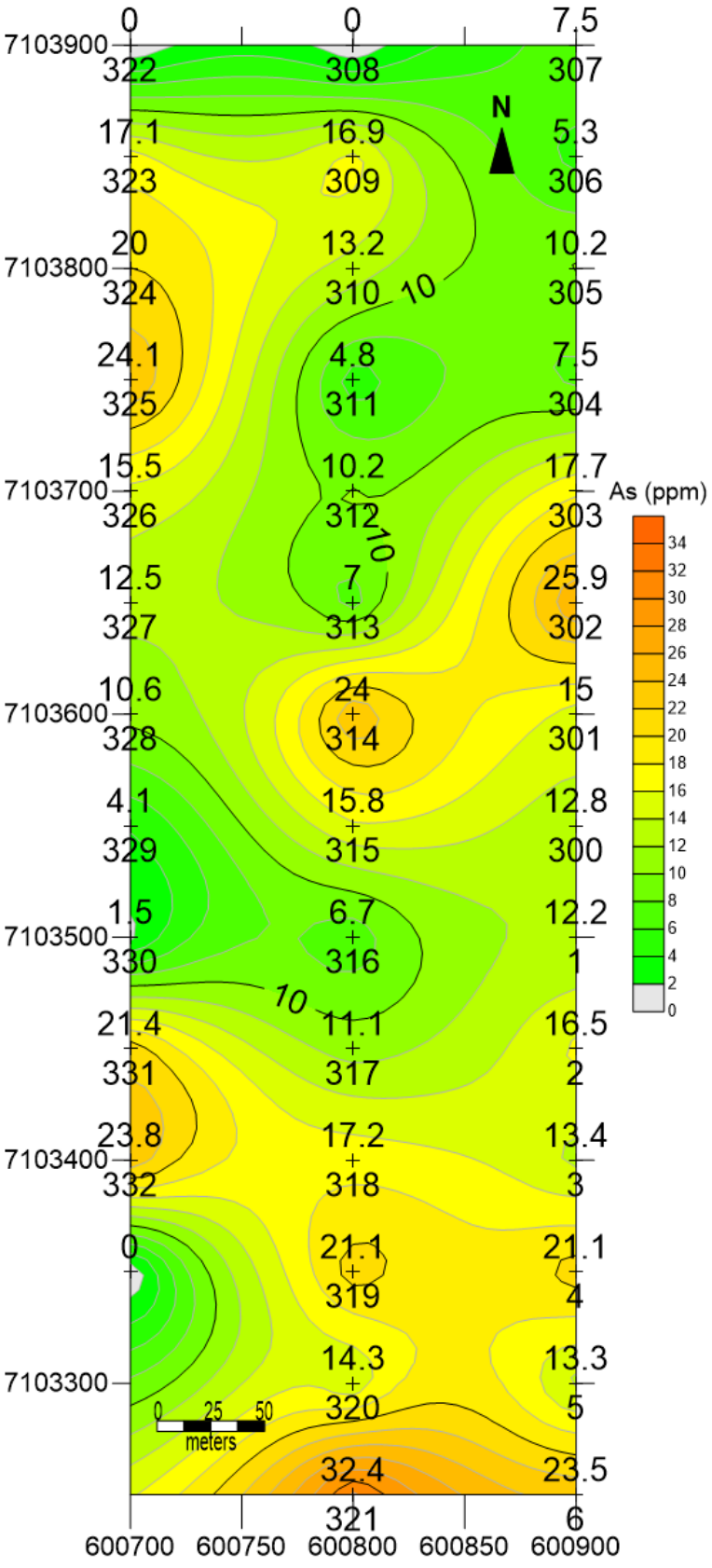


Fig. 9: Arsenic distribution in soil, area A (sample numbers below, assay values above).

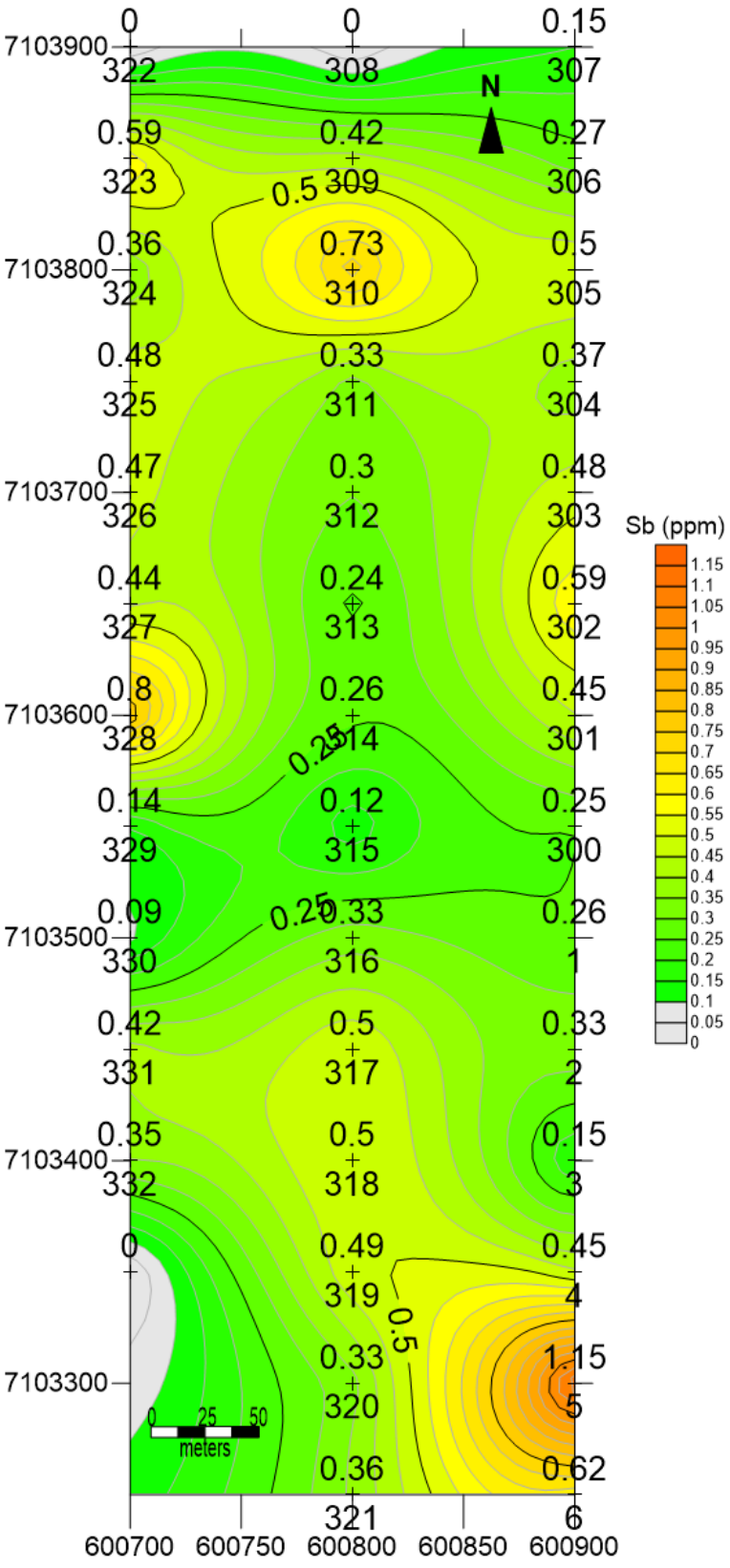


Fig. 10: Antimony distribution in soil, area A (sample numbers below, assay values above).

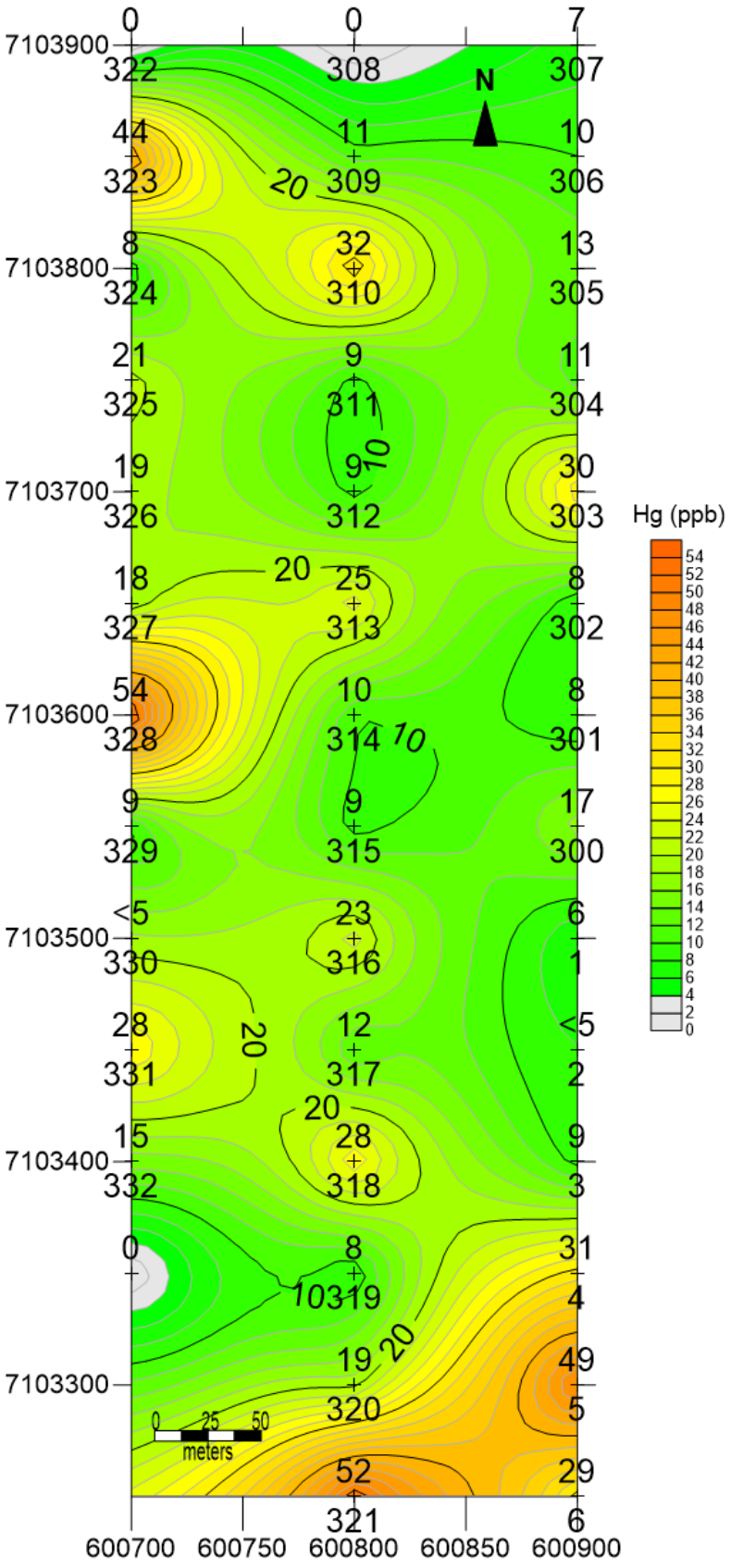


Fig. 11: Mercury distribution in soil, area A (sample numbers below, assay values above).

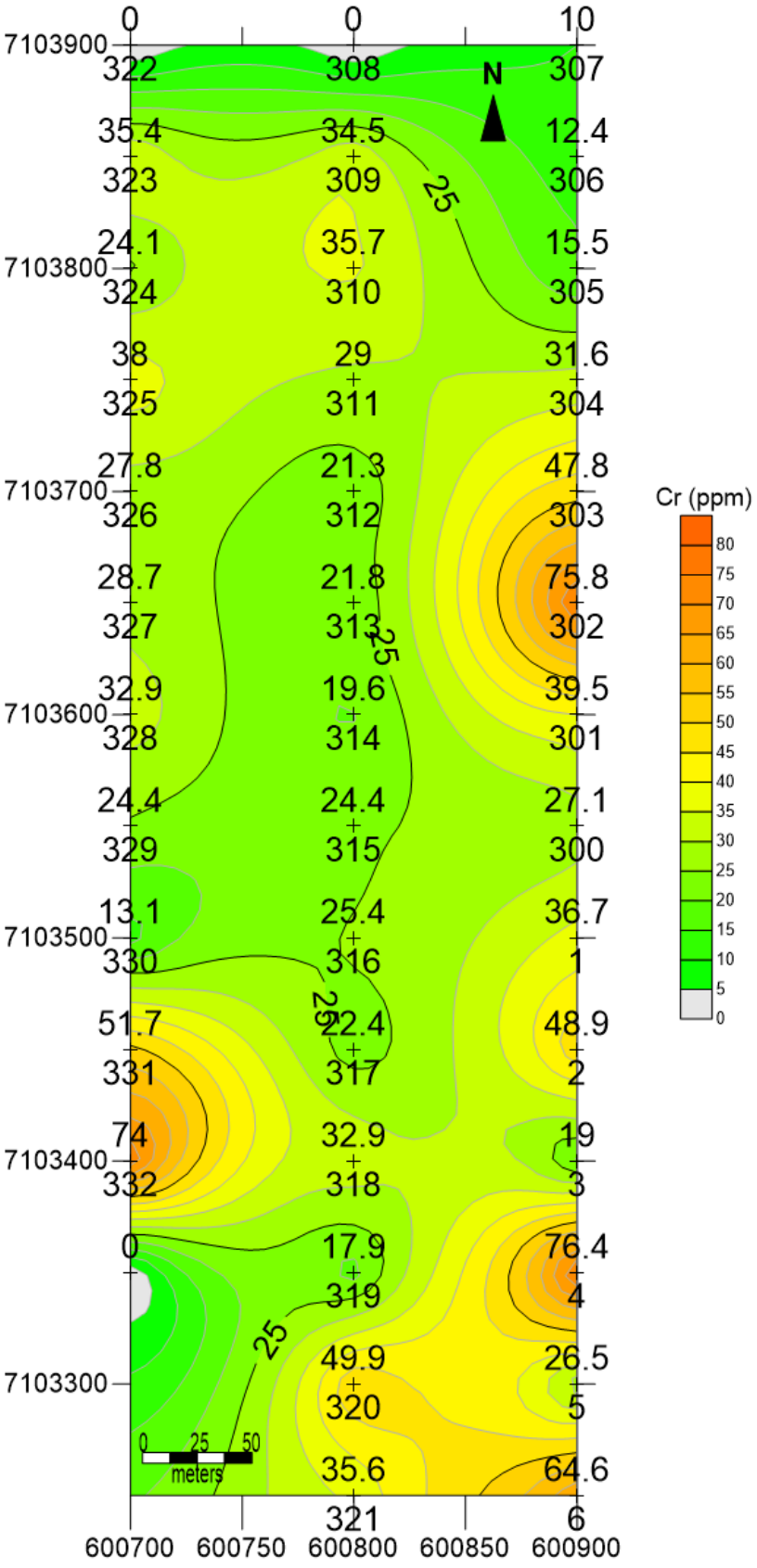


Fig. 12: Chromium distribution in soil, area A (sample numbers below, assay values above).

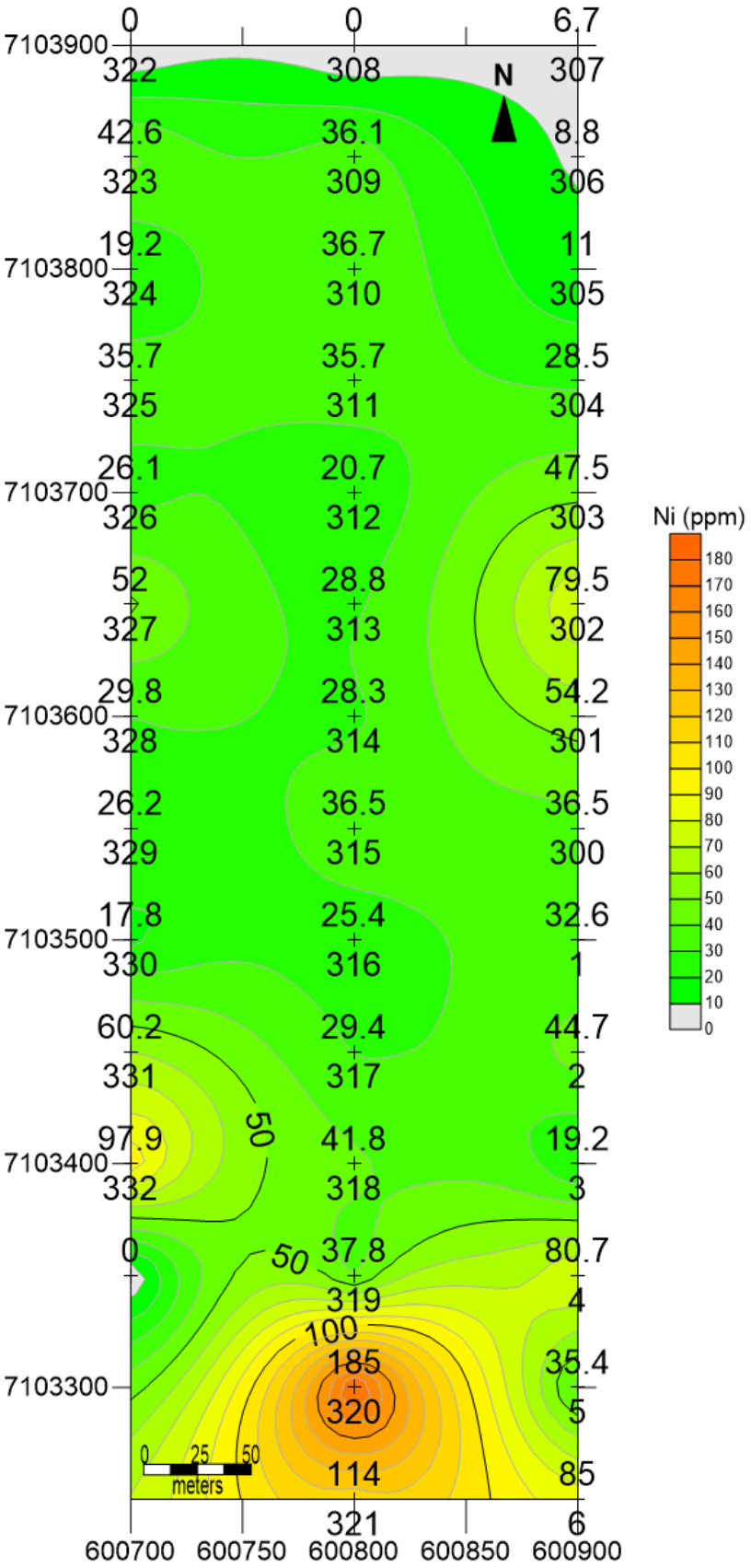


Fig. 13: Nickel distribution in soil, area A (sample numbers below, assay values above ow).

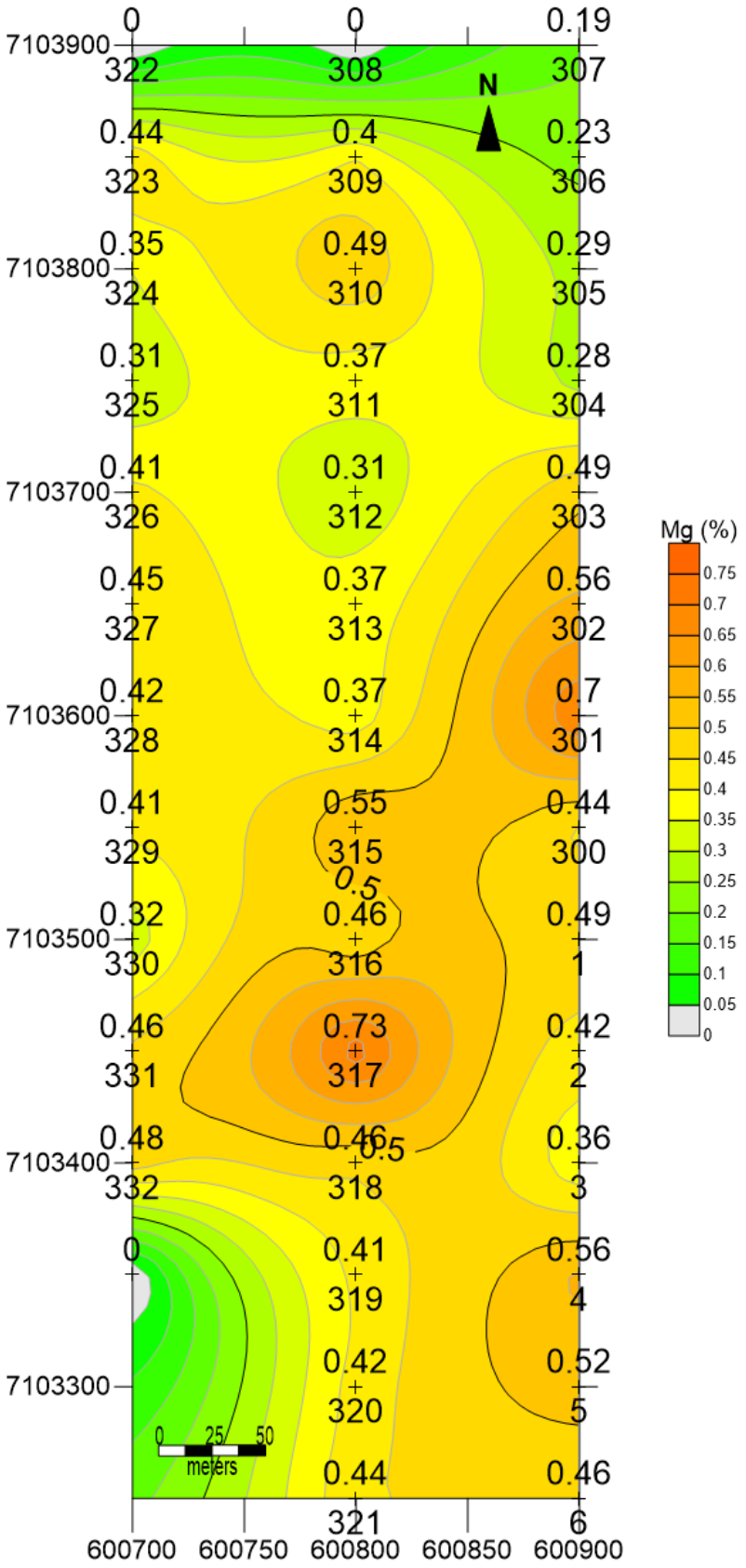


Fig. 14: Magnesium distribution in soil, area A (sample numbers below, assay values above).

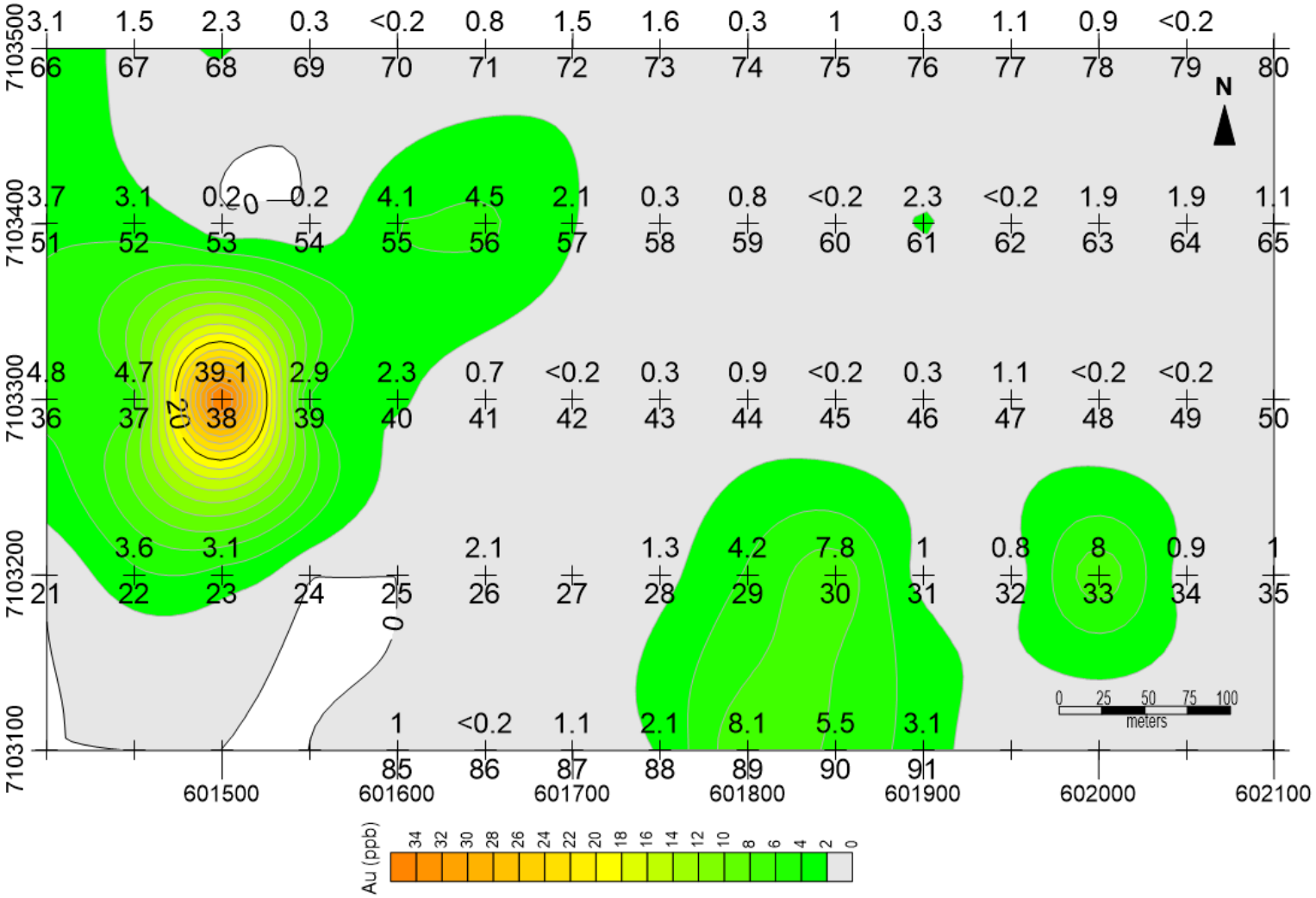


Fig. 15: Gold distribution in soil, area B (sample numbers below, assay values above).

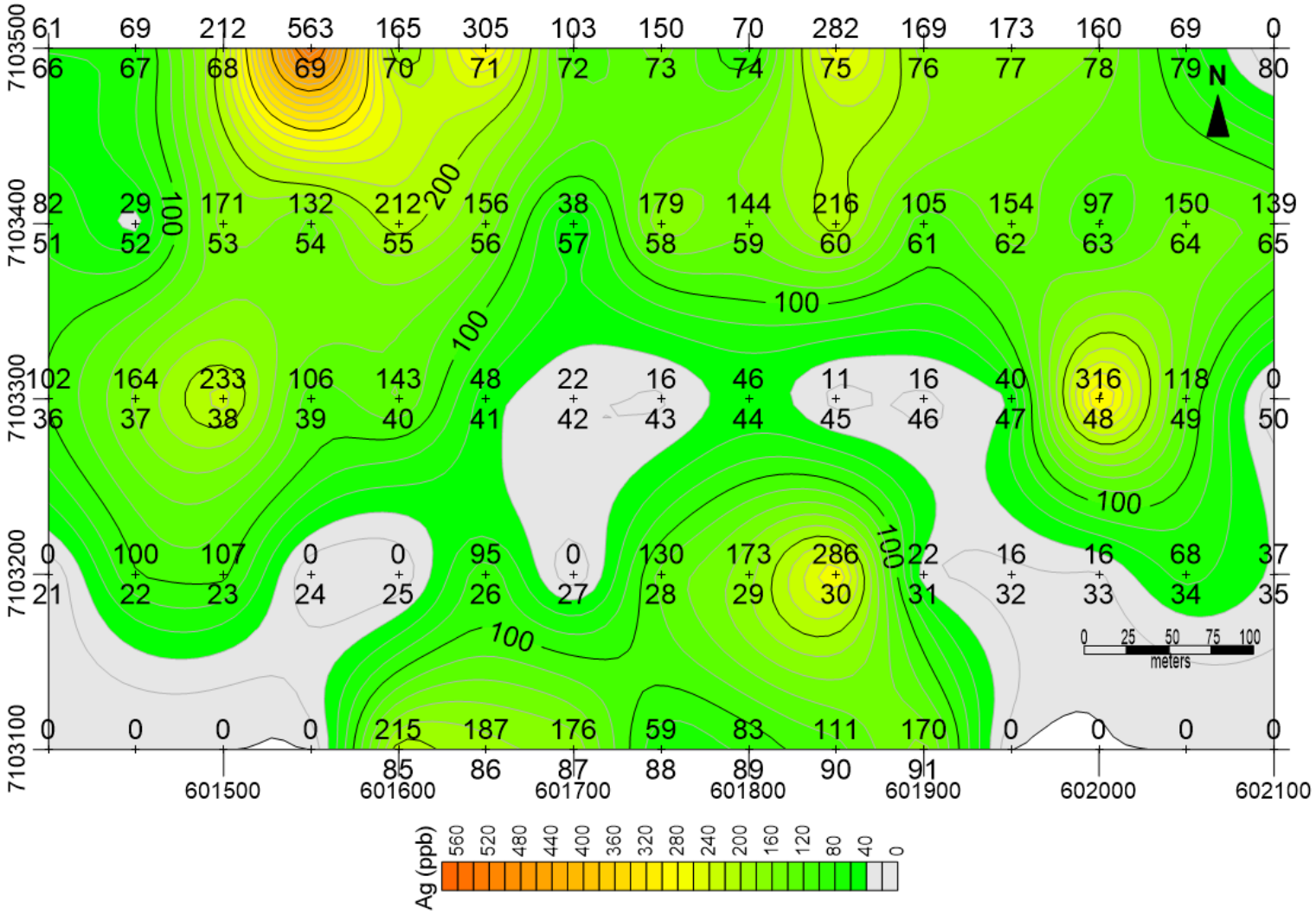


Fig. 16: Silver distribution in soil, area B (sample numbers below, assay values above).

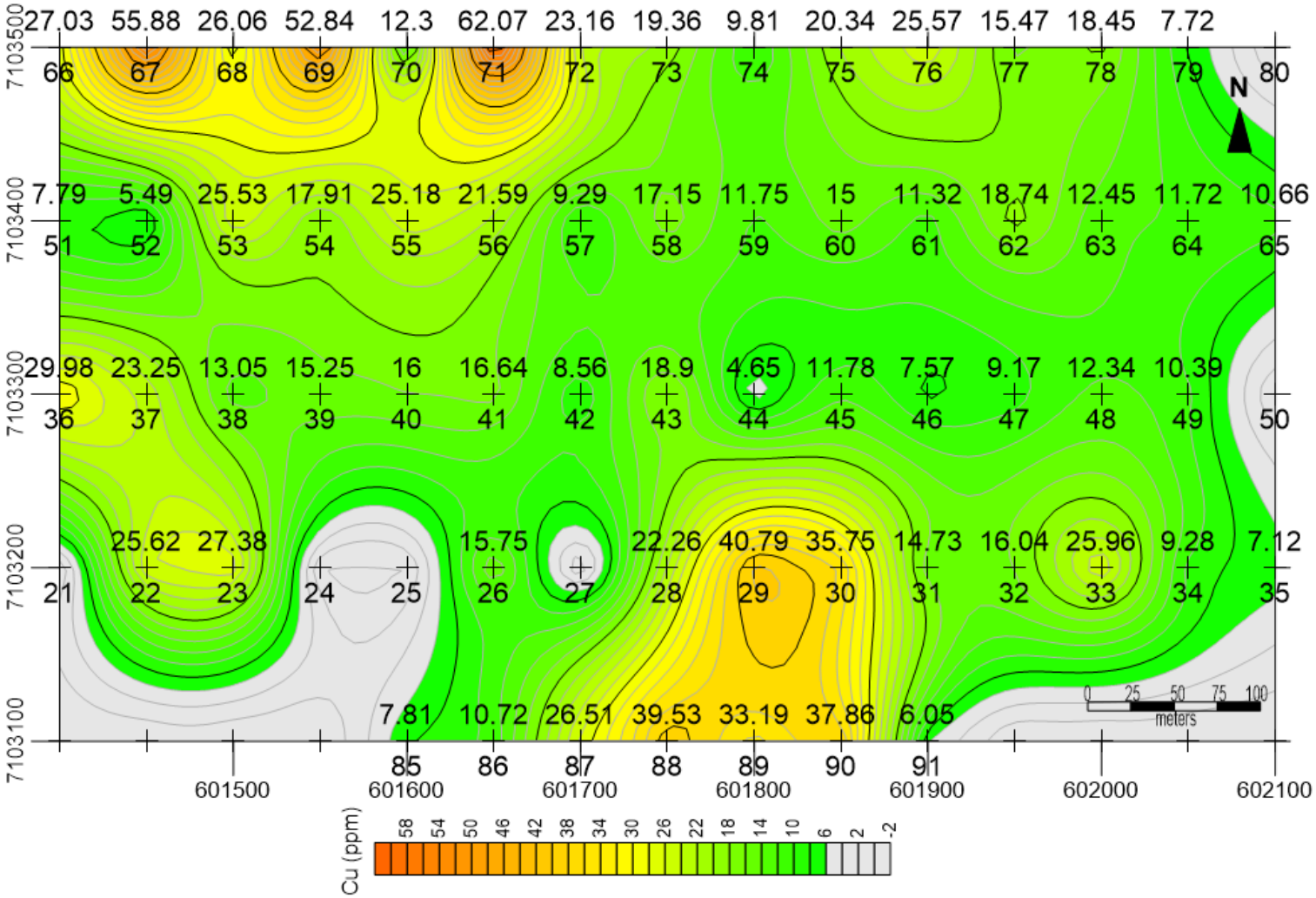


Fig. 17: Copper distribution in soil, area B (sample numbers below, assay values above).

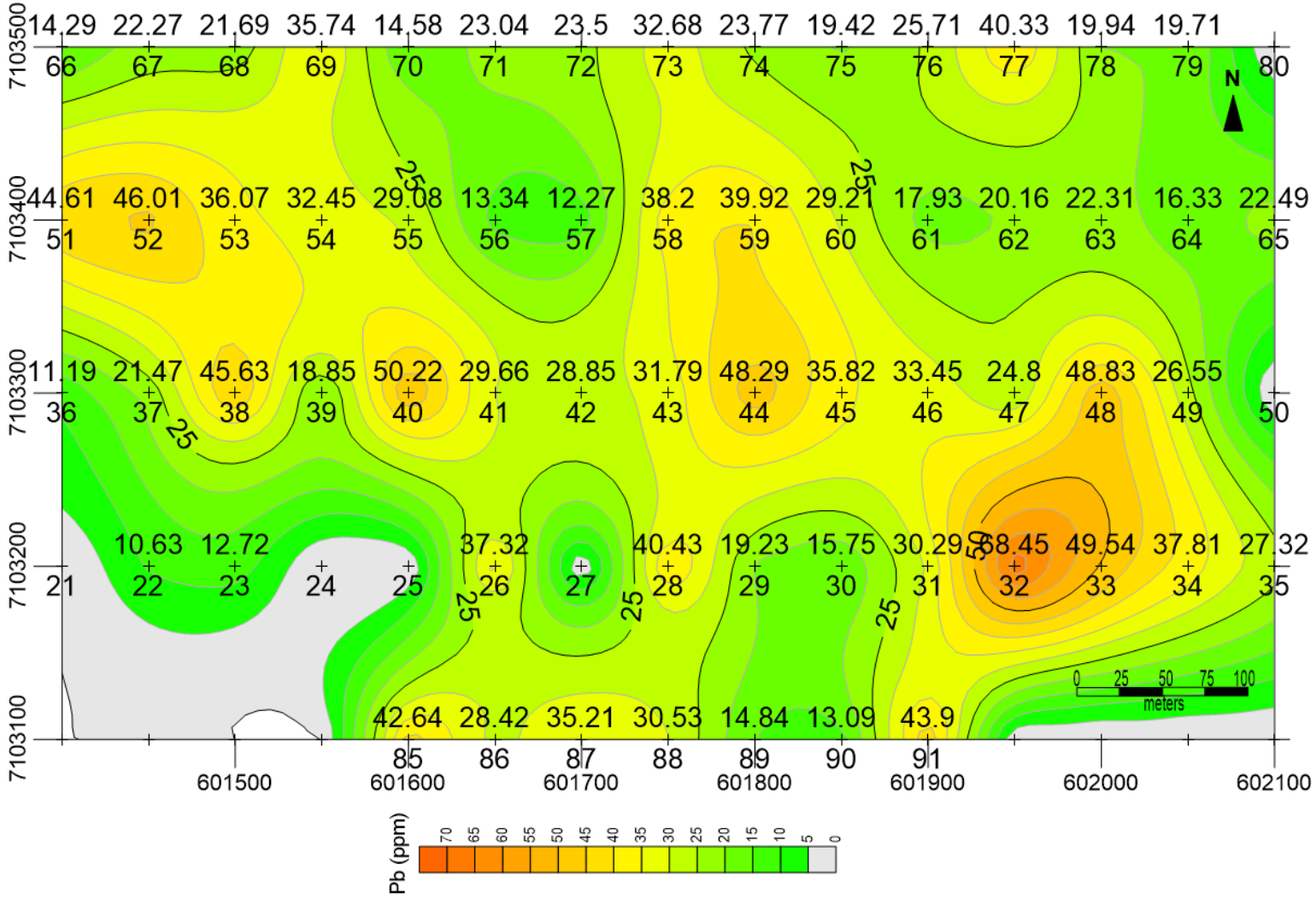


Fig. 18: Lead distribution in soil, area B (sample numbers below, assay values above).

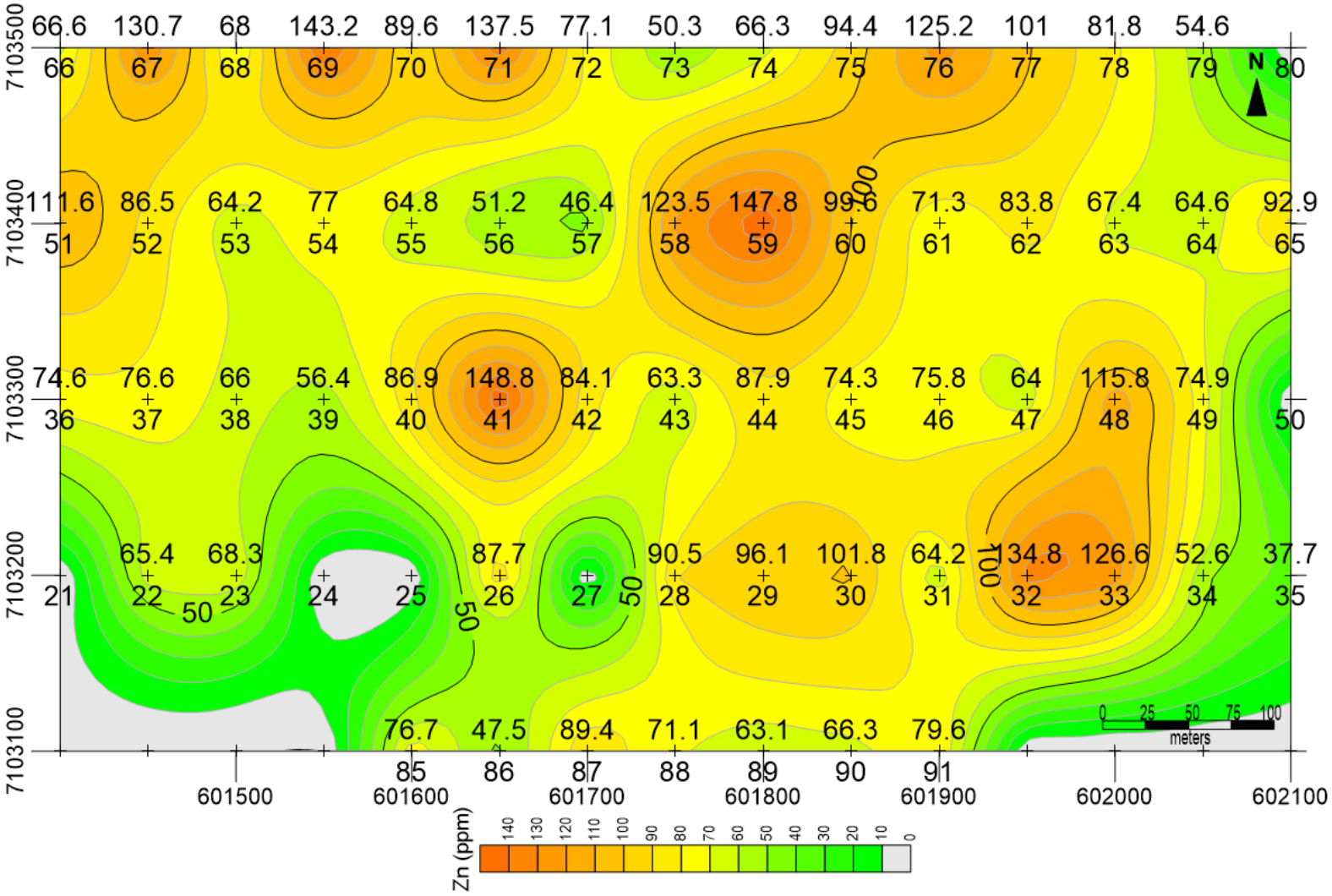


Fig. 19: Zinc distribution in soil, area B (sample numbers below, assay values above).

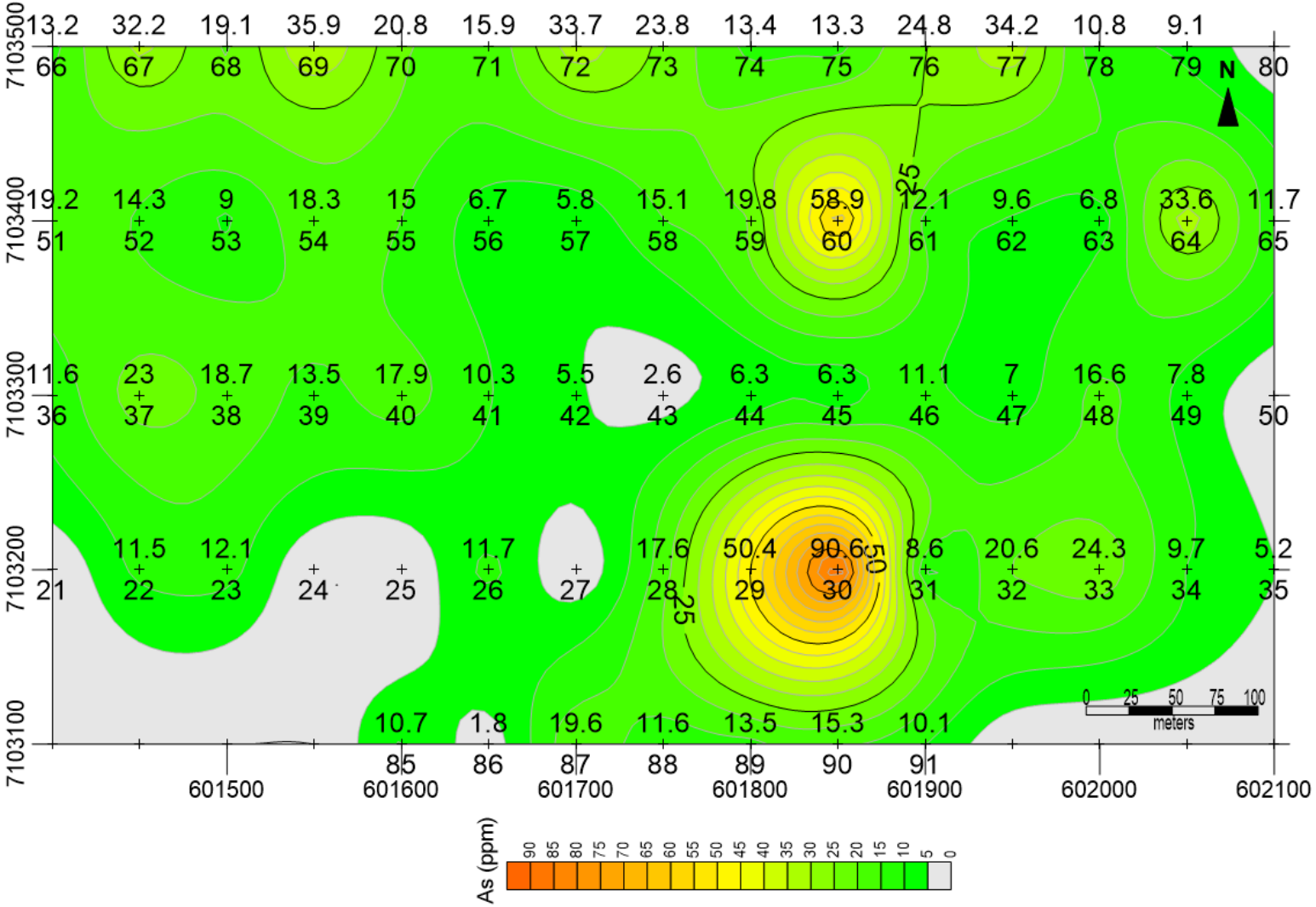


Fig. 20: Arsenic distribution in soil, area B (sample numbers below, assay values above).

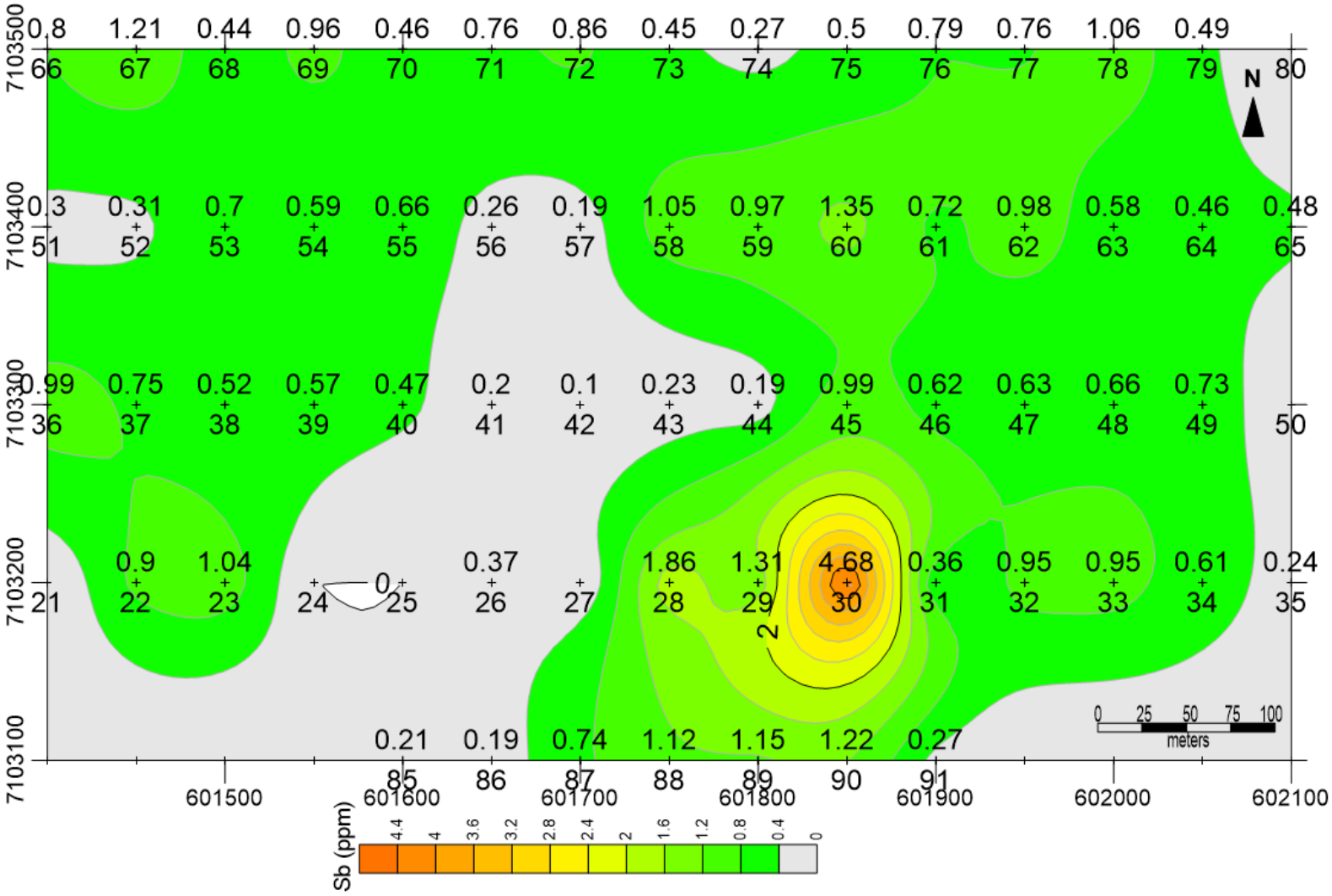


Fig. 21: Antimony distribution in soil, area B (sample numbers below, assay values above).

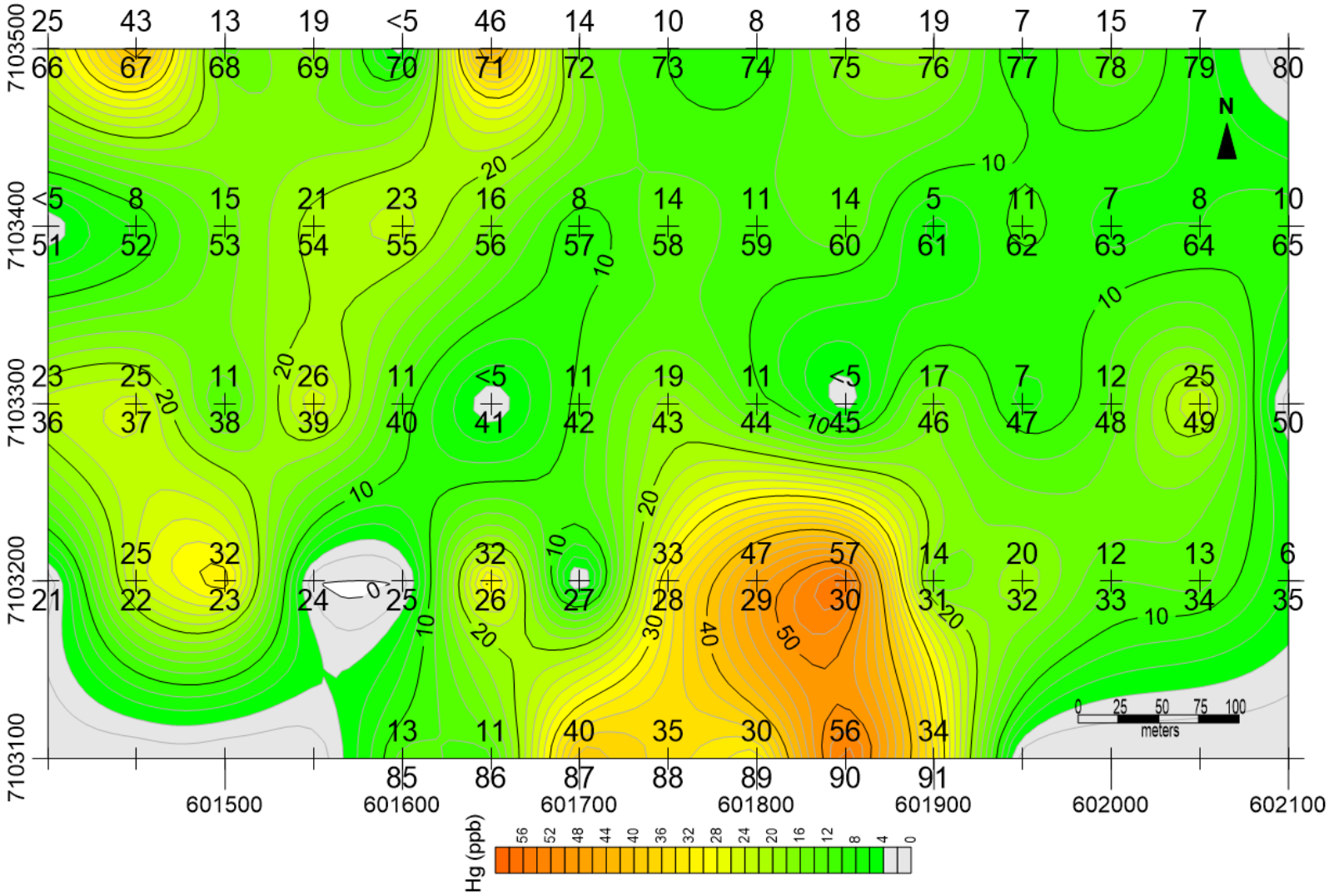


Fig. 22: Mercury distribution in soil, area B (sample numbers below, assay values above).

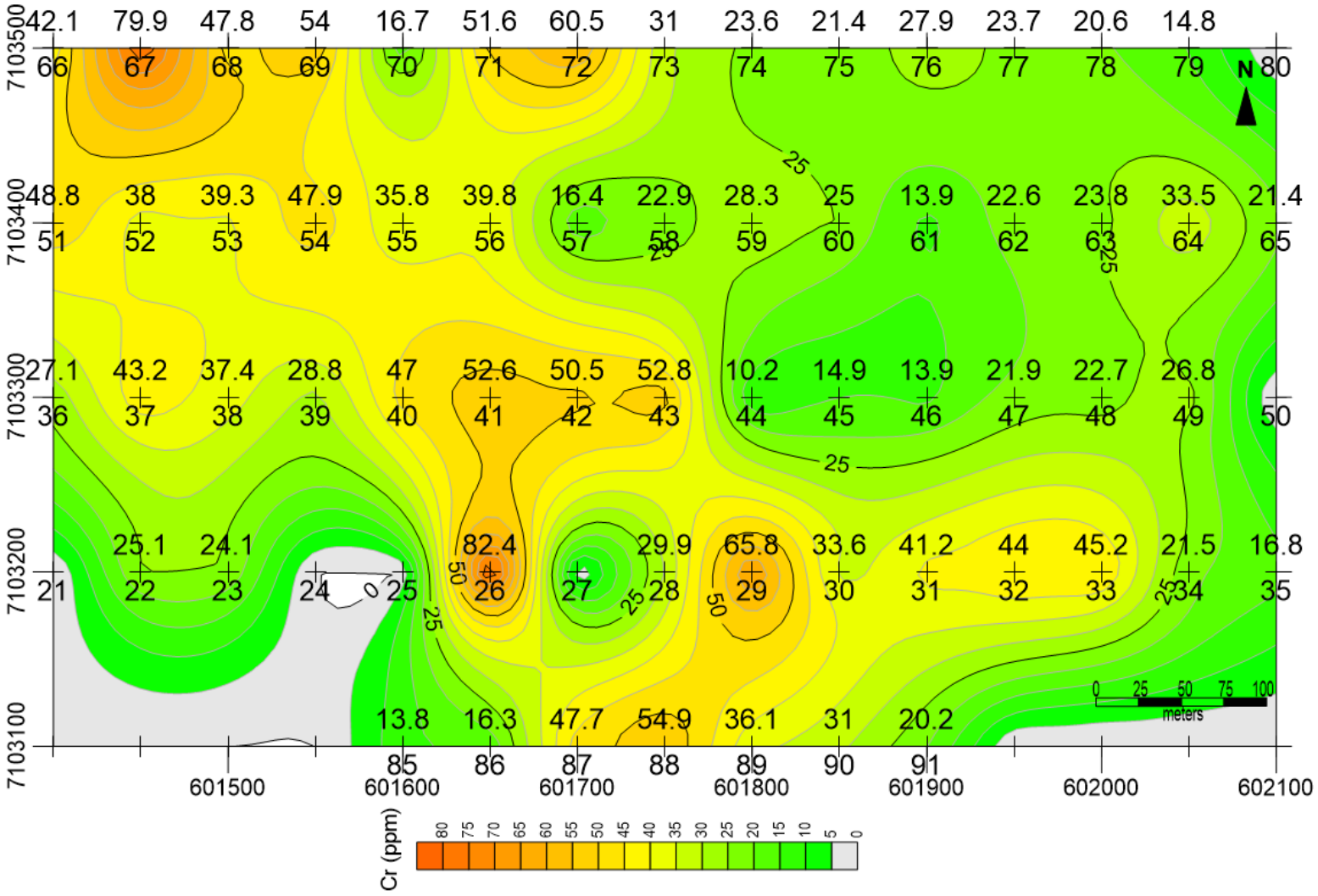


Fig. 23: Chromium distribution in soil, area B (sample numbers below, assay values above).

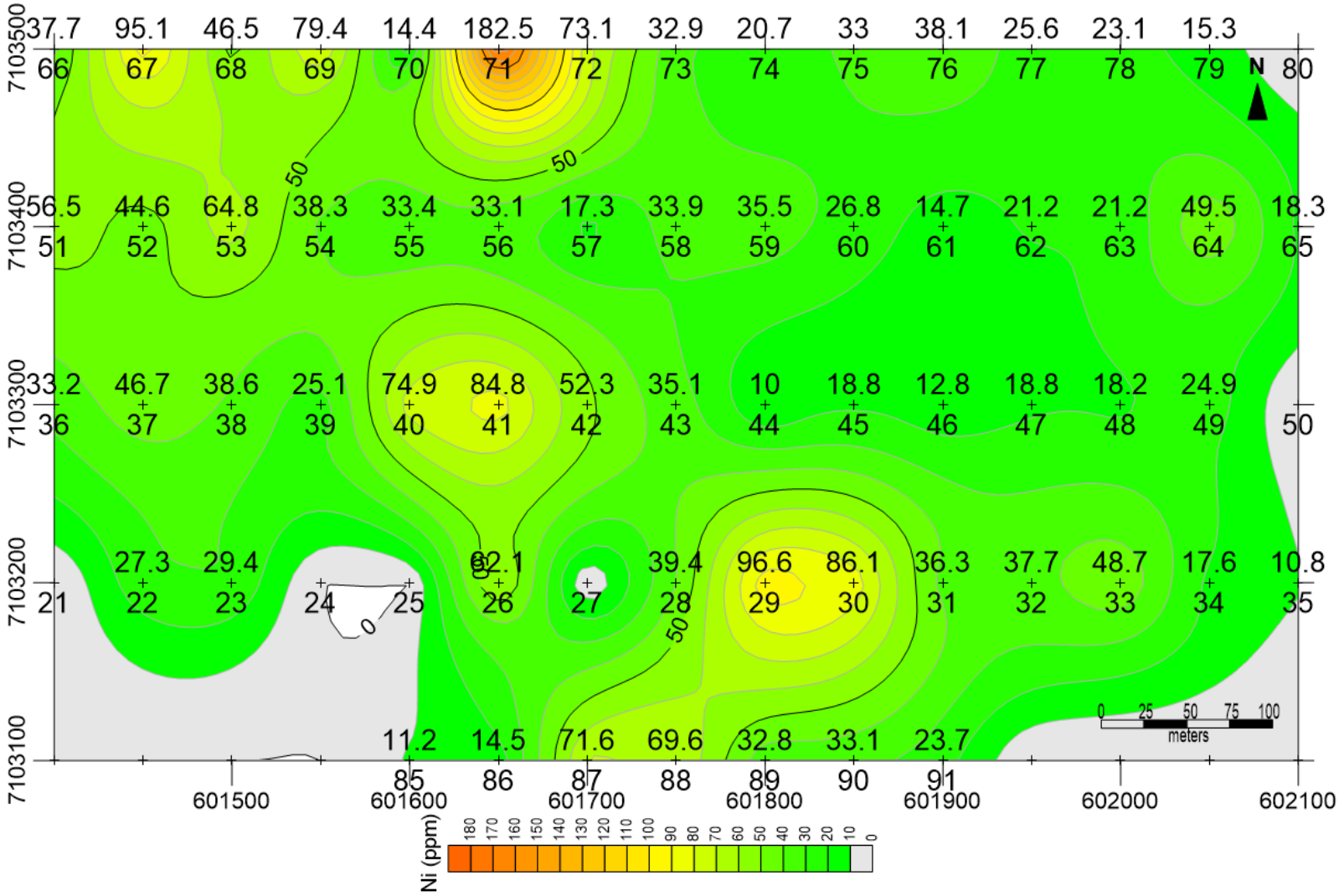


Fig. 24: Nickel distribution in soil, area B (sample numbers below, assay values above).

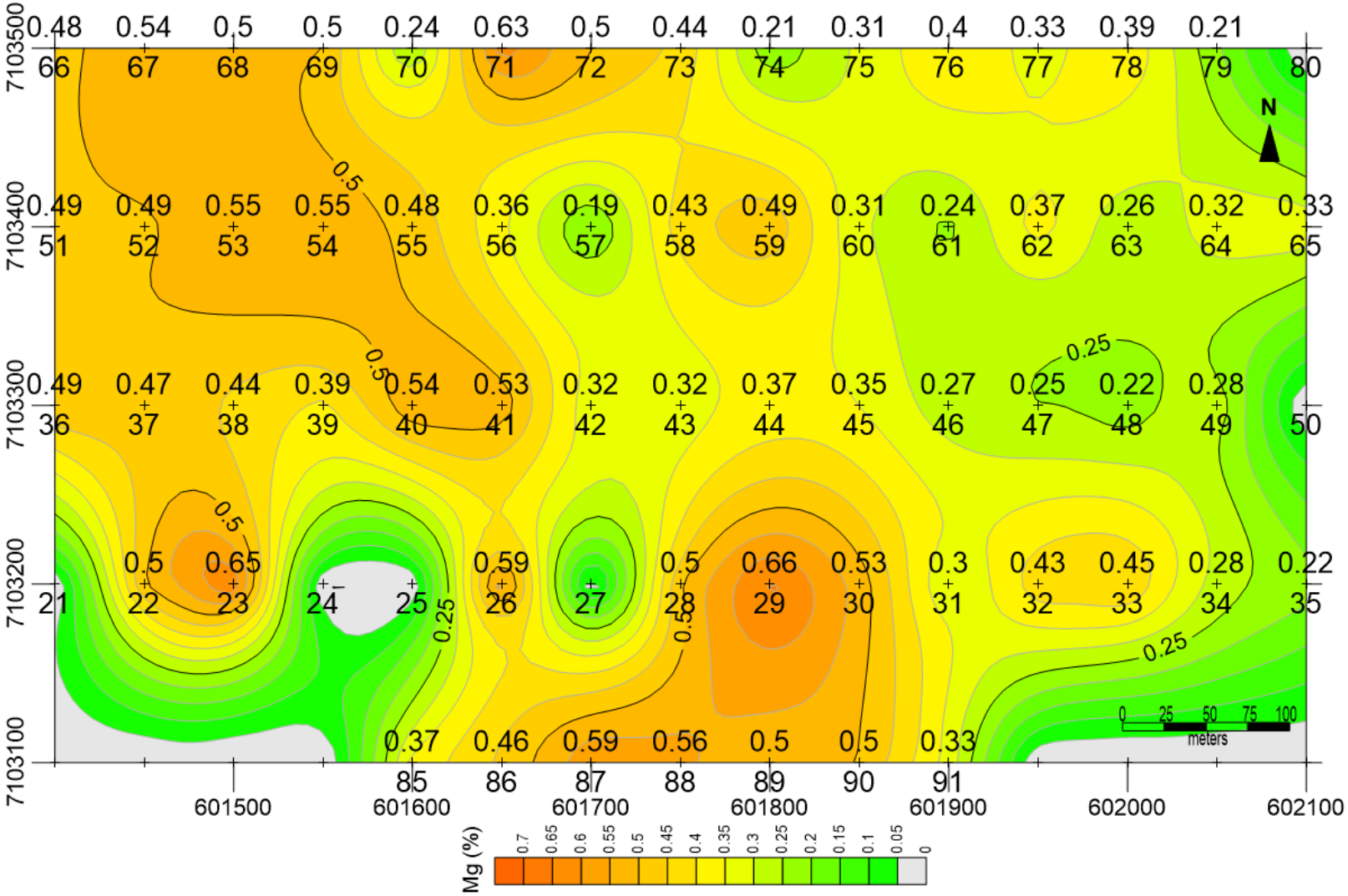


Fig. 25: Magnesium distribution in soil, area B (sample numbers below, assay values above).

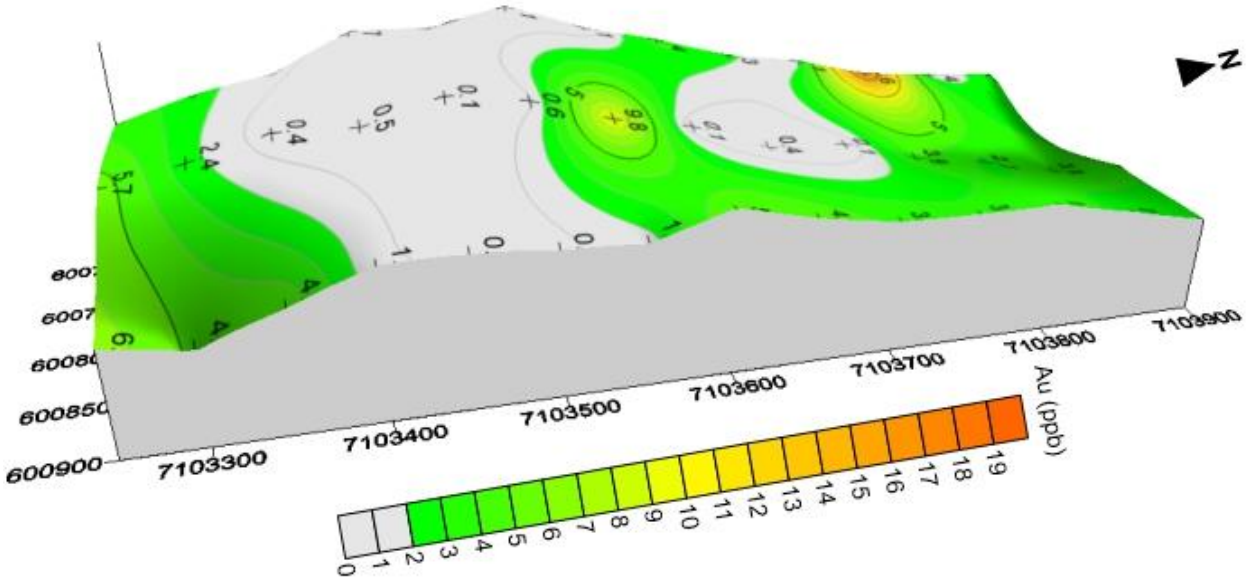


Fig. 26: 3D with gold distribution in soil, area A.

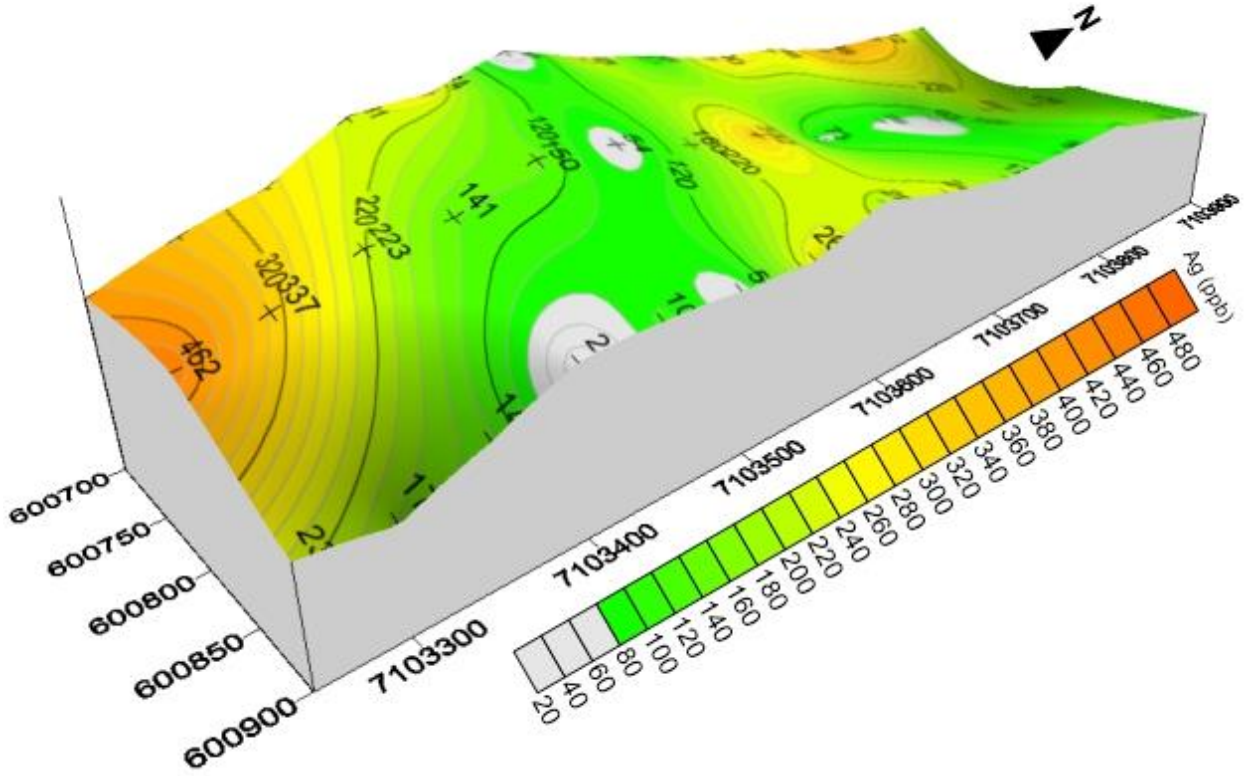


Fig. 27: 3D with silver distribution in soil, area A.

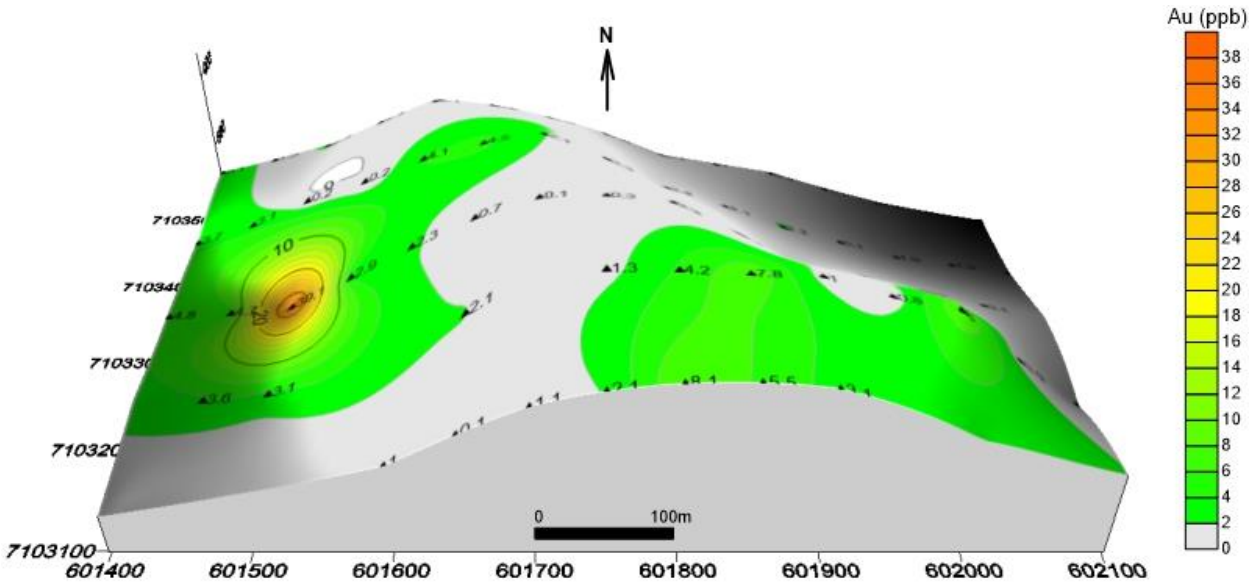


Fig. 28: 3D with gold distribution in soil, area B.

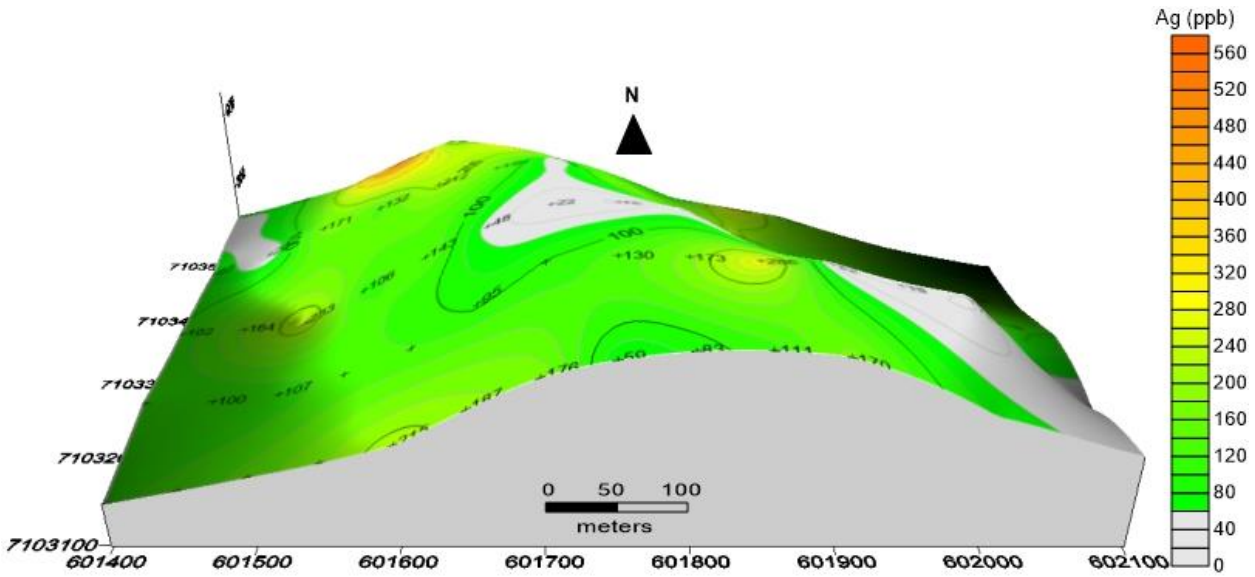


Fig. 29: 3D with silver distribution in “C” soil horizon, area B.

Table 1: Descriptive statistics for soil samples, Lil claims, areas A and B.

	Au	*Ag*	*Cu*	*Pb*	*Zn*	*As*	*Sb*	*Hg*	*Ni*	*Cr*	*Mg*
Count	98	98	98	98	98	98	98	98	98	98	98
Mean	2.665	151.694	22.773	29.737	83.208	16.392	0.615	18.633	41.869	33.926	0.419
St. Error	0.462	10.380	1.513	1.328	3.037	1.219	0.054	1.341	3.107	1.664	0.012
Median	1.450	145.500	18.820	28.445	76.650	13.450	0.490	14.000	34.500	29.450	0.430
St. Deviation	4.570	102.753	14.981	13.149	30.061	12.066	0.533	13.278	30.759	16.471	0.118
Kurtosis	42.989	2.175	0.785	0.136	2.542	15.457	34.628	0.844	7.929	0.688	-0.303
Skewness	5.832	1.174	1.160	0.679	1.219	3.177	4.827	1.190	2.392	1.001	0.105
Range	39.000	552.000	65.250	59.790	183.400	89.100	4.590	55.000	178.300	72.400	0.540
Minimum	<0.2	11.000	4.650	8.660	27.000	1.500	0.090	<5	6.700	10.000	0.190
Maximum	39.100	563.000	69.900	68.450	210.400	90.600	4.680	57.000	185.000	82.400	0.730

Note: 14 Au values >0.2 replaced by 0.1; 6 Hg values <5 replaced by 2.

Table 2: Corelation coefficients, soil samples, Lil claims, areas A and B.

	Au	*Ag*	*Cu*	*Pb*	*Zn*	*As*	*Sb*	*Hg*	*Ni*	*Cr*	*Mg*
Au	1.000										
Ag	0.178	1.000									
Cu	0.113	0.575	1.000								
Pb	-0.062	-0.012	-0.327	1.000							
Zn	-0.040	0.287	0.321	0.371	1.000						
As	0.163	0.411	0.359	-0.066	0.341	1.000					
Sb	0.110	0.113	0.242	-0.144	0.215	0.697	1.000				
Hg	0.129	0.209	0.594	-0.298	0.143	0.344	0.510	1.000			
Ni	0.078	0.387	0.706	-0.137	0.494	0.385	0.189	0.410	1.000		
Cr	0.131	0.122	0.541	-0.059	0.381	0.316	0.092	0.330	0.708	1.000	
Mg	0.130	0.180	0.471	0.132	0.495	0.272	0.273	0.445	0.541	0.575	1.000
Covariance			25 – 50%			50 – 75%					

Altered serpentinite outcrops (559679) occur about 350 m east of Area A and float of similar composition was previously reported in the Germaine Creek valley, just north of sample 559658 (Fig. 3).

The whole rock analyses for the felsic and mafic rocks, samples 559676 and 559658, were plotted in Le Bas et al (1986) classification diagram and the former plots within the rhyolite field and the latter within the basalt field. Both rocks probably belong to Tertiary volcanic complex.

2.2 Kate Claims

In July 2016 Xyquest Mining Corp. retained C. Studer, M. Esteva and J. Pelletier to conduct a soil geochemistry program on the Kate Claims situated in the 4 Above Pup creek and Germaine creek watershed area (Fig. 30). The former creek is one of northern tributaries to Hunker creek and the latter discharges into Klondike River. The fieldwork was carried out from September 4 to September 9, 2016 (total 6 days), during which time a soil sampling grid was laid as shown in Fig. 30 and a total of 145 samples from "C" and/or "B" horizon collected. The soil assays are attached in Appendix V.

The assays for gold and silver were plotted on the distribution maps and 3Ds are shown in Figs. 31 to 42. As shown, area C is relatively low in gold ranging from below detection limit to a maximum of 16.1 ppb. Silver values average 98.5 ppb with the highest of 1658 ppb.

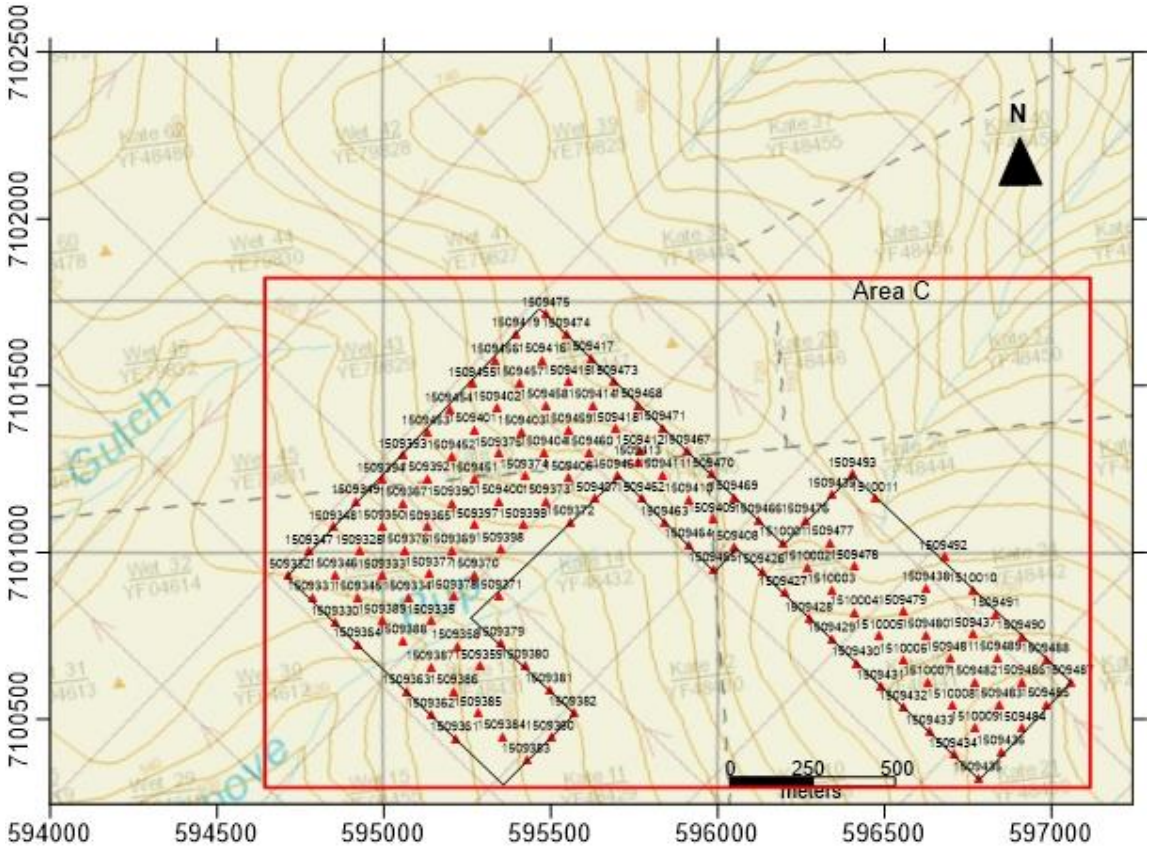


Fig. 30: Kate claims, area C, location of soil sampling grid.

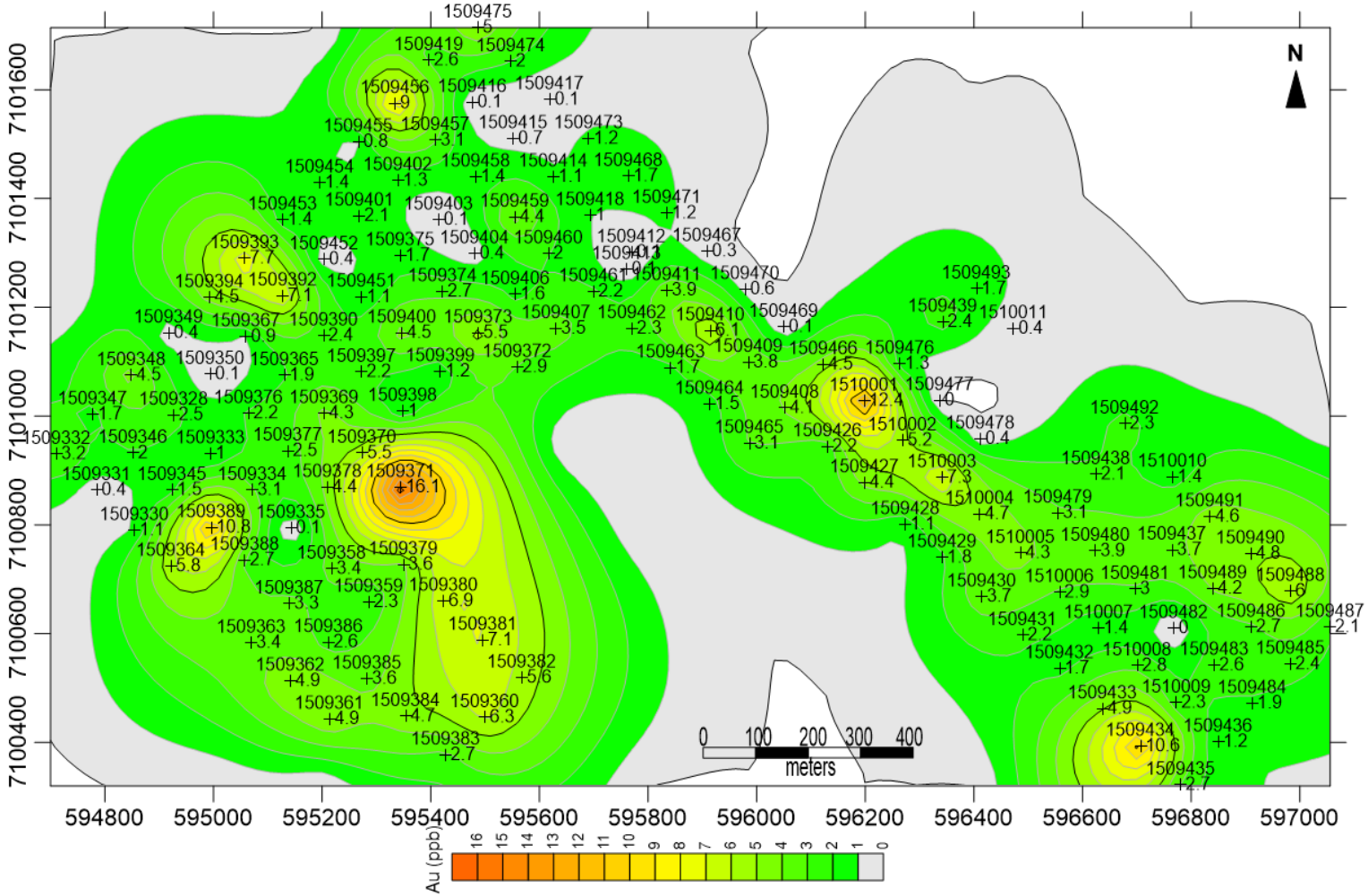


Fig. 31: Gold distribution in soil, area C.

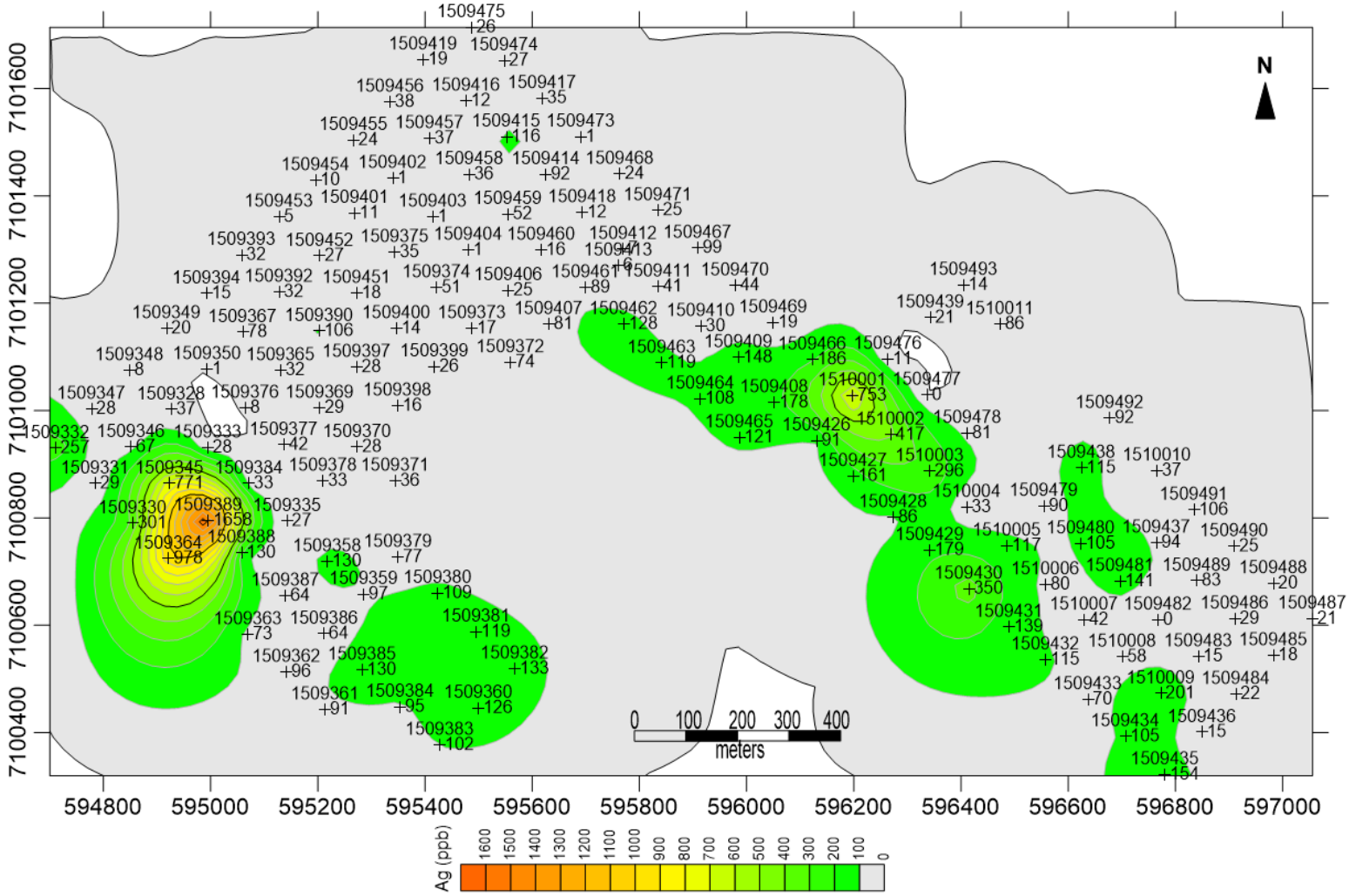


Fig. 32: Silver distribution in soil, area C.

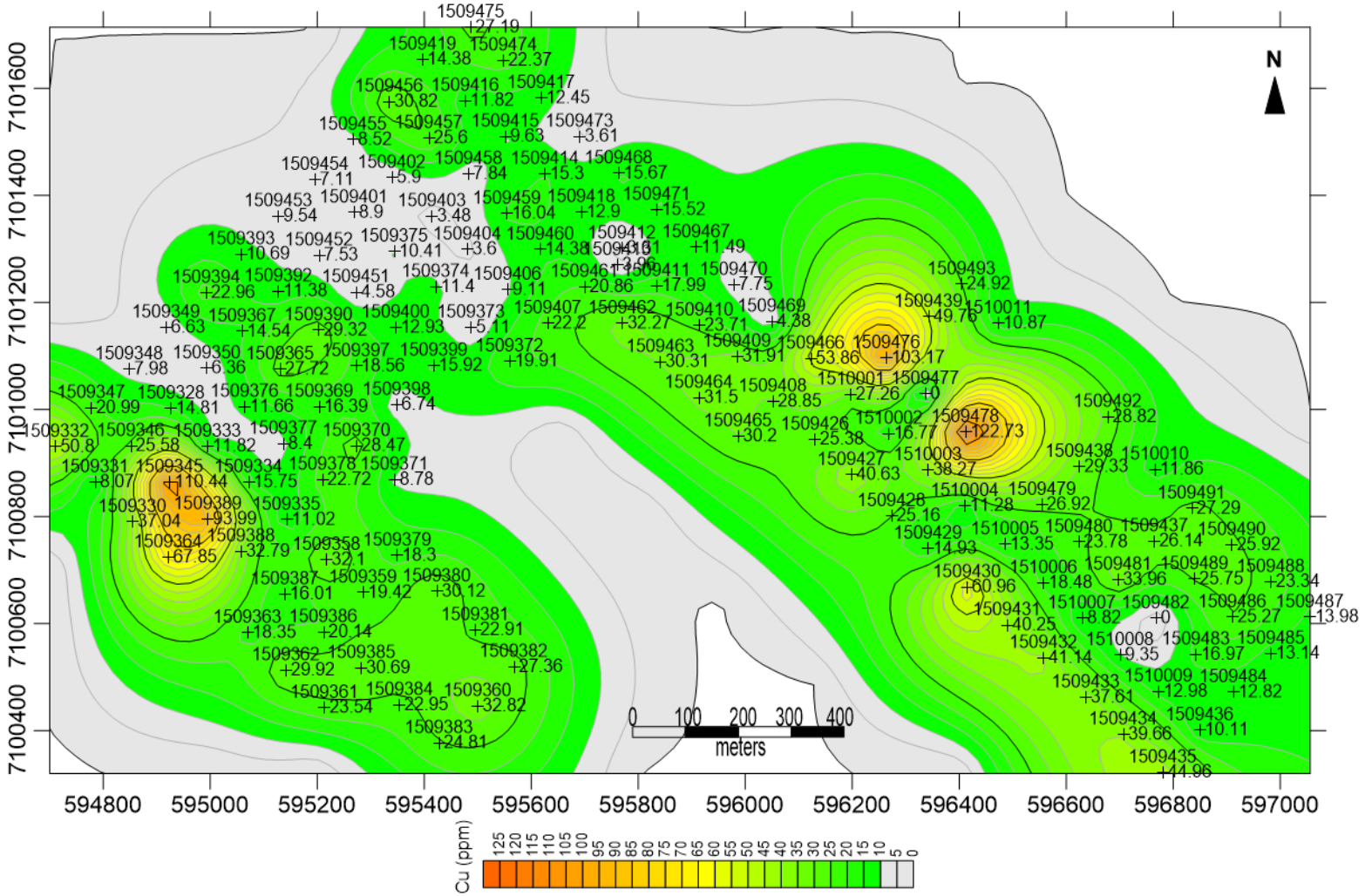


Fig. 33: Copper distribution in soil, area C.

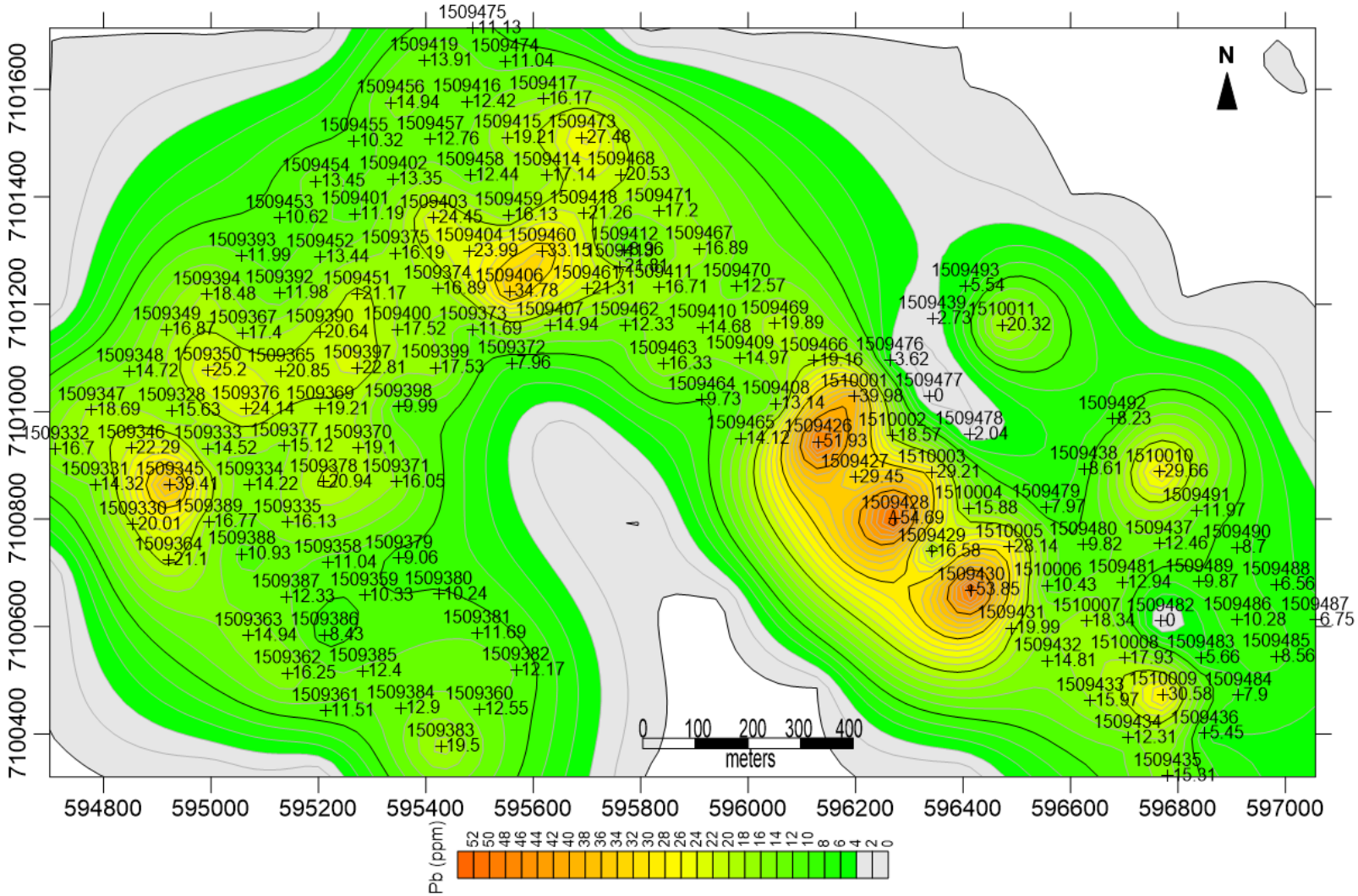


Fig. 34: Lead distribution in soil, area C.

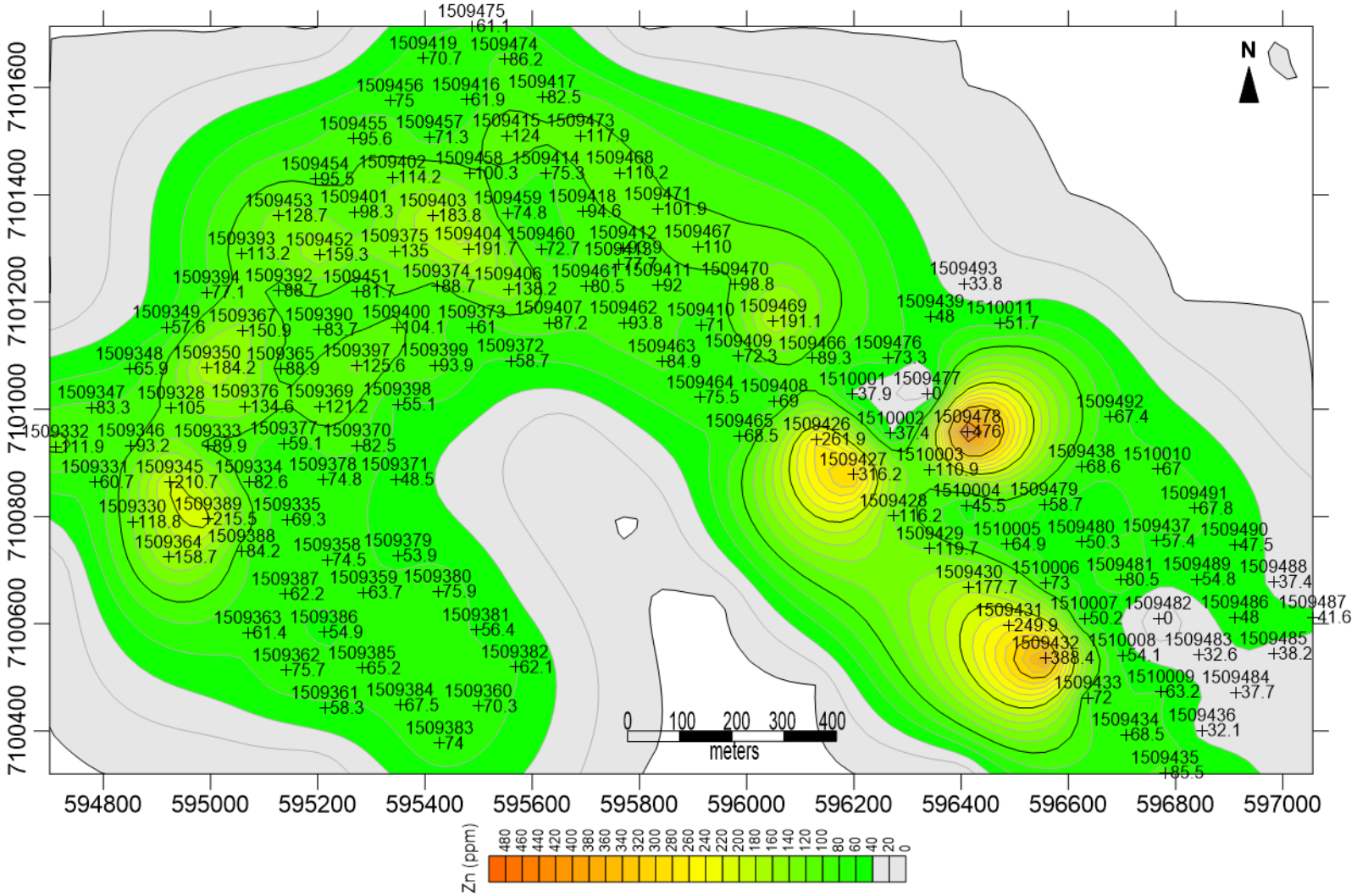


Fig. 35: Zinc distribution in soil, area C.

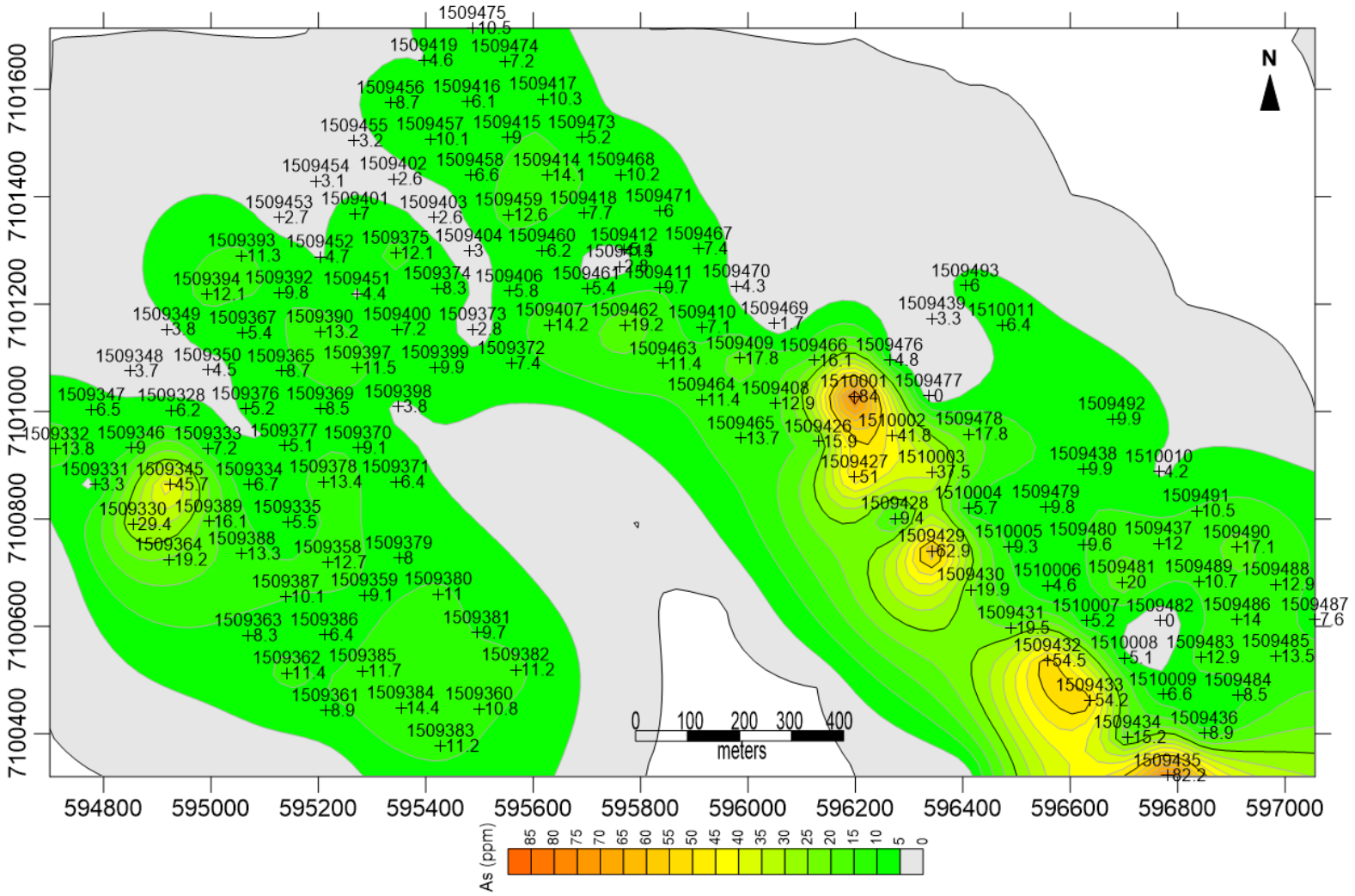


Fig. 36: Arsenic distribution enic in soil, area C.

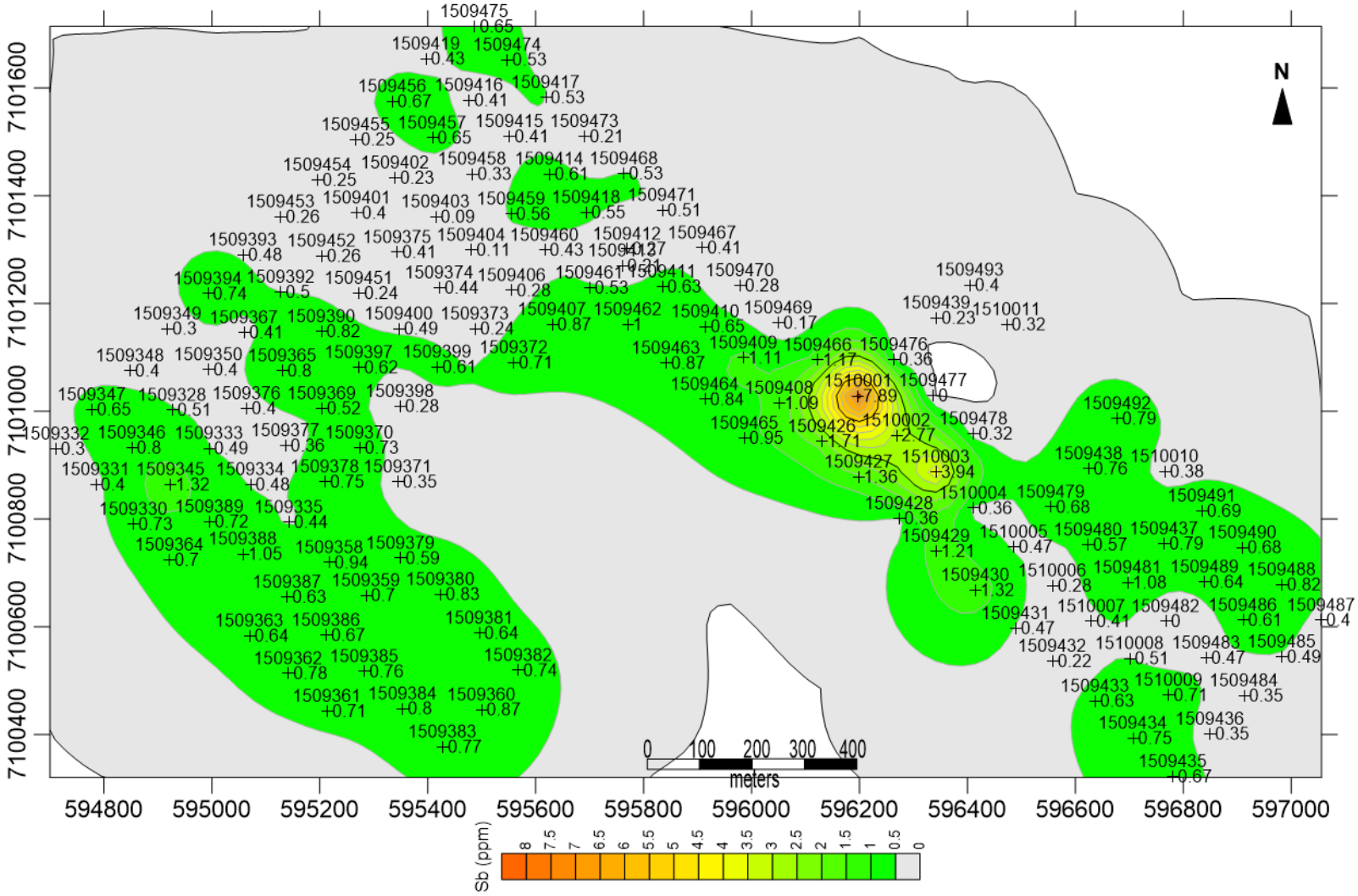


Fig. 37: Antimony distribution in soil, area C.

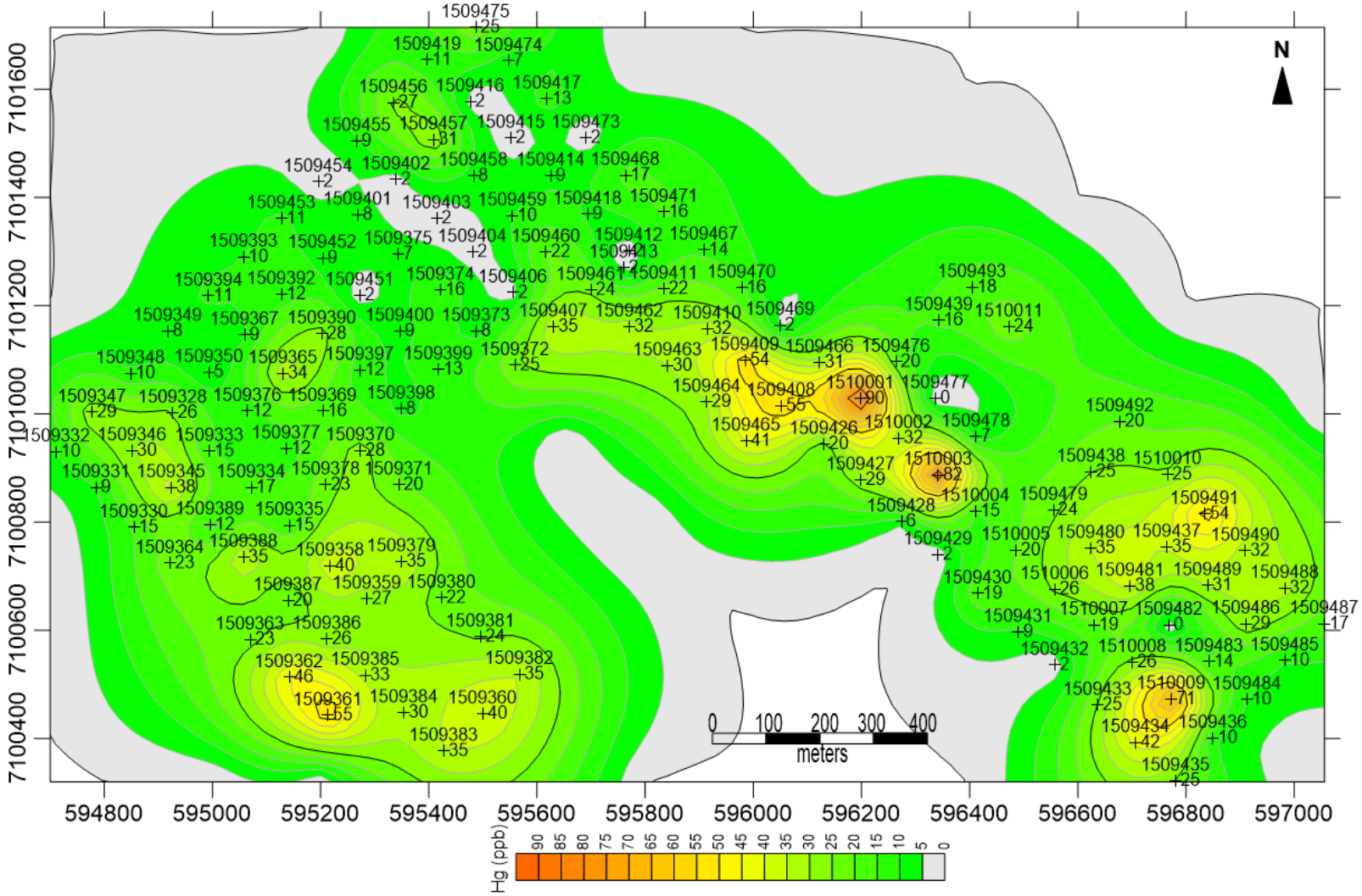


Fig. 38: Mercury distribution in soil, area C.

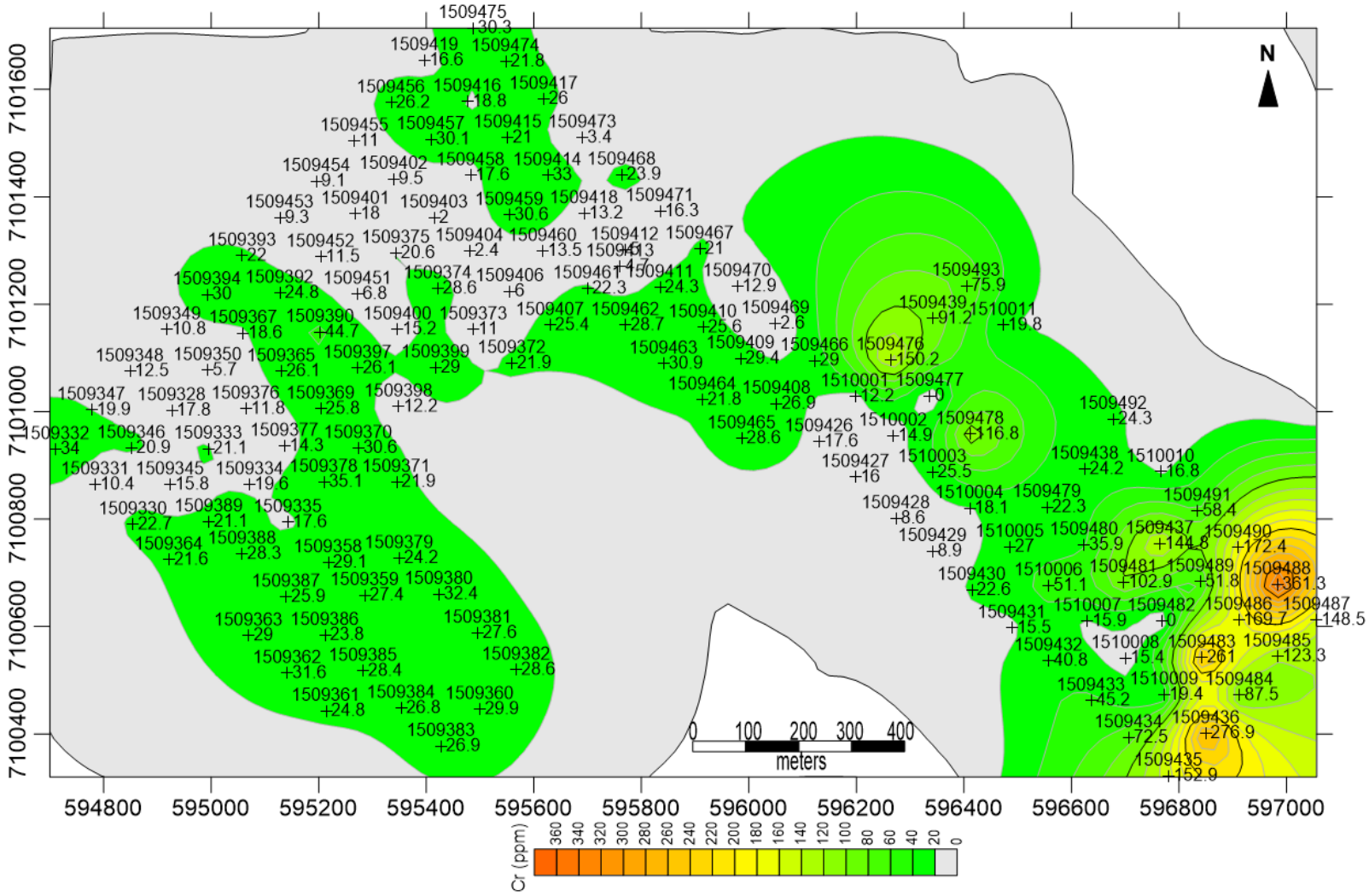


Fig. 39: Chromium distribution in soil, area C.

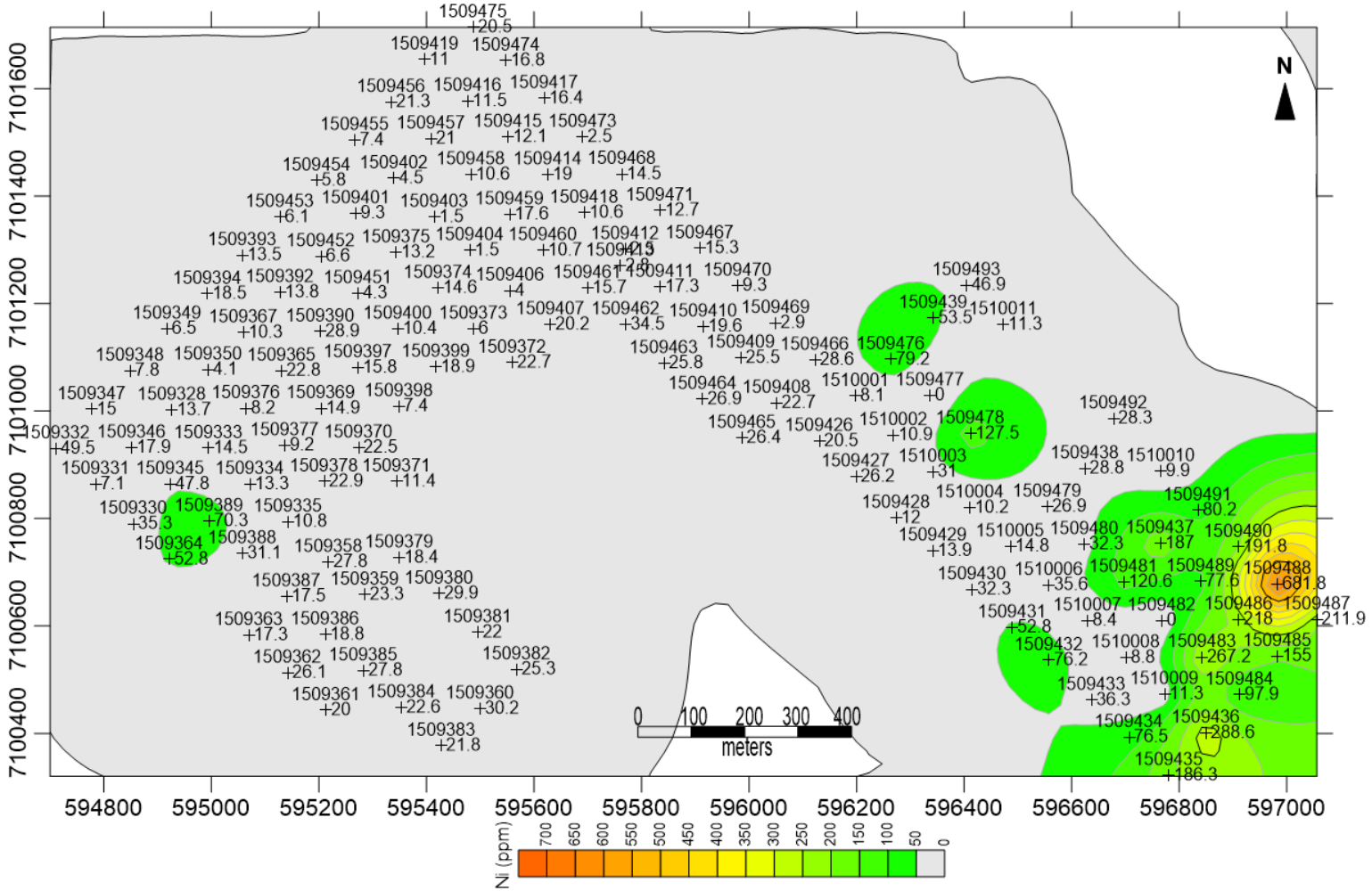


Fig. 40: Nickel distribution in soil, area C.

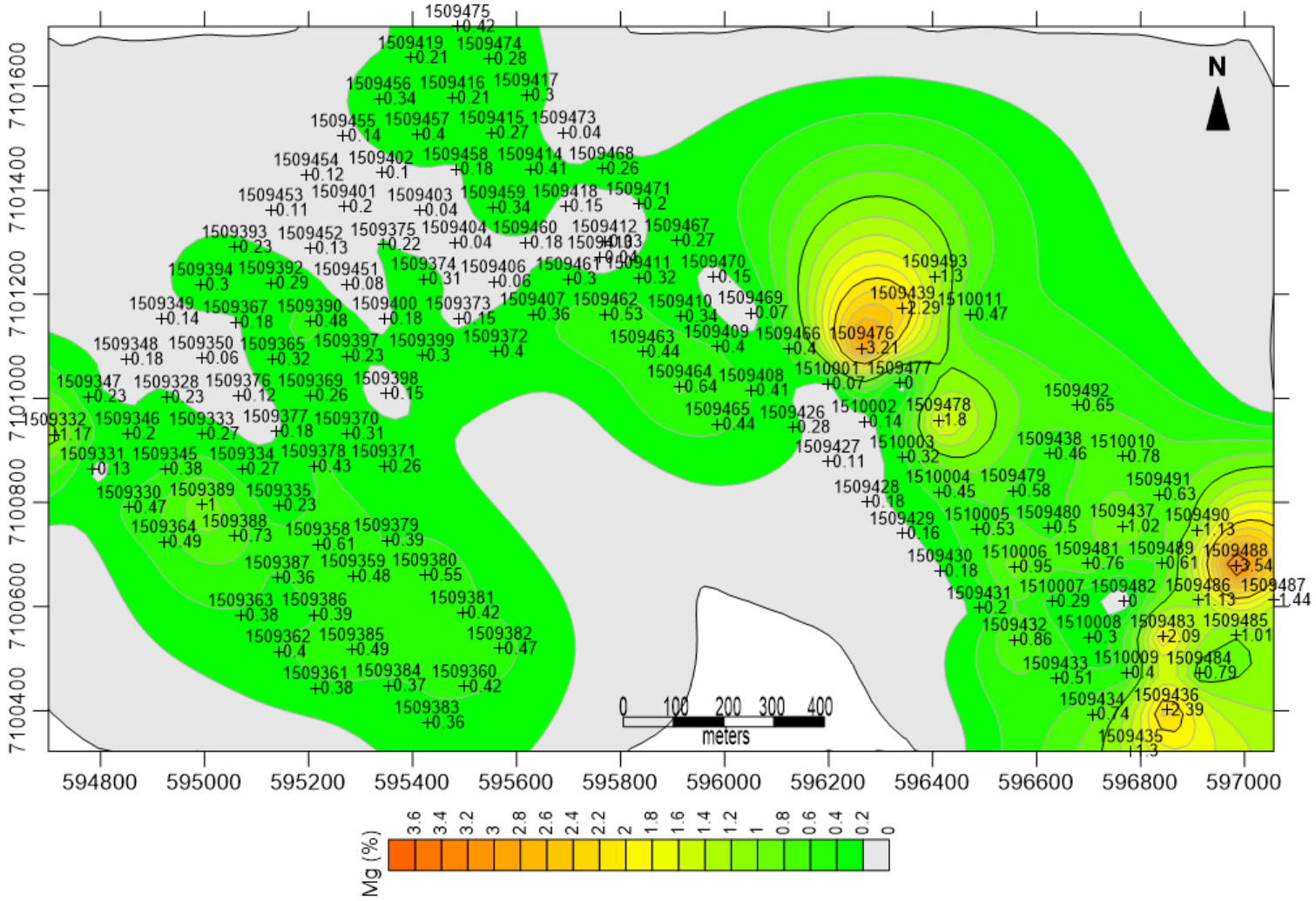


Fig. 41: Magnesium distribution in soil, area C.

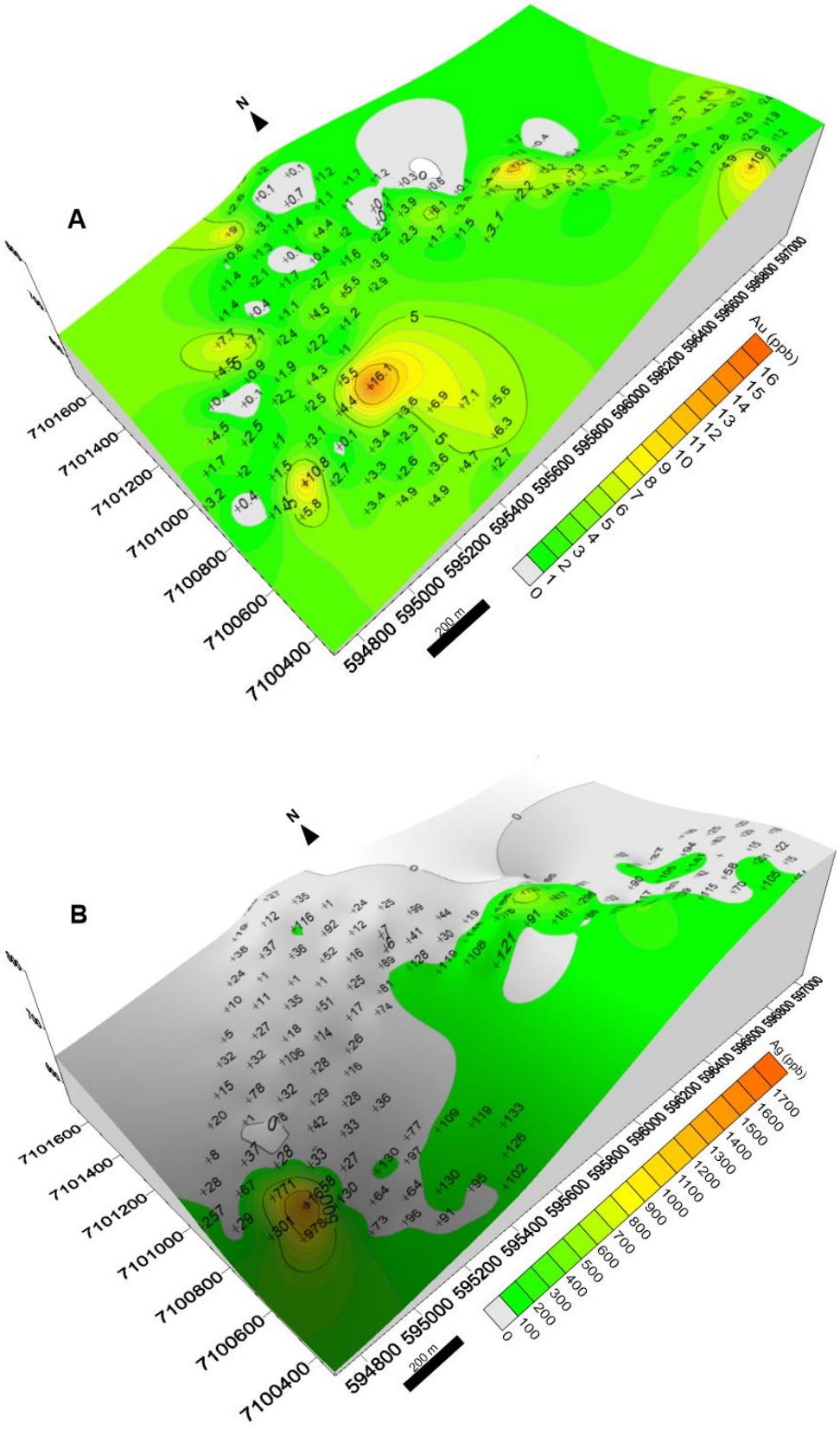


Fig.42: 3D images with gold (A) and silver (B) distribution.

Table 3: Table 2: Descriptive statistics for soil samples, Kate claims, area C.

	Au	*Ag*	*Cu*	*Pb*	*Zn*	*As*	*Sb*	*Hg*	*Cr*	*Ni*	*Mg*
Count	134	134	134	134	134	134	134	134	134	134	134
Mean	3.05	99.96	23.12	16.57	94.77	12.46	0.68	21.40	37.98	39.72	0.48
St. Error	0.22	16.45	1.66	0.75	5.41	1.16	0.07	1.34	4.52	6.53	0.05
Median	2.45	43.00	18.52	14.96	75.80	9.20	0.56	20.00	24.05	18.65	0.34
Mode	0.10	1.00	11.82	14.94	88.70	7.20	0.40	2.00	29.00	52.80	0.18
St. Deviation	2.52	190.44	19.26	8.73	62.59	13.46	0.77	15.50	52.35	75.64	0.55
Spl Variance	6.35	36266.49	370.95	76.16	3917.46	181.23	0.59	240.30	2740.99	5721.16	0.30
Kurtosis	6.34	38.15	10.32	6.14	14.00	13.06	61.29	3.85	15.83	40.23	12.85
Skewness	2.00	5.61	2.81	2.04	3.24	3.44	7.07	1.50	3.70	5.54	3.27
Range	16.00	1657.00	119.25	52.65	443.90	82.30	7.80	88.00	359.30	680.30	3.51
Minimum	<0.2	<2	3.48	2.04	32.10	1.70	0.09	<5	2.00	1.50	0.03
Maximum	16.10	1658.00	122.73	54.69	476.00	84.00	7.89	90.00	361.30	681.80	3.54

Note: 6 Au values <0.2 replaced by 0.1; 5 Ag values <2 replaced by 1; 14 Hg values <5 replaced by 2.

Table 4: Correlation coefficients, soil samples, Kate claims, area C.

	Au	*Ag*	*Cu*	*Pb*	*Zn*	*As*	*Sb*	*Hg*	*Cr*	*Ni*	*Mg*
Au	1.000										
Ag	0.384	1.000									
Cu	0.207	0.570	1.000								
Pb	-0.009	0.248	0.027	1.000							
Zn	-0.179	0.218	0.428	0.303	1.000						
As	0.270	0.415	0.372	0.231	0.238	1.000					
Sb	0.435	0.424	0.183	0.326	-0.061	0.626	1.000				
Hg	0.472	0.278	0.269	0.078	-0.275	0.341	0.651	1.000			
Cr	0.066	-0.086	0.201	-0.366	-0.172	0.110	-0.036	0.091	1.000		
Ni	0.098	0.009	0.184	-0.280	-0.094	0.144	-0.007	0.096	**0.941**	1.000	
Mg	0.060	0.026	0.442	-0.413	-0.091	0.065	-0.071	0.093	**0.875**	0.796	1.000

Covariance 25 – 50% 50 – 75% >75%

Small Hydro has not conducted any diamond drilling on the project. Historical drilling in 1979 and 1998 are discussed in Section 1.4 History.

2.3 Sampling Method and Analysis

This section describes the sample handling procedures followed during the exploration programs completed by Small Hydro.

It is the authors opinion that the analytical results from the historical drilling by Union Carbide Corp and by Copper Ridge Explorations Inc., are valid considering the methods.

The authors were both on site during the 2016 sampling programs and directly supervised all collection processing and transport of samples from the field to the laboratory in

Whitehorse for preparation. The analyses were performed in Bureau Veritas Laboratory ("BV") in Vancouver. Analytical certificates from the 2016 sampling program were not delivered until 2018.

2.4 Quality Control

BV assayed eight repeats for samples 39, 64, 315, 1509349, 1509385, 1509438, 1509464 and 1510008 (Figs. 43 to, 45), pulp originals vs repeats (Figs. 46, 47), standards DS10 (Figs.48 - 50), DS11 (Figs.51 - 53) and OXC129 (Figs.54 - 56) and the blanks for all elements. The repeats for gold, silver, copper, lead and zinc were correlated with their originals (Figs.57, 58). As shown (Fig. 57, 584), correlation coefficient for gold is 0.308 only, while all other elements have the coefficients above 0.9. The greatest discrepancy was noted in the repeat 315 (Fig. 43), which assayed only 17.3% of its original value. This discrepancy and overall poorer correlation in gold may be assigned to a nugget effect.

Most blanks assayed below detection limit, the following elements however exceed these limits in one or multiple cases (counts in brackets): Cu (5), Zn (1), Ag (3), Mn (1), As (5), Ni (1), Bi (1), Cd (2), P (1) and Se (4).

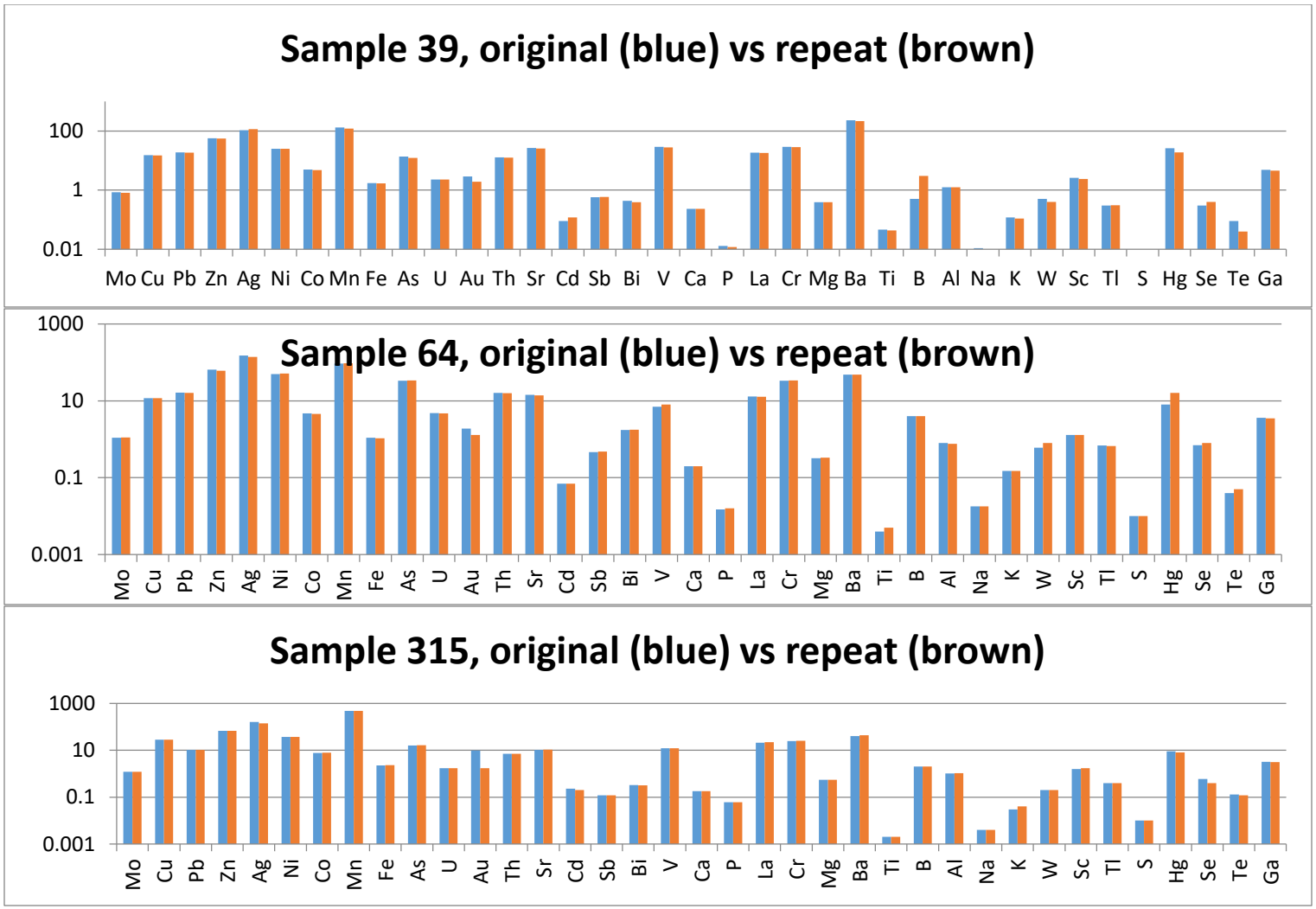


Fig. 43: Pulp originals vs repeats.

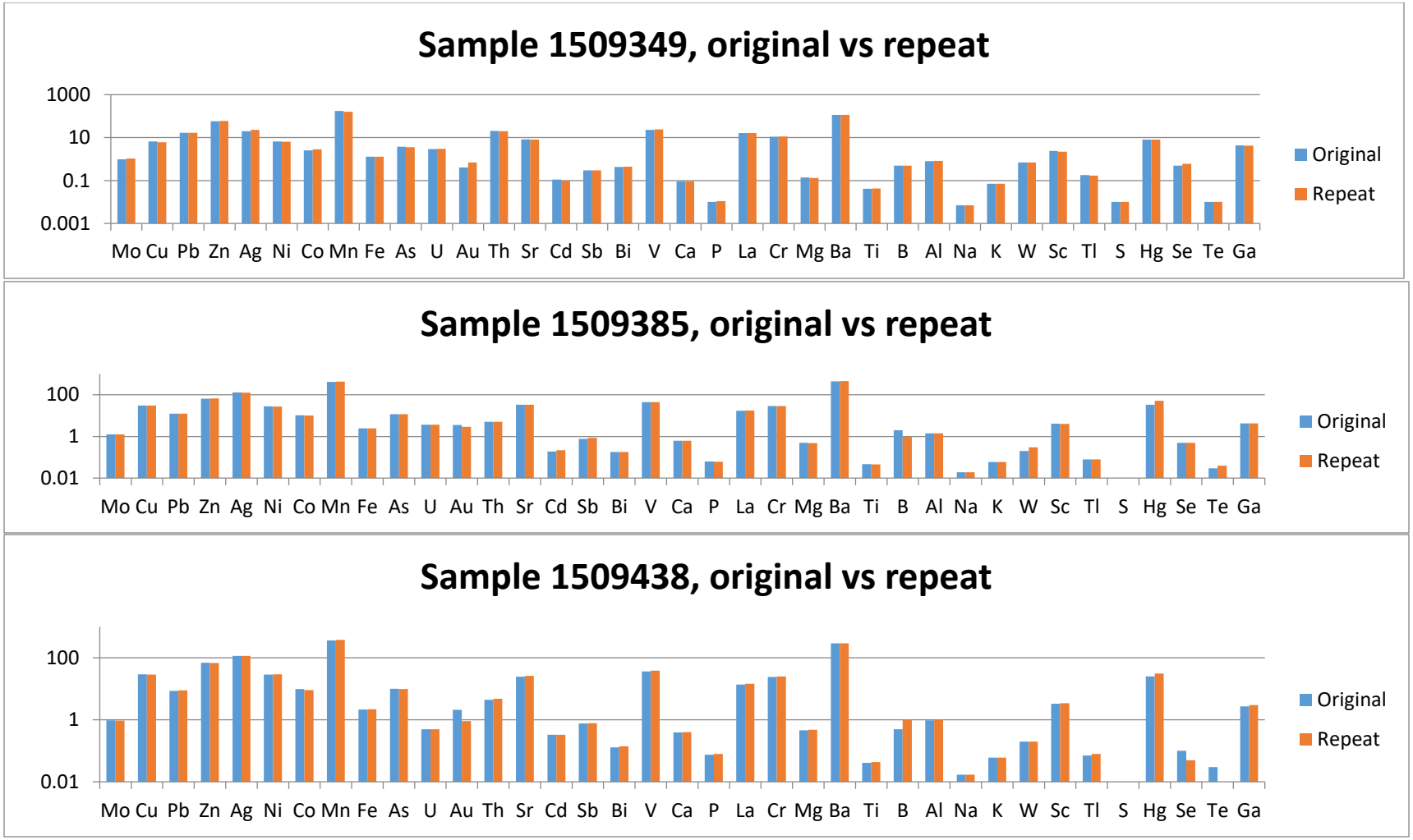


Fig. 44: Pulp originals vs repeats.

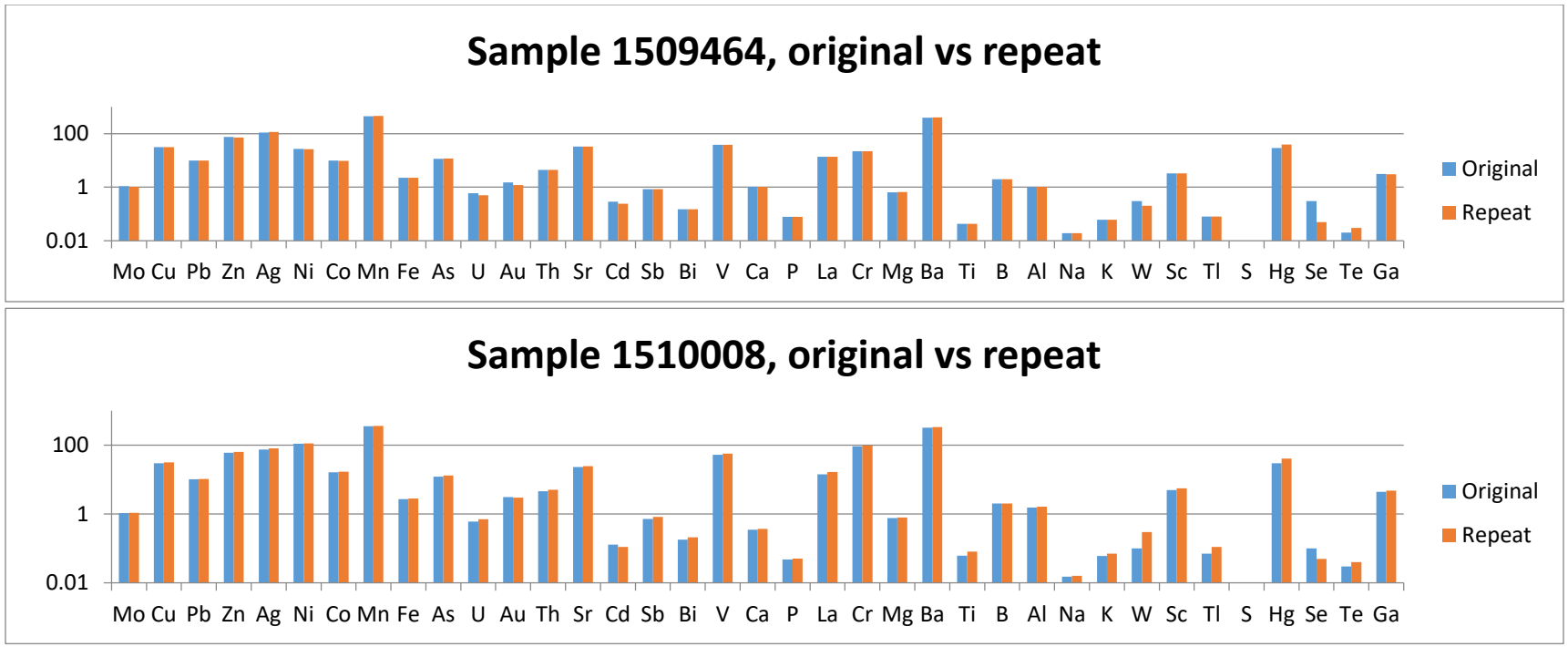


Fig. 45: Pulp originals vs repeats.

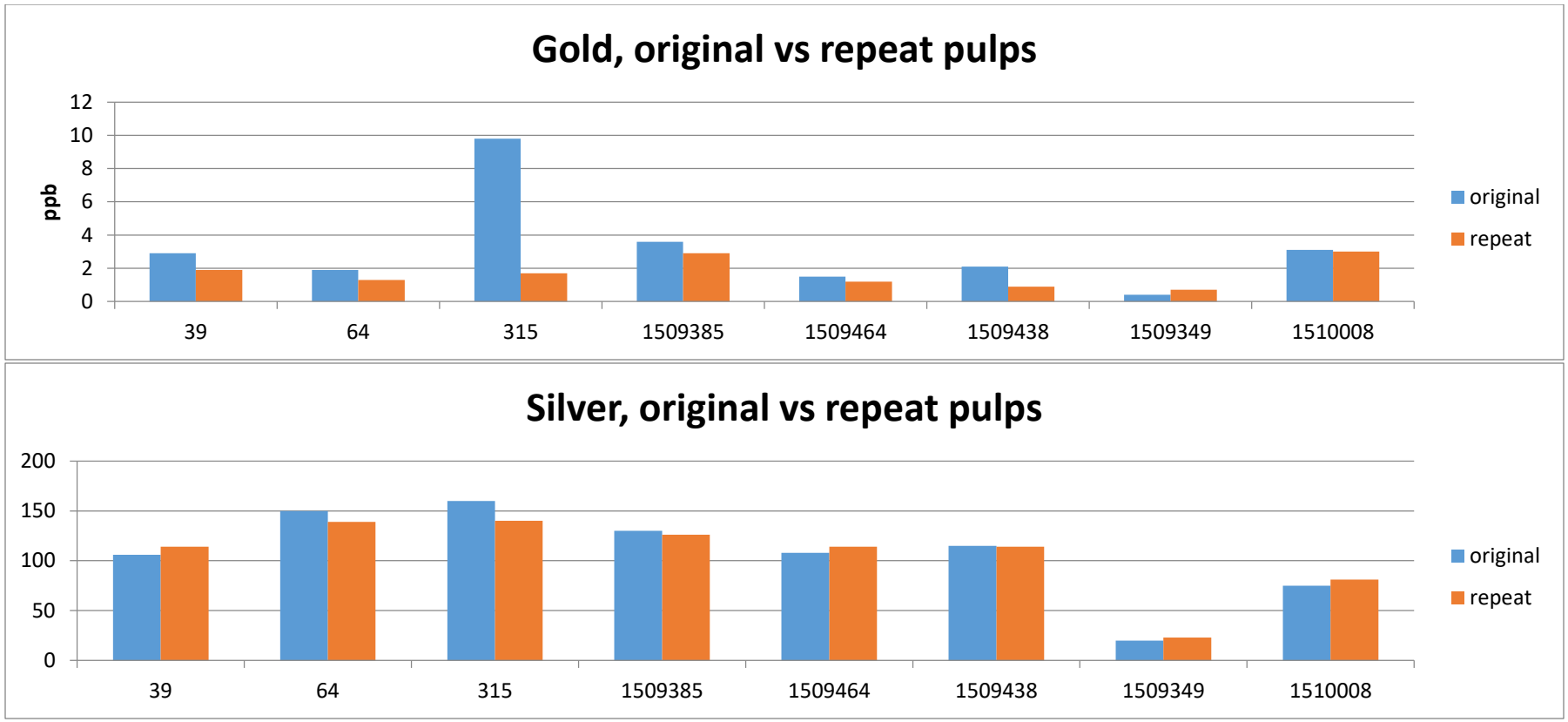


Fig. 46: Gold and silver, originals vs repeats.

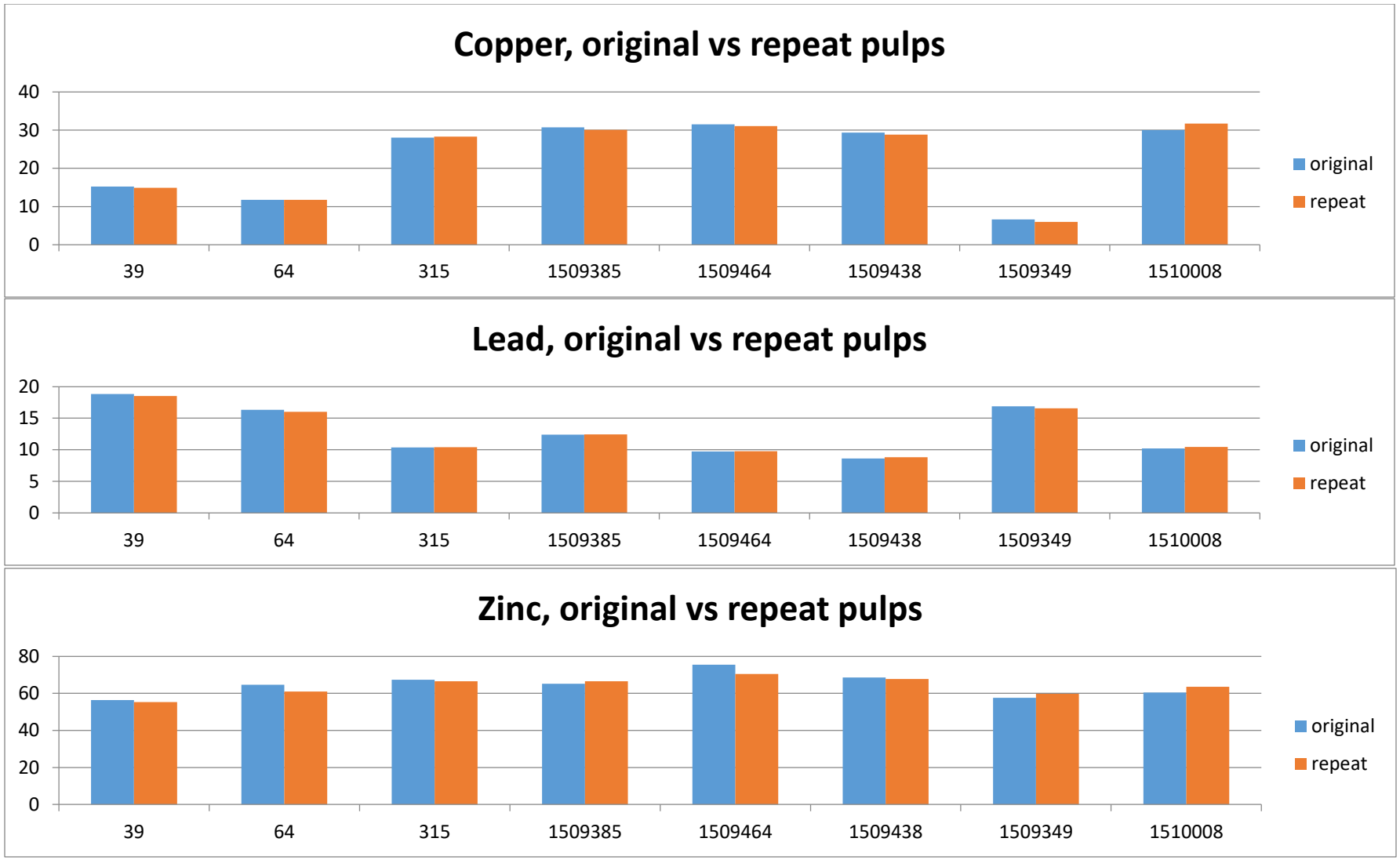


Fig. 47: Copper, lead and zinc in originals vs repeats.

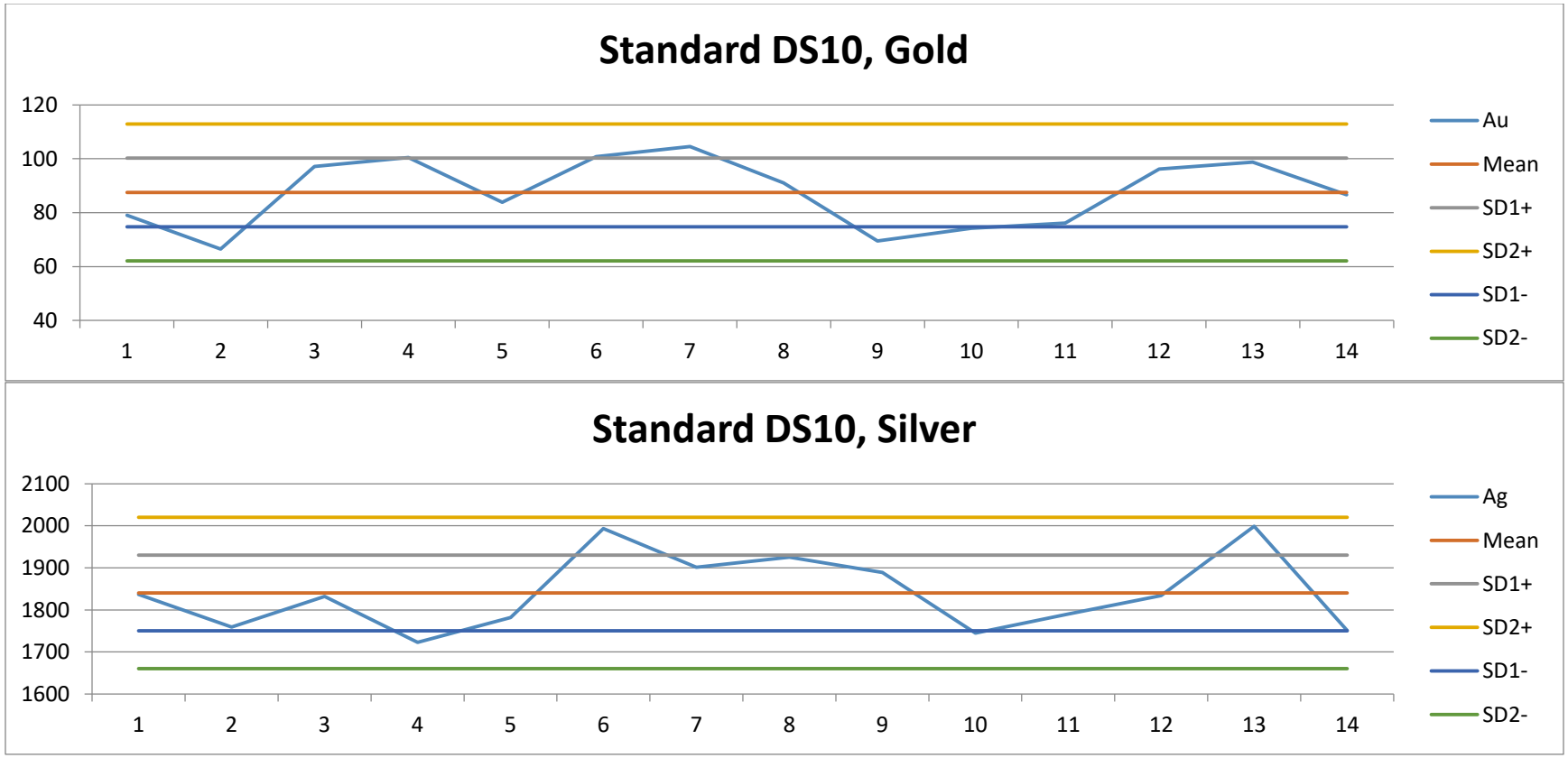


Fig. 48: Standard DS10, gold and silver.

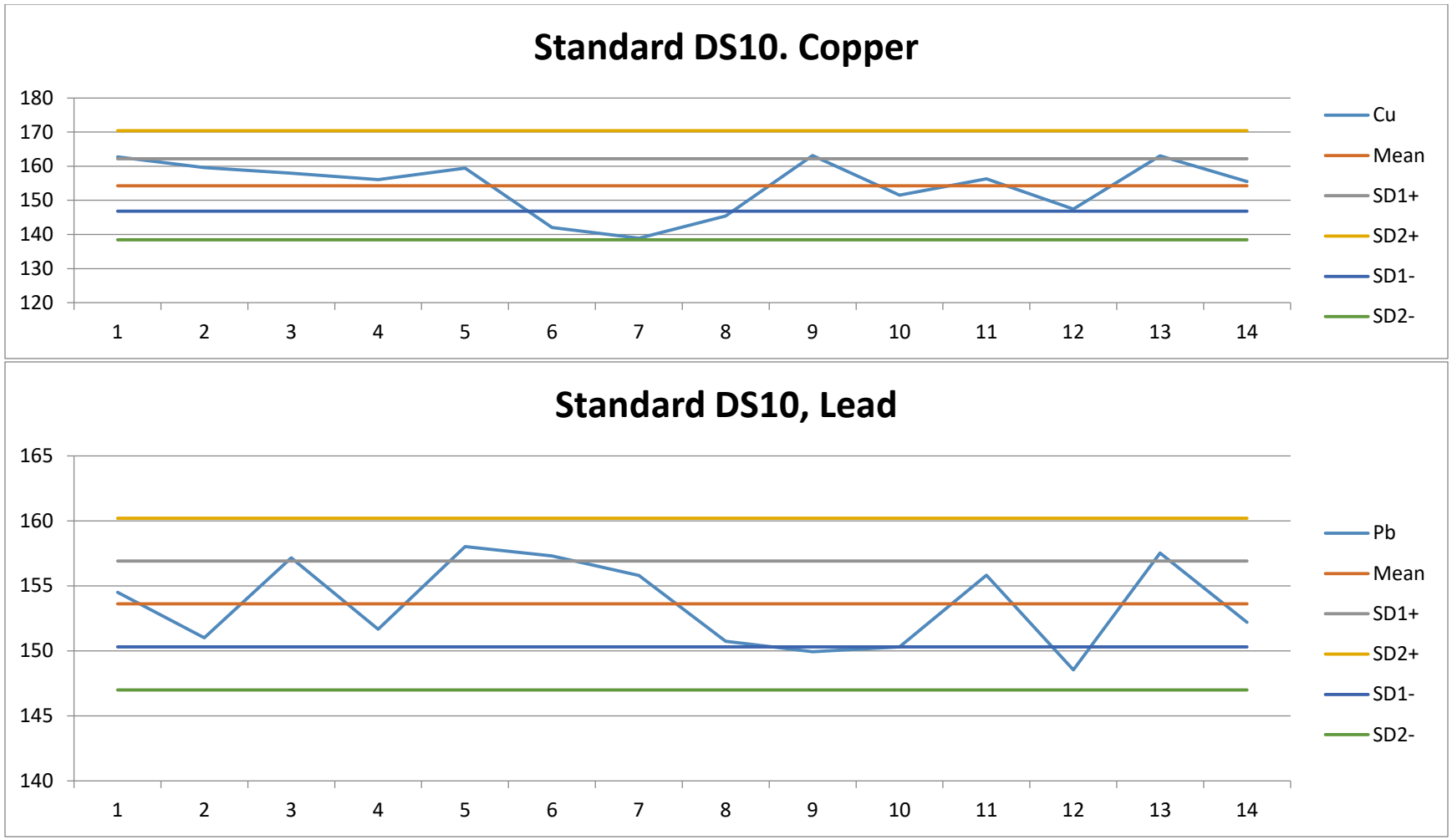


Fig. 49: Standard DS10, copper and lead.

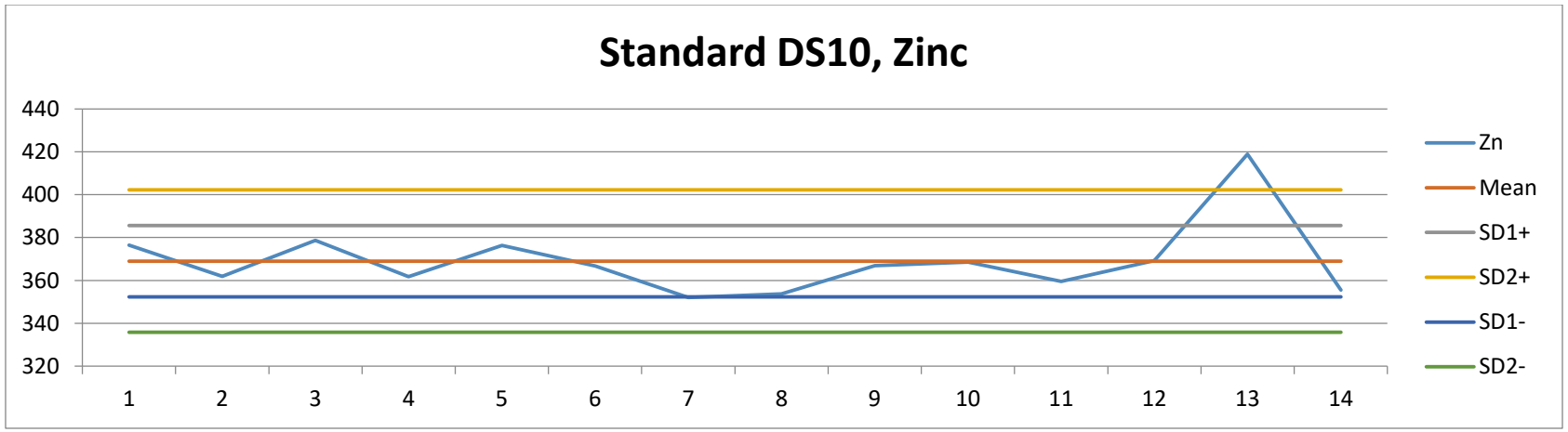


Fig. 50: Standard DS10, zinc.

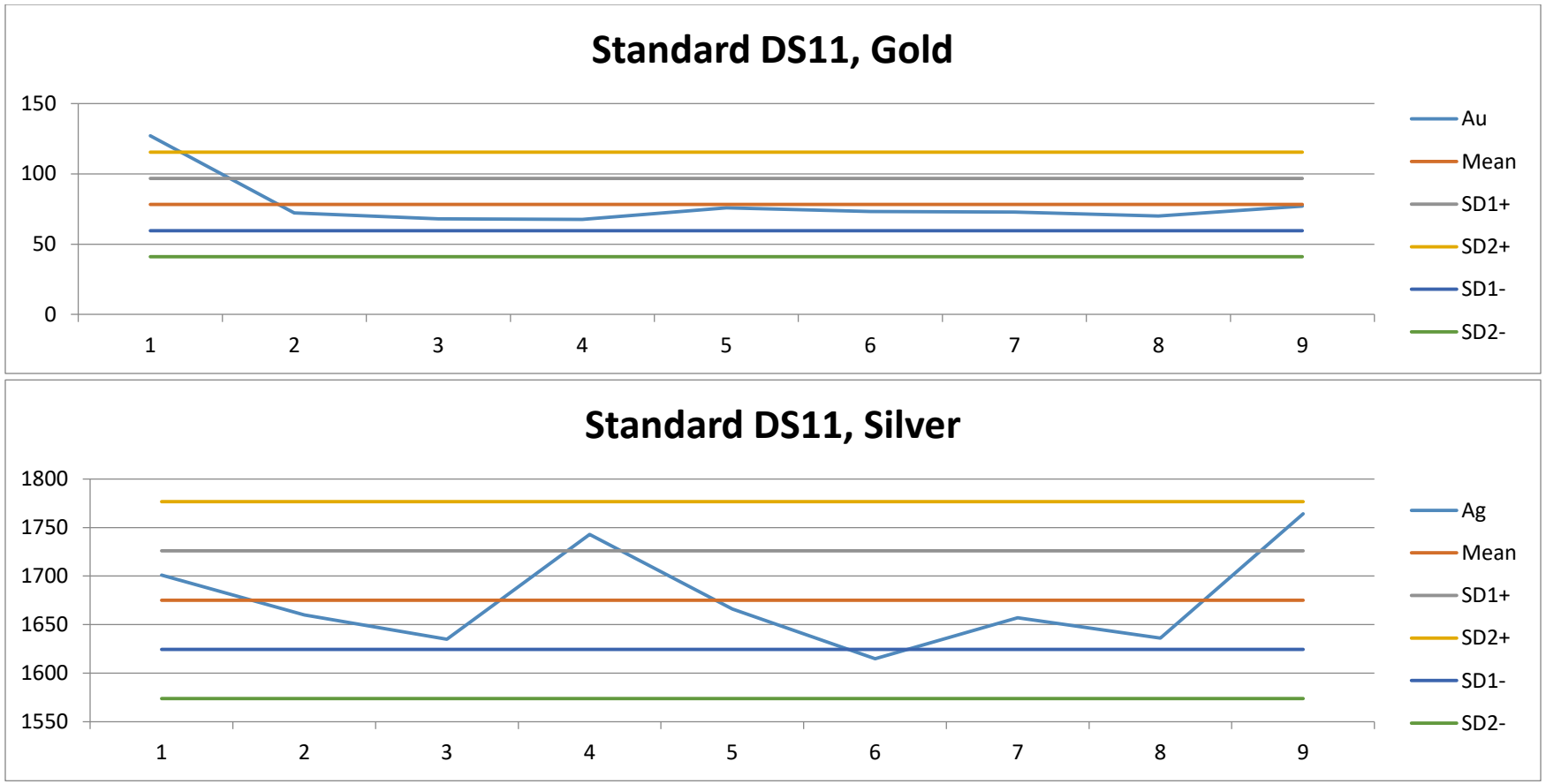


Fig. 51: Standard DS11, gold and silver.

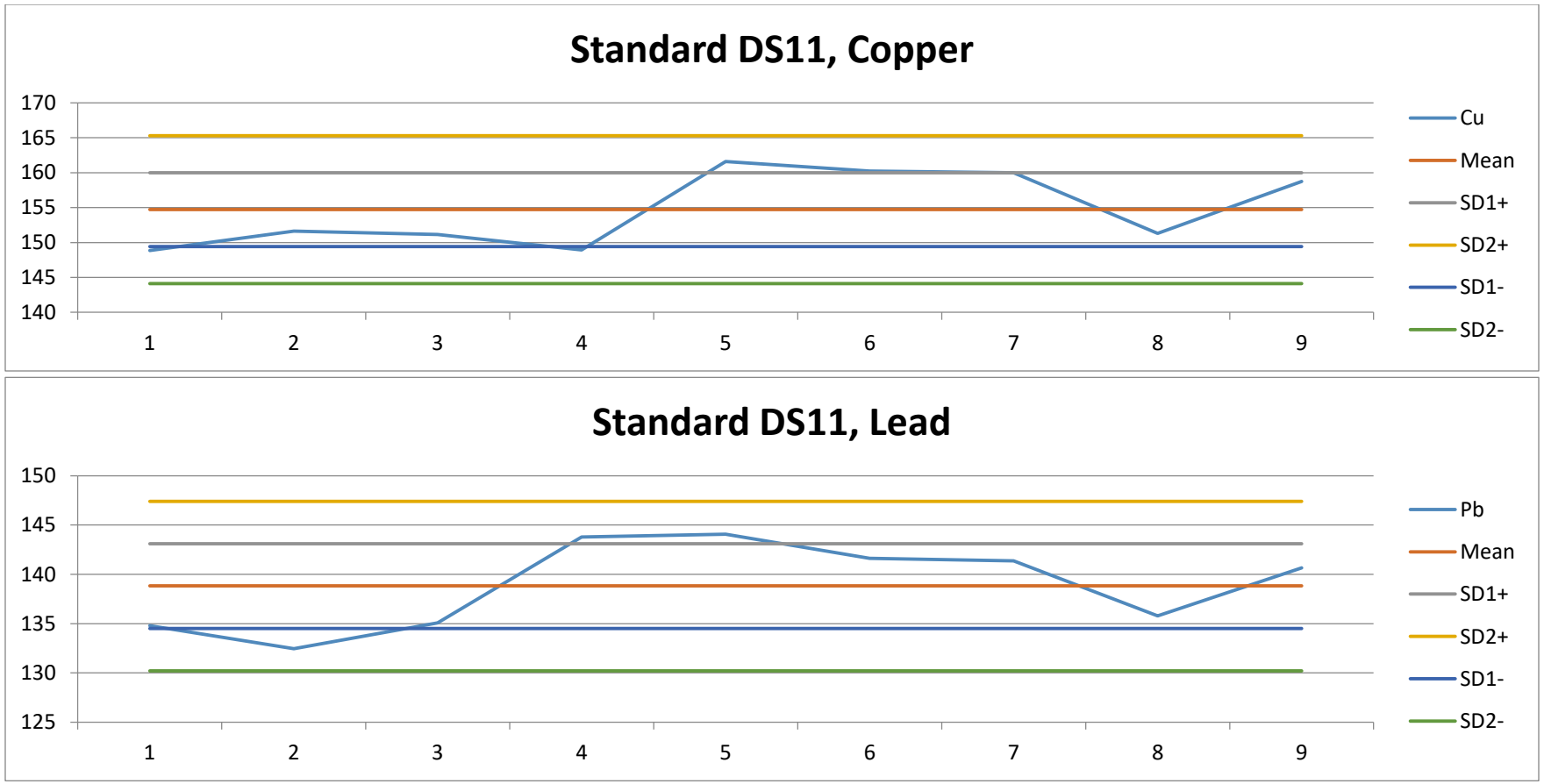


Fig. 52: Standard DS11, copper and lead.

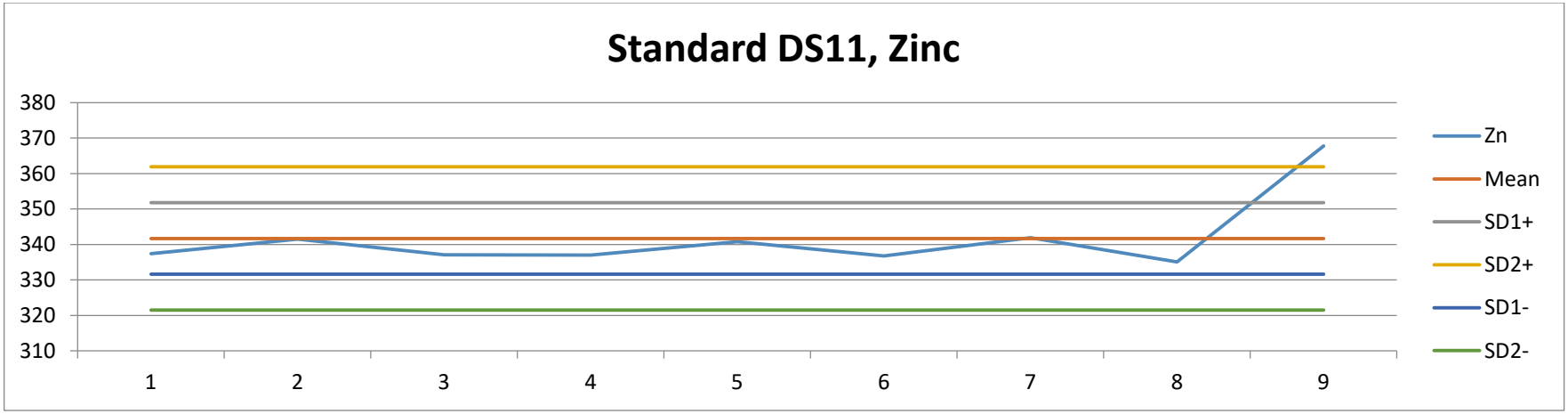


Fig. 53: Standard DS11, zinc.

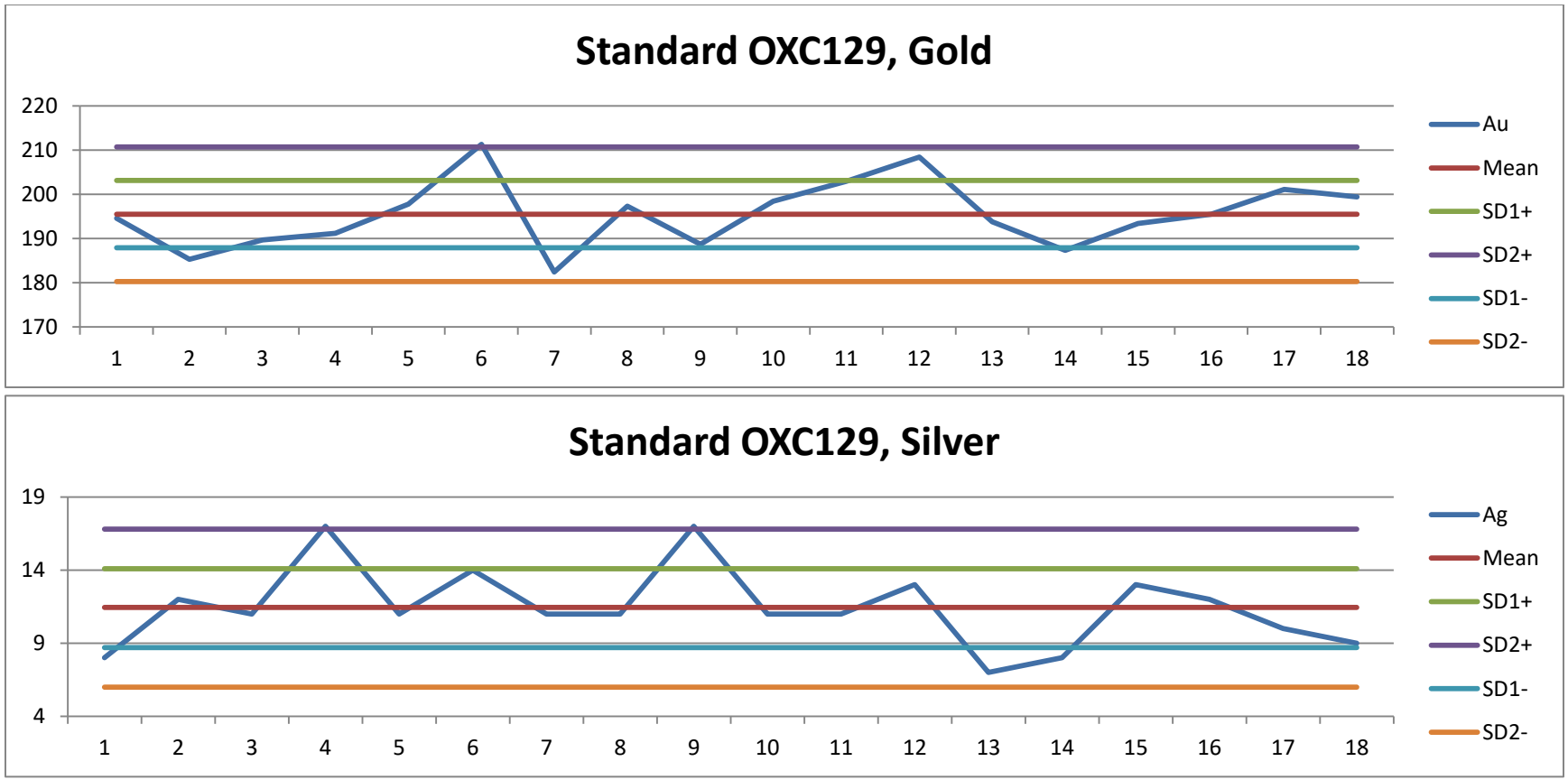
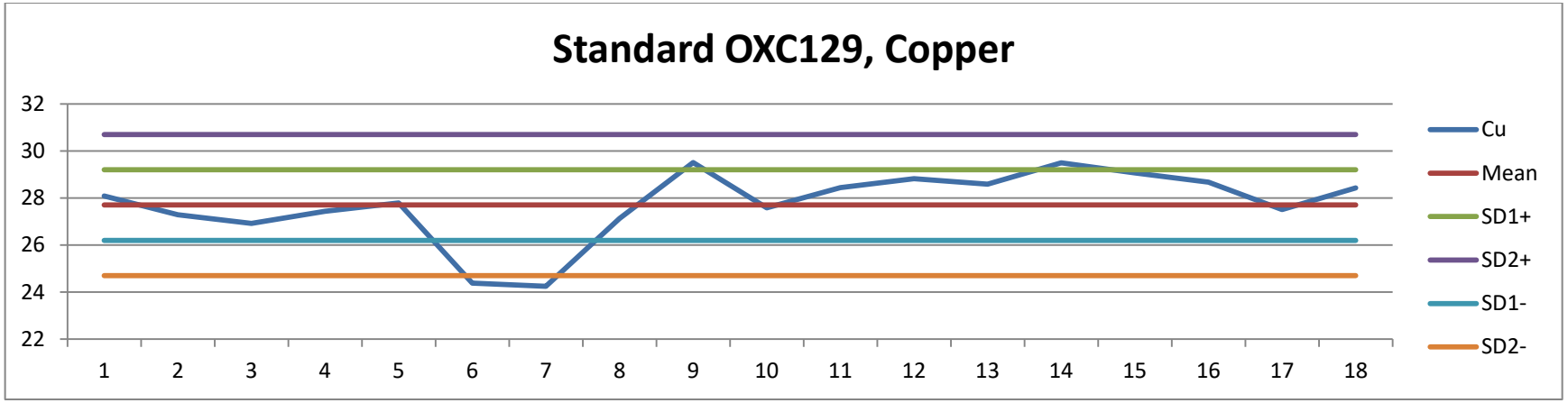


Fig. 54: standard OXC129, gold and silver.



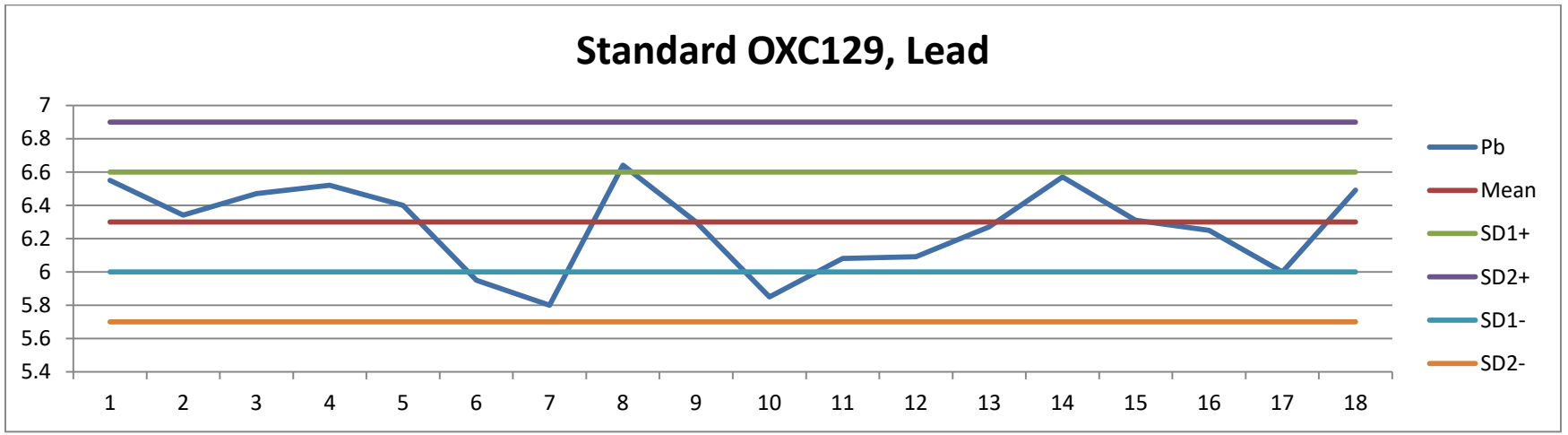


Fig. 55: standard OXC129, copper and lead.

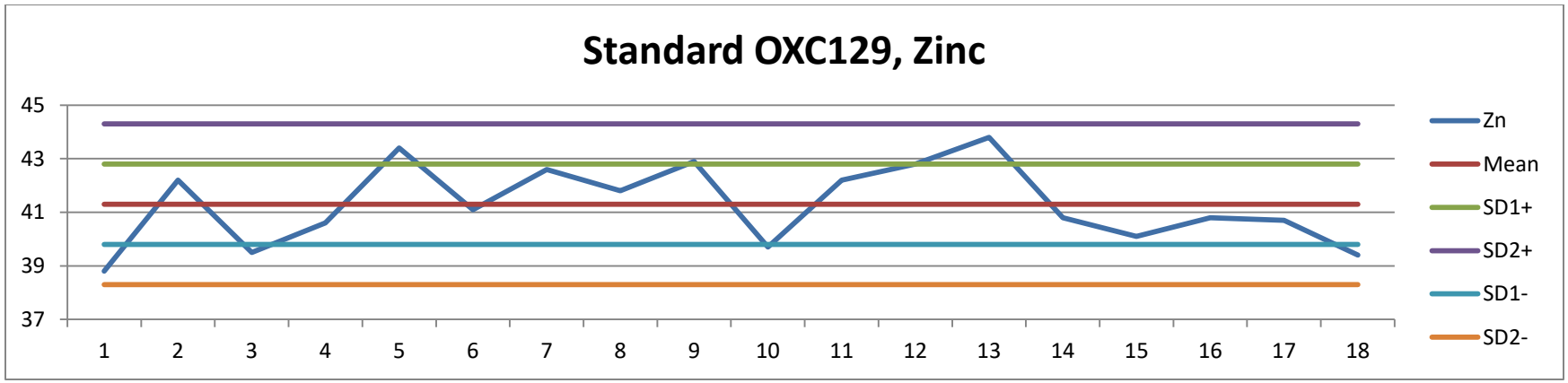


Fig. 56: standard OXC129 for zinc.

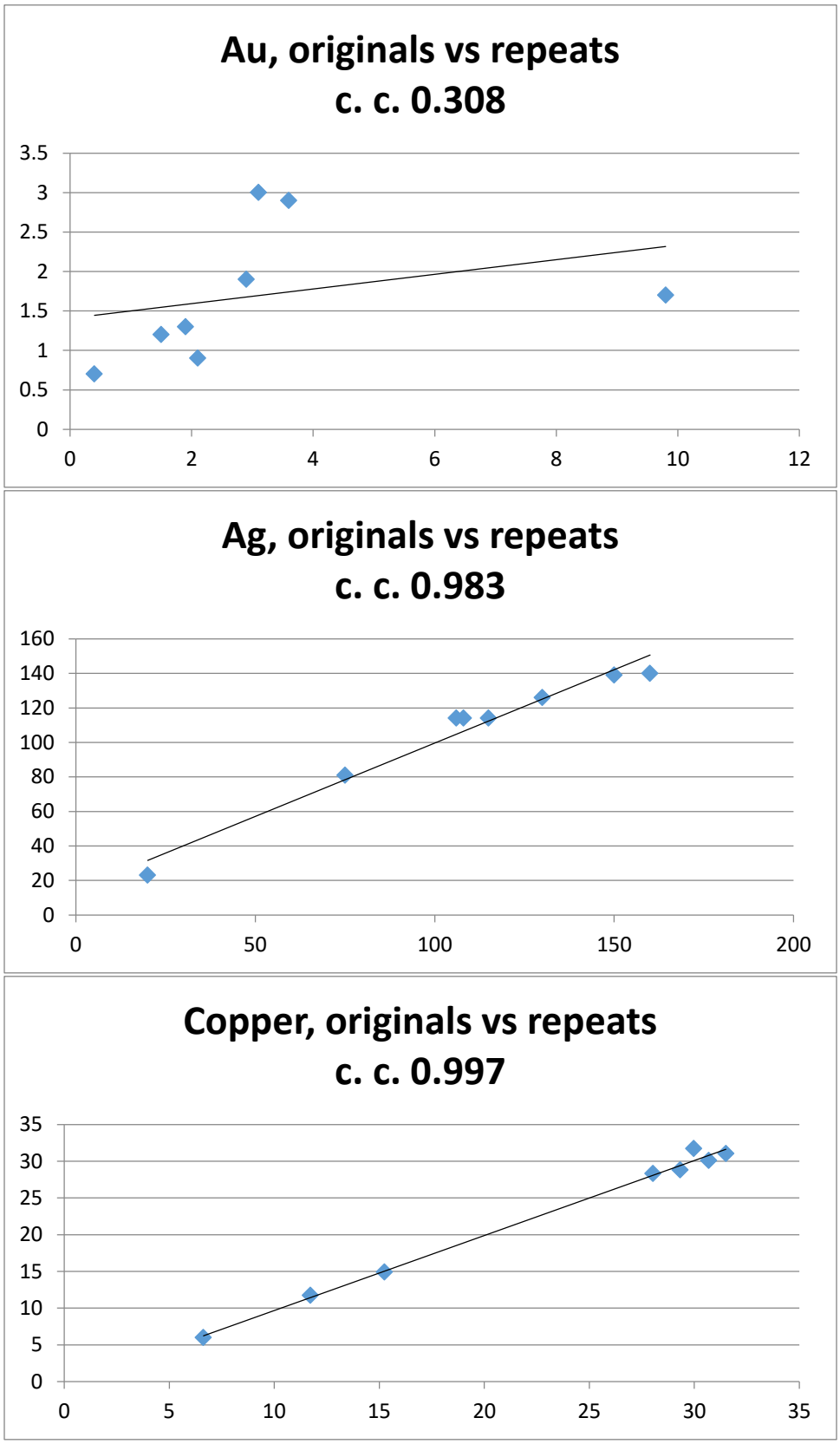


Fig. 57: Gold, silver and copper, correlation of originals vs repeats.

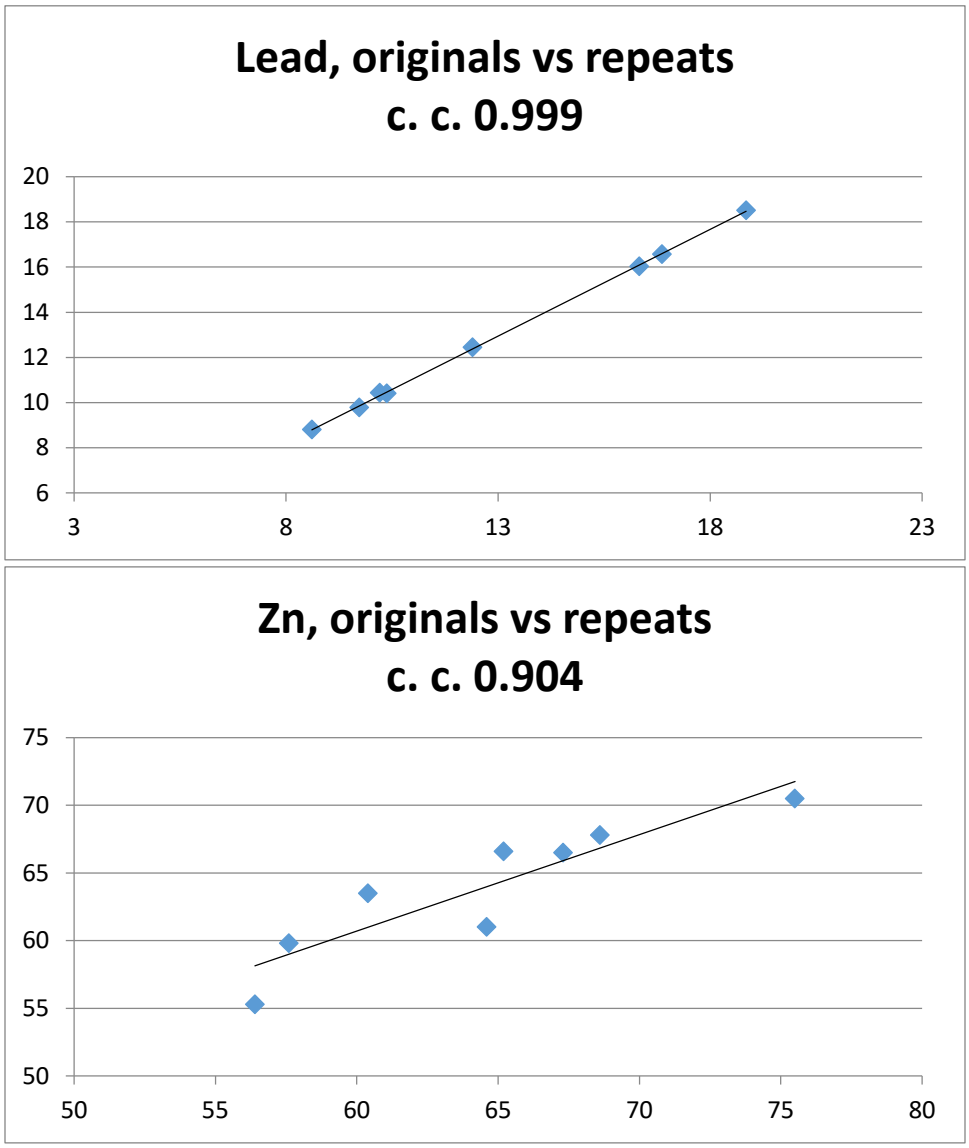


Fig. 58: Lead and zinc, correlation of originals vs repeats.

Based on the QA results a conclusion can be drawn that the assays made by BV for present surveys are reasonably accurate and reproducible and are acceptable for this stage of the project.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Small Hydro's 2016 soil and rock geochemical surveys on the Lil and Kate claims detected several gold and silver anomalies. Gold values in area A ranged from below detection limit ("DL") to a maximum of 39.1 ppb. In area B, the gold values ranged from below DL to 18.6 ppb. The silver values in area A ranged from 11 ppb to 563 ppb and in area B from 19 to 462 ppb. Gold values on the Kate claims (area C) ranged from below DL to 16.1 ppb and

the silver values ranged from 5 to 1658 ppb. Geological map in Fig 2 indicates that areas A and B (Lil claims) and most of the area C (Kate claims) are floored by Tertiary volcanic rocks. Southeastern portion of area C is floored by ultramafic rocks of the Slide Mountain Assemblage, which has been confirmed by high Cr, Ni and Mg values in the soils. High Cr, Ni and Mg however also occur locally in areas A and B, indicating that the bedrock may include mafic and/or ultramafic rocks. Large portions of the claims are covered by alluvial gravel and permafrost occurs in the valleys and on the north-facing slopes. No sampling was conducted in these areas.

The results of historical geological, geochemical and geophysical surveys and diamond drilling indicate that low grade epithermal gold mineralization is restricted to altered and hydrothermally affected ultramafic rocks (listwanites). Mineralization was associated with stockworks of quartz and chalcedony veinlets enriched in gold, arsenic, and antimony but their economic potential was restricted by the very low values and by the limited size potential due to the thin nature of the mineralized klippe sheets (Diment, 1989, Keyser 1998 a, b).

No anomalous gold was detected in the Nasina rocks and/or in the Tertiary volcanic rocks. Historical drilling indicates that altered ultramafic rocks (listwanites) are bounded at depth by a sub-horizontal thrust fault and these rocks and associated mineralization do not extend down-dip. The chargeability anomalies were explained by the presence of graphite and the resistivity anomalies were ascribed to locally thick, frozen, non-conductive overburden. The gold-in-soil anomaly was explained by low grade gold mineralization in the ultramafic rocks.

The Lil claims presumably host a Mother Lode style, quartz-carbonate veins with gold mineralization, similar in style and composition to other occurrences within the Klondike Goldfields including Ben Levy, Upper Hester and Paradise Hill. Hydrothermal alteration and precipitation of quartz ± gold may either be associated with magmatic or metamorphic processes within the orogenic framework, or they are associated with Tertiary volcanism, or a combination thereof.

Historical geophysical surveys and drilling indicate that listwanite and associated gold mineralization have limited depth extent. The area to the west, however, has only been tested by soil sampling, which may not be representative of the bedrock composition. Therefore, we recommend a detailed geological mapping and mechanical pitting/trenching program of the listwanite sub-crops in the Germaine Creek zone and of the gold anomalies detected by soil surveys. Contingent on the results, we recommend reverse circulation drilling.

IN ACCOUNT WITH

XYQUEST MINING CORP.

Suite 702 ▪ 889 West Pender Street ▪ Vancouver BC ▪ V6C 3B2 ▪ Tel. 604.683.3288

Small Hydro Investments Ltd.
#702- 889 West Pender Street
Vancouver, BC V6C 3B2

December 14, 2016
Account #2016-019
GST#896269297

Re: Goring Creek North (Kate/ Lil Claims) Exploration 2016

	Days	Fees per Day	Amount
Senior Geologist, Dr. Bohumil B. Molak, PGeo			
Field Work	12	$ 900.00	$ 10,800.00
Logistics, coordination of exploration, meeting with you to plan and implement exploration, reporting.	3	$ 900.00	$ 2,700.00
			$ 13,500.00
Geologist, Allan Doherty, P.Geo			
Field Work	2	$ 800.00	$ 1,600.00
Logistics, coordination of exploration, meeting with you to plan and implement exploration, reporting.	0.5	$ 800.00	$ 400.00
			$ 2,000.00
Geologist, Lauren Blackburn P.Geo			
Field work	3.5	$ 800.00	$ 2,800.00
Logistics, coordination of exploration, meeting with you to plan and implement exploration, reporting.	0.5	$ 800.00	$ 400.00
			$ 3,200.00
Geological Assistant, Jereomy Pelletier			
Field work	5	$ 350.00	$ 1,750.00
Mobilization and demobilization	1	$ 350.00	350.00
			$ 2,100.00
Geological Assistant, Andrej Molak			
Field work	11	$ 350.00	$ 3,850.00
Mobilization and demobilization	2	$ 350.00	700.00
			$ 4,550.00
Geological Assistant, Robert Eyolfson			
Field work	11	$ 350.00	$ 3,850.00
Mobilization and demobilization	3	$ 350.00	1,050.00
			$ 4,900.00
Expenses:			
Airfare			479.30
Accommodation			3,628.87
Food (Meals, Groceries, etc)			1,139.17
Fuel/ Transportation charges			270.32
Miscellaneous Office/Travel Expense			208.34
Car Rental (12days @ $75/day, 1900km @ $0.35/Km)			1,565.00
Car Rental (3.5days @ $75/day, 554km @ $0.35/Km)			456.40
Pika Exploration Soil Sampling			4,973.00
Workers' Compensation Costs			371.92
Assays (12 rock samples @ $40/ sample)			480.00
Assays (251 soils – lab bill)			10,040.00
Assays (67 soil samples @ $33/sample)			2,211.00
Equipment rental (radios)			112.35
Expense Administration Fee and Office Charge			3,890.35
Total Expenses			$ 29,826.02
Digitization, Preliminary Exploration Report (at 10% of costs)			$ 6,007.60
Subtotal			$ 66,083.63
GST 5%			$ 3,304.18
Total			**$ 69,387.81**

This is our account herein

XYQUEST MINING CORP.

▪ INTEREST OF 2% PER MONTH, COMPOUNDED MONTHLY,
OR 26.8% PER ANNUM CHARGED ON OVERDUE ACCOUNTS

5.0 REFERENCES

Archer, A. R. 1979. Assessment Report on Geology, Geochemistry, Radiometric Surveys 1978 on Surprise 1-219 Claims, Dawson Mining District. Assessment Report #090448

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Mortensen, J.K. and Von Gaza, P., 1992: Application of Landsat TM thermal imagery to structural interpretations of the Tintina Trench in west-central Yukon. In: Yukon Geology, Volume 3, T.J. Bremner (ed.), Exploration & Geological Services Division, Indian & Northern Affairs Canada, p. 214-222.

6.0 CERTIFICATE OF QUALIFIED PERSON

To accompany the Geological Report On the Kate and Lil Claims, Klondike Goldfields, Yukon Territory:

I, the undersigned Bohumil (Boris) Molak, Ph.D., P.Geo., do hereby certify that:

I am a Professional Geoscientist residing at 312, 9298 University Crescent, Burnaby, BC, V5A 4X8, Canada.

I am a member of the Engineers and Geoscientists of British Columbia (License No.28600) in good standing.

I hold the titles B.Sc (1970), M.Sc. (1980) and Ph.D. (1990) in Economic Geology from the Comenius University, Bratislava, Czechoslovakia. I have practiced my profession continuously since 1970 and have conducted geological research, prospecting and exploration for precious and base metals, uranium and industrial minerals in Slovakia, Zambia, Canada, Argentina, Bulgaria, Chile, Cuba and Guinea. Since 2003 until present I am a self-employed, consulting geo-scientist.

This report entitled "Geological Report on the Kate and Lil Claims, Klondike Goldfields, Yukon Territory" dated March .., 2020 is based on the results of geochemical surveys conducted on the Lil Claims in 2016 and on my study of assessment reports, geo-scientific literature and electronic information available on the Internet.

As of the date of this certificate, to the best of my knowledge, information and belief, this Geological Report contains all geo-scientific and technical information that is required to be disclosed to make this Report not misleading.

I am independent of Little Hydro Investments Inc.

"Boh

Dated at Vancouver, BC, Canada, this 25th day of March, 2020.

7.0 CERTIFICATE OF QUALIFIED PERSON

I, the undersigned R. Allan Doherty, P.Geo., do hereby certify that:

1. I reside at 106A Granite Road, Whitehorse, Yukon, Y1A 2V9.

2. I am a graduate of the University of New Brunswick, with a B.Sc. Degree in Geology (Honours, 1977). I have been involved in geological mapping and mineral exploration primarily in the Yukon continuously since 1980.

3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564, and have been registered as a Professional Geologist since 1993.

4. I am the owner of Aurum Geological Consultants Inc., a firm of consulting geologists and I am authorized to practice professional geology by the Engineers and Geoscientists of British Columbia.

5. I am independent of the Small Hydro Investments Inc. and I am the co-author of this report on the exploration work on the Kate and LIL Claims. The report is based on a review of all work and data prior to 2018, work on site with Xyquest Mining Corp., Corp 2016, Madelena Ventures 2003 and 2004.

6. I am not aware of any material fact or material change with respect to the subject matter of this technical report, which is not reflected in the technical report; where such omission to disclose makes the technical report misleading.

_____

R. Allan Doherty, P.Geo.
March 25, 2020

Appendix I: Lil Claims, Soil Sample Descriptions and Assays

Sample #	Northing	Easting	Altit	Claim	Description	depth	Au	Ag	Cu	Pb	Zn
20161	600900	7103500	507	Lil39	grey soil, angular rock fragments		0.7	59	5.15	41.97	71.6
20162	600900	7103450		Lil39	grey soil, angular rock fragments		0.7	109	8.04	50.91	75.5
20163	600900	7103400	510	Lil39	pale grey soil, rare semi-oval rockb fragments		1.3	21	4.96	27.07	46.5
20164	600900	7103350		Lil39	grey clayey soil, rare semi-oval and angular rockb fragments		4.9	147	45.47	12.52	90.2
20165	600900	7103300	484	Lil39	stiff grey clay,		4.8	176	32.4	29.2	89.3
20166	600900	7103250		Lil39	dark grey clay oval pebbles up to 0.8 cm		6.6	234	54.97	15.16	98.8
201621	601400	7103200	478	Lil13	No sample, permafrost						
201622	601450	7103200		Lil13	brown stiff clay, permafrost	1	3.6	100	25.62	10.63	65.4
201623	601500	7103200	483	Lil13	brown-yellow sandy soil, rock fragments		3.1	107	27.38	12.72	68.3
201624	601550	7103200		Lil13	brown soil, till? Gravel, no sample						
201625	601600	7103200	511	Lil13	grey-brown soil, till? Gravel, no sample						
201626	601650	7103200		Lil13	stiff clay, below is grey & yellow soil, rock fragments		2.1	95	15.75	37.32	87.7
201627	601700	7103200	565	Lil13	brown soil, till? Gravel <3 cm, no sample						
201628	601750	7103200		Lil13	stiff grey clay, no pebbles		1.3	130	22.26	40.43	90.5
201629	601800	7103200	565	Lil14	brown soil, small rock fragments, no pebbles		4.2	173	40.79	19.23	96.1
201630	601850	7103200		Lil14	grey-clayey soil		7.8	286	35.75	15.75	101.8
201631	601900	7103200	564	Lil14	grey clayey soil		1	22	14.73	30.29	64.2
201632	601950	7103200		Lil14	decomposed rhyolite tuffite (?) with black shale incl.		0.8	16	16.04	68.45	134.8
201633	602000	7103200	542	Lil14	decomposed rhyolite tuffite (?) with black shale incl.		8	16	25.96	49.54	126.6
201634	602050	7103200		Lil14	decomposed rhyolite tuffite (?) with black shale incl.		0.9	68	9.28	37.81	52.6
201635	602100	7103200	475	Lil14	grey soil, volcanic rock fragments		1	37	7.12	27.32	37.7
201636	601400	7103300	477	Lil13	dark grey clay, no gravel		4.8	102	29.98	11.19	74.6
201637	601450	7103300		Lil13	dark grey clay, no gravel, chalcedony fragments	0.6	4.7	164	23.25	21.47	76.6
201638	601500	7103300	481	Lil13	grey clay, decomposed rock fragments		39.1	233	13.05	45.63	66
201639	601550	7103300		Lil13	grey clay, decomposed rock fragments		2.9	106	15.25	18.85	56.4

201640	601600	7103300	527	Lil13	light grey clay, rhyolite porphyry fragments	0.6	2.3	143	16	50.22	86.9
201641	601650	7103300		Lil13	light grey clay, rhyolite porphyry fragments		0.7	48	16.64	29.66	148.8
201642	601700	7103300	559	Lil13	light grey clay, rhyolite porphyry fragments	0.6	<0.2	22	8.56	28.85	84.1
201643	601750	7103300		Lil13	greenish-grey, decomposed tuffite (?)		0.3	16	18.9	31.79	63.3
201644	601800	7103300	556	Lil14	greenish-grey, decomposed tuffite (?), black shale fragm.		0.9	46	4.65	48.29	87.9
201645	601850	7103300		Lil14	grey soil, decomposed rock fragments	0.5	<0.2	11	11.78	35.82	74.3
201646	601900	7103300	512	Lil14	grey soil, decomposed rock fragments	0.5	0.3	16	7.57	33.45	75.8
201647	601950	7103300		Lil14	grey soil, decomposed rock fragments	0.6	1.1	40	9.17	24.8	64
201648	602000	7103300	494	Lil14	dark grey clay, rock fragments, one pebble, waterlogged	0.6	<0.2	316	12.34	48.83	115.8
201649	602050	7103300		Lil14	dark grey clay, rock fragments, one pebble, waterlogged	0.6	<0.2	118	10.39	26.55	74.9
201650	602100	7103300		Lil14	dark grey clay, rock fragments, pebbles, waterlogged, no sample						
201651	601400	7103400	431	Lil13	grey clayey soil, rock fragments		3.7	82	7.79	44.61	111.6
201652	601450	7103400		Lil13	grey clayey soil, rock fragments	0.5	3.1	29	5.49	46.01	86.5
201653	601500	7103400	537	Lil13	grey clayey soil, rock fragments	0.6	0.2	171	25.53	36.07	64.2
201654	601550	7103400		Lil13	brown clayey soil, rock fragments	0.6	0.2	132	17.91	32.45	77
201655	601600	7103400	512	Lil13	grey clayey soil, rock fragments	0.5	4.1	212	25.18	29.08	64.8
201656	601650	7103400		Lil13	grey to dark grey clayey soil, rock fragments	0.6	4.5	156	21.59	13.34	51.2
201657	601700	7103400	555	Lil13	grey to dark grey clayey soil		2.1	38	9.29	12.27	46.4
201658	601750	7103400		Lil13	dark grey, stiff clayey soil, rock fragments		0.3	179	17.15	38.2	123.5
201659	601800	7103400	517	Lil14	dark grey, stiff clayey soil, rock fragments, waterlogged	0.5	0.8	144	11.75	39.92	147.8
201660	601850	7103400		Lil14	dark grey, stiff clayey soil, rock fragments, waterlogged	0.5	<0.2	216	15	29.21	99.6
201661	601900	7103400	478	Lil14	grey clayey soil, rock fragments, waterlogged	0.5	2.3	105	11.32	17.93	71.3
201662	601950	7103400		Lil14	grey clayey soil, rock fragments	0.6	<0.2	154	18.74	20.16	83.8
201663	602000	7103400	465	Lil14	grey, very wet clayey soil, rock fragments	0.6	1.9	97	12.45	22.31	67.4
201664	602050	7103400		Lil14	dark grey, stiff clayey soil, rock fragments		1.9	150	11.72	16.33	64.6
201665	602100	7103400	453	Lil14	dark grey, stiff clayey soil	0.6	1.1	139	10.66	22.49	92.9
201666	601400	7103500		Lil13	brown-grey sandy soil	0.6	3.1	61	27.03	14.29	66.6
201667	601450	7103500		Lil13	greenish-grey soil, numerous rock fragments	0.6	1.5	69	55.88	22.27	130.7

201668	601500	7103500	501	Lil13	grey, wet, stiff clayey soil, few rock fragments		2.3	212	26.06	21.69	68
201669	601550	7103500		Lil13	grey soil, decomposed rocks	0.5	0.3	563	52.84	35.74	143.2
201670	601600	7103500	534	Lil13	grey soil, numerous rock fragments	0.3	<0.2	165	12.3	14.58	89.6
201671	601650	7103500		Lil13	grey clayey soil mottled with yellow		0.8	305	62.07	23.04	137.5
201672	601700	7103500	521	Lil13	grey stiff clay mottled with yellow		1.5	103	23.16	23.5	77.1
201673	601750	7103500		Lil13	dark to black stiff clay, one round pebble		1.6	150	19.36	32.68	50.3
201674	601800	7103500	493	Lil14	grey stiff clay with rock fragments	0.6	0.3	70	9.81	23.77	66.3
201675	601850	7103500		Lil14	dark to black stiff clay, one round pebble	0.6	1	282	20.34	19.42	94.4
201676	601900	7103500	480	Lil14	dark to black stiff clay, one round pebble	0.6	0.3	169	25.57	25.71	125.2
201677	601950	7103500		Lil14	dark to black stiff clay, decomposed rock fragments	0.6	1.1	173	15.47	40.33	101
201678	602000	7103500	456	Lil14	grey to dark grey clayey soil		0.9	160	18.45	19.94	81.8
201679	602050	7103500		Lil14	grey to dark grey clayey soil	0.6	<0.2	69	7.72	19.71	54.6
201680	602100	7103500	442	Lil14	black mud, permafrost	0.7					
	601400	7103100			gravel, no sample						
	601450	7103100			gravel, no sample						
	601500	7103100			gravel, no sample						
	601550	7103100			gravel, no sample						
201685	601600	7103100	503	Lil13	grey clayey soil, rock fragments, oval, angular		1	215	7.81	42.64	76.7
201686	601650	7103100		Lil13	grey-pea-green clayey soil, rock fragments, pebbles		<0.2	187	10.72	28.42	47.5
201687	601700	7103100	541	Lil13	grey soil, grey-greenish rock fragments		1.1	176	26.51	35.21	89.4
201688	601750	7103100		Lil13	brown clayey soil		2.1	59	39.53	30.53	71.1
201689	601800	7103100	556	Lil14	brown clayey soil		8.1	83	33.19	14.84	63.1
201690	601850	7103100		Lil14	brown soil, oval and angular rock fragments		5.5	111	37.86	13.09	66.3
201691	601900	7103100	552	Lil14	pale grey-brown clayey soil, small pebbles		3.1	170	6.05	43.9	79.6
	601950	7103100			gravel, no sample						
	602000	7103100			gravel, no sample						
	602050	7103100			gravel, no sample						
	602100	7103100			gravel, no sample						

2016300	600900	7103550	470	Lil41	green-grey soil, scarce rock fragments	0.5	1.5	263	6.48	47.78	61.4
2016301	600900	7103600	516	Lil41	green-grey clayey soil, scarce rock fragments	0.6	5	206	19.23	61.2	210.4
2016302	600900	7103650	507	Lil41	dark grey clayey soil, yellow, green rock frag.	1	4.8	245	41.12	39.03	118.7
2016303	600900	7103700	501	Lil41	green-grey soil, rock fragments	1	3.8	178	29.76	19.86	85.2
2016304	600900	7103750	500	Lil41	green-grey soil, rock fragments	1	3.1	88	15.32	32.26	52.3
2016305	600900	7103800	500	Lil41	brown, dry soil, scarce rock fragments	0.6	3.7	110	12.28	11.12	35.5
2016306	600900	7103850	492	Lil41	brown, dry soil, scarce rock fragments	0.6	2.5	176	9.55	32.62	34.3
2016307	600900	7103900	484	Lil41	brown, dry, very rocky soil, volcanic fragments	0.4	2.4	83	5.45	34.85	59.6
2016308	600800	7103900	473	Lil40	black soil, permafrost, no sample						
2016309	600800	7103850	474	Lil40	green-grey clayey soil, rock fragments	1	3.9	174	24.11	23.97	102.8
2016310	600800	7103800	483	Lil40	dark-grey stiff, clayey soil, rock fragments	1.1	2.7	201	36.9	20.58	88.8
2016311	600800	7103750	489	Lil40	green-grey clayey soil, rock fragments	0.5	3.9	63	20.67	36.68	79.8
2016312	600800	7103700	500	Lil40	grey-brownish clayey soil, rock fragments	0.5	<0.2	78	14.21	23.59	53.5
2016313	600800	7103650	502	Lil40	khaki-green clayey soil, rock fragments	0.6	0.4	73	13.68	37.59	73.2
2016314	600800	7103600	516	Lil40	khaki-green clayey soil, rock fragments	0.6	<0.2	332	23.69	45.72	66
2016315	600800	7103550	523	Lil40	dark-grey stiff, clayey soil, rock fragments	0.8	9.8	160	28.03	10.38	67.3
2016316	600800	7103500	535	Lil40	grey to mustard stiff, clayey soil, decomposed rock frag.	0.5	0.6	54	14.81	26.33	61
2016317	600800	7103450	541	Lil38	khaki-green-grey, mottled clayey soil, rock fragments	0.6	<0.2	150	14.08	67.8	153.5
2016318	600800	7103400	531	Lil38	grey, stiff, clayey soil, rock fragments	0.5	0.5	141	20.68	49.48	134.9
2016319	600800	7103350	533	Lil38	grey, dry soil, white rock fragments, one oval pebble (3 cm)	0.5	0.4	223	22.46	54.6	83.6
2016320	600800	7103300	524	Lil38	grey to dark grey soil, rock fragments	1.1	2.4	337	55.98	8.66	113.9
2016321	600800	7103250	517	Lil38	grey to dark grey soil, rock fragments	1.1	5.7	462	69.9	19.3	120.6
2016322	600700	7103900	441	Lil40	gravel, no sample						
2016323	600700	7103850	490	Lil40	trench, big push pile with rounded gravel < 30 cm, no sample	1	2.5	155	41.19	17.37	82.8
2016324	600700	7103800	494	Lil40	dark grey clayey soil	0.6	1.4	372	43.66	43.67	53.5
2016325	600700	7103750	498	Lil40	dark grey clayey soil, yellow, decomposed rock fragments	0.8	18.6	388	26.38	20.15	70.1
2016326	600700	7103700	508	Lil40	grey clayey soil, decomposed rock fragments	0.6	1.1	256	33.75	28.66	59.2
2016327	600700	7103650	514	Lil40	grey clayey soil, decomposed rock fragments	0.6	2.3	300	55.1	40.49	92

2016328	600700	7103600	525	Lil40	khaki-brown stiff, clayey soil, scarce rock fragments	0.6	3.4	86	33.02	22.31	69.2
2016329	600700	7103550	534	Lil40	dark-grey stiff, clayey soil, few decomposed rock fragments	0.6	<0.2	255	28.66	28.47	68.6
2016330	600700	7103500	547	Lil40	yellow stiff, clayey soil mottled with grey, decomp. Rocks	0.8	<0.2	19	11.67	24.09	27
2016331	600700	7103450	540	Lil38	grey and brown soil	1.2	1	274	60.61	19.84	88
2016332	600700	7103400	542	Lil38	green-grey soil, brown, yellow rock fragments	0.6	0.7	231	50.81	18.38	108.1
	600700	7103350	526	Lil38	gravel up to 5 cm, no sample	0.5					
	600600	7103350	530	Lil38	gravel, brown soil, no sample	0.5					
	600600	7103400	536	Lil38	gravel, brown soil, no sample	0.5					
	600600	7103450	535	Lil38	gravel, brown soil, no sample	0.5					
	600600	7103500	553	Lil38	gravel, brown soil, no sample	0.5					
	600600	7103550	549	Lil40	gravel, brown soil, no sample	0.5					
	600600	7103600	539	Lil40	gravel, brown soil, no sample	0.6					
	600600	7103650	533	Lil40	gravel, dark grey clayey soil, no sample	0.6					
	600600	7103700	525	Lil40	gravel up to 3 cm, dark grey clayey soil, no sample	0.4					
	600600	7103750	514	Lil40	gravel up to 5 cm, dark grey clayey soil, no sample	0.4					
	600600	7103800	506	Lil40	gravel up to 5 cm, dark grey clayey soil, no sample	0.3					
	600600	7103850	499	Lil40	gravel, dark grey clayey soil, no sample	0.4					
	600600	7103900	491	Lil40	gravel, dark grey clayey soil, no sample	0.4					

Appendix II: Kate Claims, Soil Sample Descriptions and Assays

Sample #	Easting	Northing	Altit	SampleType	Colour	Rock %	Text.	Hrz	Depth(m)	Shape	Au	Ag	Cu	Pb	Zn
1509328	594927	7101002	606.3	Colluvium	Grey	10-30%	Silt	C	1	Angular	2.5	37	14.81	15.63	105
1509330	594855	7100790	565.2	Colluvium	Grey	10-30%	Silt	C	0.6	Angular	1.1	301	37.04	20.01	118.8
1509331	594785	7100864	581.7	Colluvium	Brown	10-30%	Silt	C	0.6	Angular	0.4	29	8.07	14.32	60.7
1509332	594711	7100930	587	Colluvium	Grey	10-30%	Silt	C	1	Angular	3.2	257	50.8	16.7	111.9
1509333	594995	7100931	601.4	Colluvium	Brown	10-30%	Silt	B	0.4	Angular	1	28	11.82	14.52	89.9
1509334	595072	7100864	599.4	Colluvium	Brown	10-30%	Silt	C	1	Angular	3.1	33	15.75	14.22	82.6
1509335	595143	7100794	594.7	Colluvium	Brown	10-30%	Silt	C	0.4	Angular	<0.2	27	11.02	16.13	69.3
1509345	594924	7100864	590.3	Colluvium	Grey	10-30%	Sand	C	1.2	Angular	1.5	771	110.44	39.41	210.7
1509346	594852	7100932	599.1	Colluvium	Brown	30-50%	Silt	C	0.7	Angular	2	67	25.58	22.29	93.2
1509347	594778	7101003	604.4	Colluvium	Brown	10-30%	Silt	C	0.9	Angular	1.7	28	20.99	18.69	83.3
1509348	594849	7101075	613.6	Colluvium	Brown	10-30%	Sand	C	0.6	Sub Angular	4.5	8	7.98	14.72	65.9
1509349	594918	7101153	631	Colluvium	Brown	30-50%	Silt	C	0.3	Sub Angular	0.4	20	6.63	16.87	57.6
1509350	594994	7101077	636.8	Colluvium	Brown	30-50%	Sand	C	0.5	Angular	<0.2	<2	6.36	25.2	184.2
1509358	595218	7100719	587	Colluvium	Brown	10-30%	Silt	C	1	Angular	3.4	130	32.1	11.04	74.5
1509359	595286	7100658	607.1	Colluvium	Grey	<10%	Clay	B	0.4		2.3	97	19.42	10.33	63.7
1509360	595500	7100446	616.2	Colluvium	Grey	<10%	Clay	B	1.2		6.3	126	32.82	12.55	70.3
1509361	595214	7100443	588.5	Colluvium	Grey	10-30%	Clay	B	0.9		4.9	91	23.54	11.51	58.3
1509362	595142	7100513	593.9	Colluvium	Brown	<10%	Clay	B	0.8		4.9	96	29.92	16.25	75.7
1509363	595070	7100583	571.6	Colluvium	Brown	10-30%	Silt	B	0.5	Angular	3.4	73	18.35	14.94	61.4
1509364	594922	7100724	561	Colluvium	Grey	10-30%	Silt	C	1.2	Angular	5.8	978	67.85	21.1	158.7
1509365	595131	7101075	635.4	Colluvium	Brown	10-30%	Silt	C	0.8	Angular	1.9	32	27.72	20.85	88.9
1509366	595131	7101075	635.4	Duplicate of 1509365					0		3	36	29.62	20.3	96.4
1509367	595060	7101146	633.2	Colluvium	Grey	30-50%	Silt	C	0.5	Angular	0.9	78	14.54	17.4	150.9
1509369	595204	7101005	629.3	Colluvium	Brown	10-30%	Silt	C	0.6	Angular	4.3	29	16.39	19.21	121.2
1509370	595274	7100932	629.5	Colluvium	Brown	10-30%	Silt	C	1	Angular	5.5	28	28.47	19.1	82.5
1509371	595345	7100869	616.8	Colluvium	Grey	10-30%	Silt	C	0.4	Angular	16.1	36	8.78	16.05	48.5

1509372	595560	7101090	675.4	Colluvium	Brown	<10%	Sand	C	1.1	Sub Angular	2.9	74	19.91	7.96	58.7
1509373	595488	7101153	664.7	Colluvium	Grey	10-30%	Silt	C	0.4	Angular	5.5	17	5.11	11.69	61
1509374	595422	7101229	679.1	Colluvium	Brown	10-30%	Silt	C	0.5	Angular	2.7	51	11.4	16.89	88.7
1509376	595065	7101005	646.5	Colluvium	Grey	10-30%	Sand	C	0.6	Angular	2.2	8	11.66	24.14	134.6
1509377	595137	7100936	625.1	Colluvium	Grey	30-50%	Silt	C	0.2	Angular	2.5	42	8.4	15.12	59.1
1509378	595210	7100869	612.4	Colluvium	Brown	30-50%	Silt	B	0.4	Angular	4.4	33	22.72	20.94	74.8
1509379	595350	7100727	605.1	Colluvium	Grey	<10%	Clay	B	1		3.6	77	18.3	9.06	53.9
1509380	595424	7100660	618.7	Colluvium	Grey	<10%	Silt	B	0.9		6.9	109	30.12	10.24	75.9
1509381	595496	7100588	627.7	Colluvium	Grey	10-30%	Clay	B	0.9	Angular	7.1	119	22.91	11.69	56.4
1509382	595568	7100519	626.8	Colluvium	Grey	<10%	Clay	B	1		5.6	133	27.36	12.17	62.1
1509383	595428	7100377	605.5	Colluvium	Grey	<10%	Clay	B	1	Angular	2.7	102	24.81	19.5	74
1509384	595354	7100448	601.7	Colluvium	Grey	10-30%	Clay	B	1.2	Angular	4.7	95	22.95	12.9	67.5
1509385	595283	7100517	597.4	Colluvium	Grey	<10%	Silt	B	1.2	Angular	3.6	130	30.69	12.4	65.2
1509386	595212	7100584	584.9	Colluvium	Grey	<10%	Silt	B	0.4		2.6	64	20.14	8.43	54.9
1509387	595140	7100655	579.2	Colluvium	Grey	<10%	Silt	B	0.4	Angular	3.3	64	16.01	12.33	62.2
1509388	595058	7100735	569.9	Colluvium	Grey	<10%	Silt	B	1.2		2.7	130	32.79	10.93	84.2
1509389	594996	7100795	574.5	Colluvium	Grey	30-50%	Sand	C	0.5	Angular	10.8	1658	93.99	16.77	215.5
1509390	595203	7101148	666.5	Colluvium	Brown	30-50%	Silt	B	0.3	Angular	2.4	106	29.32	20.64	83.7
1509391	595203	7101148	666.5	Duplicate of 1509390					0		2.4	113	30.28	18.69	85.8
1509392	595128	7101221	658.8	Colluvium	Brown	30-50%	Sand	C	0.3	Angular	7.1	32	11.38	11.98	88.7
1509393	595058	7101290	660.1	Colluvium	Brown	30-50%	Sand	C	0.3	Angular	7.7	32	10.69	11.99	113.2
1509394	594993	7101218	642.6	Colluvium	Brown	30-50%	Silt	C	0.3	Angular	4.5	15	22.96	18.48	77.1
1509397	595273	7101081	645	Colluvium	Brown	10-30%	Sand	C	0.4	Sub Angular	2.2	28	18.56	22.81	125.6
1509398	595349	7101009	641.4	Colluvium	Grey	10-30%	Sand	C	0.5	Sub Angular	1	16	6.74	9.99	55.1
1509399	595418	7101082	639.9	Colluvium	Brown	10-30%	Sand	C	0.5	Angular	1.2	26	15.92	17.53	93.9
1509400	595347	7101153	667.5	Colluvium	Grey	30-50%	Sand	C	0	Angular	4.5	14	12.93	17.52	104.1
1509401	595269	7101368	687.2	Colluvium	Grey	30-50%	Silt	C	0.4	Angular	2.1	11	8.9	11.19	98.3
1509402	595340	7101433	703.7	Colluvium	Grey	30-50%	Silt	C	0.4	Angular	1.3	<2	5.9	13.35	114.2

1509403	595415	7101361	695.1	Colluvium	Green	30-50%	Silt	C	1	Angular	<0.2	<2	3.48	24.45	183.8
1509404	595481	7101299	691.8	Colluvium	Brown	30-50%	Silt	B	0.4	Angular	0.4	<2	3.6	23.99	191.7
1509405	595481	7101299	691.8	Duplicate of 1509404					0		2.7	18	11.46	14.24	106.2
1509406	595556	7101224	687.1	Colluvium	Brown	30-50%	Sand	C	0.7	Angular	1.6	25	9.11	34.78	138.2
1509407	595631	7101161	672	Colluvium	Brown	30-50%	Silt	C	0.9	Angular	3.5	81	22.2	14.94	87.2
1509408	596052	7101015	751.4	Colluvium	Grey	<10%	Clay	C	1.2	Sub Angular	4.1	178	28.85	13.14	69
1509409	595985	7101099	695.7	Colluvium	Grey	<10%	Clay	C	1.1	Angular	3.8	148	31.91	14.97	72.3
1509410	595915	7101157	705.2	Colluvium	Brown	<10%	Clay	B	0.7	Sub Angular	6.1	30	23.71	14.68	71
1509411	595835	7101231	702.7	Colluvium	Brown	10-30%	Silt	C	0.8	Angular	3.9	41	17.99	16.71	92
1509412	595770	7101301	716.4	Colluvium	Orange	30-50%	Sand	C	0.4	Angular	<0.2	7	3.61	8.96	93.9
1509413	595761	7101270	690	Colluvium	Orange	10-30%	Sand	C	0.8	Angular	<0.2	6	3.96	21.81	77.7
1509414	595626	7101440	714.1	Colluvium	Brown	30-50%	Silt	C	0.5	Angular	1.1	92	15.3	17.14	75.3
1509415	595552	7101510	723.4	Colluvium	Brown	30-50%	Silt	C	0.4	Angular	0.7	116	9.63	19.21	124
1509416	595477	7101577	739.1	Colluvium	Brown	10-30%	Silt	C	0.4	Angular	<0.2	12	11.82	12.42	61.9
1509417	595619	7101582	744.1	Colluvium	Brown	30-50%	Gravel	C	0.3	Angular	<0.2	35	12.45	16.17	82.5
1509418	595694	7101369	719.7	Colluvium	Brown	30-50%	Silt	C	0.5	Angular	1	12	12.9	21.26	94.6
1509419	595397	7101654	705.4	Colluvium	Brown	30-50%	Silt	C	0.5	Angular	2.6	19	14.38	13.91	70.7
1509426	596131	7100944	728.9	Colluvium	Grey	50-70%	Gravel	C	1.1	Angular	2.2	91	25.38	51.93	261.9
1509427	596199	7100878	734.5	Colluvium	Green	30-50%	Silt	C	0.9	Angular	4.4	161	40.63	29.45	316.2
1509428	596274	7100801	740.9	Colluvium	Grey	10-30%	Silt	C	1	Angular	1.1	86	25.16	54.69	116.2
1509429	596342	7100740	750.4	Colluvium	Grey	30-50%	Silt	C	0.9	Angular	1.8	179	14.93	16.58	119.7
1509430	596415	7100668	763.3	Colluvium	Grey	30-50%	Silt	C	0.8	Angular	3.7	350	60.96	53.85	177.7
1509431	596490	7100597	775.9	Colluvium	Grey	30-50%	Silt	C	1.1	Angular	2.2	139	40.25	19.99	249.9
1509432	596558	7100536	772.1	Colluvium	Grey	30-50%	Silt	C	1.2	Angular	1.7	115	41.14	14.81	388.4
1509433	596637	7100462	783.2	Colluvium	Grey	30-50%	Silt	C	0.7	Angular	4.9	70	37.61	15.97	72
1509434	596707	7100393	787.3	Colluvium	Brown	<10%	Clay	B	1.2		10.6	105	39.66	12.31	68.5
1509435	596781	7100322	797.7	Colluvium	Grey	30-50%	Silt	C	0.8	Angular	2.7	154	44.96	15.31	85.5
1509436	596850	7100401	801.9	Colluvium	Brown	30-50%	Silt	B	0.4	Angular	1.2	15	10.11	5.45	32.1

1509437	596765	7100754	763.3	Colluvium	Brown	10-30%	Clay	C	1.1	Angular	3.7	94	26.14	12.46	57.4
1509438	596625	7100893	744	Colluvium	Brown	<10%	Sand	B	1.2	Sub Rounded	2.1	115	29.33	8.61	68.6
1509439	596343	7101173	726.1	Colluvium	Brown	10-30%	Sand	C	1.2	Angular	2.4	21	49.76	2.73	48
1509440	596343	7101173	726.1	Duplicate of 1509439					0		1.4	20	50.67	2.46	44.7
1509451	595273	7101219	665	Colluvium	Brown	30-50%	Sand	C	0.5	Angular	1.1	18	4.58	21.17	81.7
1509452	595204	7101288	672.2	Colluvium	Grey	30-50%	Sand	C	0.4	Angular	0.4	27	7.53	13.44	159.3
1509453	595128	7101361	663.8	Colluvium	Grey	10-30%	Sand	C	0.5	Angular	1.4	5	9.54	10.62	128.7
1509454	595196	7101429	684.9	Colluvium	Grey	10-30%	Sand	C	0.5	Sub Angular	1.4	10	7.11	13.45	95.5
1509455	595267	7101504	693.6	Colluvium	Grey	10-30%	Sand	C	0.4	Angular	0.8	24	8.52	10.32	95.6
1509456	595335	7101575	706.8	Colluvium	Brown	10-30%	Silt	B	1.2	Angular	9	38	30.82	14.94	75
1509457	595409	7101507	707.6	Colluvium	Brown	10-30%	Silt	B	0.7	Angular	3.1	37	25.6	12.76	71.3
1509458	595483	7101440	708.5	Colluvium	Grey		Gravel	C	0.4	Angular	1.4	36	7.84	12.44	100.3
1509459	595555	7101366	699	Colluvium	Brown	10-30%	Silt	B	0.2	Sub Angular	4.4	52	16.04	16.13	74.8
1509460	595617	7101299	704.1	Colluvium	Grey	10-30%	Sand	C	0.8	Angular	2	16	14.38	33.15	72.7
1509461	595700	7101229	688.9	Colluvium	Grey	10-30%	Sand	B	0.6	Sub Angular	2.2	89	20.86	21.31	80.5
1509462	595771	7101161	684.9	Colluvium	Grey	<10%	Silt	B	1.2		2.3	128	32.27	12.33	93.8
1509463	595842	7101089	674	Colluvium	Grey	<10%	Silt	B	1.2	Sub Angular	1.7	119	30.31	16.33	84.9
1509464	595914	7101022	697.3	Colluvium	Grey	<10%	Silt	B	1.2		1.5	108	31.5	9.73	75.5
1509465	595987	7100950	682.7	Colluvium	Grey	<10%	Silt	B	1.2		3.1	121	30.2	14.12	68.5
1509466	596123	7101095	709.8	Colluvium	Black	<10%	Silt	B	1.1	Angular	4.5	186	53.86	19.16	89.3
1509467	595909	7101303	723.1	Colluvium	Yellow	10-30%	Sand	C	0.4	Sub Rounded	0.3	99	11.49	16.89	110
1509468	595764	7101441	723.9	Colluvium	Yellow		Sand	C	0.6	Sub Rounded	1.7	24	15.67	20.53	110.2
1509469	596050	7101164	704.4	Colluvium	Grey	10-30%	Sand	C	1.2	Angular	<0.2	19	4.38	19.89	191.1
1509470	595979	7101233	712.7	Colluvium	Grey	30-50%	Gravel	C	0.4	Sub Angular	0.6	44	7.75	12.57	98.8
1509471	595835	7101373	733.5	Colluvium	Grey	10-30%	Sand	C	1	Angular	1.2	25	15.52	17.2	101.9
1509472	595835	7101373	733.5	Duplicate of 1509471					0		4.8	10	11.82	14.03	96.4
1509473	595691	7101510	737.2	Colluvium	Grey	10-30%	Sand	C	0.8	Angular	1.2	<2	3.61	27.48	117.9
1509474	595548	7101652	750.9	Colluvium	Grey	30-50%	Sand	C	0.4	Angular	2	27	22.37	11.04	86.2

1509475	595487	7101714	719.7	Colluvium	Grey	10-30%	Silt	B	0.4	Sub Angular	5	26	27.19	11.13	61.1
1509476	596264	7101096	741.8	Colluvium	Grey	30-50%	Sand	C	0.8	Angular	1.3	11	103.17	3.62	73.3
1509477	596337	7101029	732.7	Colluvium	Grey	10-30%	Clay	C	0.8	Angular	I.S.	I.S.	I.S.	I.S.	I.S.
1509478	596412	7100958	738.7	Colluvium	Brown	10-30%	Silt	C	1	Angular	0.4	81	122.73	2.04	476
1509479	596555	7100822	731.5	Colluvium	Grey	<10%	Silt	B	1.2		3.1	90	26.92	7.97	58.7
1509480	596624	7100752	744.6	Colluvium	Grey	<10%	Silt	B	1.2		3.9	105	23.78	9.82	50.3
1509481	596697	7100682	762.6	Colluvium	Grey	<10%	Silt	B	1.2	Angular	3	141	33.96	12.94	80.5
1509482	596768	7100610	790	Colluvium	Grey	<10%	Clay	B	1.1	Angular	I.S.	I.S.	I.S.	I.S.	I.S.
1509483	596843	7100542	798.6	Colluvium	Brown	10-30%	Clay	C	0.4	Angular	2.6	15	16.97	5.66	32.6
1509484	596913	7100472	794.9	Colluvium	Brown	10-30%	Clay	B	0.4	Sub Angular	1.9	22	12.82	7.9	37.7
1509485	596983	7100544	801.9	Colluvium	Brown	30-50%	Clay	B	0.3	Sub Angular	2.4	18	13.14	8.56	38.2
1509486	596911	7100612	796.9	Colluvium	Brown	10-30%	Clay	B	0.4	Sub Angular	2.7	29	25.27	10.28	48
1509487	597056	7100612	790	Colluvium	Brown	10-30%	Clay	B	0.4	Sub Angular	2.1	21	13.98	6.75	41.6
1509488	596983	7100678	786.3	Colluvium	Brown	30-50%	Clay	B	0.5	Sub Angular	6	20	23.34	6.56	37.4
1509489	596840	7100683	781	Colluvium	Brown	10-30%	Clay	B	0.9	Sub Angular	4.2	83	25.75	9.87	54.8
1509490	596910	7100747	772.6	Colluvium	Brown	10-30%	Clay	B	0.5	Sub Angular	4.8	25	25.92	8.7	47.5
1509491	596835	7100815	775.1	Colluvium	Grey	10-30%	Clay	B	0.6	Sub Angular	4.6	106	27.29	11.97	67.8
1509492	596678	7100986	732.4	Colluvium	Grey	<10%	Silt	B	1.2		2.3	92	28.82	8.23	67.4
1509493	596405	7101234	694.1	Colluvium	Brown	10-30%	Silt	C	0.5	Sub Angular	1.7	14	24.92	5.54	33.8
1509494	596405	7101234	694.1	Duplicate of 1509493					0		5.1	19	27.11	6.34	37.6
1510001	596198	7101028	758.1	Colluvium	Black	10-30%	Sand	C	1.2	Sub Rounded	12.4	753	27.26	39.98	37.9
1510002	596269	7100955	744.8	Colluvium	Grey	10-30%	Sand	B	0.8	Angular	5.2	417	16.77	18.57	37.4
1510003	596342	7100887	731.5	Colluvium	Black	30-50%	Sand	C	0.7	Sub Angular	7.3	296	38.27	29.21	110.9
1510004	596411	7100820	741	Colluvium	Black	10-30%	Sand	C	1	Angular	4.7	33	11.28	15.88	45.5
1510005	596486	7100748	725.6	Colluvium	Brown		Silt	B	1.2	Rounded	4.3	117	13.35	28.14	64.9
1510006	596558	7100676	753.3	Colluvium	Brown	<10%	Silt	B	1.2	Sub Rounded	2.9	80	18.48	10.43	73
1510007	596630	7100610	781.8	Colluvium	Brown		Silt	B	1.2	Rounded	1.4	42	8.82	18.34	50.2
1510008	596701	7100541	775.4	Colluvium	Brown	<10%	Silt	B	1.2	Sub Angular	2.8	58	9.35	17.93	54.1

1510009	596773	7100473	803.5	Colluvium	Brown	10-30%	Silt	B	0.4	Sub Angular	2.3	201	12.98	30.58	63.2
1510010	596766	7100888	716.3	Colluvium	Brown		Silt	B	0.4	Sub Rounded	1.4	37	11.86	29.66	67
1510011	596473	7101161	683.8	Colluvium	Yellow	10-30%	Sand	C	0.6	Sub Rounded	0.4	86	10.87	20.32	51.7

Appendix III: Lil Claims, Rock Sample Descriptions and Assays

Sample #	Easting	Northing	Description	Au	Ag	Cu	Pb	Zn
559652	601075	7103729	outcrop, rhyolite porphyry with opal	<0.2	82	1.17	19.9	59.3
559653	601519	7103769	outcrop, dark grey porphyry (?), chalcedony,	<0.2	37	28.21	2.06	65.7
559654	601932	7103190	O., rhyolite porphyry (?)	<0.2	47	1.09	12.32	47.9
559655	601832	7103301	float, boulders of rhyolite (?), green streaks, chalcedony, biotite	<0.2	55	1.49	17.69	40.3
559656	601686	7103500	SC, black shale with green quartz	1.7	363	14.28	10.87	62.3
559657	601705	7103499	SC., dark to black porphyry (?) stained by graphite (?), magnetic	1.1	42	33.58	7.13	132.9
559677	601285	7103950	O., dark grey-brown, med. Gr. mafic rock (diabase ?)	<0.2	21	22.93	1.7	77.2
559678	602424	7103019	Drill core, listwenite (?)	14.6	87	100.49	1.4	21.7
559679	602455	7103114	O., green, brown, yellow listwenitized serpentinite	2.1	6	4.57	0.27	12.9
559680	602497	7103081	Float, boulder 1.5x1.5 m, listwenite (?), opaline & crystalline quartz	11.3	9	1.76	0.13	6

Whole Rock Analysis

Sample#	Easting	Northing	Description	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3
559658	601283	7103948	O., Germaine creek, dark mafic rock (diabase?)	47.56	15.02	11.05	4.47	9.02	2.88	1.23	2.37	0.59	0.18	0.023
559676	601046	7103696	O., rhyolite porphyry (?), quartz "clasts", biotite	77.18	11.64	1.37	0.02	0.17	2.42	6.5	0.07	0.03	0.02	<0.002

Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	Sum
583	41	411	261	41	20	25	5.3	99.86
99	<20	3	138	56	56	1	0.5	99.95

APPENDIX IV: Claims List							
Grant #	Cl. Name	Claim #	Claim Owner	StakingDate	ClaimExpiryDate	Status	NTS Map #
YF48419	Kate	1	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48420	Kate	2	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48421	Kate	3	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48422	Kate	4	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48423	Kate	5	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48424	Kate	6	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48425	Kate	7	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48426	Kate	8	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48427	Kate	9	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48428	Kate	10	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48429	Kate	11	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48430	Kate	12	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48431	Kate	13	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48432	Kate	14	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48433	Kate	15	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48434	Kate	16	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48435	Kate	17	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48436	Kate	18	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48437	Kate	19	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48438	Kate	20	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48439	Kate	21	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48440	Kate	22	Small Hydro Investments Ltd. - 100%	12/8/2015	12/11/2021	Application Pending	116B03
YF48441	Kate	23	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48442	Kate	24	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48443	Kate	25	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48444	Kate	26	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48445	Kate	27	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48446	Kate	28	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48447	Kate	29	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48448	Kate	30	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48449	Kate	31	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
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YF48451	Kate	33	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48452	Kate	34	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48453	Kate	35	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48454	Kate	36	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48455	Kate	37	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48456	Kate	38	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48457	Kate	39	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48458	Kate	40	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48459	Kate	41	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48460	Kate	42	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03

YF48461	Kate	43	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48462	Kate	44	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48463	Kate	45	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48464	Kate	46	Small Hydro Investments Ltd. - 100%	12/7/2015	12/11/2021	Application Pending	116B03
YF48465	Kate	47	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48466	Kate	48	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48467	Kate	49	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48468	Kate	50	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48469	Kate	51	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48470	Kate	52	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48471	Kate	53	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48472	Kate	54	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B03
YF48473	Kate	55	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48474	Kate	56	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48475	Kate	57	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2021	Application Pending	116B03
YF48476	Kate	58	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2020	Application Pending	116B03
YF48477	Kate	59	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2020	Application Pending	116B03
YF48478	Kate	60	Small Hydro Investments Ltd. - 100%	12/8/2015	12/16/2020	Application Pending	116B03
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YF48498	Kate	80	Small Hydro Investments Ltd. - 100%	12/9/2015	12/11/2020	Application Pending	116B03
YF48499	Kate	81	Small Hydro Investments Ltd. - 100%	12/9/2015	12/11/2020	Application Pending	116B03
YF48500	Kate	82	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48501	Kate	83	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48502	Kate	84	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
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YF48504	Kate	86	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03

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YF48510	Kate	92	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48511	Kate	93	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48512	Kate	94	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
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YF48515	Kate	97	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48516	Kate	98	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48517	Kate	99	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48518	Kate	100	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48519	Kate	101	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48520	Kate	102	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48521	Kate	103	Small Hydro Investments Ltd. - 100%	12/9/2015	12/16/2020	Application Pending	116B03
YF48255	LIL	1	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48256	LIL	2	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48257	LIL	3	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48258	LIL	4	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48259	LIL	5	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48260	LIL	6	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48261	LIL	7	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48262	LIL	8	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48263	LIL	9	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48264	LIL	10	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48265	LIL	11	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48266	LIL	12	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48267	LIL	13	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48268	LIL	14	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48269	LIL	15	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48270	LIL	16	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48271	LIL	17	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48272	LIL Fr	18	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48273	LIL Fr	19	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48274	LIL	20	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48275	LIL	21	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48276	LIL	22	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48277	LIL	23	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48278	LIL	24	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48279	LIL	25	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48280	LIL	26	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48281	LIL	27	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02

YF48282	LIL	28	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48283	LIL	29	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48284	LIL	30	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48285	LIL	31	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48286	LIL	32	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48287	LIL	33	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48288	LIL	34	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48289	LIL	35	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48290	LIL	36	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48291	LIL	37	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48292	LIL	38	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48293	LIL	39	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48294	LIL	40	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48295	LIL	41	Small Hydro Investments Ltd. - 100%	12/3/2015	12/16/2021	Application Pending	116B02
YF48296	LIL	42	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
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YF48298	LIL	44	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48299	LIL	45	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48300	LIL	46	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48301	LIL	47	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48302	LIL	48	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48303	LIL	49	Small Hydro Investments Ltd. - 100%	12/4/2015	12/11/2021	Application Pending	116B02
YF48304	LIL	50	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48305	LIL	51	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48306	LIL	52	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48307	LIL	53	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48308	LIL	54	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48309	LIL	55	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48310	LIL	56	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48311	LIL	57	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48312	LIL	58	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48313	LIL	59	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48314	LIL	60	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48315	LIL	61	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48316	LIL	62	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48317	LIL	63	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48318	LIL	64	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48319	LIL	65	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48320	LIL	66	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48321	LIL	67	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48322	LIL	68	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48323	LIL	69	Small Hydro Investments Ltd. - 100%	12/4/2015	12/16/2021	Application Pending	116B02
YF48324	LIL	70	Small Hydro Investments Ltd. - 100%	12/5/2015	12/11/2021	Application Pending	116B02
YF48325	LIL	71	Small Hydro Investments Ltd. - 100%	12/5/2015	12/11/2021	Application Pending	116B02

YF48326	LIL	72	Small Hydro Investments Ltd. - 100%	12/5/2015	12/11/2021	Application Pending	116B02
YF48327	LIL	73	Small Hydro Investments Ltd. - 100%	12/5/2015	12/11/2021	Application Pending	116B02
YF48328	LIL	74	Small Hydro Investments Ltd. - 100%	12/5/2015	12/11/2021	Application Pending	116B02
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YF48330	LIL	76	Small Hydro Investments Ltd. - 100%	12/16/2015	12/16/2021	Application Pending	116B02
YF48331	LIL	77	Small Hydro Investments Ltd. - 100%	12/16/2015	12/16/2021	Application Pending	116B02
YF48332	LIL	78	Small Hydro Investments Ltd. - 100%	12/16/2015	12/16/2021	Application Pending	116B02
YF48333	LIL	79	Small Hydro Investments Ltd. - 100%	12/16/2015	12/16/2021	Application Pending	116B02
YF48334	LIL	80	Small Hydro Investments Ltd. - 100%	12/16/2015	12/16/2021	Application Pending	116B02
YF48335	LIL	81	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48336	LIL	82	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48337	LIL	83	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
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YF48339	LIL	85	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
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YF48341	LIL	87	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48342	LIL	88	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48343	LIL	89	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48344	LIL	90	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48345	LIL	91	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48346	LIL	92	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48347	LIL	93	Small Hydro Investments Ltd. - 100%	11/30/2015	12/11/2021	Application Pending	116B02
YF48348	LIL	94	Small Hydro Investments Ltd. - 100%	11/30/2015	12/11/2021	Application Pending	116B02
YF48349	LIL	95	Small Hydro Investments Ltd. - 100%	11/30/2015	12/11/2021	Application Pending	116B02
YF48350	LIL	96	Small Hydro Investments Ltd. - 100%	11/30/2015	12/11/2021	Application Pending	116B02
YF48351	LIL	97	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48352	LIL	98	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48353	LIL	99	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48354	LIL	100	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48355	LIL	101	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48356	LIL	102	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48357	LIL	103	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48358	LIL	104	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48359	LIL	105	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48360	LIL	106	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48361	LIL	107	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48362	LIL	108	Small Hydro Investments Ltd. - 100%	11/30/2015	12/16/2021	Application Pending	116B02
YF48363	LIL	109	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48364	LIL	110	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48365	LIL	111	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48366	LIL	112	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48367	LIL	113	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48368	LIL	114	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48369	LIL	115	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02

YF48370	LIL	116	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48371	LIL	117	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48372	LIL	118	Small Hydro Investments Ltd. - 100%	12/7/2015	12/16/2021	Application Pending	116B02
YF48373	LIL	119	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48374	LIL	120	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48375	LIL	121	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48376	LIL	122	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48377	LIL	123	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48378	LIL	124	Small Hydro Investments Ltd. - 100%	12/5/2015	12/16/2021	Application Pending	116B02
YF48380	LIL	126	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48381	LIL	127	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48382	LIL	128	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48383	LIL	129	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48384	LIL	130	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48385	LIL	131	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48386	LIL	132	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48387	LIL	133	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48388	LIL	134	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48389	LIL	135	Small Hydro Investments Ltd. - 100%	12/2/2015	12/11/2021	Application Pending	116B02
YF48390	LIL	136	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48391	LIL	137	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48392	LIL	138	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48393	LIL	139	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48394	LIL	140	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48395	LIL	141	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48396	LIL	142	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48397	LIL	143	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48398	LIL	144	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48399	LIL	145	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48400	LIL	146	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48401	LIL	147	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48402	LIL	148	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48403	LIL	149	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48404	LIL	150	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48405	LIL	151	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48406	LIL	152	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48407	LIL	153	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48408	LIL	154	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48409	LIL	155	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48410	LIL	156	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48411	LIL	157	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48412	LIL	158	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48413	LIL	159	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48414	LIL	160	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02

YF48415	LIL	161	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48416	LIL	162	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48417	LIL	163	Small Hydro Investments Ltd. - 100%	12/2/2015	12/16/2021	Application Pending	116B02
YF48418	LIL	164	Small Hydro Investments Ltd. - 100%	12/3/2015	12/11/2021	Application Pending	116B02

APPENDIX V
Assay Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Submitted By: Boris Molak
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: September 28, 2016
Page: 1 of 7

CERTIFICATE OF ANALYSIS WHI16000287.1

CLIENT JOB INFORMATION

Project: Kate
Shipment ID: BV16-07
P.O. Number
Number of Samples: 154

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	154	Dry at 60C			WHI
SS80	154	Dry at 60C sieve 100g to -80 mesh			WHI
AQ252	152	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	154	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: XyQuest Goldbank
604-889 Pender Street W
Vancouver British Columbia V6C 3B2
Canada

CC: Al Doherty

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 MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: September 28, 2016

CERTIFICATE OF ANALYSIS WHI16000287.1

		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	2	0.01	0.001
1509328	Soil		1.17	14.81	15.63	105.0	37	13.7	4.2	209	1.81	6.2	6.4	2.5	30.7	12.2	0.14	0.51	0.55	28	0.16	0.017
1509329	Soil		4.38	50.90	14.50	107.1	800	47.0	10.1	366	2.75	26.1	1.4	179.7	6.3	29.3	0.86	1.29	0.23	33	0.69	0.087
1509330	Soil		5.40	37.04	20.01	118.8	301	35.3	11.4	470	3.64	29.4	13.8	1.1	23.9	28.9	0.43	0.73	1.00	30	0.47	0.069
1509331	Soil		0.91	8.07	14.32	60.7	29	7.1	2.7	137	1.15	3.3	2.7	0.4	20.7	8.2	0.07	0.40	0.35	18	0.09	0.007
1509332	Soil		2.82	50.80	16.70	111.9	257	49.5	20.1	717	4.86	13.8	2.8	3.2	19.7	19.4	0.33	0.30	0.66	25	0.30	0.083
1509333	Soil		1.34	11.82	14.52	89.9	28	14.5	4.8	199	2.02	7.2	3.6	1.0	17.2	12.4	0.21	0.49	0.24	36	0.14	0.026
1509334	Soil		1.04	15.75	14.22	82.6	33	13.3	4.0	204	1.84	6.7	5.8	3.1	22.5	14.2	0.08	0.48	0.24	30	0.19	0.015
1509335	Soil		0.92	11.02	16.13	69.3	27	10.8	3.6	141	1.51	5.5	3.6	<0.2	23.2	11.4	0.09	0.44	0.41	29	0.13	0.015
1509340	Soil		29.33	206.49	30.91	381.4	2179	81.1	28.8	690	4.70	56.3	2.8	16.5	9.1	97.4	1.28	4.72	0.46	19	0.22	0.120
1509341	Soil		6.63	63.42	17.64	123.1	860	62.4	17.2	466	3.77	39.1	1.6	17.3	13.2	39.7	1.10	0.46	0.42	27	1.89	0.119
1509342	Soil		2.26	42.28	13.74	82.8	544	30.3	6.2	170	2.17	26.6	1.5	3.3	4.3	35.0	0.30	3.42	0.17	41	0.29	0.090
1509343	Soil		9.18	79.65	12.17	139.6	1069	59.5	15.4	331	2.97	26.9	2.4	28.9	9.0	30.1	0.69	0.72	0.22	24	0.40	0.087
1509344	Soil		5.25	39.79	20.85	117.2	1355	49.3	16.8	395	3.72	87.3	1.6	553.3	13.5	37.8	0.63	0.74	0.64	20	1.75	0.128
1509345	Soil		38.00	110.44	39.41	210.7	771	47.8	17.3	1213	3.89	45.7	13.4	1.5	23.4	37.7	1.74	1.32	0.70	52	0.29	0.116
1509346	Soil		1.95	25.58	22.29	93.2	67	17.9	4.6	214	2.20	9.0	6.9	2.0	29.1	15.2	0.14	0.80	0.54	31	0.17	0.015
1509347	Soil		1.54	20.99	18.69	83.3	28	15.0	3.8	149	1.96	6.5	5.3	1.7	26.5	15.3	0.11	0.65	0.46	29	0.18	0.018
1509348	Soil		0.96	7.98	14.72	65.9	8	7.8	2.3	129	1.31	3.7	2.8	4.5	22.5	10.1	0.11	0.40	0.42	21	0.12	0.014
1509349	Soil		0.96	6.63	16.87	57.6	20	6.5	2.5	173	1.28	3.8	2.9	0.4	20.3	8.3	0.11	0.30	0.43	23	0.09	0.010
1509350	Soil		2.29	6.36	25.20	184.2	<2	4.1	2.3	259	1.58	4.5	10.2	<0.2	47.0	5.8	0.17	0.40	1.89	7	0.05	0.007
1509355	Soil		6.27	68.76	22.32	132.1	864	55.7	13.6	485	3.45	26.6	2.2	11.1	8.3	44.3	1.13	1.06	0.35	52	1.37	0.081
1509356	Soil		3.05	49.41	11.32	112.8	531	54.6	14.5	523	3.50	17.6	2.0	8.7	6.5	33.2	0.47	0.69	0.19	54	0.54	0.066
1509357	Soil		3.26	50.05	4.73	118.5	1002	34.5	11.9	197	3.86	17.6	3.0	3.1	14.2	51.0	0.14	0.29	0.10	16	0.16	0.057
1509358	Soil		1.86	32.10	11.04	74.5	130	27.8	10.9	446	2.56	12.7	1.2	3.4	5.0	49.8	0.24	0.94	0.16	45	1.07	0.087
1509359	Soil		1.13	19.42	10.33	63.7	97	23.3	12.4	521	2.38	9.1	1.7	2.3	4.5	34.3	0.48	0.70	0.16	46	0.52	0.069
1509360	Soil		1.61	32.82	12.55	70.3	126	30.2	10.0	424	2.52	10.8	1.5	6.3	8.1	32.5	0.21	0.87	0.22	50	0.46	0.064
1509361	Soil		1.27	23.54	11.51	58.3	91	20.0	7.3	297	2.11	8.9	3.3	4.9	7.2	26.8	0.23	0.71	0.17	41	0.40	0.066
1509362	Soil		1.50	29.92	16.25	75.7	96	26.1	8.7	304	2.61	11.4	2.4	4.9	10.3	24.5	0.16	0.78	0.22	47	0.37	0.058
1509363	Soil		1.26	18.35	14.94	61.4	73	17.3	6.6	197	2.18	8.3	1.7	3.4	9.5	20.1	0.09	0.64	0.19	42	0.27	0.039
1509364	Soil		7.36	67.85	21.10	158.7	978	52.8	12.6	538	3.18	19.2	4.4	5.8	10.8	38.9	1.48	0.70	0.83	31	0.89	0.085
1509365	Soil		1.45	27.72	20.85	88.9	32	22.8	7.6	285	2.22	8.7	3.7	1.9	22.4	15.5	0.13	0.80	0.47	39	0.17	0.016

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Project: Kate
Report Date: September 28, 2016

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1509328	Soil	32.2	17.8	0.23	161.9	0.046	2	1.31	0.010	0.10	0.8	3.5	0.23	<0.02	26	2.7	<0.02	6.9
1509329	Soil	20.0	24.3	0.39	434.7	0.012	2	0.93	0.007	0.06	0.2	3.0	0.08	<0.02	72	2.4	0.09	3.1
1509330	Soil	45.8	22.7	0.47	103.7	0.003	2	2.35	0.009	0.10	1.2	5.1	0.30	<0.02	15	2.8	0.06	7.9
1509331	Soil	17.5	10.4	0.13	98.7	0.045	1	0.94	0.007	0.08	0.5	2.1	0.23	<0.02	9	0.6	<0.02	4.5
1509332	Soil	48.6	34.0	1.17	74.7	0.002	1	2.69	0.007	0.08	0.1	3.7	0.09	<0.02	10	0.7	0.06	7.8
1509333	Soil	15.1	21.1	0.27	178.6	0.048	1	1.37	0.008	0.09	0.6	3.1	0.23	<0.02	15	0.5	0.02	6.0
1509334	Soil	12.8	19.6	0.27	240.9	0.049	1	1.40	0.011	0.07	0.6	3.6	0.16	<0.02	17	0.6	<0.02	5.7
1509335	Soil	20.2	17.6	0.23	131.5	0.053	1	1.04	0.007	0.06	0.5	2.3	0.13	<0.02	15	0.7	<0.02	4.9
1509340	Soil	25.9	6.6	0.09	201.9	<0.001	2	0.27	0.036	0.10	0.3	2.6	0.31	0.23	142	7.0	0.45	0.8
1509341	Soil	38.9	33.0	0.84	313.4	0.002	1	1.24	0.005	0.08	<0.1	2.5	0.08	0.04	35	3.8	0.09	3.9
1509342	Soil	13.7	24.4	0.26	626.8	0.026	<1	0.98	0.008	0.04	0.3	3.4	0.07	<0.02	101	1.1	0.07	3.0
1509343	Soil	29.8	27.7	0.15	509.9	0.002	2	0.47	0.004	0.06	<0.1	2.8	0.13	0.02	65	5.2	0.20	2.1
1509344	Soil	45.5	23.2	0.57	158.0	0.002	1	0.87	0.029	0.08	<0.1	2.2	0.11	0.10	41	3.9	0.13	3.8
1509345	Soil	43.5	15.8	0.38	196.8	0.005	1	1.52	0.009	0.12	0.7	4.7	0.30	0.03	38	4.5	0.31	6.1
1509346	Soil	31.0	20.9	0.20	214.0	0.049	1	1.84	0.009	0.11	0.5	4.8	0.27	<0.02	30	1.9	<0.02	8.5
1509347	Soil	27.9	19.9	0.23	193.4	0.055	1	1.46	0.010	0.09	0.6	4.4	0.20	<0.02	29	1.5	<0.02	6.3
1509348	Soil	22.6	12.5	0.18	116.8	0.049	<1	0.82	0.008	0.07	0.6	2.5	0.17	<0.02	10	0.8	<0.02	4.5
1509349	Soil	16.2	10.8	0.14	112.0	0.041	<1	0.79	0.007	0.07	0.7	2.4	0.18	<0.02	8	0.5	<0.02	4.3
1509350	Soil	6.4	5.7	0.06	64.1	0.023	1	1.12	0.009	0.14	1.7	3.2	0.36	<0.02	5	0.8	<0.02	9.0
1509355	Soil	23.9	32.2	0.74	629.4	0.014	1	1.37	0.012	0.08	0.1	4.8	0.13	0.11	68	3.4	0.14	4.4
1509356	Soil	21.0	34.6	0.65	674.5	0.021	1	1.45	0.010	0.08	<0.1	5.5	0.14	0.05	44	1.6	0.09	4.5
1509357	Soil	38.8	25.8	0.95	90.2	<0.001	<1	1.49	0.030	0.08	<0.1	1.6	0.17	0.16	19	8.1	0.22	4.5
1509358	Soil	17.0	29.1	0.61	426.1	0.062	2	1.22	0.028	0.06	0.3	4.2	0.09	<0.02	40	0.5	0.03	3.6
1509359	Soil	16.6	27.4	0.48	286.1	0.057	<1	1.46	0.016	0.06	0.2	3.7	0.09	0.03	27	0.7	0.02	4.3
1509360	Soil	17.5	29.9	0.42	409.1	0.069	2	1.62	0.020	0.07	0.3	5.2	0.11	<0.02	40	0.4	0.03	5.0
1509361	Soil	17.4	24.8	0.38	353.1	0.053	2	1.29	0.014	0.06	0.3	3.9	0.09	<0.02	55	0.5	0.03	4.1
1509362	Soil	18.8	31.6	0.40	356.1	0.062	1	1.66	0.015	0.07	0.3	5.0	0.12	<0.02	46	0.5	0.03	5.1
1509363	Soil	17.0	29.0	0.38	264.2	0.058	1	1.60	0.009	0.06	0.2	3.7	0.13	<0.02	23	0.3	0.02	5.0
1509364	Soil	30.9	21.6	0.49	170.5	0.005	3	1.43	0.008	0.09	0.3	4.1	0.12	0.05	23	4.0	0.10	4.3
1509365	Soil	28.8	26.1	0.32	260.5	0.056	1	1.43	0.010	0.08	0.5	4.7	0.14	<0.02	34	1.2	<0.02	5.1

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Project: Kate
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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	2	0.01	0.001
1509366	Soil		1.63	29.62	20.30	96.4	36	24.0	8.1	302	2.39	9.9	4.1	3.0	25.5	17.2	0.13	0.87	0.51	42	0.17	0.016
1509367	Soil		2.22	14.54	17.40	150.9	78	10.3	3.4	253	2.06	5.4	5.8	0.9	36.2	8.1	0.12	0.41	0.14	24	0.07	0.016
1509368	Soil		0.93	39.13	14.25	77.9	17	36.6	7.8	148	2.10	10.8	1.0	7.8	6.7	9.8	0.15	0.82	0.20	37	0.09	0.014
1509369	Soil		1.33	16.39	19.21	121.2	29	14.9	5.3	205	2.07	8.5	7.6	4.3	39.1	11.3	0.13	0.52	1.56	32	0.13	0.017
1509370	Soil		1.76	28.47	19.10	82.5	28	22.5	7.1	231	2.42	9.1	4.0	5.5	24.9	15.2	0.10	0.73	0.29	48	0.17	0.012
1509371	Soil		1.13	8.78	16.05	48.5	36	11.4	3.8	136	1.60	6.4	2.6	16.1	13.5	14.9	0.19	0.35	0.34	36	0.21	0.028
1509372	Soil		0.92	19.91	7.96	58.7	74	22.7	8.2	242	2.00	7.4	0.7	2.9	5.0	26.7	0.17	0.71	0.13	39	0.49	0.080
1509373	Soil		0.73	5.11	11.69	61.0	17	6.0	2.0	112	1.16	2.8	3.5	5.5	19.6	7.7	0.04	0.24	0.23	18	0.12	0.012
1509374	Soil		1.22	11.40	16.89	88.7	51	14.6	6.4	268	2.34	8.3	3.3	2.7	15.2	10.0	0.17	0.44	0.31	49	0.11	0.020
1509375	Soil		1.83	10.41	16.19	135.0	35	13.2	4.7	240	2.16	12.1	3.9	1.7	26.0	8.0	0.14	0.41	0.69	28	0.08	0.017
1509376	Soil		1.27	11.66	24.14	134.6	8	8.2	2.9	175	1.55	5.2	8.4	2.2	39.3	8.0	0.11	0.40	0.39	17	0.07	0.007
1509377	Soil		0.98	8.40	15.12	59.1	42	9.2	3.6	195	1.38	5.1	2.2	2.5	17.6	8.6	0.09	0.36	0.26	28	0.11	0.016
1509378	Soil		1.25	22.72	20.94	74.8	33	22.9	7.3	206	2.49	13.4	5.4	4.4	29.6	14.6	0.13	0.75	0.34	47	0.16	0.015
1509379	Soil		0.95	18.30	9.06	53.9	77	18.4	6.7	211	1.97	8.0	1.6	3.6	4.4	26.1	0.12	0.59	0.14	38	0.41	0.060
1509380	Soil		1.32	30.12	10.24	75.9	109	29.9	10.4	386	2.43	11.0	0.6	6.9	4.9	34.1	0.26	0.83	0.18	46	0.78	0.071
1509381	Soil		1.22	22.91	11.69	56.4	119	22.0	8.9	327	2.28	9.7	3.3	7.1	5.4	32.6	0.16	0.64	0.19	43	0.52	0.056
1509382	Soil		1.24	27.36	12.17	62.1	133	25.3	9.7	332	2.36	11.2	1.8	5.6	5.4	34.5	0.21	0.74	0.19	41	0.55	0.055
1509383	Soil		1.19	24.81	19.50	74.0	102	21.8	8.2	233	2.32	11.2	2.1	2.7	11.9	22.4	0.17	0.77	0.26	37	0.32	0.039
1509384	Soil		1.86	22.95	12.90	67.5	95	22.6	9.2	379	2.57	14.4	4.9	4.7	8.6	29.6	0.21	0.80	0.19	45	0.44	0.062
1509385	Soil		1.25	30.69	12.40	65.2	130	27.8	10.3	409	2.45	11.7	3.7	3.6	5.1	32.9	0.19	0.76	0.18	44	0.62	0.064
1509386	Soil		0.96	20.14	8.43	54.9	64	18.8	6.8	134	1.90	6.4	1.1	2.6	4.2	25.9	0.13	0.67	0.14	38	0.40	0.061
1509387	Soil		1.29	16.01	12.33	62.2	64	17.5	7.0	191	2.16	10.1	1.4	3.3	6.6	23.6	0.25	0.63	0.19	44	0.42	0.049
1509388	Soil		1.54	32.79	10.93	84.2	130	31.1	12.1	662	2.60	13.3	0.8	2.7	4.6	54.7	0.51	1.05	0.19	47	2.07	0.084
1509389	Soil		12.07	93.99	16.77	215.5	1658	70.3	15.1	844	3.16	16.1	2.4	10.8	13.8	21.7	1.05	0.72	0.47	31	0.50	0.064
1509390	Soil		1.67	29.32	20.64	83.7	106	28.9	8.5	259	3.11	13.2	8.5	2.4	34.3	17.3	0.08	0.82	0.37	63	0.22	0.020
1509391	Soil		1.61	30.28	18.69	85.8	113	28.9	8.9	283	3.27	13.6	8.4	2.4	32.5	17.8	0.08	0.81	0.39	67	0.21	0.022
1509392	Soil		1.70	11.38	11.98	88.7	32	13.8	5.3	209	2.39	9.8	2.6	7.1	17.2	11.1	0.09	0.50	0.22	41	0.13	0.025
1509393	Soil		2.29	10.69	11.99	113.2	32	13.5	5.9	264	2.66	11.3	2.4	7.7	21.9	7.8	0.11	0.48	0.16	40	0.08	0.026
1509394	Soil		1.49	22.96	18.48	77.1	15	18.5	6.1	164	2.40	12.1	2.0	4.5	21.9	11.9	0.09	0.74	0.21	42	0.11	0.010
1509395	Soil		0.97	12.18	8.31	64.6	99	18.1	7.0	281	2.06	9.0	0.5	1.5	3.0	12.6	0.39	0.44	0.13	44	0.15	0.025

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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1509366	Soil		31.9	26.5	0.34	303.5	0.064	1	1.63	0.012	0.08	0.6	5.0	0.17	<0.02	40	1.3	<0.02	6.4
1509367	Soil		14.6	18.6	0.18	120.6	0.049	1	1.40	0.012	0.19	0.9	5.3	0.52	<0.02	9	0.6	<0.02	7.3
1509368	Soil		19.8	39.0	0.47	249.9	0.039	1	1.31	0.005	0.05	0.2	5.5	0.09	<0.02	32	0.1	0.04	3.7
1509369	Soil		37.6	25.8	0.26	155.0	0.047	1	1.36	0.012	0.12	0.8	3.9	0.25	<0.02	16	2.0	0.02	6.1
1509370	Soil		33.9	30.6	0.31	228.6	0.085	1	2.11	0.011	0.08	0.6	5.7	0.14	<0.02	28	1.3	0.03	7.2
1509371	Soil		25.1	21.9	0.26	158.9	0.042	<1	1.04	0.007	0.05	0.6	2.3	0.10	<0.02	20	0.4	<0.02	4.5
1509372	Soil		15.1	21.9	0.40	352.2	0.045	1	0.94	0.019	0.05	0.3	3.1	0.05	<0.02	25	0.3	<0.02	2.9
1509373	Soil		25.7	11.0	0.15	73.4	0.035	<1	0.63	0.006	0.06	0.7	1.8	0.14	<0.02	8	0.3	<0.02	4.1
1509374	Soil		16.8	28.6	0.31	183.4	0.053	<1	1.85	0.008	0.06	0.6	3.5	0.17	<0.02	16	0.2	0.03	6.8
1509375	Soil		7.7	20.6	0.22	134.4	0.042	1	1.50	0.009	0.11	0.7	3.0	0.24	<0.02	7	0.1	0.02	7.9
1509376	Soil		16.9	11.8	0.12	107.7	0.043	<1	1.05	0.009	0.12	1.0	4.2	0.35	<0.02	12	0.6	<0.02	6.8
1509377	Soil		9.7	14.3	0.18	112.0	0.040	1	0.91	0.007	0.05	0.6	1.7	0.14	<0.02	12	0.2	<0.02	4.2
1509378	Soil		47.5	35.1	0.43	237.6	0.056	<1	1.79	0.008	0.09	0.6	4.7	0.16	<0.02	23	1.2	0.03	6.1
1509379	Soil		16.4	24.2	0.39	314.3	0.047	2	1.21	0.014	0.04	0.3	3.3	0.08	<0.02	35	0.3	0.02	3.8
1509380	Soil		16.0	32.4	0.55	294.9	0.060	2	1.34	0.024	0.09	0.2	4.6	0.10	<0.02	22	0.3	0.04	4.2
1509381	Soil		17.0	27.6	0.42	405.5	0.045	1	1.51	0.015	0.04	0.3	4.0	0.10	<0.02	24	0.7	<0.02	4.6
1509382	Soil		16.2	28.6	0.47	434.4	0.048	1	1.44	0.018	0.05	0.3	4.3	0.09	<0.02	35	0.4	0.03	4.6
1509383	Soil		22.2	26.9	0.36	318.8	0.049	<1	1.54	0.010	0.07	0.3	4.1	0.15	<0.02	35	0.2	0.02	5.0
1509384	Soil		17.1	26.8	0.37	345.6	0.053	1	1.34	0.017	0.06	0.5	3.9	0.13	<0.02	30	0.6	0.04	4.6
1509385	Soil		17.0	28.4	0.49	441.3	0.047	2	1.41	0.019	0.06	0.2	4.1	0.08	<0.02	33	0.5	0.03	4.2
1509386	Soil		14.1	23.8	0.39	286.0	0.047	1	1.17	0.016	0.05	0.2	3.4	0.08	<0.02	26	0.2	0.03	3.5
1509387	Soil		16.6	25.9	0.36	262.8	0.054	<1	1.49	0.011	0.06	0.2	3.3	0.11	<0.02	20	0.4	<0.02	4.8
1509388	Soil		15.3	28.3	0.73	498.4	0.055	2	1.21	0.024	0.08	0.4	4.1	0.10	<0.02	35	0.4	0.04	4.0
1509389	Soil		36.2	21.1	1.00	106.0	0.002	3	1.58	0.006	0.08	0.2	4.0	0.18	<0.02	12	7.7	0.19	3.8
1509390	Soil		99.3	44.7	0.48	372.0	0.052	1	2.73	0.010	0.10	0.4	6.2	0.22	<0.02	28	2.7	0.05	8.1
1509391	Soil		93.6	45.4	0.50	387.5	0.057	1	2.89	0.010	0.10	0.3	6.5	0.23	<0.02	23	2.8	0.04	8.6
1509392	Soil		17.4	24.8	0.29	163.0	0.049	1	1.63	0.009	0.13	0.5	4.0	0.26	<0.02	12	0.4	<0.02	7.2
1509393	Soil		9.8	22.0	0.23	152.1	0.048	2	1.75	0.010	0.16	0.5	4.1	0.34	<0.02	10	0.2	<0.02	9.2
1509394	Soil		28.1	30.0	0.30	184.9	0.053	<1	1.68	0.009	0.09	0.4	5.0	0.20	<0.02	11	0.5	0.02	6.3
1509395	Soil		11.6	25.7	0.36	349.3	0.038	<1	1.33	0.005	0.06	0.1	2.5	0.09	<0.02	14	<0.1	0.03	4.3

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Project: Kate
Report Date: September 28, 2016

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		Method	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	2	0.01	0.001
1509396	Soil		0.89	12.67	10.45	88.5	143	22.5	6.6	218	1.74	6.4	0.4	2.8	2.7	10.7	0.42	0.64	0.15	36	0.14	0.027
1509397	Soil		2.37	18.56	22.81	125.6	28	15.8	5.0	165	2.32	11.5	3.2	2.2	33.8	9.2	0.13	0.62	0.42	37	0.10	0.014
1509398	Soil		0.99	6.74	9.99	55.1	16	7.4	3.1	171	1.30	3.8	2.9	1.0	17.2	7.9	0.09	0.28	0.17	23	0.10	0.012
1509399	Soil		1.73	15.92	17.53	93.9	26	18.9	6.0	188	2.37	9.9	4.2	1.2	31.0	12.4	0.05	0.61	0.31	40	0.14	0.013
1509400	Soil		1.62	12.93	17.52	104.1	14	10.4	3.4	184	1.87	7.2	5.1	4.5	42.2	6.7	0.12	0.49	0.39	22	0.06	0.007
1509401	Soil		1.39	8.90	11.19	98.3	11	9.3	3.5	192	2.06	7.0	2.9	2.1	24.4	5.8	0.08	0.40	0.11	27	0.05	0.009
1509402	Soil		1.85	5.90	13.35	114.2	<2	4.5	1.7	185	1.76	2.6	4.8	1.3	36.1	4.8	0.08	0.23	0.31	15	0.05	0.005
1509403	Soil		1.73	3.48	24.45	183.8	<2	1.5	0.4	309	1.36	2.6	23.9	<0.2	70.5	5.4	0.26	0.09	0.15	<2	0.05	0.003
1509404	Soil		1.95	3.60	23.99	191.7	<2	1.5	0.4	283	1.44	3.0	28.1	0.4	69.8	4.7	0.20	0.11	0.14	<2	0.04	0.004
1509405	Soil		1.49	11.46	14.24	106.2	18	12.3	3.9	163	2.03	9.6	3.2	2.7	22.1	7.7	0.07	0.44	0.25	29	0.09	0.013
1509406	Soil		1.99	9.11	34.78	138.2	25	4.0	1.5	142	1.17	5.8	5.8	1.6	49.3	4.5	0.17	0.28	0.52	6	0.05	0.008
1509407	Soil		1.60	22.20	14.94	87.2	81	20.2	8.2	343	2.63	14.2	2.5	3.5	11.8	24.5	0.23	0.87	0.19	45	0.33	0.064
1509408	Soil		2.56	28.85	13.14	69.0	178	22.7	8.5	203	2.36	12.9	1.8	4.1	5.6	27.1	0.15	1.09	0.19	48	0.32	0.050
1509409	Soil		2.30	31.91	14.97	72.3	148	25.5	11.4	387	2.67	17.8	1.3	3.8	7.1	28.8	0.21	1.11	0.21	47	0.40	0.065
1509410	Soil		1.17	23.71	14.68	71.0	30	19.6	7.0	263	2.18	7.1	5.8	6.1	17.6	20.6	0.10	0.65	0.16	44	0.22	0.020
1509411	Soil		1.31	17.99	16.71	92.0	41	17.3	6.3	250	2.32	9.7	2.8	3.9	24.1	15.7	0.08	0.63	0.17	41	0.17	0.017
1509412	Soil		1.50	3.61	8.96	93.9	7	2.5	1.1	135	1.03	5.4	2.5	<0.2	21.9	2.0	0.09	0.27	0.17	7	0.01	0.008
1509413	Soil		1.19	3.96	21.81	77.7	6	2.8	1.9	127	1.07	2.8	4.6	<0.2	29.1	3.6	0.07	0.21	0.20	6	0.04	0.004
1509414	Soil		1.29	15.30	17.14	75.3	92	19.0	7.6	234	2.83	14.1	2.5	1.1	15.4	10.8	0.07	0.61	0.64	56	0.09	0.022
1509415	Soil		1.54	9.63	19.21	124.0	116	12.1	5.1	200	2.34	9.0	1.7	0.7	12.5	10.1	0.19	0.41	0.38	42	0.08	0.024
1509416	Soil		1.17	11.82	12.42	61.9	12	11.5	3.8	136	1.75	6.1	2.4	<0.2	23.7	7.9	0.06	0.41	0.17	30	0.07	0.007
1509417	Soil		1.58	12.45	16.17	82.5	35	16.4	5.5	237	2.61	10.3	3.5	<0.2	19.6	9.4	0.12	0.53	1.20	44	0.08	0.027
1509418	Soil		1.44	12.90	21.26	94.6	12	10.6	5.3	280	1.38	7.7	3.5	1.0	24.3	10.6	0.09	0.55	0.14	22	0.13	0.010
1509419	Soil		1.43	14.38	13.91	70.7	19	11.0	4.3	178	1.81	4.6	4.8	2.6	25.5	11.2	0.10	0.43	0.60	27	0.13	0.009
1509434	Soil		1.60	39.66	12.31	68.5	105	76.5	14.0	465	2.81	15.2	0.7	10.6	5.5	26.3	0.13	0.75	0.19	51	0.37	0.059
1509435	Soil		2.28	44.96	15.31	85.5	154	186.3	22.6	694	3.56	82.2	1.1	2.7	7.3	21.8	0.28	0.67	0.24	46	0.25	0.062
1509436	Soil		0.51	10.11	5.45	32.1	15	288.6	22.9	249	2.11	8.9	0.3	1.2	2.8	9.2	0.05	0.35	0.08	40	0.09	0.008
1509437	Soil		0.87	26.14	12.46	57.4	94	187.0	15.6	314	2.87	12.0	0.8	3.7	5.0	20.8	0.11	0.79	0.16	52	0.29	0.040
1509438	Soil		0.96	29.33	8.61	68.6	115	28.8	9.7	360	2.13	9.9	0.5	2.1	4.4	24.4	0.33	0.76	0.13	36	0.39	0.075
1509439	Soil		0.41	49.76	2.73	48.0	21	53.5	31.1	783	4.78	3.3	0.5	2.4	1.2	16.2	0.06	0.23	0.03	86	0.40	0.023

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Project: Kate
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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1509396	Soil		10.9	35.3	0.36	468.3	0.023	<1	1.09	0.004	0.07	0.2	1.8	0.10	<0.02	11	0.2	0.03	3.9
1509397	Soil		17.9	26.1	0.23	141.4	0.046	<1	1.76	0.008	0.08	1.3	4.4	0.16	<0.02	12	0.3	0.02	7.6
1509398	Soil		20.5	12.2	0.15	97.8	0.041	<1	0.72	0.008	0.07	0.6	1.9	0.14	<0.02	8	0.6	<0.02	3.8
1509399	Soil		29.5	29.0	0.30	220.6	0.056	1	1.85	0.009	0.11	0.7	5.1	0.26	<0.02	13	0.5	0.03	7.4
1509400	Soil		14.4	15.2	0.18	93.0	0.038	2	1.25	0.008	0.10	1.0	3.5	0.22	<0.02	9	<0.1	0.02	6.8
1509401	Soil		8.7	18.0	0.20	82.7	0.043	2	1.36	0.010	0.14	0.6	3.9	0.30	<0.02	8	<0.1	<0.02	6.3
1509402	Soil		23.0	9.5	0.10	63.4	0.038	1	1.06	0.011	0.15	0.6	3.7	0.38	<0.02	<5	<0.1	<0.02	7.2
1509403	Soil		57.0	2.0	0.04	42.8	0.017	2	1.02	0.010	0.18	0.7	3.9	0.41	<0.02	<5	<0.1	<0.02	9.4
1509404	Soil		49.1	2.4	0.04	41.5	0.021	<1	1.03	0.009	0.19	0.8	3.9	0.45	<0.02	<5	0.1	<0.02	9.7
1509405	Soil		7.7	19.3	0.21	104.4	0.035	1	1.53	0.007	0.08	0.8	2.9	0.21	<0.02	16	<0.1	0.02	6.6
1509406	Soil		27.3	6.0	0.06	56.2	0.009	1	0.69	0.006	0.08	1.7	1.8	0.19	<0.02	<5	0.2	0.03	5.1
1509407	Soil		19.0	25.4	0.36	373.0	0.048	1	1.25	0.013	0.06	0.3	4.1	0.10	<0.02	35	0.5	0.02	4.3
1509408	Soil		18.3	26.9	0.41	389.8	0.046	1	1.46	0.014	0.05	0.3	4.2	0.08	<0.02	55	0.3	0.04	4.2
1509409	Soil		19.0	29.4	0.40	405.2	0.043	<1	1.37	0.012	0.05	0.3	4.7	0.08	<0.02	54	0.2	0.05	4.2
1509410	Soil		28.7	25.6	0.34	274.5	0.068	1	1.57	0.011	0.07	0.4	5.0	0.13	<0.02	32	0.4	0.02	5.0
1509411	Soil		17.2	24.3	0.32	235.4	0.044	2	1.47	0.010	0.07	0.3	4.1	0.14	<0.02	22	0.1	0.02	5.5
1509412	Soil		1.3	5.0	0.03	54.1	0.016	<1	0.66	0.006	0.07	0.8	1.6	0.19	<0.02	<5	<0.1	<0.02	5.0
1509413	Soil		5.4	4.7	0.04	47.9	0.011	<1	0.75	0.005	0.05	0.9	1.4	0.12	<0.02	<5	<0.1	<0.02	5.1
1509414	Soil		17.5	33.0	0.41	189.6	0.054	2	2.31	0.008	0.08	0.3	3.7	0.19	<0.02	9	<0.1	<0.02	6.6
1509415	Soil		10.0	21.0	0.27	148.7	0.040	<1	1.86	0.008	0.09	0.5	3.3	0.26	<0.02	<5	<0.1	0.02	7.9
1509416	Soil		22.5	18.8	0.21	129.1	0.041	<1	1.32	0.007	0.04	0.5	2.6	0.09	<0.02	<5	0.1	<0.02	4.9
1509417	Soil		21.2	26.0	0.30	184.6	0.045	2	1.87	0.009	0.10	0.5	3.3	0.21	<0.02	13	<0.1	0.04	7.7
1509418	Soil		23.5	13.2	0.15	144.3	0.043	1	0.85	0.007	0.06	0.6	3.0	0.19	<0.02	9	<0.1	<0.02	3.9
1509419	Soil		28.4	16.6	0.21	163.5	0.045	<1	1.07	0.008	0.06	0.5	3.9	0.15	<0.02	11	0.2	<0.02	5.0
1509434	Soil		16.3	72.5	0.74	325.6	0.045	1	1.54	0.015	0.06	0.2	5.4	0.07	<0.02	42	<0.1	0.02	4.4
1509435	Soil		15.0	152.9	1.30	286.4	0.022	2	1.87	0.010	0.06	0.1	5.6	0.07	<0.02	25	0.4	0.07	4.8
1509436	Soil		10.5	276.9	2.39	156.3	0.031	2	1.21	0.006	0.02	<0.1	3.4	0.07	<0.02	10	<0.1	<0.02	3.2
1509437	Soil		16.3	144.8	1.02	310.7	0.062	1	1.76	0.011	0.05	0.2	5.9	0.08	<0.02	35	<0.1	<0.02	4.7
1509438	Soil		13.5	24.2	0.46	289.2	0.041	<1	0.97	0.017	0.06	0.2	3.3	0.07	<0.02	25	0.1	0.03	2.7
1509439	Soil		3.3	91.2	2.29	213.5	0.043	1	2.88	0.007	0.02	<0.1	8.1	0.02	<0.02	16	<0.1	<0.02	5.4

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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	2	0.01	0.001
1509440	Soil		0.39	50.67	2.46	44.7	20	49.5	29.7	771	4.52	3.4	0.5	1.4	1.2	16.1	0.03	0.21	0.04	81	0.38	0.025
1509426	Soil		2.68	25.38	51.93	261.9	91	20.5	5.4	418	2.16	15.9	15.2	2.2	53.9	19.7	0.16	1.71	26.57	26	0.23	0.028
1509427	Soil		14.90	40.63	29.45	316.2	161	26.2	1.6	124	2.29	51.0	8.3	4.4	17.0	14.9	0.61	1.36	1.41	49	0.10	0.022
1509428	Soil		2.75	25.16	54.69	116.2	86	12.0	5.4	462	1.10	9.4	4.0	1.1	21.6	14.4	0.11	0.36	0.39	15	0.19	0.010
1509429	Soil		10.30	14.93	16.58	119.7	179	13.9	2.1	80	1.73	62.9	2.1	1.8	8.9	24.2	0.09	1.21	0.21	16	0.11	0.028
1509430	Soil		55.73	60.96	53.85	177.7	350	32.3	5.7	83	3.72	19.9	3.8	3.7	11.0	33.6	0.05	1.32	1.10	59	0.18	0.051
1509431	Soil		9.58	40.25	19.99	249.9	139	52.8	11.2	112	3.70	19.5	1.2	2.2	10.8	21.8	0.52	0.47	0.18	28	0.20	0.062
1509432	Soil		2.16	41.14	14.81	388.4	115	76.2	25.5	1118	5.24	54.5	2.3	1.7	12.0	18.7	1.92	0.22	0.26	23	0.33	0.073
1509433	Soil		3.02	37.61	15.97	72.0	70	36.3	6.8	161	3.10	54.2	1.1	4.9	9.8	22.9	0.08	0.63	0.24	40	0.29	0.030
1509451	Soil		1.17	4.58	21.17	81.7	18	4.3	1.2	124	1.08	4.4	6.7	1.1	36.1	4.8	0.14	0.24	0.76	12	0.06	0.008
1509452	Soil		1.43	7.53	13.44	159.3	27	6.6	2.5	214	1.97	4.7	8.5	0.4	35.3	5.6	0.11	0.26	0.10	17	0.05	0.009
1509453	Soil		1.50	9.54	10.62	128.7	5	6.1	2.7	229	1.82	2.7	7.4	1.4	49.3	6.0	0.08	0.26	0.07	14	0.06	0.006
1509454	Soil		1.74	7.11	13.45	95.5	10	5.8	2.1	245	1.68	3.1	7.8	1.4	41.8	6.2	0.09	0.25	0.08	15	0.06	0.005
1509455	Soil		1.53	8.52	10.32	95.6	24	7.4	2.7	198	1.60	3.2	6.7	0.8	34.6	8.3	0.09	0.25	0.12	19	0.09	0.010
1509456	Soil		1.25	30.82	14.94	75.0	38	21.3	8.7	318	2.41	8.7	4.9	9.0	24.0	21.4	0.08	0.67	0.24	45	0.26	0.024
1509457	Soil		0.90	25.60	12.76	71.3	37	21.0	7.4	255	2.51	10.1	3.8	3.1	19.2	20.5	0.06	0.65	0.21	43	0.24	0.021
1509458	Soil		2.12	7.84	12.44	100.3	36	10.6	3.5	204	2.14	6.6	5.2	1.4	22.6	6.9	0.11	0.33	0.13	30	0.06	0.019
1509459	Soil		1.16	16.04	16.13	74.8	52	17.6	6.3	171	2.52	12.6	1.7	4.4	15.7	8.0	0.13	0.56	1.57	47	0.07	0.014
1509460	Soil		0.95	14.38	33.15	72.7	16	10.7	3.8	246	1.54	6.2	5.3	2.0	31.4	11.5	0.13	0.43	0.25	22	0.15	0.026
1509461	Soil		1.01	20.86	21.31	80.5	89	15.7	5.9	200	1.77	5.4	8.4	2.2	28.3	21.0	0.18	0.53	0.18	37	0.29	0.026
1509462	Soil		1.73	32.27	12.33	93.8	128	34.5	11.8	710	2.97	19.2	0.8	2.3	4.5	33.5	0.44	1.00	0.19	50	0.51	0.085
1509463	Soil		1.53	30.31	16.33	84.9	119	25.8	9.8	374	2.60	11.4	4.4	1.7	12.3	28.3	0.17	0.87	0.20	51	0.39	0.059
1509464	Soil		1.08	31.50	9.73	75.5	108	26.9	9.8	450	2.26	11.4	0.6	1.5	4.4	33.0	0.29	0.84	0.15	38	1.02	0.078
1509465	Soil		2.11	30.20	14.12	68.5	121	26.4	11.5	262	2.88	13.7	1.7	3.1	7.2	31.3	0.24	0.95	0.24	56	0.43	0.052
1509466	Soil		7.86	53.86	19.16	89.3	186	28.6	7.7	275	3.09	16.1	1.8	4.5	8.4	20.7	0.04	1.17	0.21	49	0.22	0.039
1509467	Soil		1.28	11.49	16.89	110.0	99	15.3	6.1	330	2.11	7.4	2.4	0.3	15.4	14.2	0.12	0.41	0.11	38	0.16	0.023
1509468	Soil		1.28	15.67	20.53	110.2	24	14.5	5.0	168	2.09	10.2	3.4	1.7	26.8	10.4	0.07	0.53	0.31	36	0.09	0.011
1509469	Soil		1.26	4.38	19.89	191.1	19	2.9	0.6	242	1.75	1.7	3.3	<0.2	46.6	5.6	0.03	0.17	0.18	4	0.07	0.004
1509470	Soil		1.28	7.75	12.57	98.8	44	9.3	3.3	205	1.60	4.3	2.9	0.6	16.4	9.1	0.15	0.28	0.11	25	0.09	0.017
1509471	Soil		1.27	15.52	17.20	101.9	25	12.7	5.1	238	1.84	6.0	6.6	1.2	37.4	11.4	0.15	0.51	0.18	30	0.12	0.012

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Project: Kate
Report Date: September 28, 2016

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1509440	Soil	3.4	72.6	2.20	194.6	0.043	<1	2.76	0.007	0.02	<0.1	8.0	<0.02	<0.02	20	<0.1	0.03	5.3
1509426	Soil	48.3	17.6	0.28	248.9	0.030	1	1.58	0.015	0.20	1.2	5.1	0.73	<0.02	20	0.5	0.05	9.4
1509427	Soil	35.2	16.0	0.11	158.2	0.002	<1	0.80	0.015	0.10	0.6	3.9	0.36	0.12	29	1.2	0.10	5.6
1509428	Soil	14.1	8.6	0.18	135.2	0.009	<1	1.09	0.007	0.11	0.5	1.9	0.49	<0.02	6	<0.1	0.03	5.5
1509429	Soil	24.3	8.9	0.16	75.6	0.001	<1	0.52	0.007	0.04	0.2	1.8	0.10	0.03	<5	1.3	0.06	1.6
1509430	Soil	30.0	22.6	0.18	245.7	0.008	1	1.30	0.007	0.05	0.3	4.8	0.09	<0.02	19	5.1	0.20	2.9
1509431	Soil	34.2	15.5	0.20	181.2	0.002	2	0.82	0.007	0.05	<0.1	3.7	0.07	<0.02	9	2.5	0.13	2.1
1509432	Soil	24.2	40.8	0.86	282.8	0.002	<1	2.14	0.006	0.06	<0.1	3.6	0.07	<0.02	<5	0.6	0.09	6.4
1509433	Soil	30.2	45.2	0.51	370.9	0.024	1	1.69	0.010	0.06	0.1	5.5	0.08	<0.02	25	2.2	0.08	4.8
1509451	Soil	14.8	6.8	0.08	53.7	0.032	1	0.62	0.007	0.08	1.1	1.9	0.23	<0.02	<5	<0.1	<0.02	4.9
1509452	Soil	6.3	11.5	0.13	83.9	0.034	1	1.34	0.011	0.21	0.7	4.1	0.44	<0.02	9	<0.1	<0.02	9.0
1509453	Soil	26.0	9.3	0.11	77.5	0.042	1	0.95	0.013	0.20	0.5	5.0	0.43	<0.02	11	0.1	<0.02	7.5
1509454	Soil	23.2	9.1	0.12	100.0	0.036	<1	0.94	0.011	0.15	0.6	3.7	0.32	<0.02	<5	<0.1	0.03	6.7
1509455	Soil	22.4	11.0	0.14	106.4	0.044	1	0.86	0.009	0.10	0.3	3.2	0.24	<0.02	9	0.3	<0.02	5.9
1509456	Soil	39.8	26.2	0.34	307.8	0.057	1	1.75	0.010	0.08	0.4	5.4	0.17	<0.02	27	0.2	<0.02	6.1
1509457	Soil	29.8	30.1	0.40	374.8	0.057	1	1.52	0.013	0.09	0.4	6.2	0.15	<0.02	31	0.4	0.03	5.6
1509458	Soil	8.5	17.6	0.18	119.8	0.041	1	1.57	0.009	0.12	0.6	3.3	0.31	<0.02	8	0.2	0.02	8.3
1509459	Soil	13.1	30.6	0.34	160.7	0.051	1	2.01	0.007	0.08	0.3	3.3	0.18	<0.02	10	0.2	0.03	6.1
1509460	Soil	28.4	13.5	0.18	137.2	0.034	<1	0.84	0.010	0.08	0.5	3.0	0.15	<0.02	22	0.2	<0.02	4.6
1509461	Soil	53.8	22.3	0.30	242.8	0.063	<1	1.30	0.012	0.06	0.5	4.2	0.11	<0.02	24	0.4	0.03	4.8
1509462	Soil	16.7	28.7	0.53	524.6	0.049	2	1.29	0.024	0.06	0.2	4.1	0.10	<0.02	32	0.6	0.05	4.1
1509463	Soil	25.2	30.9	0.44	397.0	0.071	3	1.61	0.015	0.07	0.4	5.1	0.12	<0.02	30	0.4	0.05	5.1
1509464	Soil	13.5	21.8	0.64	395.4	0.043	2	1.01	0.019	0.06	0.3	3.3	0.08	<0.02	29	0.3	0.02	3.1
1509465	Soil	18.9	28.6	0.44	429.1	0.057	1	1.60	0.018	0.05	0.2	4.4	0.10	<0.02	41	0.4	0.05	5.0
1509466	Soil	34.6	29.0	0.40	259.9	0.026	<1	1.57	0.008	0.07	0.1	4.3	0.10	<0.02	31	1.9	0.10	4.6
1509467	Soil	14.4	21.0	0.27	236.8	0.055	1	1.41	0.009	0.10	0.6	3.1	0.22	<0.02	14	<0.1	0.03	6.7
1509468	Soil	17.8	23.9	0.26	141.4	0.053	<1	1.46	0.010	0.07	0.7	4.2	0.16	<0.02	17	0.2	<0.02	5.6
1509469	Soil	12.1	2.6	0.07	82.5	0.028	<1	1.11	0.015	0.33	1.2	4.7	0.74	<0.02	<5	<0.1	<0.02	10.1
1509470	Soil	13.9	12.9	0.15	149.2	0.040	<1	1.09	0.009	0.10	0.7	2.9	0.24	<0.02	16	<0.1	<0.02	6.0
1509471	Soil	15.1	16.3	0.20	156.0	0.042	<1	1.27	0.010	0.09	0.6	3.2	0.18	<0.02	16	0.1	<0.02	6.0

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Project: Kate
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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	2	0.01	0.001
1509472	Soil		1.01	11.82	14.03	96.4	10	9.3	3.5	220	1.55	5.2	4.9	4.8	31.8	9.1	0.12	0.44	0.14	23	0.10	0.007
1509473	Soil		1.20	3.61	27.48	117.9	<2	2.5	0.6	194	1.12	5.2	10.8	1.2	51.9	4.2	0.07	0.21	0.09	3	0.04	0.004
1509474	Soil		1.36	22.37	11.04	86.2	27	16.8	6.0	204	2.25	7.2	4.8	2.0	36.0	10.2	0.08	0.53	0.17	35	0.10	0.011
1509475	Soil		0.91	27.19	11.13	61.1	26	20.5	7.8	186	2.47	10.5	2.0	5.0	11.1	14.3	0.06	0.65	0.17	51	0.13	0.011
1509476	Soil		0.68	103.17	3.62	73.3	11	79.2	34.8	1572	6.51	4.8	0.8	1.3	0.8	14.8	0.11	0.36	0.04	187	0.24	0.036
1509477	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1509478	Soil		4.35	122.73	2.04	476.0	81	127.5	28.2	2386	4.49	17.8	1.8	0.4	0.8	20.8	6.81	0.32	0.03	83	0.47	0.052
1509479	Soil		0.82	26.92	7.97	58.7	90	26.9	8.9	393	1.98	9.8	0.5	3.1	4.1	33.6	0.22	0.68	0.12	36	1.04	0.075
1509480	Soil		0.94	23.78	9.82	50.3	105	32.3	10.8	365	2.43	9.6	1.1	3.9	4.5	25.2	0.13	0.57	0.18	48	0.38	0.052
1509481	Soil		1.72	33.96	12.94	80.5	141	120.6	19.2	551	3.53	20.0	0.5	3.0	4.6	23.0	0.44	1.08	0.21	62	0.36	0.064
1509482	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1509483	Soil		0.54	16.97	5.66	32.6	15	267.2	20.9	254	2.25	12.9	0.7	2.6	3.1	8.2	0.05	0.47	0.10	38	0.08	0.009
1509484	Soil		0.62	12.82	7.90	37.7	22	97.9	11.1	169	2.03	8.5	0.5	1.9	3.5	9.6	0.04	0.35	0.13	43	0.10	0.007
1509485	Soil		0.67	13.14	8.56	38.2	18	155.0	16.2	192	2.45	13.5	0.6	2.4	3.5	8.5	0.05	0.49	0.13	48	0.09	0.008
1509486	Soil		0.84	25.27	10.28	48.0	29	218.0	19.9	333	2.90	14.0	1.3	2.7	4.8	12.0	0.02	0.61	0.17	57	0.12	0.012
1509487	Soil		0.61	13.98	6.75	41.6	21	211.9	18.2	228	2.43	7.6	0.6	2.1	3.2	9.0	0.04	0.40	0.10	45	0.10	0.008
1509488	Soil		0.77	23.34	6.56	37.4	20	681.8	36.3	350	2.93	12.9	0.7	6.0	3.5	9.2	0.04	0.82	0.11	51	0.08	0.011
1509489	Soil		0.88	25.75	9.87	54.8	83	77.6	10.3	220	2.44	10.7	0.9	4.2	4.2	22.3	0.11	0.64	0.15	46	0.31	0.055
1509490	Soil		0.86	25.92	8.70	47.5	25	191.8	20.1	419	2.99	17.1	1.4	4.8	4.8	15.4	0.05	0.68	0.15	61	0.18	0.012
1509491	Soil		0.70	27.29	11.97	67.8	106	80.2	10.8	182	2.44	10.5	1.1	4.6	5.3	23.0	0.22	0.69	0.18	44	0.33	0.062
1509492	Soil		0.92	28.82	8.23	67.4	92	28.3	9.6	396	2.21	9.9	0.6	2.3	4.2	40.1	0.37	0.79	0.14	40	1.25	0.080
1509493	Soil		0.67	24.92	5.54	33.8	14	46.9	20.2	641	3.25	6.0	0.7	1.7	2.4	19.0	0.05	0.40	0.07	65	0.33	0.013
1509494	Soil		0.71	27.11	6.34	37.6	19	41.8	18.7	570	3.32	7.8	1.0	5.1	3.0	17.8	0.05	0.48	0.11	68	0.29	0.013
1510001	Soil		33.09	27.26	39.98	37.9	753	8.1	1.9	52	2.34	84.0	1.7	12.4	7.6	15.2	0.02	7.89	0.28	30	0.09	0.055
1510002	Soil		15.31	16.77	18.57	37.4	417	10.9	2.7	69	1.83	41.8	0.8	5.2	5.8	12.3	0.02	2.77	0.17	32	0.10	0.029
1510003	Soil		10.28	38.27	29.21	110.9	296	31.0	8.3	278	3.14	37.5	2.0	7.3	8.2	42.4	0.37	3.94	0.25	45	0.24	0.071
1510004	Soil		17.26	44.35	21.46	115.7	265	29.2	7.8	233	3.32	67.0	1.8	3.4	8.8	18.5	0.14	2.09	0.28	38	0.18	0.063
1510005	Soil		2.80	33.88	12.72	77.1	179	27.8	10.4	339	2.71	14.3	0.8	3.2	5.0	23.1	0.26	0.82	0.18	48	0.35	0.057
1510006	Soil		1.23	28.12	10.93	61.8	111	33.4	10.2	252	2.48	11.1	1.0	2.1	4.3	26.9	0.12	0.69	0.17	51	0.38	0.061
1510007	Soil		1.19	40.13	13.12	75.8	165	74.1	14.6	471	2.91	14.9	0.6	3.7	5.4	27.3	0.13	1.07	0.21	57	0.43	0.061

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1509472	Soil	9.2	12.9	0.15	120.2	0.034	<1	1.02	0.009	0.09	0.6	2.6	0.19	<0.02	10	0.2	<0.02	5.3
1509473	Soil	19.8	3.4	0.04	47.4	0.020	<1	0.85	0.008	0.11	0.9	3.0	0.25	<0.02	<5	0.3	<0.02	7.3
1509474	Soil	45.5	21.8	0.28	165.1	0.051	<1	1.37	0.008	0.05	0.5	5.7	0.09	<0.02	7	0.3	<0.02	5.7
1509475	Soil	26.8	30.3	0.42	245.2	0.065	<1	1.54	0.009	0.05	0.3	5.4	0.09	<0.02	25	0.3	0.02	4.7
1509476	Soil	5.5	150.2	3.21	230.8	0.006	<1	3.99	0.005	0.05	<0.1	25.3	0.05	<0.02	20	0.2	0.03	10.8
1509477	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1509478	Soil	1.9	116.8	1.80	260.7	0.043	<1	2.29	0.007	0.02	<0.1	8.9	0.03	<0.02	7	<0.1	<0.02	5.6
1509479	Soil	12.6	22.3	0.58	267.5	0.043	1	0.91	0.019	0.06	0.2	3.0	0.08	<0.02	24	0.2	0.03	2.6
1509480	Soil	15.2	35.9	0.50	422.9	0.044	<1	1.48	0.012	0.04	0.2	4.4	0.07	<0.02	35	0.5	0.05	4.2
1509481	Soil	15.5	102.9	0.76	419.8	0.061	<1	1.51	0.014	0.05	0.2	5.1	0.07	<0.02	38	0.2	0.05	4.2
1509482	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1509483	Soil	10.7	261.0	2.09	173.1	0.036	<1	1.15	0.006	0.03	<0.1	4.5	0.05	<0.02	14	0.3	0.02	3.0
1509484	Soil	13.3	87.5	0.79	200.5	0.040	<1	1.29	0.007	0.02	0.1	3.3	0.08	<0.02	10	<0.1	0.02	3.9
1509485	Soil	12.5	123.3	1.01	196.8	0.039	1	1.55	0.006	0.02	<0.1	3.2	0.10	<0.02	10	<0.1	0.04	4.3
1509486	Soil	17.6	169.7	1.13	350.9	0.057	2	1.89	0.007	0.04	0.2	6.3	0.09	<0.02	29	0.4	0.03	5.2
1509487	Soil	11.3	148.5	1.44	186.9	0.040	<1	1.42	0.006	0.02	<0.1	3.5	0.08	<0.02	17	0.2	0.02	4.0
1509488	Soil	11.1	361.3	3.54	221.0	0.045	1	1.76	0.006	0.03	0.1	7.8	0.07	<0.02	32	<0.1	0.03	4.4
1509489	Soil	13.9	51.8	0.61	289.5	0.061	<1	1.36	0.017	0.05	0.2	4.3	0.06	<0.02	31	0.2	0.03	3.9
1509490	Soil	15.8	172.4	1.13	328.7	0.069	<1	1.93	0.010	0.04	0.1	7.0	0.07	<0.02	32	0.3	0.04	5.0
1509491	Soil	17.2	58.4	0.63	435.8	0.051	2	1.42	0.012	0.04	0.2	4.3	0.07	<0.02	54	0.4	0.02	4.0
1509492	Soil	12.6	24.3	0.65	396.1	0.051	2	0.96	0.019	0.06	0.2	3.2	0.08	<0.02	20	0.2	0.03	2.7
1509493	Soil	8.2	75.9	1.30	292.7	0.053	<1	2.01	0.008	0.03	<0.1	7.1	0.04	<0.02	18	<0.1	<0.02	4.5
1509494	Soil	10.1	73.4	1.16	303.0	0.053	<1	2.11	0.008	0.04	<0.1	7.4	0.05	<0.02	42	0.1	0.04	4.7
1510001	Soil	32.6	12.2	0.07	222.7	0.006	<1	0.56	0.008	0.06	0.2	2.9	0.11	0.05	90	6.2	0.28	2.1
1510002	Soil	16.9	14.9	0.14	208.5	0.024	<1	0.61	0.009	0.05	0.1	2.3	0.08	0.05	32	2.9	0.11	2.1
1510003	Soil	23.9	25.5	0.32	342.5	0.036	<1	1.25	0.012	0.07	0.2	4.9	0.11	0.04	82	1.4	0.23	3.8
1510004	Soil	25.4	23.2	0.24	230.6	0.028	<1	1.08	0.007	0.06	0.3	4.0	0.09	<0.02	24	2.3	0.15	2.9
1510005	Soil	16.3	28.8	0.43	380.9	0.052	2	1.40	0.013	0.05	0.1	4.2	0.08	<0.02	39	0.3	0.04	3.7
1510006	Soil	16.7	37.3	0.47	414.0	0.062	<1	1.57	0.014	0.05	0.2	4.1	0.08	<0.02	31	0.3	0.03	4.5
1510007	Soil	17.3	71.6	0.65	452.2	0.082	1	1.68	0.015	0.06	0.2	5.8	0.09	<0.02	41	0.2	0.02	4.7

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Project: Kate
Report Date: September 28, 2016

CERTIFICATE OF ANALYSIS WHI16000287.1

		Method	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	2	0.01	0.001
1510008	Soil		1.06	29.97	10.21	60.4	75	108.8	16.4	356	2.71	12.2	0.6	3.1	4.6	23.0	0.13	0.72	0.18	52	0.35	0.048
1510009	Soil		0.64	18.48	7.45	42.7	24	248.3	22.8	261	2.37	7.9	0.5	1.1	3.5	10.0	0.06	0.45	0.11	44	0.10	0.009
1510010	Soil		0.49	21.97	10.27	64.8	188	95.1	16.7	499	2.45	10.2	1.5	3.2	4.1	29.8	0.11	0.66	0.19	49	0.47	0.049
1510011	Soil		0.58	62.35	1.68	46.8	19	53.9	24.2	833	4.06	2.6	0.3	0.5	0.9	19.3	0.08	0.17	0.03	73	0.46	0.019

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
1510008	Soil	14.2	91.8	0.76	321.1	0.062	2	1.55	0.015	0.06	0.1	4.9	0.07	<0.02	30	0.1	0.03	4.4
1510009	Soil	12.4	197.6	1.66	206.3	0.041	2	1.38	0.006	0.03	<0.1	3.9	0.06	<0.02	22	0.2	0.03	3.7
1510010	Soil	19.5	74.2	0.66	600.0	0.059	2	1.85	0.012	0.04	0.2	5.5	0.07	<0.02	57	<0.1	<0.02	4.9
1510011	Soil	2.5	85.2	1.99	193.4	0.040	<1	2.51	0.007	0.02	<0.1	7.2	<0.02	<0.02	10	<0.1	0.02	4.8

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QUALITY CONTROL REPORT WHI16000287.1

	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	2	0.01	0.001
Pulp Duplicates																					
1509349	Soil	0.96	6.63	16.87	57.6	20	6.5	2.5	173	1.28	3.8	2.9	0.4	20.3	8.3	0.11	0.30	0.43	23	0.09	0.010
REP 1509349	QC	1.05	5.98	16.57	59.8	23	6.4	2.8	161	1.29	3.5	3.0	0.7	19.5	8.1	0.10	0.30	0.44	24	0.09	0.011
1509385	Soil	1.25	30.69	12.40	65.2	130	27.8	10.3	409	2.45	11.7	3.7	3.6	5.1	32.9	0.19	0.76	0.18	44	0.62	0.064
REP 1509385	QC	1.24	30.08	12.44	66.6	126	26.9	10.2	429	2.44	11.8	3.7	2.9	5.1	33.7	0.22	0.85	0.18	44	0.63	0.062
1509438	Soil	0.96	29.33	8.61	68.6	115	28.8	9.7	360	2.13	9.9	0.5	2.1	4.4	24.4	0.33	0.76	0.13	36	0.39	0.075
REP 1509438	QC	0.94	28.82	8.81	67.8	114	29.4	9.0	376	2.18	9.7	0.5	0.9	4.8	25.7	0.33	0.77	0.14	38	0.40	0.079
1509464	Soil	1.08	31.50	9.73	75.5	108	26.9	9.8	450	2.26	11.4	0.6	1.5	4.4	33.0	0.29	0.84	0.15	38	1.02	0.078
REP 1509464	QC	1.04	31.04	9.78	70.5	114	26.1	9.6	451	2.27	11.6	0.5	1.2	4.4	32.5	0.24	0.84	0.15	38	1.02	0.078
1510008	Soil	1.06	29.97	10.21	60.4	75	108.8	16.4	356	2.71	12.2	0.6	3.1	4.6	23.0	0.13	0.72	0.18	52	0.35	0.048
REP 1510008	QC	1.08	31.72	10.43	63.5	81	112.0	16.8	358	2.80	13.1	0.7	3.0	5.0	24.3	0.11	0.82	0.21	57	0.37	0.051
Reference Materials																					
STD DS10	Standard	15.83	151.54	150.30	368.6	1745	77.0	13.5	901	2.76	46.2	2.6	74.2	7.6	62.9	2.48	8.49	11.71	42	1.08	0.075
STD DS10	Standard	15.34	156.34	155.83	359.5	1790	76.7	13.1	894	2.83	44.7	2.8	76.2	8.2	63.2	2.64	8.48	11.66	44	1.08	0.072
STD DS10	Standard	14.43	147.41	148.55	369.3	1834	72.4	12.5	896	2.77	44.9	2.7	96.2	7.6	64.9	2.58	8.61	11.53	42	1.08	0.076
STD DS10	Standard	16.39	163.08	157.52	418.9	1999	81.8	13.8	894	2.83	48.5	3.0	98.8	8.5	68.5	2.86	9.48	12.44	43	1.10	0.086
STD DS10	Standard	15.01	155.52	152.20	355.5	1751	75.4	13.2	887	2.82	45.2	2.6	86.7	7.7	62.1	2.52	7.71	11.43	44	1.07	0.074
STD OXC129	Standard	1.34	25.94	6.31	40.6	13	79.2	21.1	414	3.00	0.5	0.7	186.3	1.8	186.7	0.04	0.02	<0.02	48	0.66	0.101
STD OXC129	Standard	1.36	27.53	6.43	39.8	9	80.5	21.0	423	3.07	0.7	0.7	182.2	1.9	192.7	0.02	0.03	<0.02	51	0.70	0.098
STD OXC129	Standard	1.24	25.78	6.10	40.6	7	74.5	19.7	428	3.07	0.5	0.7	210.9	1.8	178.4	0.03	0.03	<0.02	50	0.65	0.099
STD OXC129	Standard	1.29	27.17	6.36	39.4	12	82.7	20.6	460	3.02	0.6	0.7	183.4	1.9	191.0	0.04	0.03	<0.02	49	0.67	0.106
STD OXC129	Standard	1.35	27.47	6.11	40.8	14	79.8	20.1	433	3.08	0.4	0.7	186.5	1.8	166.1	<0.01	0.03	<0.02	51	0.63	0.103
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
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	<2	<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	<2	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.3	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Report Date: September 28, 2016

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
Pulp Duplicates																		
1509349	Soil	16.2	10.8	0.14	112.0	0.041	<1	0.79	0.007	0.07	0.7	2.4	0.18	<0.02	8	0.5	<0.02	4.3
REP 1509349	QC	16.4	11.1	0.13	112.6	0.043	<1	0.81	0.007	0.07	0.7	2.2	0.17	<0.02	8	0.6	<0.02	4.2
1509385	Soil	17.0	28.4	0.49	441.3	0.047	2	1.41	0.019	0.06	0.2	4.1	0.08	<0.02	33	0.5	0.03	4.2
REP 1509385	QC	17.5	28.5	0.48	453.4	0.046	1	1.39	0.019	0.06	0.3	4.0	0.08	<0.02	52	0.5	0.04	4.2
1509438	Soil	13.5	24.2	0.46	289.2	0.041	<1	0.97	0.017	0.06	0.2	3.3	0.07	<0.02	25	0.1	0.03	2.7
REP 1509438	QC	14.5	24.7	0.48	293.0	0.043	1	1.00	0.017	0.06	0.2	3.4	0.08	<0.02	31	<0.1	<0.02	3.0
1509464	Soil	13.5	21.8	0.64	395.4	0.043	2	1.01	0.019	0.06	0.3	3.3	0.08	<0.02	29	0.3	0.02	3.1
REP 1509464	QC	13.6	21.7	0.65	400.9	0.043	2	1.02	0.019	0.06	0.2	3.3	0.08	<0.02	39	<0.1	0.03	3.0
1510008	Soil	14.2	91.8	0.76	321.1	0.062	2	1.55	0.015	0.06	0.1	4.9	0.07	<0.02	30	0.1	0.03	4.4
REP 1510008	QC	16.6	98.3	0.79	335.5	0.081	2	1.64	0.016	0.07	0.3	5.6	0.11	<0.02	41	<0.1	0.04	4.8
Reference Materials																		
STD DS10	Standard	18.5	59.1	0.78	357.6	0.079	7	1.10	0.074	0.35	3.4	3.0	5.27	0.27	288	2.4	5.28	4.6
STD DS10	Standard	18.5	56.0	0.78	352.5	0.076	8	1.08	0.072	0.34	3.2	2.8	5.32	0.28	280	2.1	5.01	4.3
STD DS10	Standard	17.8	54.0	0.78	357.5	0.072	8	1.08	0.073	0.35	3.3	3.0	5.33	0.28	310	2.0	5.14	4.3
STD DS10	Standard	18.4	61.1	0.80	368.6	0.088	8	1.11	0.075	0.35	3.6	3.2	5.71	0.27	281	2.3	5.32	4.5
STD DS10	Standard	18.2	57.1	0.78	354.7	0.081	6	1.08	0.073	0.34	3.3	2.9	5.10	0.28	292	2.3	4.89	4.1
STD OXC129	Standard	12.5	54.3	1.52	50.8	0.409	<1	1.58	0.597	0.37	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.5
STD OXC129	Standard	12.7	53.5	1.52	51.5	0.372	<1	1.59	0.603	0.38	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4
STD OXC129	Standard	11.9	49.2	1.50	48.9	0.335	2	1.54	0.593	0.37	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.6
STD OXC129	Standard	12.4	54.1	1.53	54.0	0.393	1	1.59	0.607	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.3
STD OXC129	Standard	11.9	50.8	1.51	48.8	0.400	<1	1.53	0.594	0.38	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.1
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6
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
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
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
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
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

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Submitted By: Boris Molak
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: October 04, 2016
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI16000288.1

CLIENT JOB INFORMATION

Project: Kate
Shipment ID: BV16-07
P.O. Number
Number of Samples: 202

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	202	Dry at 60C			WHI
SS80	202	Dry at 60C sieve 100g to -80 mesh			WHI
AQ252	183	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	202	Per sample shipping charges for branch shipments			VAN
AQ251	19	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: XyQuest Goldbank
604-889 Pender Street W
Vancouver British Columbia V6C 3B2
Canada

CC: Al Doherty

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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.

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604-889 Pender Street W
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Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		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	2	0.01	0.001
1	Soil		0.19	5.15	41.97	71.6	59	32.6	1.6	61	0.45	12.2	13.2	0.7	27.3	30.0	0.13	0.26	1.04	<2	0.85	0.010
2	Soil		0.26	8.04	50.91	75.5	109	44.7	5.5	130	0.95	16.5	9.8	0.7	28.7	40.1	0.20	0.33	1.21	8	0.61	0.013
3	Soil		0.08	4.96	27.07	46.5	21	19.2	1.5	41	0.43	13.4	12.3	1.3	22.8	80.8	0.08	0.15	0.69	2	0.84	0.010
4	Soil		3.67	45.47	12.52	90.2	147	80.7	12.1	205	2.59	21.1	2.8	4.9	10.2	17.1	0.10	0.45	0.31	24	0.21	0.040
5	Soil		1.74	32.40	29.20	89.3	176	35.4	11.7	499	2.34	13.3	1.8	4.8	9.3	58.7	0.23	1.15	0.43	33	0.79	0.053
6	Soil		2.73	54.97	15.16	98.8	234	85.0	14.3	260	3.59	23.5	1.6	6.6	8.8	14.2	0.37	0.62	0.31	23	0.18	0.059
22	Soil		1.28	25.62	10.63	65.4	100	27.3	9.3	265	2.23	11.5	1.2	3.6	5.6	33.6	0.18	0.90	0.20	40	0.57	0.076
23	Soil		1.35	27.38	12.72	68.3	107	29.4	9.3	349	2.23	12.1	2.3	3.1	7.0	51.3	0.25	1.04	0.22	37	1.45	0.074
26	Soil		0.78	15.75	37.32	87.7	95	62.1	6.0	86	1.18	11.7	6.0	2.1	23.8	49.0	0.07	0.37	0.55	6	0.48	0.006
28	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
29	Soil		3.09	40.79	19.23	96.1	173	96.6	12.1	261	2.90	50.4	4.0	4.2	20.6	12.6	0.10	1.31	0.47	39	0.19	0.009
30	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
31	Soil		0.11	14.73	30.29	64.2	22	36.3	5.5	73	0.85	8.6	4.9	1.0	22.3	29.0	0.10	0.36	0.72	6	0.33	0.014
32	Soil		0.15	16.04	68.45	134.8	16	37.7	4.8	223	1.06	20.6	9.6	0.8	59.9	37.5	0.39	0.95	1.57	5	0.94	0.025
33	Soil		0.08	25.96	49.54	126.6	16	48.7	8.0	88	0.66	24.3	25.2	8.0	64.3	25.7	0.36	0.95	1.96	3	0.50	0.035
34	Soil		0.05	9.28	37.81	52.6	68	17.6	2.4	115	0.47	9.7	11.6	0.9	36.6	30.2	0.19	0.61	0.99	2	0.40	0.019
35	Soil		0.03	7.12	27.32	37.7	37	10.8	2.0	52	0.33	5.2	10.6	1.0	26.9	22.2	0.10	0.24	0.70	<2	0.30	0.013
36	Soil		1.65	29.98	11.19	74.6	102	33.2	9.9	389	2.42	11.6	1.7	4.8	6.0	30.6	0.36	0.99	0.19	44	0.47	0.084
37	Soil		1.94	23.25	21.47	76.6	164	46.7	6.8	229	1.60	23.0	7.7	4.7	20.1	23.9	0.05	0.75	0.59	21	0.36	0.038
38	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
39	Soil		0.84	15.25	18.85	56.4	106	25.1	5.0	130	1.74	13.5	2.3	2.9	12.8	26.8	0.09	0.57	0.43	29	0.23	0.013
40	Soil		0.45	16.00	50.22	86.9	143	74.9	5.5	89	1.21	17.9	10.3	2.3	28.3	57.8	0.08	0.47	0.97	11	0.51	0.012
41	Soil		0.16	16.64	29.66	148.8	48	84.8	8.9	99	1.03	10.3	7.2	0.7	23.4	28.6	0.33	0.20	0.84	6	0.41	0.012
42	Soil		0.14	8.56	28.85	84.1	22	52.3	4.1	112	0.93	5.5	3.1	<0.2	14.2	32.1	0.02	0.10	0.52	6	0.25	0.004
43	Soil		0.12	18.90	31.79	63.3	16	35.1	3.2	60	0.54	2.6	4.3	0.3	17.0	15.9	0.05	0.23	0.56	4	0.24	0.002
44	Soil		0.30	4.65	48.29	87.9	46	10.0	4.0	156	1.02	6.3	2.5	0.9	17.7	133.2	0.11	0.19	1.19	10	0.73	0.008
45	Soil		0.08	11.78	35.82	74.3	11	18.8	3.5	124	0.72	6.3	8.6	<0.2	27.5	16.8	0.27	0.99	1.05	3	0.42	0.015
46	Soil		0.11	7.57	33.45	75.8	16	12.8	1.5	202	0.48	11.1	9.8	0.3	48.3	32.3	0.28	0.62	1.82	<2	0.48	0.007
47	Soil		0.07	9.17	24.80	64.0	40	18.8	2.1	81	0.55	7.0	8.8	1.1	27.5	17.1	0.11	0.63	0.85	4	0.29	0.014
48	Soil		0.66	12.34	48.83	115.8	316	18.2	2.3	53	1.32	16.6	8.0	<0.2	23.7	10.4	0.21	0.66	4.35	10	0.15	0.011

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604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
1	Soil		8.5	36.7	0.49	15.7	0.002	1	2.55	0.115	1.05	0.1	0.8	1.92	<0.02	6	<0.1	0.06	7.5			
2	Soil		15.7	48.9	0.42	88.3	0.012	2	2.38	0.050	0.79	0.9	1.1	0.78	<0.02	<5	0.1	0.08	8.4			
3	Soil		7.7	19.0	0.36	88.2	0.002	2	2.49	0.178	0.89	0.3	0.7	0.96	<0.02	9	0.2	0.03	7.6			
4	Soil		24.6	76.4	0.56	111.1	0.004	<1	1.33	0.004	0.08	0.1	3.8	0.40	<0.02	31	0.9	0.07	4.2			
5	Soil		19.9	26.5	0.52	360.6	0.039	6	1.37	0.043	0.10	0.5	3.1	0.27	<0.02	49	0.3	0.07	4.6			
6	Soil		25.0	64.6	0.46	120.8	0.012	<1	1.11	0.005	0.05	0.2	3.0	0.10	<0.02	29	1.4	0.11	3.7			
22	Soil		15.9	25.1	0.50	337.3	0.045	<1	1.11	0.027	0.07	0.3	3.5	0.10	<0.02	25	0.1	0.02	3.4			
23	Soil		16.8	24.1	0.65	352.1	0.047	2	1.22	0.049	0.08	0.3	3.3	0.15	<0.02	32	0.5	0.03	3.6			
26	Soil		9.4	82.4	0.59	75.2	0.004	2	1.92	0.070	0.30	1.0	1.5	2.28	<0.02	32	0.2	<0.02	8.5			
28	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.32	22.26	40.43
29	Soil		19.5	65.8	0.66	106.1	0.019	<1	1.91	0.006	0.06	0.3	5.3	0.46	<0.02	47	1.1	0.06	6.4			
30	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	25.48	35.75	15.75
31	Soil		13.1	41.2	0.30	56.1	0.003	4	1.31	0.036	0.19	0.2	1.0	0.36	<0.02	14	<0.1	0.02	6.4			
32	Soil		21.6	44.0	0.43	99.5	0.005	4	2.07	0.055	0.43	1.1	1.1	0.43	<0.02	20	<0.1	0.06	12.8			
33	Soil		28.5	45.2	0.45	44.4	0.002	4	1.45	0.136	0.50	0.3	0.9	0.44	<0.02	12	<0.1	0.08	8.7			
34	Soil		14.2	21.5	0.28	64.7	0.004	3	1.42	0.218	0.59	0.3	0.5	0.46	<0.02	13	<0.1	0.03	5.9			
35	Soil		14.1	16.8	0.22	47.5	0.003	2	1.09	0.251	0.46	0.2	0.3	0.43	<0.02	6	<0.1	0.04	3.7			
36	Soil		16.1	27.1	0.49	426.8	0.048	1	1.04	0.024	0.08	0.4	3.5	0.12	<0.02	23	0.3	0.03	3.5			
37	Soil		22.3	43.2	0.47	155.0	0.020	3	1.31	0.023	0.15	0.9	2.4	0.87	<0.02	25	1.1	0.04	5.7			
38	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.73	13.05	45.63
39	Soil		18.5	28.8	0.39	227.2	0.046	<1	1.25	0.011	0.12	0.5	2.6	0.30	<0.02	26	0.3	0.09	4.8			
40	Soil		12.6	47.0	0.54	145.5	0.007	2	1.94	0.044	0.27	0.6	1.6	2.05	<0.02	11	0.3	0.06	9.3			
41	Soil		6.9	52.6	0.53	27.3	0.002	2	1.68	0.024	0.29	0.4	0.8	0.80	<0.02	<5	0.2	0.04	9.7			
42	Soil		7.6	50.5	0.32	134.7	0.002	2	1.62	0.039	0.35	0.5	1.0	0.61	<0.02	11	<0.1	<0.02	9.8			
43	Soil		9.2	52.8	0.32	88.2	0.002	2	0.99	0.048	0.13	0.3	0.9	0.48	<0.02	19	0.2	0.03	5.6			
44	Soil		6.8	10.2	0.37	379.0	0.010	4	3.02	0.026	0.84	0.5	1.2	1.08	<0.02	11	0.4	0.03	12.5			
45	Soil		15.3	14.9	0.35	64.0	0.003	2	1.21	0.064	0.20	0.5	0.4	0.69	<0.02	<5	0.4	<0.02	6.8			
46	Soil		12.9	13.9	0.27	122.0	0.003	3	1.33	0.080	0.34	0.5	0.6	0.55	<0.02	17	0.1	0.03	6.8			
47	Soil		16.8	21.9	0.25	59.7	0.004	4	0.92	0.069	0.20	0.3	0.7	0.38	<0.02	7	<0.1	0.03	5.0			
48	Soil		15.2	22.7	0.22	55.3	0.006	6	1.08	0.009	0.13	0.8	1.3	0.43	<0.02	12	<0.1	<0.02	6.8			

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Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
1	Soil																				
2	Soil																				
3	Soil																				
4	Soil																				
5	Soil																				
6	Soil																				
22	Soil																				
23	Soil																				
26	Soil																				
28	Soil	90.5	130	39.4	6.4	106	1.58	17.6	5.3	1.3	26.5	104.0	0.12	1.86	1.20	25	0.65	0.012	16.7	29.9	0.50
29	Soil																				
30	Soil	101.8	286	86.1	14.3	422	2.26	90.6	4.0	7.8	10.5	35.0	0.24	4.68	0.30	19	0.30	0.022	24.1	33.6	0.53
31	Soil																				
32	Soil																				
33	Soil																				
34	Soil																				
35	Soil																				
36	Soil																				
37	Soil																				
38	Soil	66.0	233	38.6	3.7	98	0.90	18.7	18.1	39.1	75.4	33.4	0.13	0.52	1.56	10	0.53	0.016	21.1	37.4	0.44
39	Soil																				
40	Soil																				
41	Soil																				
42	Soil																				
43	Soil																				
44	Soil																				
45	Soil																				
46	Soil																				
47	Soil																				
48	Soil																				

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	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
1	Soil														
2	Soil														
3	Soil														
4	Soil														
5	Soil														
6	Soil														
22	Soil														
23	Soil														
26	Soil														
28	Soil	221.9	0.026	5	2.08	0.029	0.14	1.7	3.1	2.61	<0.02	33	0.3	0.03	7.3
29	Soil														
30	Soil	113.5	0.009	4	1.27	0.011	0.06	0.9	3.6	1.93	<0.02	57	0.5	0.09	3.4
31	Soil														
32	Soil														
33	Soil														
34	Soil														
35	Soil														
36	Soil														
37	Soil														
38	Soil	77.4	0.012	3	1.81	0.131	0.79	1.2	1.6	0.92	<0.02	11	0.7	0.03	6.0
39	Soil														
40	Soil														
41	Soil														
42	Soil														
43	Soil														
44	Soil														
45	Soil														
46	Soil														
47	Soil														
48	Soil														

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		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	2	0.01	0.001
49	Soil		0.45	10.39	26.55	74.9	118	24.9	2.0	66	0.65	7.8	11.4	<0.2	29.3	22.4	0.37	0.73	1.94	3	0.31	0.016
51	Soil		0.08	7.79	44.61	111.6	82	56.5	4.5	114	0.78	19.2	24.8	3.7	41.1	72.8	0.08	0.30	1.06	5	0.64	0.017
52	Soil		0.13	5.49	46.01	86.5	29	44.6	4.0	89	0.73	14.3	7.1	3.1	23.3	90.6	0.07	0.31	1.11	5	0.73	0.010
53	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
54	Soil		1.06	17.91	32.45	77.0	132	38.3	7.2	158	1.72	18.3	3.9	0.2	19.4	50.1	0.11	0.59	0.90	22	0.54	0.036
55	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
56	Soil		0.45	21.59	13.34	51.2	156	33.1	5.4	58	1.10	6.7	3.1	4.5	14.7	13.5	0.08	0.26	0.33	12	0.17	0.023
57	Soil		0.34	9.29	12.27	46.4	38	17.3	2.5	34	0.53	5.8	3.9	2.1	15.6	9.9	0.05	0.19	0.43	4	0.16	0.019
58	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
59	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
60	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
61	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
62	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
63	Soil		0.15	12.45	22.31	67.4	97	21.2	1.6	53	0.61	6.8	9.6	1.9	31.0	20.4	0.18	0.58	1.33	4	0.32	0.017
64	Soil		1.09	11.72	16.33	64.6	150	49.5	4.7	94	1.09	33.6	4.8	1.9	16.2	14.3	0.07	0.46	1.75	7	0.20	0.015
65	Soil		0.68	10.66	22.49	92.9	139	18.3	3.9	70	1.21	11.7	6.0	1.1	17.1	25.6	0.23	0.48	3.16	13	0.28	0.034
66	Soil		1.36	27.03	14.29	66.6	61	37.7	9.2	236	2.49	13.2	4.1	3.1	11.7	25.0	0.08	0.80	0.31	51	0.32	0.040
67	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
68	Soil		1.17	26.06	21.69	68.0	212	46.5	7.3	249	1.63	19.1	6.5	2.3	18.0	20.6	0.19	0.44	0.63	16	0.38	0.041
69	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
70	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
71	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
72	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
73	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
74	Soil		1.55	9.81	23.77	66.3	70	20.7	2.9	108	0.68	13.4	5.1	0.3	17.9	11.6	0.13	0.27	6.15	5	0.14	0.018
75	Soil		5.07	20.34	19.42	94.4	282	33.0	8.2	1852	1.52	13.3	8.7	1.0	16.5	24.6	1.45	0.50	3.03	19	0.28	0.036
76	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
77	Soil		2.03	15.47	40.33	101.0	173	25.6	8.1	449	1.16	34.2	13.8	1.1	28.3	35.3	0.35	0.76	4.95	16	0.42	0.036
78	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
79	Soil		0.24	7.72	19.71	54.6	69	15.3	3.1	228	0.48	9.1	5.3	<0.2	15.2	20.8	0.14	0.49	1.09	4	0.27	0.019

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		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
49		Soil	18.0	26.8	0.28	75.7	0.004	3	1.11	0.055	0.34	0.4	0.9	0.69	<0.02	25	0.4	0.04	4.8			
51		Soil	18.0	48.8	0.49	50.3	0.005	5	2.68	0.392	1.08	0.8	0.9	1.44	<0.02	<5	0.5	0.02	11.9			
52		Soil	8.3	38.0	0.49	77.8	0.004	5	2.29	0.073	0.96	0.9	0.9	1.15	<0.02	8	<0.1	0.04	9.4			
53		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.56	25.53	36.07
54		Soil	18.0	47.9	0.55	362.2	0.016	5	1.50	0.035	0.14	1.0	2.9	0.44	<0.02	21	0.1	0.07	6.4			
55		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.35	25.18	29.08
56		Soil	24.0	39.8	0.36	63.2	0.006	5	0.94	0.010	0.08	1.1	2.1	0.28	<0.02	16	<0.1	0.06	2.8			
57		Soil	12.2	16.4	0.19	30.0	0.003	2	0.46	0.036	0.10	0.7	1.0	0.45	<0.02	8	0.1	<0.02	2.1			
58		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.86	17.15	38.20
59		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.98	11.75	39.92
60		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.58	15.00	29.21
61		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.41	11.32	17.93
62		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.26	18.74	20.16
63		Soil	18.0	23.8	0.26	77.6	0.005	6	0.87	0.050	0.21	0.5	1.1	0.36	<0.02	7	<0.1	0.03	4.8			
64		Soil	13.0	33.5	0.32	47.7	0.004	4	0.80	0.018	0.15	0.6	1.3	0.69	<0.02	8	0.7	0.04	3.6			
65		Soil	20.1	21.4	0.33	99.2	0.007	6	1.16	0.023	0.19	0.3	2.2	1.01	<0.02	10	<0.1	0.05	5.4			
66		Soil	18.6	42.1	0.48	286.1	0.075	2	1.64	0.018	0.08	0.3	5.2	0.20	<0.02	25	0.1	0.05	5.3			
67		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.87	55.88	22.27
68		Soil	22.8	47.8	0.50	77.7	0.007	5	1.14	0.015	0.11	0.7	2.6	0.56	<0.02	13	0.5	0.06	4.5			
69		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	4.89	52.84	35.74
70		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.19	12.30	14.58
71		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.62	62.07	23.04
72		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	2.39	23.16	23.50
73		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.60	19.36	32.68
74		Soil	16.9	23.6	0.21	63.0	0.006	3	0.62	0.008	0.11	0.9	1.1	0.54	<0.02	8	0.2	0.02	3.4			
75		Soil	26.8	21.4	0.31	74.3	0.004	6	1.01	0.035	0.17	0.2	2.9	1.33	0.02	18	1.1	0.06	3.7			
76		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	6.35	25.57	25.71
77		Soil	24.5	23.7	0.33	134.9	0.006	6	1.24	0.036	0.18	0.7	2.8	1.12	<0.02	7	0.9	0.04	5.6			
78		Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	0.56	18.45	19.94
79		Soil	11.8	14.8	0.21	66.2	0.004	4	0.72	0.052	0.18	0.5	0.9	0.43	<0.02	7	<0.1	0.03	3.8			

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		Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
		Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
		MDL	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	2	0.01	0.001	0.5	0.5	0.01
49	Soil																					
51	Soil																					
52	Soil																					
53	Soil		64.2	171	64.8	6.3	94	1.39	9.0	7.7	0.2	31.4	33.6	0.13	0.70	0.94	14	0.41	0.028	22.2	39.3	0.55
54	Soil																					
55	Soil		64.8	212	33.4	7.4	194	1.56	15.0	4.2	4.1	15.3	24.0	0.14	0.66	0.59	24	0.25	0.021	20.0	35.8	0.48
56	Soil																					
57	Soil																					
58	Soil		123.5	179	33.9	5.7	110	0.84	15.1	10.4	0.3	32.2	22.5	0.45	1.05	2.48	7	0.34	0.036	24.3	22.9	0.43
59	Soil		147.8	144	35.5	3.3	159	1.11	19.8	12.4	0.8	47.5	24.7	0.91	0.97	9.80	7	0.54	0.016	24.1	28.3	0.49
60	Soil		99.6	216	26.8	6.9	967	1.48	58.9	13.3	<0.2	27.5	63.4	0.84	1.35	8.96	25	0.57	0.066	31.7	25.0	0.31
61	Soil		71.3	105	14.7	3.3	89	1.17	12.1	6.7	2.3	24.0	16.7	0.16	0.72	3.10	12	0.29	0.032	20.5	13.9	0.24
62	Soil		83.8	154	21.2	6.0	148	1.31	9.6	6.6	<0.2	23.1	35.3	0.58	0.98	2.70	19	0.47	0.050	24.2	22.6	0.37
63	Soil																					
64	Soil																					
65	Soil																					
66	Soil																					
67	Soil		130.7	69	95.1	16.3	272	2.58	32.2	6.0	1.5	21.5	15.2	0.19	1.21	0.66	32	0.16	0.021	30.6	79.9	0.54
68	Soil																					
69	Soil		143.2	563	79.4	12.6	200	3.31	35.9	11.0	0.3	32.2	28.7	0.21	0.96	1.06	29	0.24	0.043	21.3	54.0	0.50
70	Soil		89.6	165	14.4	3.9	153	1.39	20.8	3.2	<0.2	19.4	14.0	0.09	0.46	0.50	18	0.17	0.018	14.0	16.7	0.24
71	Soil		137.5	305	182.5	26.2	438	3.20	15.9	2.7	0.8	15.6	78.7	0.63	0.76	0.56	25	0.73	0.079	29.7	51.6	0.63
72	Soil		77.1	103	73.1	9.7	181	2.19	33.7	7.3	1.5	25.5	44.7	0.14	0.86	0.81	35	0.36	0.037	25.0	60.5	0.50
73	Soil		50.3	150	32.9	4.7	121	0.85	23.8	8.1	1.6	24.4	18.3	0.31	0.45	0.81	8	0.23	0.022	21.9	31.0	0.44
74	Soil																					
75	Soil																					
76	Soil		125.2	169	38.1	10.8	803	1.34	24.8	8.5	0.3	24.1	34.0	0.54	0.79	3.49	17	0.36	0.048	29.1	27.9	0.40
77	Soil																					
78	Soil		81.8	160	23.1	6.1	158	1.45	10.8	6.7	0.9	24.7	36.1	0.51	1.06	3.24	19	0.46	0.048	25.1	20.6	0.39
79	Soil																					

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		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
49	Soil															
51	Soil															
52	Soil															
53	Soil		178.2	0.006	5	1.35	0.030	0.11	0.4	2.3	0.27	<0.02	15	0.2	0.04	5.5
54	Soil															
55	Soil		172.3	0.016	4	1.28	0.013	0.09	0.5	3.3	0.50	<0.02	23	0.2	0.04	4.8
56	Soil															
57	Soil															
58	Soil		72.9	0.005	5	0.95	0.012	0.17	1.1	1.3	0.82	<0.02	14	0.6	0.02	4.1
59	Soil		107.8	0.006	8	1.55	0.015	0.18	1.0	1.6	0.72	<0.02	11	0.7	<0.02	7.5
60	Soil		178.6	0.008	7	1.22	0.066	0.29	0.3	3.9	0.97	<0.02	14	1.2	0.03	4.4
61	Soil		50.1	0.009	6	0.80	0.024	0.15	2.1	2.2	0.54	<0.02	5	0.2	<0.02	3.8
62	Soil		97.7	0.007	6	1.22	0.043	0.25	0.4	3.2	0.52	<0.02	11	0.4	0.02	4.8
63	Soil															
64	Soil															
65	Soil															
66	Soil															
67	Soil		146.7	0.017	3	1.20	0.006	0.06	0.6	5.0	0.32	<0.02	43	1.5	0.06	4.1
68	Soil															
69	Soil		124.2	0.016	3	1.43	0.021	0.18	0.5	3.9	0.41	0.11	19	2.9	0.06	6.0
70	Soil		126.6	0.019	3	1.31	0.007	0.13	0.5	1.8	0.39	<0.02	<5	<0.1	<0.02	6.0
71	Soil		281.7	0.012	5	1.34	0.016	0.12	0.2	5.1	0.61	<0.02	46	0.8	0.06	3.7
72	Soil		188.3	0.025	3	1.61	0.020	0.07	0.2	4.9	0.61	<0.02	14	0.5	0.03	5.5
73	Soil		49.3	0.006	4	0.80	0.036	0.15	0.4	1.3	0.49	<0.02	10	0.7	0.03	3.8
74	Soil															
75	Soil															
76	Soil		86.1	0.005	7	0.96	0.019	0.14	0.2	3.4	1.33	<0.02	19	1.3	0.03	3.8
77	Soil															
78	Soil		91.3	0.007	6	1.21	0.027	0.21	0.6	3.3	0.54	<0.02	15	0.5	0.02	4.6
79	Soil															

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Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	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	2	0.01	0.001
85	Soil		0.23	7.81	42.64	76.7	215	11.2	3.2	64	1.03	10.7	11.7	1.0	25.8	82.3	0.17	0.21	1.37	8	0.91	0.011
86	Soil		0.19	10.72	28.42	47.5	187	14.5	2.9	108	1.04	1.8	3.8	<0.2	28.0	56.7	0.11	0.19	0.75	6	0.57	0.039
87	Soil		0.97	26.51	35.21	89.4	176	71.6	11.0	372	2.04	19.6	4.6	1.1	25.7	53.7	0.42	0.74	0.76	27	0.58	0.039
88	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
89	Soil		1.15	33.19	14.84	63.1	83	32.8	7.8	278	2.65	13.5	2.1	8.1	8.7	23.5	0.16	1.15	0.37	48	0.33	0.020
90	Soil		1.31	37.86	13.09	66.3	111	33.1	9.6	279	2.62	15.3	1.1	5.5	8.0	28.3	0.10	1.22	0.31	45	0.34	0.034
91	Soil		0.10	6.05	43.90	79.6	170	23.7	2.9	125	0.69	10.1	7.1	3.1	33.7	41.8	0.09	0.27	0.85	5	0.61	0.009
101	Soil		1.93	5.14	8.10	4.8	34	1.0	1.2	38	0.62	2.0	0.8	<0.2	11.7	1.8	0.03	0.07	0.56	<2	<0.01	0.006
102	Soil		1.69	8.43	21.22	18.5	195	2.8	1.9	49	1.04	2.0	1.1	2.1	18.8	3.3	0.03	0.15	0.45	4	0.01	0.008
103	Soil		1.45	5.35	24.22	20.1	27	1.7	1.1	83	0.88	1.8	1.8	0.5	21.9	5.8	0.05	0.14	0.52	3	0.01	0.007
104	Soil		3.12	4.78	9.61	19.0	26	1.6	2.2	118	1.22	1.0	1.9	1.6	23.9	3.3	0.02	0.13	0.41	<2	0.01	0.009
105	Soil		1.76	9.05	13.12	31.2	16	0.9	3.2	36	1.34	1.7	1.5	0.4	23.3	3.1	0.08	0.11	0.53	<2	<0.01	0.008
106	Soil		1.27	7.44	17.62	16.6	24	1.6	1.4	109	0.66	3.0	1.5	1.8	20.8	7.1	0.01	0.12	0.29	<2	0.02	0.006
107	Soil		2.19	8.81	57.73	49.2	72	2.8	2.4	275	0.80	7.4	1.3	<0.2	16.6	5.2	0.13	0.22	0.56	7	0.09	0.050
108	Soil		0.58	5.60	39.70	30.0	32	1.5	1.4	92	0.64	2.1	1.4	0.2	21.7	4.0	0.05	0.16	0.45	3	<0.01	0.009
109	Soil		0.76	6.19	12.77	36.8	5	1.1	1.0	72	0.74	1.5	1.8	1.5	23.6	2.7	0.05	0.17	0.48	2	<0.01	0.005
110	Soil		1.20	2.75	5.76	7.6	8	1.7	1.7	72	0.76	1.3	0.9	3.2	15.5	4.5	0.02	0.13	0.28	2	0.02	0.006
111	Soil		0.72	9.61	5.45	17.1	11	7.1	5.2	216	1.56	1.2	1.6	10.4	20.4	5.7	0.03	0.27	0.28	10	0.03	0.012
112	Soil		1.00	6.85	14.58	22.1	4	0.8	1.8	179	0.80	0.5	1.5	3.1	30.6	3.7	0.11	0.10	0.46	<2	0.01	0.004
113	Soil		0.85	2.24	3.61	5.5	5	1.1	1.2	61	0.68	1.1	0.7	0.8	14.5	1.7	0.03	0.13	0.21	3	<0.01	0.010
114	Soil		3.34	4.07	6.26	8.8	17	1.8	1.2	60	1.97	1.5	2.0	3.5	18.9	5.4	0.02	0.12	0.82	<2	0.03	0.004
115	Soil		0.29	2.78	5.65	7.8	4	1.6	1.4	118	0.55	0.6	1.2	1.4	18.4	6.0	0.04	0.10	0.13	<2	0.02	0.007
116	Soil		1.44	14.17	16.73	26.6	52	6.4	3.1	110	1.25	3.1	1.9	1.1	14.0	9.5	0.03	0.35	0.28	14	0.06	0.016
117	Soil		3.00	7.40	18.22	20.8	24	3.8	2.0	49	1.89	2.7	1.2	2.5	21.8	5.5	0.02	0.24	0.72	8	0.03	0.010
118	Soil		3.21	8.43	22.87	23.9	27	5.8	3.0	72	1.66	3.2	0.9	1.7	16.9	2.7	0.01	0.20	0.62	10	0.02	0.010
119	Soil		3.19	4.21	22.13	20.7	29	2.7	2.3	105	1.92	1.9	1.2	0.6	26.9	1.0	0.03	0.12	0.78	<2	<0.01	0.010
120	Soil		1.82	18.29	16.29	34.9	87	12.6	5.0	153	1.93	6.3	1.3	1.5	15.9	18.3	0.03	0.50	0.45	25	0.14	0.017
121	Soil		2.71	12.86	27.01	23.4	33	5.4	2.0	63	1.54	5.7	0.7	1.9	12.0	7.3	0.04	0.35	0.80	12	0.04	0.011
122	Soil		1.89	28.38	24.43	42.0	30	13.6	6.9	239	2.35	9.0	2.1	4.2	12.4	13.2	0.03	0.67	0.54	35	0.08	0.015
123	Soil		1.13	8.44	15.07	23.1	39	6.9	2.9	101	1.32	3.7	1.2	3.9	15.3	9.5	0.05	0.32	0.38	18	0.06	0.014

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Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
85	Soil		12.5	13.8	0.37	141.7	0.004	2	2.43	0.037	0.61	1.1	1.7	0.49	<0.02	13	0.1	0.04	8.9			
86	Soil		24.1	16.3	0.46	37.9	0.002	4	1.39	0.044	0.32	0.5	1.3	0.33	<0.02	11	<0.1	0.08	5.1			
87	Soil		20.4	47.7	0.59	169.9	0.020	4	1.64	0.020	0.22	0.7	3.8	0.70	<0.02	40	0.3	0.07	6.4			
88	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	1.17	39.53	30.53
89	Soil		21.8	36.1	0.50	316.4	0.061	4	1.61	0.014	0.07	0.3	5.5	0.16	<0.02	30	<0.1	<0.02	5.2			
90	Soil		19.4	31.0	0.50	437.3	0.043	3	1.43	0.014	0.07	0.3	4.7	0.13	<0.02	56	0.3	0.05	4.5			
91	Soil		10.4	20.2	0.33	89.2	0.004	5	2.27	0.028	0.93	0.6	0.9	1.33	<0.02	34	<0.1	0.08	9.8			
101	Soil		10.2	1.7	0.01	68.8	0.001	<1	0.24	0.003	0.06	0.1	0.8	0.03	<0.02	5	<0.1	<0.02	0.4			
102	Soil		20.5	3.8	0.08	193.2	0.002	<1	0.68	0.002	0.06	0.2	1.4	0.06	<0.02	15	0.2	0.03	0.9			
103	Soil		49.0	3.7	0.05	487.4	0.003	<1	0.40	0.002	0.06	<0.1	1.7	0.05	<0.02	20	<0.1	<0.02	0.3			
104	Soil		25.6	2.5	0.20	108.8	0.002	1	0.67	0.002	0.06	0.2	1.4	0.09	<0.02	11	0.5	0.04	0.9			
105	Soil		32.5	2.8	0.15	101.6	0.002	<1	0.63	0.004	0.07	0.1	2.0	0.09	0.03	<5	0.2	0.04	1.1			
106	Soil		53.3	2.6	0.09	459.2	0.002	<1	0.40	0.003	0.06	<0.1	1.9	0.05	<0.02	15	<0.1	<0.02	0.3			
107	Soil		43.4	5.3	0.06	143.9	0.003	<1	0.58	0.002	0.08	<0.1	1.2	0.07	<0.02	13	<0.1	<0.02	0.8			
108	Soil		49.8	3.8	0.04	198.2	0.001	1	0.52	0.002	0.07	<0.1	0.9	0.06	<0.02	7	0.3	0.04	0.4			
109	Soil		56.5	3.3	0.06	198.9	0.001	<1	0.42	0.002	0.06	<0.1	1.4	0.05	<0.02	23	<0.1	0.02	0.2			
110	Soil		38.5	2.5	0.05	369.3	0.002	<1	0.37	0.002	0.06	<0.1	0.9	0.05	<0.02	10	0.1	0.06	0.3			
111	Soil		77.6	10.7	0.15	247.9	0.005	<1	0.70	0.002	0.09	0.1	4.8	0.11	<0.02	10	<0.1	0.02	1.8			
112	Soil		85.8	1.2	0.04	193.0	<0.001	<1	0.32	0.002	0.07	<0.1	1.9	0.06	<0.02	<5	0.1	0.03	<0.1			
113	Soil		8.1	2.1	0.03	104.7	0.002	<1	0.29	0.002	0.05	0.3	0.9	0.03	<0.02	6	<0.1	0.04	0.5			
114	Soil		35.8	1.8	0.04	551.1	0.001	<1	0.31	0.002	0.05	<0.1	1.2	0.03	<0.02	<5	0.4	0.07	0.5			
115	Soil		42.7	1.7	0.05	575.4	<0.001	<1	0.30	0.002	0.07	<0.1	1.4	0.04	<0.02	7	<0.1	<0.02	0.3			
116	Soil		50.3	10.6	0.16	400.2	0.013	<1	0.68	0.004	0.07	0.1	1.5	0.06	<0.02	11	0.3	0.04	1.6			
117	Soil		31.0	5.7	0.08	404.9	0.005	<1	0.58	0.003	0.06	<0.1	1.7	0.05	<0.02	19	0.5	0.05	1.4			
118	Soil		22.4	7.4	0.12	110.0	0.007	1	0.75	0.002	0.05	<0.1	1.4	0.05	<0.02	12	0.7	0.09	1.5			
119	Soil		14.1	3.1	0.13	68.1	<0.001	<1	0.67	0.002	0.04	<0.1	1.2	0.04	<0.02	10	0.3	0.06	1.2			
120	Soil		36.8	17.4	0.27	1262.6	0.020	<1	1.01	0.008	0.07	0.2	3.1	0.07	<0.02	29	<0.1	0.04	2.5			
121	Soil		29.4	8.6	0.11	610.7	0.015	<1	0.51	0.004	0.05	<0.1	1.8	0.03	<0.02	16	<0.1	0.04	1.4			
122	Soil		37.0	23.1	0.33	883.1	0.036	1	1.35	0.006	0.06	0.1	5.1	0.07	<0.02	35	0.3	0.02	3.5			
123	Soil		51.6	11.5	0.19	422.4	0.016	1	0.75	0.004	0.05	0.1	2.0	0.06	<0.02	14	0.3	<0.02	1.9			

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
85	Soil																				
86	Soil																				
87	Soil																				
88	Soil	71.1	59	69.6	11.4	236	2.30	11.6	3.7	2.1	20.1	25.7	0.15	1.12	0.60	37	0.42	0.026	18.7	54.9	0.56
89	Soil																				
90	Soil																				
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		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
85	Soil															
86	Soil															
87	Soil															
88	Soil		206.8	0.035	5	1.69	0.020	0.10	0.4	4.6	0.39	<0.02	35	0.3	0.04	6.1
89	Soil															
90	Soil															
91	Soil															
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CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	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	2	0.01	0.001
124	Soil		1.20	17.98	30.07	23.9	36	6.5	3.7	121	1.60	5.4	2.5	1.8	24.3	7.9	<0.01	0.40	0.52	12	0.03	0.018
125	Soil		1.18	14.36	29.35	70.5	74	23.6	6.5	348	2.19	6.7	1.1	1.3	11.0	9.4	0.23	0.52	0.20	35	0.08	0.018
126	Soil		0.28	5.31	27.58	33.1	57	2.4	1.2	68	0.97	3.7	0.9	0.8	15.0	4.7	0.04	0.43	0.31	6	0.01	0.006
127	Soil		0.23	7.81	42.85	81.1	23	2.8	1.3	233	2.16	1.9	3.0	0.7	28.0	6.4	0.06	0.30	0.27	6	0.03	0.008
128	Soil		0.33	5.35	34.19	33.0	36	2.6	1.0	41	0.75	2.5	1.2	<0.2	14.8	8.0	0.04	0.21	0.38	7	0.02	0.006
129	Soil		0.37	8.29	10.46	66.9	13	7.6	7.7	397	3.57	3.7	0.8	0.5	6.4	6.8	0.04	0.19	0.17	56	0.07	0.040
130	Soil		0.98	10.42	31.93	59.9	128	11.5	4.6	151	2.29	7.0	1.0	1.1	11.1	6.0	0.15	0.47	0.37	45	0.06	0.023
131	Soil		0.74	11.31	19.17	66.9	16	10.7	4.5	219	2.19	5.3	1.6	6.4	13.4	8.3	0.05	0.39	0.25	24	0.07	0.011
132	Soil		0.49	5.34	26.98	42.4	31	2.9	1.0	90	0.88	2.5	1.7	0.3	20.6	2.4	0.07	0.24	0.35	6	0.02	0.006
133	Soil		0.48	9.44	26.13	39.2	38	6.4	2.3	123	1.24	3.6	1.3	2.2	15.5	5.4	<0.01	0.30	0.25	18	0.04	0.006
134	Soil		0.45	14.68	29.23	52.4	19	6.3	3.7	236	1.47	3.8	1.8	0.5	21.3	7.0	0.06	0.51	0.31	15	0.05	0.010
135	Soil		0.43	3.57	30.98	43.3	17	3.4	2.5	196	1.14	2.6	2.1	<0.2	28.2	3.3	0.04	0.23	0.27	9	0.04	0.017
136	Soil		1.01	24.81	13.51	55.4	17	21.3	9.4	355	2.52	9.0	1.5	1.9	10.3	15.5	0.05	0.66	0.18	50	0.15	0.017
137	Soil		0.80	19.60	16.36	60.2	35	17.4	7.5	280	2.37	7.3	1.7	3.9	12.6	13.9	0.03	0.50	0.19	46	0.15	0.021
138	Soil		0.65	11.00	17.78	54.6	45	11.7	4.1	156	1.68	5.0	1.1	<0.2	16.6	7.3	0.12	0.36	0.20	25	0.07	0.015
139	Soil		0.62	15.47	19.32	50.8	27	12.5	5.7	216	1.87	6.5	1.3	<0.2	10.7	13.9	0.01	0.41	0.14	32	0.13	0.008
140	Soil		1.19	36.45	18.47	66.2	65	25.3	12.9	494	3.21	11.3	2.0	2.8	13.2	20.1	0.03	0.67	0.24	61	0.21	0.058
141	Soil		0.61	8.52	14.35	41.8	28	11.0	4.9	153	1.95	5.4	0.9	0.5	8.2	9.4	0.02	0.33	0.16	37	0.09	0.011
142	Soil		0.49	8.97	15.79	46.8	29	8.4	3.7	210	1.50	2.8	1.3	0.5	16.5	13.7	<0.01	0.25	0.06	18	0.07	0.008
143	Soil		0.67	14.10	13.93	46.4	15	10.2	6.1	273	1.67	5.0	1.2	0.8	14.7	18.4	0.01	0.33	0.15	24	0.15	0.012
144	Soil		0.63	19.63	14.58	59.2	32	17.7	7.8	348	2.26	6.1	1.0	1.0	13.2	15.6	0.04	0.47	0.18	40	0.15	0.013
145	Soil		0.79	9.96	12.61	40.6	21	13.7	7.9	229	2.02	6.2	1.1	0.9	6.3	12.8	0.06	0.49	0.13	36	0.17	0.013
146	Soil		0.73	15.14	7.46	91.6	13	13.6	18.9	784	4.52	5.7	0.7	<0.2	4.3	16.3	0.02	0.24	0.08	56	0.25	0.046
147	Soil		0.35	21.12	14.34	57.9	6	23.2	13.2	442	3.63	1.6	1.2	<0.2	15.3	13.1	0.02	0.65	0.09	40	0.19	0.050
148	Soil		1.11	28.35	61.90	115.6	241	90.8	24.2	1887	3.19	3.9	2.6	1.4	17.0	21.5	0.16	0.50	0.73	42	0.58	0.146
149	Soil		0.98	9.91	27.08	50.9	119	6.7	2.4	127	1.58	6.2	1.2	0.5	9.9	9.3	0.07	0.76	0.30	24	0.05	0.008
150	Soil		0.14	2.60	18.89	41.5	12	1.2	0.6	200	0.83	1.2	0.4	<0.2	21.6	13.3	0.06	0.18	0.19	<2	0.03	0.009
151	Soil		1.13	12.16	11.60	88.6	34	9.7	7.5	383	2.77	4.9	1.3	2.2	8.6	14.8	0.08	0.44	0.12	28	0.18	0.039
152	Soil		0.52	26.37	9.14	82.9	21	15.6	16.9	632	4.44	4.4	1.2	0.8	9.1	24.7	0.03	0.23	0.07	74	0.35	0.053
153	Soil		0.52	7.97	21.29	63.4	68	9.7	9.0	278	2.65	3.6	0.8	0.2	8.2	8.2	0.05	0.25	0.29	41	0.09	0.016

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Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
124	Soil		77.2	10.1	0.13	265.6	0.008	1	0.74	0.004	0.06	<0.1	3.2	0.06	<0.02	11	<0.1	0.03	1.0			
125	Soil		15.0	21.6	0.34	182.8	0.036	<1	1.80	0.006	0.10	<0.1	2.8	0.14	<0.02	37	0.2	0.05	4.2			
126	Soil		6.4	4.8	0.21	66.6	0.004	1	1.08	0.002	0.11	<0.1	2.0	0.28	<0.02	18	<0.1	<0.02	2.8			
127	Soil		96.6	5.2	1.09	87.4	0.037	<1	1.46	0.003	0.26	<0.1	5.0	0.45	<0.02	25	0.1	0.02	5.2			
128	Soil		8.2	4.3	0.19	65.3	0.005	<1	0.83	0.002	0.10	<0.1	1.0	0.19	<0.02	13	<0.1	<0.02	2.0			
129	Soil		4.8	15.8	1.35	145.1	0.212	<1	2.10	0.005	0.67	<0.1	5.3	0.38	<0.02	<5	0.2	0.02	8.6			
130	Soil		9.4	18.8	0.33	155.5	0.037	1	2.06	0.004	0.11	0.2	2.4	0.17	<0.02	16	<0.1	0.04	7.0			
131	Soil		19.2	15.9	0.51	122.9	0.051	2	1.46	0.005	0.14	0.1	3.6	0.23	<0.02	21	0.1	0.04	4.1			
132	Soil		3.1	4.4	0.31	59.1	0.013	2	1.00	0.002	0.12	<0.1	0.8	0.18	<0.02	8	0.3	0.03	2.1			
133	Soil		36.0	11.0	0.29	97.7	0.032	2	1.09	0.004	0.09	<0.1	2.6	0.21	<0.02	10	<0.1	<0.02	2.9			
134	Soil		50.1	10.9	0.33	110.4	0.026	<1	1.08	0.003	0.15	<0.1	4.4	0.30	<0.02	23	<0.1	<0.02	3.4			
135	Soil		17.9	5.8	0.55	68.6	0.032	<1	1.00	0.002	0.26	<0.1	2.2	0.36	<0.02	8	<0.1	0.03	2.9			
136	Soil		33.0	30.8	0.50	243.1	0.060	1	1.85	0.008	0.08	0.1	6.3	0.11	<0.02	47	0.3	0.02	4.5			
137	Soil		42.2	28.9	0.48	188.4	0.073	1	1.73	0.008	0.08	0.2	5.3	0.17	<0.02	34	<0.1	0.02	4.7			
138	Soil		20.4	16.7	0.31	114.4	0.038	1	1.36	0.005	0.09	0.1	2.4	0.17	<0.02	19	0.1	<0.02	3.5			
139	Soil		39.4	20.0	0.49	160.0	0.061	1	1.49	0.006	0.08	0.1	3.5	0.19	<0.02	28	<0.1	<0.02	4.4			
140	Soil		41.8	39.5	0.54	308.7	0.079	<1	2.34	0.015	0.09	0.2	8.4	0.19	<0.02	64	0.3	0.05	5.8			
141	Soil		13.8	21.4	0.36	132.6	0.056	2	1.56	0.007	0.06	0.1	2.9	0.18	<0.02	11	0.2	0.04	4.9			
142	Soil		44.4	12.3	0.35	127.8	0.042	1	1.09	0.004	0.11	<0.1	2.4	0.19	<0.02	10	0.1	0.02	3.1			
143	Soil		31.1	16.6	0.49	197.8	0.054	<1	1.13	0.006	0.11	0.1	4.1	0.21	<0.02	21	0.1	<0.02	3.8			
144	Soil		31.0	28.3	0.46	189.9	0.073	1	1.54	0.008	0.12	<0.1	5.4	0.24	<0.02	41	<0.1	<0.02	4.9			
145	Soil		11.2	30.8	0.66	224.0	0.060	2	1.66	0.004	0.10	<0.1	2.5	0.14	<0.02	8	0.1	<0.02	4.1			
146	Soil		12.3	22.8	1.41	214.6	0.169	1	2.67	0.004	0.91	<0.1	4.0	0.47	<0.02	10	0.4	0.02	7.5			
147	Soil		29.7	33.7	0.99	1923.5	0.116	1	1.94	0.003	0.71	<0.1	9.2	0.60	<0.02	9	0.2	0.03	6.5			
148	Soil		55.0	76.8	1.81	596.9	0.101	1	1.95	0.008	0.66	<0.1	5.7	1.24	<0.02	60	<0.1	0.10	5.4			
149	Soil		22.5	13.4	0.27	133.8	0.022	2	1.34	0.004	0.12	0.1	2.6	0.22	<0.02	22	<0.1	0.03	4.4			
150	Soil		59.0	2.3	0.34	93.4	0.008	3	0.84	0.002	0.22	<0.1	2.7	0.25	<0.02	<5	0.1	0.03	2.2			
151	Soil		9.5	14.7	0.94	280.0	0.100	1	1.85	0.007	0.68	<0.1	3.0	0.47	<0.02	9	0.3	0.03	5.8			
152	Soil		79.3	37.5	2.84	596.6	0.257	2	3.57	0.012	1.30	<0.1	4.0	0.57	<0.02	7	0.2	0.03	9.5			
153	Soil		8.2	20.7	1.16	225.9	0.147	2	1.97	0.007	0.61	<0.1	2.8	0.36	<0.02	10	0.2	<0.02	6.5			

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
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		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
124	Soil															
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		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	2	0.01	0.001
154	Soil		0.51	6.96	12.76	55.5	26	6.8	4.4	268	2.13	4.1	1.2	<0.2	12.5	8.2	0.02	0.22	0.38	24	0.09	0.017
155	Soil		0.33	5.03	8.42	49.2	59	5.4	8.9	331	2.36	2.8	0.7	0.7	4.5	24.1	0.07	0.26	0.07	37	0.23	0.035
156	Soil		0.39	9.78	7.21	57.3	8	8.7	11.2	374	2.89	3.0	0.7	1.1	5.3	20.0	<0.01	0.27	0.07	43	0.26	0.016
157	Soil		0.46	6.94	15.57	87.5	10	10.4	17.3	596	4.71	4.2	0.6	<0.2	4.7	21.9	0.02	0.25	0.27	66	0.26	0.033
158	Soil		0.87	9.13	9.88	89.1	15	3.1	3.4	468	3.36	2.1	0.9	<0.2	8.4	5.6	<0.01	0.28	0.10	11	0.06	0.018
159	Soil		0.31	9.70	6.24	64.6	16	9.8	13.7	419	3.49	3.0	0.7	0.2	5.0	21.6	0.02	0.24	0.05	52	0.35	0.062
160	Soil		0.37	4.23	5.44	70.8	15	7.8	13.2	559	3.87	2.9	0.5	<0.2	4.1	13.6	0.01	0.15	0.05	58	0.25	0.037
161	Soil		0.32	15.16	7.07	82.3	16	8.7	16.3	512	4.29	3.1	0.5	<0.2	3.4	16.9	0.02	0.24	0.06	57	0.27	0.029
162	Soil		0.74	12.61	17.74	68.5	124	10.7	10.6	390	3.32	3.7	1.3	2.0	8.5	12.5	0.10	0.38	0.19	43	0.17	0.038
163	Soil		1.09	8.85	12.94	38.6	39	10.5	5.3	178	2.47	6.6	0.6	3.5	5.9	7.2	0.11	0.46	0.21	53	0.07	0.030
164	Soil		0.30	6.06	11.92	46.5	43	3.7	2.2	225	1.55	2.1	2.1	0.5	12.4	14.8	<0.01	0.29	0.18	11	0.04	0.017
165	Soil		0.80	4.79	24.99	69.0	22	1.9	2.5	321	2.34	2.2	1.3	0.6	16.8	2.9	0.06	0.29	0.38	4	0.02	0.011
166	Soil		0.59	7.37	14.99	47.3	29	3.2	2.6	160	1.83	5.8	1.5	1.2	11.5	5.5	0.04	0.81	0.31	14	0.02	0.010
167	Soil		0.69	14.98	22.28	51.9	25	10.3	4.9	378	1.80	4.7	2.0	1.8	13.5	19.1	0.09	1.55	0.21	21	0.17	0.018
168	Soil		0.43	7.78	15.02	34.0	31	4.6	2.3	122	1.31	3.6	1.6	1.4	16.9	6.2	0.02	0.63	0.23	13	0.04	0.005
169	Soil		0.71	15.95	24.84	49.9	33	9.1	4.9	319	1.91	4.7	2.5	1.9	14.5	17.2	0.07	1.75	0.22	22	0.13	0.010
170	Soil		0.64	15.02	21.70	50.6	11	14.6	5.6	221	1.96	8.3	1.8	<0.2	17.2	10.5	0.07	0.56	0.56	33	0.09	0.010
171	Soil		0.46	10.00	17.01	44.6	27	7.6	3.6	177	1.43	4.0	1.7	<0.2	10.4	8.0	0.06	0.37	0.21	22	0.07	0.009
172	Soil		0.43	7.33	11.66	25.6	28	4.6	1.5	106	0.95	2.9	2.6	<0.2	14.9	3.6	0.06	0.38	0.32	12	0.03	0.006
173	Soil		0.31	8.72	10.41	44.3	9	5.8	2.6	192	1.35	2.5	1.4	<0.2	16.7	13.4	0.03	0.35	0.14	16	0.04	0.011
174	Soil		0.75	13.70	14.83	41.0	30	9.9	4.2	165	1.73	3.7	2.0	1.6	12.4	9.7	0.03	0.47	0.12	28	0.06	0.008
175	Soil		0.61	8.08	20.38	59.6	11	6.2	4.0	251	2.20	4.1	1.3	0.6	13.6	5.3	0.05	0.31	0.10	22	0.04	0.016
176	Soil		0.37	19.49	9.70	73.4	7	13.7	15.5	615	4.06	2.3	0.5	0.7	6.9	10.9	0.07	0.20	0.10	57	0.16	0.037
177	Soil		0.38	5.21	6.74	56.3	3	4.7	7.3	379	3.57	1.7	1.2	<0.2	10.0	15.0	0.03	0.10	0.08	24	0.17	0.046
178	Soil		0.18	18.89	11.14	72.1	5	6.0	10.0	568	3.72	1.1	1.1	1.0	13.5	8.2	0.04	0.16	0.27	32	0.13	0.054
179	Soil		0.36	5.35	18.52	101.6	11	31.0	22.3	1098	5.96	1.0	1.8	<0.2	12.3	19.8	0.05	0.37	0.14	93	0.41	0.106
180	Soil		0.23	4.00	29.58	39.9	11	3.2	2.2	217	1.01	1.6	1.3	0.9	20.6	7.2	0.02	0.16	0.30	4	0.04	0.008
181	Soil		0.50	11.40	29.31	67.7	31	7.4	2.7	169	1.63	3.3	1.8	0.7	25.5	16.3	0.05	0.25	0.16	14	0.05	0.011
182	Soil		0.55	4.34	26.74	47.7	9	2.1	1.4	131	1.41	1.7	2.0	<0.2	29.3	28.7	0.04	0.20	0.35	5	0.01	0.015
183	Soil		0.69	9.31	25.79	62.0	38	8.0	4.3	201	1.79	3.6	1.7	<0.2	18.4	21.4	0.04	0.27	0.19	21	0.12	0.016

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604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
154	Soil		5.9	11.6	0.60	169.8	0.096	1	1.25	0.006	0.36	<0.1	1.9	0.28	<0.02	<5	<0.1	0.04	5.9			
155	Soil		8.5	11.1	1.10	397.4	0.184	<1	1.54	0.007	0.78	0.1	2.5	0.72	<0.02	<5	<0.1	0.04	4.9			
156	Soil		13.7	17.6	1.25	338.6	0.200	1	2.03	0.007	0.70	<0.1	3.3	0.44	<0.02	<5	0.4	<0.02	5.5			
157	Soil		15.4	24.2	2.12	409.4	0.248	<1	3.29	0.010	1.14	<0.1	2.6	0.55	<0.02	<5	0.3	0.03	8.5			
158	Soil		10.4	5.4	0.69	210.9	0.150	1	1.61	0.005	0.68	<0.1	6.4	0.71	<0.02	12	0.1	0.02	7.2			
159	Soil		17.9	18.4	1.73	391.9	0.216	3	2.59	0.006	0.90	<0.1	2.3	0.38	<0.02	<5	<0.1	<0.02	6.7			
160	Soil		7.8	17.6	1.98	382.1	0.214	2	2.82	0.009	1.36	0.1	2.0	0.49	<0.02	<5	<0.1	0.03	7.4			
161	Soil		6.9	17.6	1.99	341.0	0.279	2	2.96	0.007	1.60	0.1	2.3	0.62	<0.02	<5	<0.1	0.02	7.2			
162	Soil		23.8	22.7	1.22	264.5	0.157	2	2.10	0.005	0.66	0.1	4.0	0.64	<0.02	10	0.1	0.03	6.2			
163	Soil		11.3	22.4	0.30	135.1	0.067	<1	1.75	0.005	0.07	0.2	2.4	0.14	<0.02	25	0.4	0.06	6.9			
164	Soil		43.3	6.0	0.20	99.0	0.034	<1	0.72	0.003	0.18	<0.1	2.4	0.26	<0.02	35	<0.1	<0.02	3.6			
165	Soil		52.4	3.9	1.12	81.8	0.102	<1	1.65	0.003	0.52	<0.1	2.9	0.74	<0.02	<5	<0.1	0.03	4.7			
166	Soil		8.7	7.4	0.27	74.3	0.036	1	1.13	0.003	0.23	<0.1	1.7	0.39	<0.02	38	0.1	0.04	4.5			
167	Soil		39.0	12.9	0.26	177.3	0.034	2	0.80	0.008	0.09	0.1	2.9	0.14	<0.02	373	<0.1	0.02	2.3			
168	Soil		40.4	7.3	0.21	106.9	0.032	<1	0.78	0.003	0.11	<0.1	2.3	0.22	<0.02	43	0.2	<0.02	2.5			
169	Soil		48.9	13.9	0.27	201.5	0.036	1	0.87	0.006	0.07	<0.1	3.5	0.14	<0.02	342	0.1	<0.02	2.5			
170	Soil		37.8	19.0	0.47	147.9	0.052	<1	1.45	0.007	0.11	0.1	2.7	0.23	<0.02	23	0.2	<0.02	4.3			
171	Soil		43.5	11.8	0.25	128.5	0.039	<1	0.84	0.004	0.08	<0.1	2.3	0.13	<0.02	20	<0.1	0.02	3.3			
172	Soil		56.0	8.1	0.16	149.7	0.014	<1	0.73	0.002	0.05	<0.1	2.9	0.14	<0.02	33	0.2	<0.02	2.1			
173	Soil		39.8	8.3	0.21	112.1	0.036	<1	0.79	0.006	0.11	<0.1	2.2	0.20	<0.02	56	0.2	<0.02	3.0			
174	Soil		34.5	18.3	0.26	161.7	0.042	<1	1.25	0.005	0.08	0.1	4.3	0.15	<0.02	46	0.3	0.03	3.5			
175	Soil		46.4	11.7	0.53	90.0	0.070	<1	1.41	0.004	0.24	<0.1	3.2	0.38	<0.02	16	<0.1	<0.02	4.7			
176	Soil		22.2	23.5	1.79	191.4	0.218	<1	2.48	0.005	1.13	<0.1	2.7	0.97	<0.02	<5	0.2	<0.02	8.1			
177	Soil		18.7	8.6	1.21	294.6	0.176	1	1.79	0.005	0.94	<0.1	6.4	0.65	<0.02	<5	0.2	<0.02	7.5			
178	Soil		42.8	7.7	1.28	278.7	0.147	<1	1.85	0.004	1.01	<0.1	5.8	0.80	<0.02	11	0.1	<0.02	6.3			
179	Soil		42.5	51.7	2.27	359.8	0.147	1	2.72	0.007	1.57	<0.1	14.2	1.30	<0.02	57	0.1	0.03	11.5			
180	Soil		30.2	3.6	0.62	71.8	0.029	1	1.00	0.003	0.34	<0.1	1.4	0.39	<0.02	7	<0.1	<0.02	2.3			
181	Soil		68.3	10.4	0.55	104.6	0.048	<1	1.29	0.004	0.20	<0.1	2.6	0.31	<0.02	10	<0.1	<0.02	3.8			
182	Soil		56.4	4.6	0.39	76.0	0.026	<1	0.87	0.002	0.21	<0.1	1.7	0.27	<0.02	<5	<0.1	<0.02	2.6			
183	Soil		38.3	12.8	0.69	162.7	0.055	<1	1.24	0.007	0.28	0.1	2.5	0.34	<0.02	12	<0.1	<0.02	3.8			

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
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		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
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		Method	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	2	0.01	0.001
184	Soil		0.59	18.54	13.47	67.4	21	15.5	9.6	332	2.82	4.2	1.7	1.0	10.9	21.5	0.05	0.41	0.13	47	0.22	0.014
185	Soil		0.80	20.92	15.82	63.5	35	19.4	8.2	308	2.61	7.2	1.4	1.8	10.0	15.8	0.06	0.61	0.18	50	0.16	0.021
186	Soil		0.16	82.94	6.70	81.4	109	69.5	33.8	742	4.48	25.5	1.3	1.4	20.9	23.1	<0.01	0.33	0.21	18	1.11	0.078
187	Soil		0.14	52.76	13.68	50.4	52	56.1	21.5	363	2.93	1.3	1.2	1.2	9.5	123.9	0.02	0.07	0.22	11	6.44	0.070
188	Soil		0.08	40.09	4.48	69.3	29	50.2	20.3	184	2.35	0.6	0.9	0.9	9.9	27.9	0.02	0.07	0.14	11	0.76	0.054
189	Soil		0.43	70.05	4.77	89.2	7	68.4	30.4	135	3.85	2.5	1.3	0.6	14.3	12.2	0.01	0.17	0.23	38	0.13	0.056
190	Soil		0.50	39.70	4.02	62.1	6	35.8	17.1	81	2.66	2.7	0.9	4.2	4.5	5.1	0.02	0.22	0.27	22	0.04	0.020
191	Soil		0.13	28.37	7.18	74.6	53	42.8	18.8	384	3.71	0.6	1.0	2.5	6.9	61.5	<0.01	0.05	0.08	12	2.59	0.043
192	Soil		0.32	46.15	4.62	93.4	34	65.1	25.6	199	3.87	1.2	0.9	1.3	6.9	46.1	0.01	0.09	0.08	20	0.29	0.038
193	Soil		0.17	18.07	15.38	38.1	37	31.7	13.4	584	2.72	0.6	0.9	0.7	3.0	1075.1	0.05	0.04	0.08	6	17.63	0.076
194	Soil		0.15	24.70	6.84	81.5	15	49.1	18.8	284	3.12	0.4	0.7	2.7	12.9	155.3	0.04	0.08	0.21	19	4.30	0.044
195	Soil		0.12	28.21	7.76	83.7	61	41.4	15.7	405	3.02	0.8	0.4	1.8	3.8	194.9	0.05	0.07	0.09	27	2.33	0.060
196	Soil		0.25	23.35	9.34	49.3	51	31.9	12.7	510	2.78	1.8	0.7	2.1	4.7	106.0	0.03	0.10	0.10	16	3.56	0.032
197	Soil		0.35	37.38	7.41	73.4	12	45.7	22.2	211	3.56	2.9	0.8	0.9	4.9	39.3	0.03	0.13	0.18	29	0.28	0.027
198	Soil		0.20	24.57	12.76	37.5	47	29.9	13.6	499	2.90	1.2	0.8	1.5	6.5	154.0	0.02	0.06	0.14	11	6.24	0.055
199	Soil		0.18	20.13	14.13	78.1	52	35.2	12.9	615	3.82	1.1	1.0	0.8	10.1	77.6	0.05	0.07	0.21	21	0.89	0.043
200	Soil		0.10	22.72	4.22	66.8	23	35.4	16.7	320	3.05	0.8	0.4	1.1	5.6	115.2	0.01	0.07	0.08	26	1.59	0.043
201	Soil		0.12	35.81	8.00	62.5	23	49.3	21.1	386	2.46	1.3	0.6	1.9	6.2	92.3	0.09	0.17	0.15	14	4.37	0.075
202	Soil		0.17	43.83	9.14	81.0	33	54.5	24.5	264	2.74	1.7	0.7	0.7	10.2	55.6	0.05	0.17	0.23	13	1.70	0.076
203	Soil		0.21	43.06	12.22	88.7	71	62.1	25.7	761	3.31	1.6	0.7	0.6	8.9	38.9	0.11	0.25	0.21	16	1.32	0.079
204	Soil		0.28	72.18	9.15	98.5	20	83.3	32.6	432	3.52	1.7	0.7	0.5	10.5	30.3	0.05	0.17	0.24	23	0.38	0.052
205	Soil		0.84	52.38	5.63	85.3	28	47.5	21.2	138	3.31	1.6	2.0	2.1	15.1	29.9	0.03	0.24	0.43	21	0.09	0.042
206	Soil		0.38	69.07	5.62	85.8	47	105.5	37.9	453	3.40	0.1	1.3	1.3	13.8	27.7	0.03	0.12	0.26	15	0.80	0.113
207	Soil		0.26	32.79	9.55	71.1	64	46.6	19.0	305	2.84	3.2	0.6	1.6	5.7	206.3	0.10	0.23	0.16	24	3.41	0.070
208	Soil		0.14	43.65	8.74	77.1	36	57.5	22.8	378	3.46	1.8	0.6	1.3	7.8	109.3	0.06	0.08	0.15	19	1.91	0.084
209	Soil		0.13	30.11	4.68	79.1	260	41.3	18.4	208	3.22	0.6	0.5	1.0	4.0	102.4	0.03	0.07	0.07	20	3.75	0.057
210	Soil		0.08	25.04	9.23	63.7	46	37.4	15.2	281	2.77	0.2	0.5	<0.2	5.5	813.1	<0.01	0.07	0.10	14	4.81	0.068
211	Soil		0.15	30.76	11.71	52.0	51	45.2	17.4	494	3.56	1.1	1.0	<0.2	8.8	176.3	0.06	0.07	0.20	14	7.32	0.070
212	Soil		0.05	20.13	6.00	51.4	22	27.7	13.7	317	2.45	0.4	0.4	0.6	5.5	223.2	0.02	0.05	0.08	12	5.05	0.045
213	Soil		0.17	154.75	6.18	58.5	40	99.6	28.0	477	4.38	1.0	0.4	0.7	4.4	50.8	0.05	0.04	0.08	79	0.98	0.102

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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
184	Soil		38.8	25.9	1.46	316.0	0.116	<1	2.15	0.007	0.42	<0.1	4.7	0.32	<0.02	18	<0.1	<0.02	5.9			
185	Soil		36.9	30.6	0.59	235.3	0.062	<1	1.86	0.010	0.08	0.1	5.1	0.15	<0.02	47	<0.1	0.02	4.6			
186	Soil		53.1	34.1	0.94	61.0	0.003	<1	2.05	0.004	0.06	<0.1	4.2	0.06	<0.02	<5	0.1	0.04	5.2			
187	Soil		26.8	18.6	0.50	40.3	0.009	<1	1.03	0.004	0.06	<0.1	3.6	0.11	<0.02	14	0.2	0.05	3.3			
188	Soil		26.6	15.4	0.47	32.2	0.032	<1	0.96	0.004	0.12	<0.1	2.1	0.30	<0.02	<5	<0.1	0.04	2.8			
189	Soil		47.3	41.0	1.27	92.7	0.040	<1	2.47	0.004	0.08	<0.1	2.8	0.22	<0.02	<5	0.4	0.10	6.1			
190	Soil		19.2	24.6	0.56	81.5	0.015	<1	1.70	0.004	0.03	<0.1	2.0	0.05	<0.02	9	<0.1	0.07	4.8			
191	Soil		21.5	16.9	0.58	36.6	0.056	<1	1.23	0.004	0.26	<0.1	3.0	0.40	<0.02	13	<0.1	0.04	3.1			
192	Soil		26.3	26.7	0.67	58.1	0.061	<1	1.36	0.006	0.23	<0.1	3.9	0.34	<0.02	16	<0.1	0.02	4.1			
193	Soil		16.0	7.1	0.33	33.9	0.009	<1	0.55	0.004	0.05	<0.1	3.8	0.07	<0.02	<5	0.3	<0.02	1.3			
194	Soil		32.7	25.1	0.79	65.0	0.008	3	1.42	0.004	0.05	<0.1	2.8	0.07	<0.02	7	<0.1	<0.02	4.9			
195	Soil		10.2	38.8	0.86	114.8	0.104	<1	1.89	0.009	0.43	<0.1	3.6	0.33	<0.02	15	<0.1	0.02	5.3			
196	Soil		14.2	18.4	0.53	75.1	0.068	<1	1.15	0.006	0.23	<0.1	3.6	0.27	<0.02	18	0.2	0.02	3.0			
197	Soil		14.8	30.2	0.91	126.0	0.050	1	2.05	0.006	0.10	<0.1	3.4	0.12	<0.02	<5	<0.1	<0.02	5.9			
198	Soil		15.4	12.2	0.38	68.1	0.042	2	0.97	0.007	0.11	<0.1	3.7	0.18	<0.02	<5	0.2	0.02	2.3			
199	Soil		33.7	33.7	0.88	145.6	0.110	2	1.98	0.006	0.38	<0.1	4.9	0.32	<0.02	12	0.1	<0.02	5.8			
200	Soil		9.2	38.1	0.84	82.0	0.098	<1	1.82	0.009	0.52	<0.1	3.3	0.28	<0.02	<5	<0.1	0.02	4.9			
201	Soil		18.6	18.0	0.66	75.8	0.036	2	1.15	0.005	0.18	<0.1	2.6	0.28	<0.02	<5	0.1	<0.02	3.4			
202	Soil		32.1	15.3	0.52	99.7	0.015	2	1.10	0.005	0.08	<0.1	3.0	0.13	<0.02	6	0.2	0.04	3.6			
203	Soil		28.6	17.9	0.47	160.5	0.028	<1	1.40	0.005	0.10	<0.1	3.7	0.21	<0.02	11	<0.1	0.05	4.0			
204	Soil		35.9	28.9	0.83	127.3	0.038	<1	1.97	0.006	0.16	<0.1	4.7	0.27	<0.02	9	<0.1	<0.02	5.4			
205	Soil		61.6	24.6	0.68	108.7	0.020	2	1.59	0.004	0.03	<0.1	4.2	0.09	<0.02	13	<0.1	0.04	4.1			
206	Soil		74.5	29.9	0.62	66.6	0.021	1	1.25	0.004	0.13	<0.1	2.5	0.18	<0.02	9	<0.1	0.08	3.0			
207	Soil		18.0	22.8	0.62	126.1	0.036	<1	1.52	0.009	0.19	<0.1	3.5	0.23	<0.02	13	<0.1	0.03	4.4			
208	Soil		26.7	24.2	0.71	56.1	0.028	1	1.60	0.005	0.16	<0.1	3.4	0.22	<0.02	12	<0.1	0.03	4.6			
209	Soil		12.3	27.2	0.79	78.6	0.083	<1	1.51	0.009	0.50	<0.1	3.0	0.42	<0.02	9	0.1	<0.02	4.5			
210	Soil		17.1	19.0	0.55	67.2	0.048	1	1.49	0.007	0.26	<0.1	2.8	0.21	<0.02	<5	0.3	0.03	4.0			
211	Soil		25.2	27.2	0.54	44.3	0.032	<1	1.19	0.003	0.14	<0.1	3.1	0.11	<0.02	12	<0.1	<0.02	3.3			
212	Soil		14.9	17.0	0.56	36.1	0.078	<1	1.22	0.004	0.46	<0.1	2.0	0.29	<0.02	<5	0.2	<0.02	3.4			
213	Soil		14.0	192.5	1.84	185.7	0.117	<1	2.57	0.011	0.55	<0.1	10.2	0.42	<0.02	<5	<0.1	0.03	9.6			

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Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
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		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
184	Soil															
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		Method	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	2	0.01	0.001
214	Soil		0.11	22.18	7.06	48.2	19	26.7	14.8	367	2.51	0.2	0.5	<0.2	3.9	136.7	0.02	0.03	0.07	12	5.03	0.050
215	Soil		0.10	13.71	7.20	63.9	25	24.1	10.6	283	2.78	1.6	0.5	0.8	6.1	296.8	0.02	0.04	0.10	12	7.82	0.043
216	Soil		0.08	22.09	6.07	64.5	32	30.6	16.2	295	2.81	0.3	0.5	0.5	6.7	200.8	<0.01	0.03	0.10	17	2.48	0.043
217	Soil		0.02	14.49	3.55	47.7	21	22.7	13.5	193	1.86	<0.1	0.4	0.3	4.1	111.5	<0.01	0.03	0.05	15	0.70	0.055
218	Soil		0.14	28.93	7.85	66.8	68	39.0	16.3	433	3.27	0.3	0.6	1.2	6.2	300.6	0.03	0.03	0.12	21	1.22	0.049
219	Soil		0.17	19.36	4.78	60.4	24	32.1	14.2	234	2.71	0.3	0.6	1.6	7.1	119.8	<0.01	0.04	0.07	19	1.25	0.042
220	Soil		0.14	25.58	9.21	84.1	28	42.1	20.9	340	4.04	0.2	0.9	0.8	8.3	185.4	0.02	0.05	0.15	23	5.33	0.042
221	Soil		0.22	23.26	4.11	66.5	30	40.2	15.9	207	3.40	0.4	0.7	0.6	7.1	70.2	0.03	0.05	0.10	17	0.35	0.032
222	Soil		0.27	21.55	7.40	48.3	40	37.3	15.1	458	2.70	0.4	0.6	0.6	4.6	225.3	0.02	0.03	0.07	13	9.14	0.050
223	Soil		0.12	18.22	1.47	50.6	5	41.0	18.0	73	2.10	0.3	0.9	<0.2	11.3	19.0	0.01	0.03	0.03	16	0.16	0.043
224	Soil		0.29	25.78	13.74	50.7	17	40.5	13.9	541	3.37	5.6	1.0	<0.2	7.9	82.6	0.04	0.11	0.12	17	0.30	0.037
225	Soil		0.15	16.31	9.75	23.0	46	28.5	12.1	428	1.93	<0.1	0.6	0.4	2.6	>2000	0.02	0.04	0.09	4	18.27	0.078
226	Soil		0.16	17.53	10.15	41.7	26	28.4	16.0	518	2.72	0.4	0.7	1.4	5.1	856.2	0.02	0.06	0.13	9	13.69	0.042
227	Soil		0.30	31.53	41.67	98.2	107	40.6	21.1	629	3.89	1.3	1.7	1.2	15.5	200.0	0.13	0.12	0.49	18	2.97	0.049
228	Soil		0.07	7.30	11.88	14.5	25	13.4	8.4	378	1.56	1.1	0.5	1.4	3.8	1750.5	0.02	0.03	0.09	5	21.76	0.038
229	Soil		0.13	16.13	6.59	32.2	23	24.0	12.5	256	1.83	0.7	0.7	0.4	4.0	542.2	<0.01	0.05	0.06	6	14.51	0.061
230	Soil		0.15	23.69	3.26	77.1	9	60.2	21.6	118	3.94	0.7	0.5	<0.2	5.9	24.7	0.01	0.03	0.09	33	0.35	0.038
231	Soil		0.26	49.31	10.37	61.1	44	73.2	36.5	451	3.85	1.2	0.9	0.5	8.0	213.5	0.03	0.08	0.16	16	7.96	0.045
232	Soil		0.44	40.50	8.16	43.4	53	41.8	20.4	524	2.94	0.4	0.8	0.6	4.9	163.6	0.02	0.05	0.10	11	10.77	0.060
233	Soil		0.90	53.49	5.38	97.6	17	44.3	21.6	112	4.18	4.6	1.5	0.6	5.4	8.2	0.01	0.26	0.26	29	0.06	0.052
234	Soil		0.25	48.04	10.87	97.1	63	71.3	31.8	465	3.81	0.2	0.9	1.8	11.5	45.6	0.05	0.04	0.22	11	1.46	0.074
235	Soil		0.07	27.23	9.49	56.7	44	39.9	18.2	358	2.46	0.6	0.6	0.8	5.7	79.5	0.02	0.08	0.13	7	5.85	0.063

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	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
	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	0.01	0.01	0.01
214	Soil	8.8	17.8	0.53	52.8	0.088	<1	1.27	0.004	0.41	<0.1	1.9	0.31	<0.02	8	0.1	0.03	3.3			
215	Soil	14.1	23.4	0.76	73.6	0.075	<1	1.46	0.005	0.48	<0.1	1.8	0.31	<0.02	<5	0.3	0.02	3.5			
216	Soil	14.5	26.0	0.74	79.9	0.102	<1	1.61	0.007	0.50	<0.1	2.3	0.27	<0.02	<5	<0.1	<0.02	5.3			
217	Soil	9.1	26.7	0.60	64.7	0.084	<1	1.46	0.007	0.56	<0.1	2.0	0.32	<0.02	<5	<0.1	<0.02	3.6			
218	Soil	19.0	30.8	0.92	69.3	0.138	<1	1.95	0.010	0.69	<0.1	3.9	0.44	<0.02	16	0.3	0.03	4.9			
219	Soil	17.2	27.2	0.77	56.8	0.133	<1	1.93	0.006	0.49	<0.1	3.1	0.36	<0.02	5	0.1	<0.02	5.3			
220	Soil	21.4	35.9	1.08	70.8	0.110	3	2.30	0.007	0.36	<0.1	3.6	0.29	<0.02	5	<0.1	<0.02	7.4			
221	Soil	15.5	24.7	0.81	71.7	0.111	2	1.71	0.004	0.30	<0.1	3.2	0.23	<0.02	6	<0.1	<0.02	4.6			
222	Soil	10.6	19.6	0.62	68.3	0.093	1	1.26	0.006	0.44	<0.1	2.6	0.36	<0.02	<5	0.5	0.04	3.5			
223	Soil	16.8	23.4	0.68	51.3	0.091	<1	1.35	0.007	0.57	<0.1	3.0	0.50	<0.02	<5	0.3	0.05	4.1			
224	Soil	16.7	23.8	0.65	106.9	0.089	2	1.62	0.005	0.25	<0.1	4.0	0.22	<0.02	<5	0.3	<0.02	4.1			
225	Soil	9.1	5.1	0.32	27.9	0.017	1	0.34	0.002	0.06	<0.1	2.0	0.08	<0.02	9	0.3	0.06	0.9			
226	Soil	17.3	13.4	0.50	33.8	0.036	<1	0.93	0.004	0.19	<0.1	2.3	0.17	<0.02	5	0.3	0.05	2.6			
227	Soil	71.1	23.3	0.68	73.7	0.026	2	1.91	0.005	0.10	0.1	5.4	0.11	<0.02	13	<0.1	0.04	5.3			
228	Soil	12.8	6.4	0.23	34.2	0.005	<1	0.40	0.003	0.03	<0.1	2.1	0.02	<0.02	<5	0.4	0.08	1.2			
229	Soil	8.7	8.3	0.23	35.8	0.023	<1	0.49	0.003	0.10	<0.1	2.2	0.08	<0.02	<5	0.2	0.04	1.5			
230	Soil	12.9	36.5	1.31	98.4	0.052	<1	2.14	0.006	0.23	<0.1	4.5	0.25	<0.02	<5	<0.1	0.02	7.6			
231	Soil	31.1	27.0	0.59	71.2	0.028	<1	1.39	0.004	0.12	<0.1	4.8	0.24	<0.02	16	0.2	0.04	4.2			
232	Soil	14.4	18.1	0.42	57.1	0.022	<1	0.86	0.004	0.12	<0.1	2.9	0.13	<0.02	12	0.2	0.02	2.4			
233	Soil	23.9	28.8	0.63	95.8	0.017	<1	2.09	0.005	0.03	0.1	5.8	0.05	<0.02	9	<0.1	0.09	5.3			
234	Soil	34.9	16.0	0.47	36.4	0.014	<1	1.25	0.005	0.08	<0.1	3.9	0.17	<0.02	12	<0.1	0.03	3.6			
235	Soil	19.7	9.3	0.38	64.3	0.011	<1	0.73	0.003	0.05	<0.1	2.4	0.13	<0.02	11	0.1	0.03	2.3			

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
214	Soil																				
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Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

CERTIFICATE OF ANALYSIS WHI16000288.1

		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
214	Soil															
215	Soil															
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QUALITY CONTROL REPORT WHI16000288.1

	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	2	0.01	0.001
Pulp Duplicates																					
39	Soil	0.84	15.25	18.85	56.4	106	25.1	5.0	130	1.74	13.5	2.3	2.9	12.8	26.8	0.09	0.57	0.43	29	0.23	0.013
REP 39	QC	0.81	14.89	18.50	55.3	114	24.8	4.7	119	1.70	12.3	2.3	1.9	12.5	25.3	0.12	0.59	0.39	28	0.23	0.012
64	Soil	1.09	11.72	16.33	64.6	150	49.5	4.7	94	1.09	33.6	4.8	1.9	16.2	14.3	0.07	0.46	1.75	7	0.20	0.015
REP 64	QC	1.11	11.75	16.03	61.0	139	51.2	4.6	95	1.06	34.2	4.7	1.3	15.9	13.9	0.07	0.48	1.78	8	0.20	0.016
118	Soil	3.21	8.43	22.87	23.9	27	5.8	3.0	72	1.66	3.2	0.9	1.7	16.9	2.7	0.01	0.20	0.62	10	0.02	0.010
REP 118	QC	3.47	8.82	23.73	24.4	21	5.5	3.1	76	1.71	3.6	1.0	1.2	17.3	2.9	0.01	0.26	0.64	10	0.02	0.010
150	Soil	0.14	2.60	18.89	41.5	12	1.2	0.6	200	0.83	1.2	0.4	<0.2	21.6	13.3	0.06	0.18	0.19	<2	0.03	0.009
REP 150	QC	0.17	2.89	19.05	38.6	14	1.1	0.6	195	0.82	1.2	0.4	<0.2	22.0	13.9	<0.01	0.18	0.21	<2	0.03	0.004
173	Soil	0.31	8.72	10.41	44.3	9	5.8	2.6	192	1.35	2.5	1.4	<0.2	16.7	13.4	0.03	0.35	0.14	16	0.04	0.011
REP 173	QC	0.30	8.81	10.30	46.3	11	5.5	2.8	217	1.30	2.4	1.5	<0.2	17.0	13.2	0.03	0.36	0.13	15	0.04	0.012
182	Soil	0.55	4.34	26.74	47.7	9	2.1	1.4	131	1.41	1.7	2.0	<0.2	29.3	28.7	0.04	0.20	0.35	5	0.01	0.015
REP 182	QC	0.59	4.76	26.55	46.3	16	2.2	1.6	127	1.36	2.1	1.9	<0.2	29.6	29.7	<0.01	0.20	0.29	5	0.01	0.014
214	Soil	0.11	22.18	7.06	48.2	19	26.7	14.8	367	2.51	0.2	0.5	<0.2	3.9	136.7	0.02	0.03	0.07	12	5.03	0.050
REP 214	QC	0.09	21.82	6.92	46.0	26	27.8	14.4	349	2.52	0.5	0.4	0.7	3.8	133.6	<0.01	0.03	0.07	13	4.99	0.054
232	Soil	0.44	40.50	8.16	43.4	53	41.8	20.4	524	2.94	0.4	0.8	0.6	4.9	163.6	0.02	0.05	0.10	11	10.77	0.060
REP 232	QC	0.43	41.08	7.84	45.2	53	42.9	20.1	508	2.94	0.2	0.8	0.5	4.9	170.5	0.02	0.04	0.10	11	10.94	0.064
Reference Materials																					
STD DS10	Standard	16.52	162.73	154.50	376.5	1837	76.6	13.5	909	2.89	45.6	2.8	79.0	8.3	66.2	2.37	9.13	11.16	45	1.13	0.074
STD DS10	Standard	15.50	159.62	151.01	361.9	1759	76.3	12.7	890	2.79	44.1	2.7	66.5	7.5	67.2	2.50	9.06	11.03	41	1.06	0.076
STD DS10	Standard	15.31	157.98	157.16	378.7	1832	79.0	13.4	933	2.83	46.2	2.8	97.1	7.9	65.9	2.56	9.10	11.50	44	1.10	0.076
STD DS10	Standard	15.68	156.10	151.67	361.7	1723	76.4	13.1	904	2.86	44.4	2.6	100.5	7.9	67.7	2.37	9.18	11.11	43	1.10	0.072
STD DS10	Standard	15.39	159.40	158.03	376.3	1782	77.2	13.5	916	2.88	44.6	2.7	83.9	8.3	62.5	2.45	9.36	11.47	43	1.10	0.076
STD DS10	Standard	15.41	142.04	157.30	366.8	1993	77.0	14.6	937	2.83	44.6	2.6	100.8	7.4	69.9	2.63	8.55	11.78	42	1.08	0.078
STD DS10	Standard	15.44	138.92	155.80	352.1	1901	74.9	12.5	943	2.82	46.4	2.5	104.5	7.2	66.8	2.43	8.45	11.43	46	1.10	0.074
STD DS10	Standard	14.54	145.42	150.74	353.7	1925	69.5	12.1	865	2.75	45.0	2.7	91.0	7.6	66.6	2.77	9.43	13.16	45	1.06	0.074
STD DS10	Standard																				
STD OXC129	Standard	1.41	28.09	6.55	38.8	8	83.8	21.3	405	3.08	0.1	0.7	194.6	2.0	182.4	0.02	0.02	<0.02	51	0.73	0.103
STD OXC129	Standard	1.39	27.29	6.34	42.2	12	82.5	20.9	401	3.04	0.8	0.7	185.3	1.8	195.9	<0.01	<0.02	0.02	50	0.70	0.101

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Project: Kate
Report Date: October 04, 2016

QUALITY CONTROL REPORT WHI16000288.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
	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	0.01	0.01	0.01
Pulp Duplicates																					
39	Soil	18.5	28.8	0.39	227.2	0.046	<1	1.25	0.011	0.12	0.5	2.6	0.30	<0.02	26	0.3	0.09	4.8			
REP 39	QC	17.9	28.4	0.39	213.4	0.043	3	1.24	0.010	0.11	0.4	2.4	0.31	<0.02	19	0.4	0.04	4.5			
64	Soil	13.0	33.5	0.32	47.7	0.004	4	0.80	0.018	0.15	0.6	1.3	0.69	<0.02	8	0.7	0.04	3.6			
REP 64	QC	12.8	34.1	0.33	48.0	0.005	4	0.76	0.018	0.15	0.8	1.3	0.67	<0.02	16	0.8	0.05	3.5			
118	Soil	22.4	7.4	0.12	110.0	0.007	1	0.75	0.002	0.05	<0.1	1.4	0.05	<0.02	12	0.7	0.09	1.5			
REP 118	QC	23.4	8.1	0.13	114.7	0.009	<1	0.76	0.003	0.06	0.2	1.5	0.05	<0.02	7	0.6	0.07	1.5			
150	Soil	59.0	2.3	0.34	93.4	0.008	3	0.84	0.002	0.22	<0.1	2.7	0.25	<0.02	<5	0.1	0.03	2.2			
REP 150	QC	59.0	2.3	0.33	90.9	0.008	2	0.84	0.001	0.22	<0.1	2.4	0.27	<0.02	8	<0.1	<0.02	1.9			
173	Soil	39.8	8.3	0.21	112.1	0.036	<1	0.79	0.006	0.11	<0.1	2.2	0.20	<0.02	56	0.2	<0.02	3.0			
REP 173	QC	41.4	8.4	0.23	115.0	0.040	2	0.77	0.004	0.10	0.1	2.4	0.20	<0.02	40	<0.1	0.06	3.1			
182	Soil	56.4	4.6	0.39	76.0	0.026	<1	0.87	0.002	0.21	<0.1	1.7	0.27	<0.02	<5	<0.1	<0.02	2.6			
REP 182	QC	57.9	4.5	0.38	76.6	0.028	<1	0.91	0.002	0.22	<0.1	1.7	0.29	<0.02	<5	<0.1	<0.02	2.7			
214	Soil	8.8	17.8	0.53	52.8	0.088	<1	1.27	0.004	0.41	<0.1	1.9	0.31	<0.02	8	0.1	0.03	3.3			
REP 214	QC	9.1	17.1	0.53	52.3	0.086	<1	1.25	0.004	0.41	<0.1	2.2	0.29	<0.02	<5	<0.1	0.03	3.5			
232	Soil	14.4	18.1	0.42	57.1	0.022	<1	0.86	0.004	0.12	<0.1	2.9	0.13	<0.02	12	0.2	0.02	2.4			
REP 232	QC	14.4	17.6	0.44	53.9	0.021	<1	0.85	0.005	0.12	<0.1	3.0	0.13	<0.02	8	0.3	0.03	2.4			
Reference Materials																					
STD DS10	Standard	20.0	59.8	0.80	367.2	0.089	9	1.17	0.079	0.36	3.4	3.2	5.17	0.27	239	2.4	5.15	4.7			
STD DS10	Standard	18.6	55.6	0.78	341.8	0.083	6	1.09	0.074	0.34	3.3	2.8	5.17	0.26	265	2.5	5.09	4.4			
STD DS10	Standard	18.3	56.8	0.79	359.0	0.081	7	1.10	0.078	0.35	3.3	3.1	5.33	0.27	312	2.2	5.39	4.2			
STD DS10	Standard	20.1	56.8	0.79	364.9	0.086	9	1.14	0.079	0.36	3.4	3.3	5.17	0.27	275	2.2	4.66	4.7			
STD DS10	Standard	19.7	58.6	0.79	382.7	0.086	9	1.10	0.076	0.35	3.6	3.0	5.34	0.27	265	2.1	5.34	4.5			
STD DS10	Standard	17.6	56.9	0.78	370.5	0.073	8	1.07	0.074	0.35	3.5	3.1	5.47	0.28	330	2.5	5.01	4.5			
STD DS10	Standard	17.5	54.6	0.79	382.1	0.075	7	1.11	0.076	0.35	3.4	3.1	5.30	0.29	321	2.2	5.11	4.5			
STD DS10	Standard	18.0	51.9	0.77	347.5	0.078	8	1.06	0.078	0.35	3.3	3.0	5.21	0.29	276	2.1	4.87	4.2			
STD DS10	Standard																		16.13	163.11	149.94
STD OXC129	Standard	13.2	56.3	1.55	49.0	0.413	2	1.69	0.614	0.39	<0.1	1.3	0.03	<0.02	7	<0.1	<0.02	5.8			
STD OXC129	Standard	12.8	53.7	1.52	49.6	0.402	<1	1.62	0.611	0.38	<0.1	0.9	0.03	<0.02	8	<0.1	<0.02	5.7			

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QUALITY CONTROL REPORT WHI16000288.1

	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg
	Unit	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%
	MDL	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	2	0.01	0.001	0.5	0.5	0.01
Pulp Duplicates																					
39	Soil																				
REP 39	QC																				
64	Soil																				
REP 64	QC																				
118	Soil																				
REP 118	QC																				
150	Soil																				
REP 150	QC																				
173	Soil																				
REP 173	QC																				
182	Soil																				
REP 182	QC																				
214	Soil																				
REP 214	QC																				
232	Soil																				
REP 232	QC																				
Reference Materials																					
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard	366.9	1889	79.8	13.4	814	2.80	44.8	2.6	69.5	7.7	63.8	2.79	9.57	12.45	45	1.07	0.073	18.6	57.2	0.78
STD OXC129	Standard																				
STD OXC129	Standard																				

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		Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Analyte	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		MDL	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
Pulp Duplicates																
39	Soil															
REP 39	QC															
64	Soil															
REP 64	QC															
118	Soil															
REP 118	QC															
150	Soil															
REP 150	QC															
173	Soil															
REP 173	QC															
182	Soil															
REP 182	QC															
214	Soil															
REP 214	QC															
232	Soil															
REP 232	QC															
Reference Materials																
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard															
STD DS10	Standard		357.9	0.082	6	1.07	0.075	0.35	3.4	2.8	5.36	0.27	304	2.3	4.87	4.4
STD OXC129	Standard															
STD OXC129	Standard															

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		AQ252 Mo ppm 0.01	AQ252 Cu ppm 0.01	AQ252 Pb ppm 0.01	AQ252 Zn ppm 0.1	AQ252 Ag ppb 2	AQ252 Ni ppm 0.1	AQ252 Co ppm 0.1	AQ252 Mn ppm 1	AQ252 Fe % 0.01	AQ252 As ppm 0.1	AQ252 U ppm 0.1	AQ252 Au ppb 0.2	AQ252 Th ppm 0.1	AQ252 Sr ppm 0.5	AQ252 Cd ppm 0.01	AQ252 Sb ppm 0.02	AQ252 Bi ppm 0.02	AQ252 V ppm 2	AQ252 Ca % 0.01	AQ252 P % 0.001
STD OXC129	Standard	1.35	26.92	6.47	39.5	11	81.8	20.7	400	3.11	0.4	0.7	189.7	1.7	184.6	0.02	0.03	<0.02	50	0.67	0.095
STD OXC129	Standard	1.30	27.43	6.52	40.6	17	82.1	21.2	405	3.07	0.5	0.7	191.2	1.8	191.7	0.02	0.04	<0.02	49	0.74	0.098
STD OXC129	Standard	1.31	27.79	6.40	43.4	11	83.8	21.6	423	3.17	0.6	0.7	197.8	1.9	196.1	0.03	0.05	<0.02	51	0.74	0.102
STD OXC129	Standard	1.26	24.38	5.95	41.1	14	76.7	21.4	409	3.08	0.7	0.6	211.3	1.7	186.0	0.03	0.03	<0.02	49	0.66	0.102
STD OXC129	Standard	1.29	24.25	5.80	42.6	11	81.2	20.8	401	3.00	0.6	0.6	182.4	1.7	181.8	0.02	0.03	<0.02	53	0.67	0.092
STD OXC129	Standard	1.26	27.13	6.64	41.8	11	74.9	20.1	421	2.97	0.8	0.7	197.3	1.8	177.0	0.03	0.04	<0.02	50	0.59	0.097
STD OXC129	Standard																				
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.03	<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	<2	<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	<2	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<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	<2	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	0.08	<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	<2	<0.01	<0.001
BLK	Blank																				

Client: **XyQuest Goldbank**
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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Project: Kate

Report Date: October 04, 2016

QUALITY CONTROL REPORT WHI16000288.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Mo	Cu	Pb
		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	0.01	0.01	0.01
STD OXC129	Standard	13.2	52.2	1.51	51.4	0.381	1	1.60	0.606	0.40	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.4			
STD OXC129	Standard	12.7	54.4	1.52	50.0	0.406	2	1.63	0.614	0.37	<0.1	0.9	0.04	<0.02	<5	0.2	<0.02	6.0			
STD OXC129	Standard	12.8	55.1	1.54	51.5	0.416	<1	1.69	0.620	0.40	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.6			
STD OXC129	Standard	12.1	51.9	1.51	50.8	0.387	1	1.53	0.603	0.38	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.7			
STD OXC129	Standard	11.3	53.2	1.52	51.6	0.381	1	1.59	0.597	0.37	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.7			
STD OXC129	Standard	13.2	48.6	1.48	51.9	0.369	1	1.53	0.593	0.40	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.9			
STD OXC129	Standard																		1.34	29.51	6.30
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	15.1	154.61	150.55
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	1.3	28	6.3
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			
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			
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			
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			
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			
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			
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			
BLK	Blank																		<0.01	<0.01	<0.01

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Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

QUALITY CONTROL REPORT WHI16000288.1

		AQ251 Zn ppm 0.1	AQ251 Ag ppb 2	AQ251 Ni ppm 0.1	AQ251 Co ppm 0.1	AQ251 Mn ppm 1	AQ251 Fe % 0.01	AQ251 As ppm 0.1	AQ251 U ppm 0.1	AQ251 Au ppb 0.2	AQ251 Th ppm 0.1	AQ251 Sr ppm 0.5	AQ251 Cd ppm 0.01	AQ251 Sb ppm 0.02	AQ251 Bi ppm 0.02	AQ251 V ppm 2	AQ251 Ca % 0.01	AQ251 P % 0.001	AQ251 La ppm 0.5	AQ251 Cr ppm 0.5	AQ251 Mg % 0.01
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard	42.9	17	82.3	23.0	412	3.09	0.7	0.7	188.7	1.9	173.9	0.04	0.04	<0.02	53	0.68	0.102	12.2	52.8	1.56
STD DS10 Expected		370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5	54.6	0.775
STD OXC129 Expected		42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102	13	52	1.545
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<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	<2	<0.01	<0.001	<0.5	<0.5	<0.01

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Report Date: October 04, 2016

QUALITY CONTROL REPORT WHI16000288.1

		AQ251 Ba ppm 0.5	AQ251 Ti % 0.001	AQ251 B ppm 1	AQ251 Al % 0.01	AQ251 Na % 0.001	AQ251 K % 0.01	AQ251 W ppm 0.1	AQ251 Sc ppm 0.1	AQ251 Tl ppm 0.02	AQ251 S % 0.02	AQ251 Hg ppb 5	AQ251 Se ppm 0.1	AQ251 Te ppm 0.02	AQ251 Ga ppm 0.1
STD OXC129	Standard														
STD OXC129	Standard														
STD OXC129	Standard														
STD OXC129	Standard														
STD OXC129	Standard														
STD OXC129	Standard														
STD OXC129	Standard	51.3	0.402	1	1.64	0.623	0.42	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.4
STD DS10 Expected		359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5
STD OXC129 Expected		50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank														
BLK	Blank	<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

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Client: **XyQuest Mining Corp.**
702-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Submitted By: Boris Molak
Receiving Lab: Canada-Whitehorse
Received: October 03, 2017
Report Date: April 20, 2018
Page: 1 of 9

CERTIFICATE OF ANALYSIS WHI17000989.1

CLIENT JOB INFORMATION

Project: LEOTA, RST
Shipment ID:
P.O. Number
Number of Samples: 237

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	227	Dry at 60C			WHI
SS80	227	Dry at 60C sieve 100g to -80 mesh			WHI
AQ252	227	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	227	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: XyQuest Mining Corp.
702-889 Pender Street W
Vancouver British Columbia V6C 3B2
Canada

CC:

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.

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Client: **XyQuest Mining Corp.**
702-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

		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	2	0.01	0.001
279	Soil		0.21	93.34	5.69	54.4	38	59.5	22.6	504	3.72	2.5	0.5	4.6	4.6	218.6	0.05	0.11	0.17	32	0.60	0.044
280	Soil		0.17	31.91	10.56	47.2	89	41.4	17.1	484	3.21	1.0	1.0	5.0	5.6	664.5	0.06	0.09	0.21	11	8.33	0.076
281	Soil		0.21	33.24	4.93	82.4	47	47.3	21.2	416	3.94	0.3	0.4	3.6	3.0	281.0	0.03	0.04	0.10	24	3.98	0.069
282	Soil		0.09	23.37	4.75	81.1	24	38.3	16.8	412	3.08	0.2	0.4	3.8	5.0	327.7	0.02	0.04	0.06	19	7.06	0.044
283	Soil		0.19	10.29	9.42	15.0	30	13.7	5.7	233	1.50	1.7	0.4	3.5	2.4	849.6	0.07	0.09	0.09	7	18.35	0.058
284	Soil		0.42	15.03	5.64	70.6	6	42.4	16.5	396	2.84	1.2	0.3	2.4	2.9	108.0	0.02	0.04	0.09	30	0.25	0.034
285	Soil		0.16	35.64	4.25	79.3	40	50.2	26.0	234	3.26	0.3	0.5	4.0	4.5	90.3	0.02	0.03	0.11	23	0.77	0.066
286	Soil		0.23	20.50	6.46	61.4	63	36.2	12.4	244	2.87	0.4	0.4	4.3	3.0	282.6	0.07	0.05	0.07	14	2.64	0.051
287	Soil		0.18	34.61	4.58	81.6	52	53.9	21.4	307	3.90	1.0	0.4	3.5	4.3	130.4	0.03	0.06	0.06	21	2.08	0.044
288	Soil		0.14	31.26	7.93	70.9	86	51.2	22.9	293	3.35	0.2	0.4	2.3	3.9	130.8	0.03	0.03	0.08	22	4.13	0.058
289	Soil		0.22	17.89	14.55	42.4	66	24.7	9.6	209	2.37	1.8	0.9	2.2	3.7	1588.7	0.08	0.07	0.16	11	11.90	0.060
290	Soil		0.34	35.07	10.41	98.3	12	57.6	21.2	214	3.89	2.5	1.8	2.0	12.1	75.2	0.03	0.09	0.26	24	0.43	0.029
291	Soil		0.15	39.66	7.30	108.0	83	64.0	23.3	213	3.78	0.7	0.9	2.1	7.0	158.4	0.04	0.05	0.13	25	4.15	0.055
292	Soil		0.19	27.05	15.68	39.9	74	34.0	16.0	407	3.11	1.2	0.7	2.6	9.7	272.6	0.04	0.08	0.32	10	9.55	0.053
293	Soil		0.14	34.10	9.41	69.0	87	43.9	19.2	269	3.60	0.4	0.9	2.9	7.6	142.5	0.03	0.04	0.22	8	5.00	0.042
294	Soil		0.45	53.15	4.37	65.4	13	63.2	20.1	170	3.52	5.7	1.6	2.8	10.2	11.6	0.02	0.14	0.13	17	0.14	0.047
295	Soil		0.35	68.65	4.11	84.4	8	46.9	22.1	90	3.23	3.7	2.6	3.0	17.9	6.9	0.01	0.13	0.32	17	0.17	0.076
296	Soil		0.14	41.02	7.54	81.4	35	64.2	30.1	386	3.20	0.5	0.8	2.2	10.2	69.7	0.03	0.05	0.15	12	3.41	0.059
297	Soil		0.16	34.81	10.09	82.7	28	53.5	22.9	370	3.09	0.4	1.0	1.6	11.7	227.7	0.03	0.08	0.20	13	6.75	0.061
298	Soil		0.13	27.92	5.51	54.0	27	35.1	15.8	239	2.77	1.1	0.8	1.3	7.9	102.0	0.03	0.10	0.11	11	3.50	0.048
299	Soil		0.16	46.21	5.28	63.6	36	52.0	20.4	254	2.58	1.9	0.7	1.6	7.1	55.5	0.05	0.11	0.21	18	2.10	0.062
300	Soil		0.39	6.48	47.78	61.4	263	36.5	4.1	78	0.50	12.8	10.0	1.5	26.8	127.8	0.07	0.25	0.91	4	0.99	0.016
301	Soil		1.47	19.23	61.20	210.4	206	54.2	4.2	178	1.82	15.0	10.4	5.0	47.2	185.8	0.16	0.45	1.37	14	0.84	0.024
302	Soil		3.39	41.12	39.03	118.7	245	79.5	9.1	247	2.60	25.9	9.6	4.8	19.1	32.1	0.24	0.59	0.58	23	0.41	0.045
303	Soil		1.41	29.76	19.86	85.2	178	47.5	7.0	165	2.15	17.7	3.7	3.8	14.1	43.7	0.08	0.48	0.48	27	0.44	0.034
304	Soil		0.61	15.32	32.26	52.3	88	28.5	4.5	109	1.07	7.5	2.1	3.1	13.0	33.9	0.10	0.37	0.56	17	0.32	0.017
305	Soil		0.58	12.28	11.12	35.5	110	11.0	4.0	177	1.34	10.2	3.8	3.7	9.6	108.9	0.03	0.50	0.21	24	0.35	0.009
306	Soil		0.47	9.55	32.62	34.3	176	8.8	3.0	107	0.95	5.3	3.4	2.5	13.6	75.2	0.09	0.27	0.42	16	0.41	0.003
307	Soil		0.48	5.45	34.85	59.6	83	6.7	3.0	285	0.87	7.5	2.9	2.4	10.1	25.8	0.31	0.15	1.88	12	0.39	0.013
309	Soil		1.67	24.11	23.97	102.8	174	36.1	6.9	194	1.94	16.9	3.0	3.9	11.0	43.1	0.08	0.42	0.55	22	0.40	0.035

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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
279	Soil		11.6	47.4	1.58	149.8	0.158	<1	2.48	0.008	0.54	<0.1	3.7	0.39	<0.02	7	0.4	0.04	7.0
280	Soil		20.4	15.2	0.56	46.4	0.053	1	0.95	0.005	0.14	<0.1	3.1	0.18	<0.02	<5	0.5	0.05	2.8
281	Soil		8.5	36.4	1.06	96.3	0.134	<1	2.00	0.020	0.80	<0.1	3.1	0.52	<0.02	10	0.2	0.02	5.6
282	Soil		10.0	33.5	1.09	60.8	0.163	<1	1.89	0.011	0.95	<0.1	1.9	0.56	<0.02	<5	0.2	0.03	4.7
283	Soil		8.9	4.6	0.26	37.4	0.010	<1	0.35	0.003	0.02	<0.1	1.9	0.04	<0.02	9	0.5	0.06	1.0
284	Soil		11.6	46.1	1.16	97.1	0.133	<1	2.42	0.006	0.73	<0.1	3.0	0.40	<0.02	<5	0.2	0.03	6.7
285	Soil		10.9	34.3	1.01	56.8	0.113	<1	1.74	0.012	0.55	<0.1	2.5	0.48	<0.02	<5	0.2	<0.02	5.1
286	Soil		10.7	21.5	0.68	66.2	0.084	<1	1.41	0.008	0.51	<0.1	2.5	0.34	<0.02	<5	0.2	<0.02	3.6
287	Soil		9.8	30.0	1.12	92.4	0.134	<1	2.04	0.006	0.65	<0.1	2.6	0.48	0.02	<5	0.1	0.02	5.2
288	Soil		9.5	31.4	0.97	39.0	0.124	<1	1.62	0.007	0.44	<0.1	2.8	0.38	<0.02	5	0.2	<0.02	5.0
289	Soil		25.4	11.9	0.32	58.1	0.006	<1	0.92	0.003	0.04	<0.1	2.9	0.07	<0.02	<5	0.3	0.10	2.6
290	Soil		33.6	29.6	0.99	113.7	0.004	<1	2.57	0.005	0.08	<0.1	4.9	0.10	<0.02	10	0.5	0.03	7.9
291	Soil		34.7	32.5	1.09	63.2	0.086	<1	2.11	0.008	0.45	<0.1	3.9	0.51	<0.02	21	0.5	<0.02	6.2
292	Soil		35.8	11.0	0.32	57.1	0.004	<1	0.96	0.004	0.04	<0.1	3.3	0.05	<0.02	13	0.5	0.04	2.8
293	Soil		31.0	9.8	0.49	32.3	0.017	<1	1.06	0.003	0.10	<0.1	2.8	0.17	<0.02	16	0.4	<0.02	2.9
294	Soil		55.6	25.2	0.53	75.6	0.006	<1	1.79	0.004	0.04	<0.1	3.4	0.05	<0.02	7	0.3	0.04	4.9
295	Soil		66.0	20.0	0.69	55.6	0.014	<1	1.51	0.004	0.04	<0.1	3.3	0.06	<0.02	<5	0.3	0.08	4.7
296	Soil		22.1	16.1	0.53	37.0	0.018	<1	1.24	0.005	0.09	<0.1	2.4	0.17	<0.02	10	0.4	0.03	3.5
297	Soil		33.0	17.4	0.71	71.0	0.008	<1	1.41	0.004	0.05	<0.1	2.8	0.08	<0.02	<5	0.2	0.02	4.7
298	Soil		18.8	14.3	0.51	67.7	0.046	<1	1.07	0.004	0.20	<0.1	2.3	0.32	<0.02	10	0.2	0.02	2.8
299	Soil		20.0	28.6	0.72	65.7	0.050	<1	1.27	0.006	0.22	<0.1	2.4	0.34	<0.02	<5	0.2	0.06	3.9
300	Soil		10.7	27.1	0.44	123.1	0.004	<1	2.84	0.168	0.98	0.2	0.9	0.69	<0.02	17	0.8	<0.02	8.3
301	Soil		20.6	39.5	0.70	280.5	0.021	4	3.01	0.077	0.42	0.3	2.5	0.72	<0.02	8	1.3	<0.02	14.1
302	Soil		25.3	75.8	0.56	122.6	0.013	4	1.51	0.017	0.14	0.6	3.3	0.91	0.04	8	1.7	0.09	6.0
303	Soil		17.6	47.8	0.49	267.1	0.022	2	1.67	0.028	0.14	0.5	3.3	0.51	<0.02	30	0.7	0.03	6.5
304	Soil		13.6	31.6	0.28	204.6	0.024	2	1.15	0.048	0.20	0.4	1.8	0.64	<0.02	11	0.7	<0.02	4.5
305	Soil		11.7	15.5	0.29	847.7	0.032	<1	1.22	0.029	0.10	0.2	2.7	0.17	<0.02	13	0.7	0.02	3.4
306	Soil		12.5	12.4	0.23	198.0	0.024	1	1.49	0.025	0.36	0.2	2.0	0.82	<0.02	10	0.5	<0.02	4.0
307	Soil		11.5	10.0	0.19	75.3	0.012	2	1.61	0.032	0.56	0.3	1.2	0.76	<0.02	7	0.5	<0.02	6.0
309	Soil		16.5	34.5	0.40	247.8	0.016	3	1.61	0.012	0.11	0.7	2.9	0.97	<0.02	11	1.0	<0.02	5.7

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Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

		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	2	0.01	0.001
310	Soil		1.70	36.90	20.58	88.8	201	36.7	10.8	336	2.41	13.2	1.4	2.7	10.2	34.5	0.27	0.73	0.39	37	0.47	0.050
311	Soil		1.30	20.67	36.68	79.8	63	35.7	4.8	146	1.29	4.8	5.4	3.9	23.0	19.0	0.11	0.33	0.58	9	0.37	0.028
312	Soil		0.80	14.21	23.59	53.5	78	20.7	3.5	64	0.92	10.2	3.9	<0.2	18.1	30.3	0.08	0.30	0.61	10	0.26	0.020
313	Soil		0.77	13.68	37.59	73.2	73	28.8	3.2	81	1.00	7.0	6.2	0.4	29.3	37.8	0.16	0.24	0.92	6	0.39	0.015
314	Soil		1.53	23.69	45.72	66.0	332	28.3	5.0	59	0.85	24.0	7.9	<0.2	27.0	156.3	0.12	0.26	1.04	6	0.64	0.030
315	Soil		1.20	28.03	10.38	67.3	160	36.5	7.7	470	2.22	15.8	1.7	9.8	7.1	10.3	0.23	0.12	0.33	12	0.18	0.060
316	Soil		0.24	14.81	26.33	61.0	54	25.4	2.8	46	1.18	6.7	7.7	0.6	37.2	36.7	0.06	0.33	1.03	9	0.44	0.010
317	Soil		0.90	14.08	67.80	153.5	150	29.4	14.7	339	1.79	11.1	18.5	<0.2	39.6	86.3	0.09	0.50	1.23	19	1.95	0.019
318	Soil		1.21	20.68	49.48	134.9	141	41.8	12.9	132	1.18	17.2	10.5	0.5	34.9	119.0	0.10	0.50	1.37	16	0.64	0.025
319	Soil		1.90	22.46	54.60	83.6	223	37.8	13.9	240	1.09	21.1	8.0	0.4	23.9	155.3	0.26	0.49	0.94	12	0.57	0.032
320	Soil		3.16	55.98	8.66	113.9	337	185.0	41.6	283	2.12	14.3	1.3	2.4	6.7	18.6	0.78	0.33	0.24	16	0.18	0.061
321	Soil		4.93	69.90	19.30	120.6	462	114.0	33.3	1188	4.31	32.4	2.4	5.7	9.1	28.2	0.97	0.36	0.28	17	0.22	0.085
322	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
323	Soil		2.45	41.19	17.37	82.8	155	42.6	11.2	195	2.61	17.1	2.3	2.5	8.9	30.9	0.31	0.59	0.33	41	0.35	0.053
324	Soil		2.12	43.66	43.67	53.5	372	19.2	5.5	78	1.58	20.0	6.2	1.4	16.3	72.2	0.09	0.36	0.82	15	0.31	0.037
325	Soil		2.83	26.38	20.15	70.1	388	35.7	12.3	198	1.38	24.1	3.2	18.6	10.2	10.5	1.38	0.48	0.37	10	0.19	0.064
326	Soil		1.59	33.75	28.66	59.2	256	26.1	9.7	156	1.60	15.5	3.3	1.1	13.3	42.0	0.43	0.47	0.56	21	0.24	0.031
327	Soil		1.93	55.10	40.49	92.0	300	52.0	15.5	131	1.43	12.5	7.5	2.3	21.1	41.4	1.29	0.44	0.80	15	0.37	0.035
328	Soil		1.81	33.02	22.31	69.2	86	29.8	9.1	153	2.47	10.6	3.1	3.4	8.6	17.9	0.21	0.80	0.32	53	0.18	0.017
329	Soil		0.58	28.66	28.47	68.6	255	26.2	5.9	55	0.89	4.1	7.2	<0.2	26.6	29.8	0.15	0.14	0.85	6	0.36	0.033
330	Soil		0.52	11.67	24.09	27.0	19	17.8	1.7	35	0.70	1.5	2.0	<0.2	19.9	17.8	0.12	0.09	0.62	4	0.36	0.028
331	Soil		1.50	60.61	19.84	88.0	274	60.2	8.4	134	3.40	21.4	1.1	1.0	11.5	11.6	0.14	0.42	0.56	17	0.19	0.058
332	Soil		2.07	50.81	18.38	108.1	231	97.9	11.0	141	3.45	23.8	1.7	0.7	10.2	14.4	0.36	0.35	0.37	31	0.19	0.066
0781	Soil		1.81	30.44	9.29	69.5	124	241.3	22.4	520	3.11	10.0	1.4	2.0	6.2	27.1	0.18	0.42	0.24	38	0.31	0.028
0782	Soil		2.99	40.28	23.45	92.2	56	40.1	10.9	694	2.96	14.5	1.7	2.3	11.0	27.6	0.15	0.95	0.31	55	0.32	0.025
0783	Soil		1.76	31.92	23.85	82.3	63	26.8	8.7	394	2.37	12.6	2.4	4.4	15.6	19.2	0.11	0.68	0.47	46	0.20	0.019
0784	Soil		1.78	37.10	26.30	96.4	52	31.5	8.2	345	2.62	16.2	2.0	3.9	19.6	19.4	0.11	0.76	0.41	49	0.23	0.014
0785	Soil		2.19	26.80	34.40	116.3	99	26.7	7.9	163	2.66	20.9	3.0	0.4	38.2	17.1	0.12	0.61	0.81	48	0.16	0.018
0786	Soil		1.01	19.63	16.61	83.4	32	17.3	3.8	184	1.40	16.1	3.3	2.6	22.1	11.7	0.05	0.58	0.17	22	0.17	0.013
0787	Soil		1.69	34.32	18.02	75.6	131	29.0	8.1	178	3.03	18.5	1.3	6.7	14.4	14.5	0.18	0.75	0.37	60	0.13	0.021

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Project: LEOTA, RST
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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
310	Soil	19.3	35.7	0.49	308.9	0.036	2	1.50	0.018	0.10	0.3	3.8	0.29	<0.02	32	0.6	0.03	5.0
311	Soil	20.0	29.0	0.37	100.1	0.007	4	1.05	0.054	0.17	0.4	1.6	0.35	<0.02	9	0.9	0.03	4.7
312	Soil	14.4	21.3	0.31	95.1	0.008	3	0.90	0.093	0.23	0.4	1.3	0.76	<0.02	9	1.3	0.02	3.4
313	Soil	14.0	21.8	0.37	101.3	0.004	5	1.32	0.118	0.18	0.3	1.2	0.36	<0.02	25	1.3	<0.02	6.4
314	Soil	17.0	19.6	0.37	457.1	0.003	3	2.27	0.097	0.59	0.4	1.2	1.42	<0.02	10	2.6	0.05	5.7
315	Soil	21.0	24.4	0.55	40.5	0.002	2	1.03	0.004	0.03	0.2	1.6	0.40	<0.02	9	0.6	0.13	3.2
316	Soil	12.3	25.4	0.46	135.2	0.004	7	1.65	0.187	0.17	0.3	1.9	0.21	<0.02	23	1.2	<0.02	7.6
317	Soil	17.6	22.4	0.73	187.5	0.029	7	3.57	0.111	0.38	2.7	2.4	0.37	<0.02	12	1.6	0.03	19.5
318	Soil	18.1	32.9	0.46	215.4	0.011	4	2.15	0.089	0.36	0.5	2.4	0.75	<0.02	28	1.6	0.07	8.5
319	Soil	23.8	17.9	0.41	667.5	0.007	3	1.96	0.202	0.34	0.5	1.5	0.41	<0.02	8	2.1	0.08	6.4
320	Soil	19.1	49.9	0.42	47.0	0.003	<1	0.69	0.009	0.04	<0.1	2.4	0.10	0.03	19	3.0	0.08	2.0
321	Soil	26.8	35.6	0.44	50.7	0.009	3	1.11	0.004	0.04	0.4	2.1	0.09	<0.02	52	1.4	0.09	3.0
322	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
323	Soil	23.1	35.4	0.44	271.5	0.048	1	1.62	0.014	0.07	0.2	4.1	0.22	<0.02	44	0.8	0.05	4.7
324	Soil	28.3	24.1	0.35	187.7	0.014	2	1.22	0.061	0.40	0.3	1.6	0.68	0.25	8	3.4	0.07	3.4
325	Soil	21.5	38.0	0.31	23.3	0.002	2	0.68	0.003	0.08	0.3	1.5	0.22	<0.02	21	1.0	0.07	2.5
326	Soil	21.7	27.8	0.41	163.0	0.015	2	1.25	0.067	0.20	0.3	2.1	0.63	0.06	19	3.1	0.04	4.1
327	Soil	27.8	28.7	0.45	135.5	0.008	5	1.93	0.097	0.28	0.5	1.9	1.37	<0.02	18	7.5	0.08	7.4
328	Soil	21.6	32.9	0.42	301.3	0.051	2	1.88	0.013	0.07	0.1	5.4	0.21	<0.02	54	1.3	0.03	5.8
329	Soil	21.0	24.4	0.41	183.0	0.002	4	1.39	0.044	0.11	0.2	0.9	0.56	<0.02	9	2.0	0.07	4.3
330	Soil	18.1	13.1	0.32	23.9	0.001	4	0.79	0.114	0.10	0.3	0.8	0.09	<0.02	<5	0.7	<0.02	3.5
331	Soil	22.2	51.7	0.46	68.8	0.006	2	1.06	0.003	0.07	0.8	2.3	0.23	<0.02	28	0.7	0.14	4.4
332	Soil	21.2	74.0	0.48	32.9	0.011	1	1.09	0.002	0.10	0.3	3.9	0.51	<0.02	15	0.5	0.08	4.2
0781	Soil	27.1	75.2	0.57	360.4	0.014	1	1.32	0.009	0.05	0.1	4.1	0.08	<0.02	22	0.8	0.06	4.1
0782	Soil	21.3	37.8	0.37	407.2	0.066	1	2.19	0.009	0.09	0.2	6.0	0.21	<0.02	65	0.9	0.03	6.6
0783	Soil	21.1	28.8	0.31	294.1	0.048	1	1.81	0.010	0.08	0.2	5.0	0.24	<0.02	42	1.3	0.04	6.1
0784	Soil	27.5	29.8	0.37	294.7	0.056	1	1.90	0.010	0.09	0.2	5.3	0.22	<0.02	82	1.7	0.05	5.9
0785	Soil	10.0	31.0	0.28	291.6	0.031	2	3.13	0.007	0.13	0.4	4.9	0.49	<0.02	13	0.6	0.04	10.0
0786	Soil	14.2	13.9	0.17	168.8	0.026	2	0.85	0.011	0.09	0.4	2.8	0.16	<0.02	28	0.9	<0.02	3.5
0787	Soil	17.1	40.4	0.44	207.2	0.060	1	2.35	0.008	0.09	0.2	6.1	0.16	<0.02	34	0.6	0.04	6.2

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		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	2	0.01	0.001
0788	Soil		2.06	20.70	50.96	118.6	234	21.7	5.7	191	2.00	17.6	3.8	1.7	23.7	16.9	0.46	0.53	0.51	39	0.23	0.036
0789	Soil		7.81	51.57	28.37	163.6	410	43.2	13.6	710	2.90	25.2	1.4	3.9	7.2	36.3	1.25	2.08	0.30	46	0.43	0.092
0790	Soil		7.43	60.80	25.31	154.7	835	42.6	9.2	422	2.65	29.4	1.5	6.3	6.3	38.3	1.06	1.56	0.31	41	0.50	0.061
0791	Soil		6.57	55.73	13.07	121.0	926	45.5	11.7	423	2.92	7.4	1.7	7.8	8.3	40.4	0.77	0.40	0.24	29	0.49	0.068
0792	Soil		7.34	58.43	16.42	115.7	698	47.5	10.6	431	2.76	11.8	2.0	4.7	7.5	30.5	0.40	0.53	0.27	36	0.35	0.065
0793	Soil		3.72	28.78	13.14	78.9	153	27.8	9.7	390	2.58	8.8	1.3	4.5	6.2	21.3	0.21	0.46	0.26	43	0.28	0.042
0794	Soil		7.69	67.34	24.35	137.5	789	54.6	11.3	608	3.13	12.2	2.1	6.0	9.2	30.4	0.43	0.63	0.38	40	0.30	0.048
0795	Soil		28.04	156.82	16.26	326.4	1907	105.7	21.4	673	4.17	9.9	1.9	3.5	11.5	44.4	2.93	0.43	0.30	23	1.19	0.121
0796	Soil		23.87	119.62	18.89	172.1	894	73.7	22.0	2473	4.13	13.5	2.4	2.9	8.5	20.8	2.21	0.45	0.19	21	0.21	0.124
0797	Soil		16.02	111.62	24.89	238.4	1110	77.2	17.2	1129	3.58	12.5	2.0	1.9	11.0	57.2	2.10	0.38	0.31	30	1.75	0.087
0798	Soil		10.84	102.11	18.13	243.2	1155	71.1	15.2	573	3.45	16.9	1.7	4.4	10.1	50.0	1.43	0.37	0.31	28	1.65	0.083
0799	Soil		8.87	73.04	13.87	148.4	731	49.6	12.4	962	2.90	15.5	1.4	3.0	5.5	50.7	1.09	0.66	0.21	40	1.32	0.071
0800	Soil		13.85	64.29	17.30	160.3	526	50.5	13.2	694	3.02	18.6	1.6	4.7	5.6	38.7	1.24	0.84	0.23	47	0.66	0.077
0851	Soil		25.52	119.73	53.58	460.8	1027	71.7	20.3	1285	4.37	82.3	3.0	2.1	9.2	60.0	3.26	3.91	0.27	28	0.31	0.125
0852	Soil		25.71	129.49	50.27	567.1	824	78.2	19.2	1695	3.86	74.9	2.5	2.6	7.5	44.6	3.38	3.55	0.26	27	0.46	0.119
0853	Soil		11.88	68.95	21.72	157.3	824	48.6	12.7	1016	2.86	39.1	4.6	3.3	3.4	47.9	1.86	1.36	0.24	43	0.87	0.081
0854	Soil		6.97	49.43	16.08	110.5	540	36.1	11.3	683	2.63	12.8	3.8	4.6	4.3	47.6	1.06	0.68	0.23	45	0.83	0.087
0855	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0856	Soil		5.85	48.30	12.23	93.7	719	41.8	12.2	2423	2.32	7.3	5.0	7.6	1.9	64.9	2.18	0.66	0.24	32	1.16	0.097
0857	Soil		36.62	108.01	297.83	708.0	3221	104.0	14.0	3245	3.59	437.1	2.9	7.1	6.1	56.8	5.29	13.74	0.29	42	0.19	0.063
0858	Soil		44.32	103.25	23.41	306.1	447	70.2	19.5	952	4.43	35.1	3.4	3.1	8.6	30.9	1.77	1.00	0.34	47	0.21	0.098
0859	Soil		26.77	105.98	16.53	291.1	481	59.2	16.5	977	3.95	24.3	2.6	4.3	5.9	25.2	2.36	0.85	0.26	44	0.33	0.103
583382	Soil		0.52	3.17	4.10	27.0	21	5.4	5.7	450	3.00	1.0	2.3	1.9	19.7	11.7	0.03	0.14	0.59	16	0.23	0.069
583383	Soil		0.78	8.94	5.32	23.4	8	5.9	3.0	118	1.34	3.3	1.7	0.7	18.7	9.4	0.03	0.21	0.23	12	0.05	0.010
583384	Soil		0.42	8.13	7.74	10.0	13	4.4	1.5	271	0.52	2.3	2.8	<0.2	25.8	11.4	0.07	0.13	0.16	5	0.03	0.011
583385	Soil		0.20	8.21	11.35	25.2	11	5.7	1.8	94	0.87	10.3	1.0	2.3	14.9	7.5	0.05	0.24	0.22	8	0.08	0.026
583386	Soil		0.34	10.62	11.23	25.5	26	7.0	1.7	142	0.94	21.7	0.9	7.6	13.8	9.2	0.08	0.27	0.14	9	0.08	0.016
583387	Soil		0.18	5.02	12.66	20.0	22	3.1	0.9	117	0.58	4.1	1.0	3.7	13.8	5.8	0.05	0.15	0.12	4	0.05	0.017
583388	Soil		0.18	7.08	8.91	25.8	17	4.1	1.2	67	0.81	7.9	0.9	3.9	13.0	7.0	0.05	0.16	0.11	7	0.07	0.018
583389	Soil		0.30	9.74	9.63	34.4	53	5.1	1.2	100	1.07	19.8	0.9	6.0	14.2	9.7	0.07	0.29	0.19	7	0.08	0.020

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Project: LEOTA, RST
Report Date: April 20, 2018

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
0788	Soil	61.3	22.8	0.29	244.9	0.039	2	1.70	0.009	0.09	0.4	3.9	0.27	<0.02	51	3.4	<0.02	5.8
0789	Soil	18.5	26.3	0.41	430.2	0.036	1	1.16	0.014	0.10	0.2	4.7	0.17	<0.02	72	1.7	0.08	3.6
0790	Soil	17.6	21.5	0.41	333.7	0.020	2	1.16	0.012	0.08	0.3	4.3	0.12	<0.02	104	3.2	0.06	3.7
0791	Soil	34.8	20.7	0.25	238.3	0.010	<1	0.75	0.007	0.07	0.1	2.9	0.15	<0.02	364	4.2	0.10	2.6
0792	Soil	24.9	27.2	0.32	348.3	0.018	<1	1.02	0.008	0.06	0.2	4.3	0.09	<0.02	157	2.9	0.07	3.1
0793	Soil	20.3	27.8	0.35	284.2	0.031	1	1.33	0.008	0.06	0.2	3.6	0.10	<0.02	25	1.6	0.06	4.0
0794	Soil	25.4	31.3	0.33	354.1	0.015	1	1.34	0.008	0.08	0.2	4.8	0.11	<0.02	128	2.9	0.05	4.0
0795	Soil	36.0	12.4	0.43	117.1	0.002	<1	0.40	0.004	0.08	0.2	2.9	0.09	0.07	157	10.4	0.19	1.2
0796	Soil	34.1	8.1	0.04	210.8	0.002	<1	0.40	0.003	0.05	0.3	2.7	0.13	<0.02	380	3.5	0.10	1.1
0797	Soil	31.6	15.8	0.29	169.6	<0.001	<1	0.40	0.004	0.09	0.1	3.2	0.11	0.02	133	7.1	0.15	1.7
0798	Soil	34.8	17.0	0.30	171.4	0.003	1	0.52	0.005	0.08	0.1	2.9	0.10	<0.02	153	4.8	0.16	2.1
0799	Soil	22.4	22.3	0.48	329.8	0.021	2	0.96	0.012	0.08	0.2	3.7	0.09	<0.02	117	2.5	0.08	3.0
0800	Soil	21.4	24.0	0.39	350.4	0.026	1	1.05	0.014	0.09	0.3	3.9	0.10	<0.02	107	1.8	0.05	3.1
0851	Soil	21.9	11.9	0.07	311.5	<0.001	2	0.38	0.003	0.11	0.2	3.1	0.18	0.05	87	4.4	0.13	1.1
0852	Soil	19.6	10.7	0.11	252.3	<0.001	2	0.38	0.003	0.10	0.3	3.4	0.18	0.09	116	4.6	0.14	1.0
0853	Soil	19.5	24.0	0.36	366.5	0.018	2	1.15	0.011	0.08	0.2	3.9	0.08	0.03	76	3.1	0.07	3.2
0854	Soil	19.9	25.2	0.38	377.7	0.020	2	1.25	0.012	0.08	0.3	4.1	0.09	0.04	83	4.1	0.07	3.5
0855	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0856	Soil	23.0	21.4	0.33	455.2	0.008	2	1.15	0.010	0.07	0.2	2.9	0.10	0.08	117	3.8	0.05	3.4
0857	Soil	20.8	13.0	0.08	270.7	<0.001	2	0.51	0.004	0.10	0.3	6.2	0.22	0.03	310	8.3	0.16	1.4
0858	Soil	28.8	23.0	0.20	247.3	0.016	<1	1.01	0.008	0.07	0.5	3.6	0.10	0.03	54	4.0	0.14	3.1
0859	Soil	27.9	23.1	0.29	256.0	0.023	1	1.00	0.010	0.07	0.4	3.5	0.11	0.03	88	3.3	0.10	3.0
583382	Soil	57.6	11.2	0.93	683.0	0.010	<1	1.32	0.003	0.17	<0.1	5.2	0.07	<0.02	10	0.3	0.14	4.9
583383	Soil	58.0	9.8	0.26	266.0	0.020	<1	0.80	0.003	0.15	<0.1	2.0	0.12	<0.02	17	0.4	<0.02	2.3
583384	Soil	73.7	3.6	0.05	671.8	0.005	<1	0.30	0.002	0.08	<0.1	1.4	0.04	<0.02	11	0.3	<0.02	1.2
583385	Soil	42.6	6.6	0.10	107.1	0.008	<1	0.46	0.003	0.10	<0.1	2.7	0.07	<0.02	12	<0.1	<0.02	1.8
583386	Soil	39.0	13.2	0.08	151.2	0.007	<1	0.45	0.003	0.10	<0.1	2.6	0.07	<0.02	6	0.3	<0.02	1.5
583387	Soil	38.4	2.8	0.07	76.9	0.010	<1	0.30	0.002	0.10	<0.1	2.4	0.08	<0.02	6	0.3	<0.02	1.4
583388	Soil	39.1	5.2	0.11	117.2	0.010	<1	0.47	0.004	0.13	<0.1	2.3	0.09	<0.02	9	0.4	<0.02	1.8
583389	Soil	46.1	3.9	0.08	197.3	0.005	<1	0.43	0.002	0.11	0.1	2.9	0.09	<0.02	21	0.3	<0.02	1.7

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Vancouver British Columbia V6C 3B2 Canada

Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

		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	2	0.01	0.001
583390	Soil		0.25	6.77	9.57	30.7	14	3.8	2.6	150	1.20	3.3	0.9	1.7	9.9	11.9	0.04	0.19	0.09	9	0.13	0.034
583391	Soil		0.22	9.33	8.08	42.3	72	4.9	3.7	269	1.24	2.4	0.7	3.8	7.1	17.0	0.08	0.16	0.06	7	0.32	0.069
583392	Soil		0.52	11.36	16.36	42.9	63	6.9	3.4	180	1.58	11.7	1.2	10.5	12.9	14.3	0.13	0.26	0.20	11	0.21	0.046
583393	Soil		0.52	5.56	16.63	22.3	9	4.6	2.7	108	1.03	8.5	0.9	2.2	10.8	7.7	0.05	0.18	0.17	9	0.09	0.017
583394	Soil		0.30	5.90	25.07	15.5	16	3.4	1.4	83	0.73	7.4	1.1	1.9	11.4	5.7	0.06	0.23	0.26	5	0.09	0.014
583395	Soil		0.44	32.76	8.96	59.2	392	8.1	10.0	546	3.10	177.8	1.2	85.4	9.6	17.5	0.09	0.66	0.08	43	0.50	0.143
583396	Soil		0.51	20.56	8.13	66.8	204	20.6	8.7	558	3.15	55.8	0.8	40.3	7.2	27.6	0.10	0.44	0.12	15	0.62	0.208
583397	Soil		0.38	33.45	14.08	61.2	134	32.7	13.5	493	2.68	7.1	0.8	5.5	11.4	27.0	0.13	0.25	0.16	21	0.84	0.064
583398	Soil		0.32	118.21	6.31	64.1	131	53.7	25.0	1125	4.64	10.9	0.1	9.5	1.2	14.2	0.10	0.32	0.07	170	0.33	0.050
583399	Soil		1.37	31.58	11.96	83.8	95	97.2	17.8	1243	3.91	24.3	0.7	1.2	2.8	35.2	0.22	0.53	0.19	89	0.61	0.030
583400	Soil		1.49	77.91	21.25	481.9	134	766.9	57.7	932	8.53	33.0	0.4	1.1	4.2	114.8	0.35	0.34	0.46	232	2.90	0.003
583401	Soil		0.87	21.53	14.64	69.1	63	24.9	8.4	190	2.02	9.0	1.4	3.2	11.5	10.1	0.15	0.41	0.63	13	0.10	0.038
583402	Soil		0.78	20.11	15.81	65.7	73	25.7	10.2	412	2.13	14.5	1.3	13.9	14.2	11.6	0.13	0.27	0.29	12	0.18	0.060
583403	Soil		0.22	5.78	7.39	19.9	21	4.0	1.3	70	0.71	8.2	0.8	5.2	13.4	5.5	0.04	0.16	0.13	7	0.05	0.018
583404	Soil		0.68	14.39	10.90	33.5	71	12.1	7.0	249	1.79	10.0	1.0	6.1	7.0	15.4	0.05	0.33	0.15	29	0.19	0.038
583405	Soil		0.49	9.62	11.58	34.2	71	6.6	2.8	234	1.24	16.2	1.0	87.0	13.2	13.2	0.07	0.26	0.12	12	0.14	0.030
583406	Soil		0.27	6.86	13.19	29.9	18	1.8	0.7	77	0.49	1.0	0.6	1.2	9.3	5.1	0.14	0.10	0.20	2	0.05	0.014
583407	Soil		0.11	6.99	22.20	23.3	20	2.6	1.6	109	0.57	1.9	1.2	1.1	13.9	14.5	0.08	0.12	0.27	4	0.11	0.031
583408	Soil		0.32	2.66	8.43	20.7	7	1.5	1.6	123	0.75	3.1	0.5	0.6	7.8	6.2	0.03	0.11	0.09	4	0.04	0.018
583409	Soil		0.54	12.10	10.50	36.8	21	9.1	3.9	176	1.55	11.4	1.0	5.8	11.2	14.9	0.06	0.31	0.13	17	0.19	0.033
583410	Soil		0.73	8.88	12.16	38.8	43	9.1	3.6	199	1.44	8.9	1.0	16.2	12.8	14.8	0.09	0.23	0.23	16	0.19	0.029
583351	Soil		0.64	8.29	9.61	86.9	120	12.1	8.3	426	2.73	2.5	0.5	0.7	3.3	19.8	0.11	0.23	0.17	38	0.21	0.062
583352	Soil		0.49	5.62	7.90	40.7	28	5.8	2.6	117	1.33	2.9	0.9	0.4	8.4	4.3	0.03	0.24	0.07	14	0.04	0.007
583353	Soil		0.42	4.89	10.29	37.7	8	3.7	2.2	79	1.14	3.1	0.9	<0.2	10.2	4.0	<0.01	0.31	0.51	10	0.02	0.007
583354	Soil		0.32	8.48	26.19	49.6	19	6.1	2.6	165	1.43	3.7	1.4	<0.2	19.1	9.0	0.02	0.30	0.37	13	0.09	0.008
583355	Soil		2.14	9.73	21.89	64.5	46	9.2	4.5	124	2.27	12.0	2.0	<0.2	21.4	10.3	0.08	0.58	0.39	19	0.07	0.016
583356	Soil		0.56	10.19	17.66	39.1	60	8.6	3.9	132	1.59	4.9	1.2	0.7	20.6	20.0	0.03	0.37	0.23	18	0.30	0.012
583357	Soil		0.66	6.68	12.57	32.1	41	7.3	3.4	127	1.44	4.2	1.1	0.4	10.7	15.8	0.04	0.24	0.23	19	0.13	0.014
583358	Soil		1.12	23.84	16.03	42.4	101	19.4	5.5	215	2.00	10.4	3.0	1.4	13.3	24.7	0.08	0.56	0.23	31	0.40	0.028
583359	Soil		1.29	20.88	20.05	47.3	119	19.6	7.4	377	2.20	9.7	2.4	0.3	9.6	32.3	0.07	0.39	0.22	39	0.57	0.033

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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
583390	Soil		28.3	5.7	0.19	123.7	0.020	<1	0.63	0.003	0.20	<0.1	2.9	0.13	<0.02	11	<0.1	<0.02	2.6
583391	Soil		21.5	4.9	0.30	215.3	0.036	<1	0.70	0.002	0.29	<0.1	2.5	0.22	<0.02	11	0.2	<0.02	2.9
583392	Soil		44.5	7.3	0.26	345.8	0.018	1	0.86	0.004	0.22	<0.1	3.8	0.18	<0.02	29	0.2	<0.02	3.2
583393	Soil		24.8	5.4	0.13	125.5	0.008	<1	0.60	0.002	0.12	<0.1	2.1	0.13	<0.02	5	<0.1	<0.02	2.0
583394	Soil		24.4	3.6	0.08	114.2	0.004	<1	0.40	0.003	0.07	0.1	1.9	0.07	<0.02	7	0.1	<0.02	1.3
583395	Soil		30.5	5.5	0.59	308.7	0.013	<1	1.52	0.003	0.23	<0.1	8.1	0.17	<0.02	155	0.3	<0.02	4.9
583396	Soil		32.9	14.5	0.73	199.5	0.008	<1	1.63	0.005	0.16	<0.1	3.0	0.13	<0.02	25	0.3	0.03	4.9
583397	Soil		33.8	21.4	0.62	134.0	0.004	<1	1.24	0.003	0.06	<0.1	3.1	0.05	<0.02	17	0.3	<0.02	3.1
583398	Soil		6.4	89.2	2.19	168.9	0.023	<1	2.59	0.003	0.02	<0.1	19.9	0.04	<0.02	16	<0.1	<0.02	8.6
583399	Soil		12.2	160.0	1.24	451.6	0.080	1	2.33	0.008	0.05	0.1	7.5	0.18	<0.02	23	0.6	0.05	7.4
583400	Soil		10.5	1196.8	6.32	1502.5	0.459	<1	5.30	0.009	3.49	<0.1	22.9	2.32	<0.02	17	0.4	0.11	20.2
583401	Soil		35.3	19.9	0.15	166.3	0.011	<1	0.57	0.003	0.05	<0.1	3.0	0.06	<0.02	19	0.6	0.05	1.5
583402	Soil		38.8	54.3	0.83	372.1	0.005	<1	1.03	0.001	0.08	<0.1	4.4	0.08	<0.02	32	0.5	0.03	2.7
583403	Soil		32.1	5.7	0.09	84.3	0.010	<1	0.36	0.002	0.06	<0.1	1.4	0.04	<0.02	9	<0.1	<0.02	1.1
583404	Soil		22.3	17.2	0.26	305.3	0.036	<1	0.96	0.005	0.05	0.2	3.1	0.05	<0.02	30	0.5	<0.02	2.7
583405	Soil		41.7	8.2	0.13	208.2	0.011	<1	0.50	0.003	0.07	<0.1	2.7	0.05	<0.02	33	0.4	<0.02	1.6
583406	Soil		9.3	2.0	0.05	72.3	0.006	<1	0.22	0.001	0.07	<0.1	1.8	0.05	<0.02	<5	0.5	<0.02	1.0
583407	Soil		22.5	3.0	0.12	87.7	0.017	<1	0.36	0.001	0.12	<0.1	1.6	0.09	<0.02	<5	<0.1	<0.02	1.4
583408	Soil		8.5	2.5	0.09	58.5	0.014	<1	0.30	0.001	0.12	0.1	1.8	0.09	<0.02	<5	0.5	<0.02	1.5
583409	Soil		20.5	11.8	0.26	197.2	0.024	<1	0.74	0.004	0.11	0.1	3.8	0.10	<0.02	<5	0.4	0.03	2.3
583410	Soil		37.4	11.4	0.21	196.9	0.015	<1	0.70	0.004	0.09	0.1	2.9	0.08	<0.02	14	0.1	<0.02	2.2
583351	Soil		7.6	18.2	1.06	387.5	0.104	<1	2.12	0.009	0.21	0.1	2.2	0.14	<0.02	8	0.3	<0.02	7.1
583352	Soil		7.1	8.2	0.23	73.6	0.047	<1	0.74	0.003	0.16	<0.1	1.5	0.17	<0.02	<5	0.4	<0.02	2.7
583353	Soil		9.1	5.4	0.23	66.1	0.039	<1	0.73	0.003	0.14	<0.1	1.2	0.19	<0.02	<5	0.4	<0.02	3.0
583354	Soil		23.7	7.6	0.54	100.0	0.053	<1	1.14	0.004	0.30	<0.1	1.7	0.39	<0.02	6	0.2	<0.02	4.1
583355	Soil		14.8	12.0	0.17	137.2	0.020	<1	0.85	0.003	0.10	<0.1	3.6	0.13	<0.02	25	0.3	0.03	3.1
583356	Soil		40.9	12.5	0.27	418.6	0.012	<1	0.96	0.007	0.11	<0.1	3.8	0.12	<0.02	33	0.4	<0.02	2.6
583357	Soil		20.3	11.5	0.18	217.8	0.022	<1	0.67	0.005	0.12	0.1	2.3	0.09	<0.02	18	0.1	<0.02	2.5
583358	Soil		40.3	23.5	0.32	357.4	0.041	<1	1.22	0.010	0.10	0.1	4.1	0.12	<0.02	111	0.5	<0.02	3.3
583359	Soil		30.8	27.1	0.38	396.8	0.044	<1	1.41	0.012	0.09	0.1	3.9	0.09	<0.02	48	0.3	<0.02	4.1

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Project: LEOTA, RST
Report Date: April 20, 2018

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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	2	0.01	0.001
583360	Soil		0.20	25.17	9.93	55.2	60	43.5	14.5	307	3.52	1.7	0.6	0.9	16.1	82.3	0.04	0.06	0.48	37	1.20	0.032
583368	Soil		0.51	70.69	9.14	91.3	32	49.2	26.1	333	4.99	17.1	2.5	1.7	21.8	17.5	0.02	0.23	0.47	41	0.08	0.034
583369	Soil		0.17	45.33	10.95	145.9	45	78.9	36.2	423	5.34	2.6	0.9	0.8	15.7	81.6	0.03	0.05	0.28	60	0.64	0.059
583370	Soil		0.55	67.55	17.25	153.6	72	64.4	41.7	621	6.36	22.7	2.4	1.4	17.9	6.9	0.04	0.17	2.28	36	0.04	0.022
583371	Soil		0.77	11.82	9.26	57.2	116	22.0	8.9	217	2.67	9.7	0.3	<0.2	3.6	12.1	0.07	0.25	0.29	48	0.13	0.030
583372	Soil		0.58	41.25	8.51	67.3	66	41.9	14.5	287	3.32	10.2	1.1	2.6	7.5	20.8	0.05	0.37	0.21	43	0.39	0.025
583373	Soil		1.68	45.00	18.43	90.4	234	35.4	11.8	412	2.90	10.1	1.6	3.3	6.3	12.9	0.23	0.47	0.32	57	0.11	0.022
583374	Soil		2.03	84.94	27.18	157.3	149	54.1	19.9	769	4.00	7.3	1.6	1.6	10.6	19.7	0.16	0.40	0.32	67	0.23	0.057
583375	Soil		1.89	50.40	24.29	105.4	170	33.0	12.4	534	2.92	9.3	1.1	2.5	6.4	12.5	0.12	0.51	0.30	49	0.10	0.031
583376	Soil		0.82	114.47	9.57	94.2	160	37.9	19.6	1184	3.96	6.0	0.7	0.4	3.8	10.4	0.16	0.23	0.15	71	0.43	0.154
583377	Soil		1.07	31.69	14.72	51.3	112	26.1	12.0	489	2.90	12.7	1.2	5.2	7.6	14.7	0.07	0.90	0.36	60	0.13	0.021
583378	Soil		1.10	27.33	14.10	62.6	96	24.7	16.5	679	2.81	12.0	0.9	7.5	5.0	16.4	0.12	0.73	0.29	59	0.16	0.026
583379	Soil		1.21	43.91	9.74	55.7	34	40.7	15.8	595	3.36	15.8	1.4	4.9	7.0	15.3	0.03	0.97	0.23	60	0.23	0.034
583380	Soil		1.46	19.31	12.74	68.0	33	25.0	10.7	339	2.73	12.7	0.8	3.1	5.4	14.7	0.11	0.68	0.29	43	0.18	0.029
583381	Soil		1.38	36.99	14.03	71.1	108	31.8	12.1	495	2.60	11.0	0.7	3.5	4.9	36.1	0.22	0.96	0.25	46	0.47	0.058
583411	Soil		0.33	4.12	7.33	38.9	58	3.1	1.2	185	0.97	10.8	0.7	5.8	13.8	10.3	0.17	0.19	0.05	5	0.08	0.014
583412	Soil		0.40	12.27	15.18	49.9	61	9.9	4.8	358	1.84	11.5	0.7	3.0	12.1	27.1	0.16	0.31	0.16	13	0.25	0.053
583413	Soil		0.34	8.13	18.19	54.5	98	4.8	3.7	353	1.81	6.0	1.0	8.5	13.6	30.3	0.22	0.28	0.34	9	0.24	0.061
583414	Soil		0.25	18.14	4.96	69.8	149	11.1	13.4	625	3.25	7.2	0.3	7.6	4.9	29.3	0.06	0.15	0.06	42	0.55	0.144
583415	Soil		0.35	20.17	29.27	66.7	212	16.5	7.2	641	2.43	43.6	1.0	31.1	17.8	22.0	0.24	0.36	0.28	18	0.32	0.061
583416	Soil		0.36	10.13	32.86	44.3	79	10.6	3.2	242	1.51	42.7	1.0	6.8	27.5	13.3	0.13	0.36	0.32	8	0.19	0.044
583417	Soil		0.17	15.53	5.51	74.6	77	21.8	18.4	758	3.92	9.0	0.3	2.7	2.7	38.2	0.07	0.22	0.10	41	1.49	0.116
583418	Soil		0.26	91.45	9.20	85.2	415	47.9	24.7	970	4.79	29.2	0.3	18.1	4.2	40.3	0.14	0.43	0.20	153	1.44	0.078
583419	Soil		0.44	80.50	19.53	119.1	206	62.7	30.5	1326	6.34	8.0	0.5	6.9	8.9	32.3	0.17	0.32	0.24	176	0.78	0.090
583420	Soil		1.44	82.95	26.28	95.6	232	135.4	21.1	1233	4.40	60.0	0.8	5.7	5.4	17.2	0.29	1.18	0.34	45	0.35	0.065
583421	Soil		0.38	82.13	3.67	68.9	155	51.5	18.0	668	3.38	10.4	0.4	1.2	2.2	59.7	0.06	0.10	0.06	51	1.72	0.074
583422	Soil		1.08	25.14	15.96	64.0	156	226.1	21.9	423	2.33	29.9	1.7	5.6	5.3	36.1	0.42	0.88	0.19	34	0.46	0.050
583423	Soil		0.43	39.02	10.17	68.9	52	56.2	21.3	316	3.23	1.9	1.3	2.8	11.5	490.2	0.02	0.18	0.30	20	6.32	0.064
583424	Soil		0.39	32.97	11.90	68.6	47	48.2	16.7	404	2.81	2.4	1.2	2.3	13.1	447.0	0.03	0.20	0.32	19	4.30	0.068
583425	Soil		0.38	41.89	10.41	75.4	72	61.6	22.8	511	3.91	3.3	1.2	1.9	9.8	139.4	0.06	0.23	0.20	18	1.58	0.069

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Project: LEOTA, RST
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		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
583360	Soil		51.8	46.0	1.22	134.5	0.099	<1	2.36	0.009	0.44	<0.1	6.7	0.44	<0.02	13	<0.1	<0.02	7.7
583368	Soil		104.3	35.1	0.76	161.9	0.032	<1	2.19	0.005	0.16	<0.1	6.9	0.26	<0.02	23	0.6	0.03	5.8
583369	Soil		50.8	90.1	1.78	169.9	0.222	<1	3.79	0.046	1.26	0.1	6.3	0.78	<0.02	<5	0.1	0.04	12.3
583370	Soil		59.7	28.7	0.23	85.1	0.004	<1	1.26	0.002	0.04	0.3	10.0	0.20	<0.02	20	0.6	0.05	3.7
583371	Soil		11.2	29.2	0.54	157.7	0.084	<1	1.48	0.006	0.13	0.5	2.7	0.11	<0.02	11	0.5	<0.02	5.9
583372	Soil		28.3	32.6	0.57	204.8	0.032	<1	1.82	0.008	0.05	0.2	5.9	0.09	<0.02	32	0.4	0.04	4.8
583373	Soil		23.1	34.6	0.50	193.0	0.075	<1	1.88	0.007	0.06	0.1	5.7	0.17	<0.02	58	0.8	0.04	5.3
583374	Soil		31.5	42.5	0.87	398.3	0.100	<1	1.79	0.006	0.42	<0.1	8.5	0.37	<0.02	48	0.6	0.08	5.6
583375	Soil		15.8	27.7	0.40	174.2	0.053	<1	1.43	0.006	0.05	<0.1	3.8	0.13	<0.02	24	0.7	0.05	4.2
583376	Soil		15.6	34.3	1.61	305.8	0.065	<1	2.20	0.004	0.30	<0.1	9.1	0.26	<0.02	31	<0.1	0.03	6.9
583377	Soil		25.3	35.4	0.36	347.5	0.038	1	2.08	0.005	0.05	<0.1	5.7	0.15	<0.02	44	0.5	<0.02	5.9
583378	Soil		23.4	33.4	0.38	441.9	0.038	2	2.06	0.005	0.05	0.1	5.4	0.13	<0.02	41	0.7	0.04	5.5
583379	Soil		18.1	56.0	0.76	359.4	0.107	2	2.10	0.005	0.03	0.1	5.6	0.09	<0.02	23	0.9	<0.02	5.2
583380	Soil		12.1	31.6	0.51	260.5	0.043	1	1.61	0.007	0.07	0.2	3.1	0.09	<0.02	15	0.4	0.04	4.7
583381	Soil		16.4	31.0	0.47	462.0	0.062	1	1.54	0.019	0.07	0.2	4.6	0.06	<0.02	43	<0.1	<0.02	4.6
583411	Soil		37.5	3.0	0.07	112.8	0.004	1	0.31	0.002	0.08	<0.1	2.9	0.06	<0.02	17	<0.1	<0.02	1.4
583412	Soil		31.2	8.4	0.34	196.9	0.037	2	0.80	0.004	0.27	<0.1	4.7	0.25	<0.02	23	0.1	<0.02	3.2
583413	Soil		33.1	5.9	0.36	182.0	0.036	<1	0.71	0.002	0.34	0.1	4.4	0.28	<0.02	22	<0.1	0.02	3.3
583414	Soil		30.1	17.7	1.10	294.1	0.089	<1	1.69	0.002	0.67	0.1	5.6	0.33	<0.02	31	0.4	<0.02	4.3
583415	Soil		48.9	12.9	0.55	251.2	0.015	<1	1.11	0.003	0.19	<0.1	5.0	0.19	<0.02	72	0.3	<0.02	3.3
583416	Soil		52.2	9.3	0.32	150.0	0.007	<1	0.68	0.003	0.10	<0.1	4.1	0.17	<0.02	23	0.5	0.03	2.4
583417	Soil		10.2	32.3	1.67	236.5	0.054	<1	2.24	0.003	0.35	<0.1	4.8	0.26	<0.02	26	0.2	<0.02	5.4
583418	Soil		14.0	103.6	2.09	289.4	0.070	1	2.51	0.005	0.36	<0.1	17.6	0.26	<0.02	28	0.4	<0.02	8.0
583419	Soil		17.7	122.5	2.26	442.2	0.135	2	2.65	0.004	0.64	<0.1	23.7	0.53	<0.02	30	0.3	<0.02	10.1
583420	Soil		21.0	112.6	1.01	240.6	0.044	<1	1.33	0.004	0.17	<0.1	9.7	0.18	<0.02	34	0.6	0.07	3.8
583421	Soil		6.7	59.3	1.78	105.3	<0.001	2	1.59	0.005	0.09	<0.1	9.1	0.06	<0.02	18	0.2	<0.02	3.8
583422	Soil		21.0	85.7	0.71	360.9	0.036	<1	1.40	0.008	0.07	0.1	4.6	0.10	0.02	35	0.6	<0.02	4.2
583423	Soil		39.5	23.7	0.73	64.9	0.014	2	1.47	0.006	0.11	<0.1	4.1	0.15	<0.02	15	0.4	0.05	4.9
583424	Soil		40.8	21.1	0.55	132.8	0.018	1	1.36	0.006	0.09	<0.1	5.1	0.14	<0.02	13	0.5	0.03	4.4
583425	Soil		39.7	19.9	0.68	107.2	0.047	1	1.36	0.006	0.18	<0.1	4.0	0.27	<0.02	16	0.5	0.05	3.9

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		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	2	0.01	0.001
583426	Soil		0.27	34.17	10.74	67.7	41	46.9	19.9	469	2.80	4.3	0.8	1.4	7.0	550.4	0.06	0.20	0.15	14	9.97	0.066
583427	Soil		0.24	63.77	3.19	75.5	42	58.2	24.4	138	2.74	1.8	0.8	1.9	4.0	16.6	0.04	0.12	0.29	12	0.33	0.107
583428	Soil		0.64	39.11	12.34	87.3	111	42.3	16.5	354	3.09	7.7	1.3	2.5	7.4	60.5	0.28	0.51	0.24	41	0.84	0.073
583429	Soil		0.69	28.11	11.66	62.8	100	28.5	12.6	370	2.53	8.9	1.7	4.7	5.5	57.0	0.18	0.52	0.20	41	0.70	0.067
583430	Soil		0.86	42.40	10.67	81.7	93	34.5	16.3	262	3.07	6.0	1.1	1.6	8.0	50.8	0.09	0.44	0.30	37	0.61	0.059
583431	Soil		0.43	54.80	3.25	62.0	91	102.0	31.8	859	5.27	0.6	0.1	4.5	0.4	78.1	0.11	0.02	<0.02	134	3.23	0.091
583432	Soil		0.10	61.71	7.99	68.5	152	51.2	30.7	1390	4.72	2.4	<0.1	14.5	0.3	53.6	0.10	0.10	0.03	172	3.40	0.082
583433	Soil		0.59	117.34	7.53	51.6	177	77.5	28.3	1387	4.92	3.2	0.2	2.0	1.2	14.0	0.29	0.10	0.03	130	0.49	0.116
583434	Soil		2.27	91.49	2.01	63.2	49	164.3	19.3	843	3.33	8.9	0.8	0.7	5.9	13.4	0.08	0.48	0.04	70	0.52	0.072
583435	Soil		0.54	126.84	4.34	60.4	91	98.4	19.0	603	3.14	12.0	0.5	5.3	6.3	15.5	0.06	0.45	0.10	51	0.35	0.095
583436	Soil		0.60	99.16	6.06	56.1	39	79.4	16.1	546	3.07	10.8	0.5	3.2	3.6	14.1	0.04	0.53	0.12	53	0.29	0.063
583437	Soil		1.02	22.22	11.87	48.1	63	19.6	6.0	223	1.94	7.9	1.4	3.3	7.2	20.2	0.06	0.60	0.18	37	0.24	0.036
583438	Soil		1.07	18.58	10.92	60.5	27	19.9	7.1	223	2.23	11.6	1.0	5.9	8.7	18.0	0.07	0.80	0.27	46	0.20	0.023
583439	Soil		1.47	16.46	40.48	104.0	39	14.3	5.4	257	1.71	11.0	3.2	2.2	22.1	13.4	0.13	0.86	0.33	26	0.16	0.017
583440	Soil		2.81	11.71	102.96	259.8	68	16.1	4.6	577	2.87	31.1	6.0	2.1	44.2	14.1	0.33	1.52	0.56	28	0.18	0.019
583441	Soil		1.64	42.05	19.97	81.0	188	32.5	9.1	262	2.87	19.2	1.7	3.8	27.9	22.4	0.11	1.16	0.39	56	0.29	0.017
583442	Soil		1.91	7.98	22.42	90.3	176	11.9	6.5	334	2.06	7.1	0.6	<0.2	5.6	15.3	0.69	0.48	0.30	48	0.26	0.022
583443	Soil		14.77	37.80	21.26	219.3	780	18.9	2.7	89	2.79	45.0	4.1	4.7	10.2	49.0	0.39	0.68	0.41	19	0.14	0.044
583444	Soil		19.82	92.30	36.92	313.6	1017	62.8	10.9	363	3.27	32.3	6.2	1.3	13.8	78.5	1.15	0.79	0.65	33	0.15	0.088
583445	Soil		34.48	130.99	31.10	335.4	1684	87.3	23.7	986	4.74	58.3	3.5	4.4	10.1	53.7	3.16	1.36	0.49	33	0.64	0.137
583446	Soil		6.70	88.66	21.70	163.3	778	59.4	12.2	597	2.83	18.1	3.4	9.4	8.6	54.9	1.31	1.18	0.41	35	1.32	0.087
583449	Soil		5.64	48.41	15.22	89.5	488	34.4	11.4	480	2.90	14.5	1.8	3.6	6.6	27.0	0.53	0.87	0.28	37	0.40	0.053
583450	Soil		0.97	88.73	19.82	75.5	220	228.5	31.4	1857	4.26	62.7	0.6	1.5	6.2	16.1	0.21	0.59	0.34	55	0.36	0.073
583451	Soil		0.88	60.33	19.40	61.9	79	102.4	17.1	689	3.02	32.6	1.0	3.1	5.7	20.3	0.11	1.03	0.26	51	0.28	0.041
583452	Soil		1.55	65.32	15.43	69.7	104	47.0	11.5	1134	2.80	28.2	1.0	2.7	6.6	17.6	0.28	0.72	0.27	21	0.24	0.070
583453	Soil		0.85	55.03	13.97	56.6	38	103.0	17.8	485	3.30	16.7	0.5	5.1	4.0	11.3	0.05	0.60	0.32	58	0.12	0.026
583454	Soil		0.74	41.34	12.74	57.5	50	64.7	12.7	465	2.74	14.7	0.9	5.8	4.9	13.9	0.06	0.54	0.20	48	0.19	0.032
583455	Soil		0.45	119.13	6.23	72.0	129	69.8	21.0	1397	5.24	17.4	0.4	8.3	2.6	16.7	0.15	0.50	0.08	80	0.42	0.107
583456	Soil		1.03	80.83	42.44	69.0	175	151.4	21.8	980	4.27	37.0	1.1	4.4	9.7	20.9	0.16	0.75	0.35	49	0.43	0.142
583457	Soil		0.36	58.29	6.81	128.2	81	603.4	48.3	1393	5.52	54.3	0.3	1.3	1.8	27.7	0.23	0.20	0.06	162	1.01	0.065

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Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

		Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
583426	Soil		26.2	15.8	0.60	98.5	0.027	<1	1.00	0.005	0.10	<0.1	3.2	0.16	<0.02	8	<0.1	0.03	3.1
583427	Soil		37.4	19.4	0.60	77.7	0.009	<1	1.30	0.004	0.03	<0.1	1.6	0.02	<0.02	12	<0.1	0.06	3.8
583428	Soil		26.1	30.9	0.61	287.1	0.075	1	1.86	0.014	0.09	<0.1	5.1	0.11	<0.02	38	0.5	0.05	5.5
583429	Soil		19.6	25.8	0.49	275.7	0.062	2	1.42	0.014	0.06	0.1	4.0	0.06	<0.02	37	0.4	<0.02	4.2
583430	Soil		29.8	27.8	0.58	268.5	0.064	<1	1.75	0.013	0.07	0.1	4.1	0.08	<0.02	28	0.3	<0.02	4.9
583431	Soil		4.0	181.1	3.03	211.6	0.130	<1	3.17	0.002	0.49	<0.1	13.6	0.24	<0.02	15	<0.1	<0.02	8.2
583432	Soil		2.5	143.7	2.23	168.6	0.101	<1	2.73	0.002	0.30	<0.1	21.8	0.14	<0.02	10	<0.1	0.04	8.6
583433	Soil		10.5	129.4	2.74	154.4	0.051	<1	2.81	0.002	0.16	<0.1	19.3	0.13	<0.02	37	0.2	<0.02	7.9
583434	Soil		22.0	256.3	2.30	150.9	0.060	<1	2.06	0.002	0.18	<0.1	7.9	0.17	<0.02	11	0.4	0.13	5.9
583435	Soil		21.7	102.8	1.55	147.9	0.019	<1	1.76	0.002	0.06	<0.1	4.9	0.06	<0.02	22	0.2	0.06	4.2
583436	Soil		11.3	101.6	1.38	163.1	0.042	<1	1.94	0.003	0.03	<0.1	5.5	0.04	<0.02	10	0.4	0.05	4.9
583437	Soil		16.1	24.4	0.36	274.3	0.048	2	1.24	0.009	0.05	0.3	3.7	0.10	<0.02	19	0.3	<0.02	3.7
583438	Soil		15.5	27.1	0.38	304.9	0.046	2	1.47	0.009	0.05	0.3	3.2	0.10	<0.02	26	<0.1	0.02	3.6
583439	Soil		23.3	16.5	0.19	177.2	0.036	<1	0.99	0.006	0.05	0.5	2.7	0.14	<0.02	90	0.9	<0.02	3.4
583440	Soil		13.1	18.0	0.18	223.6	0.031	<1	1.29	0.007	0.10	1.2	3.4	0.30	<0.02	105	1.0	<0.02	4.8
583441	Soil		19.9	38.6	0.49	390.7	0.060	1	1.84	0.009	0.08	0.6	6.4	0.14	<0.02	41	0.4	0.05	5.4
583442	Soil		11.2	21.3	0.27	382.2	0.042	<1	1.30	0.008	0.06	0.4	2.4	0.14	<0.02	25	<0.1	<0.02	4.6
583443	Soil		20.9	7.2	0.04	134.0	0.002	<1	0.38	0.011	0.10	0.4	1.9	0.29	0.15	167	4.4	0.09	1.3
583444	Soil		21.4	11.6	0.06	172.0	0.003	2	0.42	0.006	0.08	0.4	2.8	0.31	0.05	69	2.7	0.15	1.6
583445	Soil		17.7	13.5	0.18	191.2	0.003	3	0.42	0.004	0.08	0.4	3.0	0.24	0.06	89	7.8	0.29	1.4
583446	Soil		18.9	22.8	0.47	321.6	0.021	2	0.95	0.012	0.08	0.3	4.0	0.15	0.03	104	3.2	0.08	2.8
583449	Soil		20.9	24.2	0.32	313.5	0.026	<1	1.09	0.009	0.06	0.2	4.1	0.07	<0.02	60	1.7	0.06	3.2
583450	Soil		21.5	162.1	1.86	330.9	0.041	1	2.29	0.004	0.09	<0.1	7.6	0.09	<0.02	37	0.2	0.06	5.3
583451	Soil		21.0	137.2	1.02	366.1	0.057	<1	1.71	0.006	0.06	0.1	6.2	0.08	<0.02	47	0.2	0.05	4.8
583452	Soil		20.9	27.6	0.39	265.2	0.017	<1	1.05	0.003	0.06	0.2	2.7	0.05	<0.02	23	0.1	0.07	2.7
583453	Soil		15.1	158.2	1.65	199.6	0.040	<1	2.28	0.004	0.04	0.1	6.4	0.08	<0.02	9	0.2	0.08	4.9
583454	Soil		16.0	84.4	0.78	266.8	0.034	<1	1.61	0.007	0.04	0.1	4.4	0.08	<0.02	14	0.3	0.04	4.5
583455	Soil		11.8	78.3	1.45	341.6	0.018	<1	2.54	0.005	0.14	<0.1	10.1	0.05	<0.02	24	<0.1	<0.02	7.2
583456	Soil		30.4	157.6	1.72	218.2	0.032	<1	2.36	0.005	0.05	0.1	6.6	0.06	<0.02	26	0.2	0.04	5.9
583457	Soil		3.9	752.3	5.76	560.9	0.260	<1	4.22	0.005	1.02	<0.1	18.7	1.23	<0.02	<5	0.3	<0.02	11.3

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Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

		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	2	0.01	0.001
583458	Soil		2.69	66.81	21.40	77.0	190	145.7	24.4	1400	4.33	18.4	0.8	14.1	6.3	25.4	0.25	0.46	0.29	53	0.41	0.115
583459	Soil		0.92	75.33	9.18	87.4	124	236.5	29.4	1186	4.63	20.0	0.6	3.5	4.7	21.7	0.21	0.54	0.12	69	0.49	0.091
583460	Soil		0.57	30.00	8.69	58.4	89	64.8	15.5	499	3.23	21.0	0.8	3.2	3.2	22.9	0.07	0.48	0.17	78	0.35	0.047
583461	Soil		0.23	12.89	19.56	33.2	46	16.9	3.7	223	1.35	7.5	0.8	5.0	21.7	12.0	0.06	0.45	0.29	12	0.21	0.051
583462	Soil		0.24	10.31	22.41	34.3	58	9.4	2.7	226	1.16	13.0	0.9	1.7	17.1	15.7	0.08	0.23	0.26	7	0.16	0.043
583463	Soil		0.37	13.06	17.18	45.1	71	10.7	3.3	250	1.59	15.7	1.2	13.7	18.0	18.4	0.06	0.29	0.22	13	0.20	0.050
583464	Soil		0.22	17.33	3.66	77.2	95	14.4	14.2	474	3.75	5.0	0.6	6.3	4.4	20.0	0.09	0.19	0.04	71	0.53	0.137
583465	Soil		0.45	16.79	7.15	48.5	23	12.3	6.9	244	2.46	10.9	0.6	9.6	6.8	16.5	0.05	0.35	0.11	40	0.30	0.081
583466	Soil		0.27	7.53	21.01	17.3	75	3.8	1.7	197	0.77	8.4	0.9	4.9	19.0	5.7	0.14	0.27	0.24	6	0.10	0.028
583467	Soil		0.45	8.80	12.33	37.3	39	6.8	2.7	138	1.30	11.0	1.1	6.5	15.1	13.8	0.11	0.33	0.13	10	0.15	0.046
583468	Soil		0.45	9.22	13.77	33.0	56	8.1	2.3	117	0.99	10.8	1.1	5.3	18.0	9.7	0.10	0.29	0.16	8	0.10	0.028
583469	Soil		0.21	41.25	8.28	111.9	18	60.7	26.6	288	4.16	1.8	1.0	0.6	8.6	51.7	<0.01	0.07	0.19	46	0.34	0.038
583470	Soil		0.17	51.99	12.15	108.9	111	70.3	28.3	778	5.24	9.1	0.8	1.0	10.0	131.6	0.12	0.03	1.08	49	0.77	0.071
583471	Soil		0.82	49.64	7.15	107.7	23	54.7	21.9	493	4.73	11.9	1.3	2.1	7.1	10.0	0.03	0.34	0.44	30	0.08	0.027
583472	Soil		0.54	66.60	6.91	110.3	17	62.5	29.4	429	6.04	12.1	2.2	1.9	17.1	12.2	0.04	0.15	0.37	44	0.12	0.033
583473	Soil		0.09	45.66	10.34	119.7	21	65.9	24.5	311	4.25	1.8	0.9	2.2	8.2	104.0	0.02	0.03	0.19	53	0.66	0.069
583474	Soil		0.50	50.79	12.34	94.3	18	50.1	30.3	296	4.25	7.7	0.5	0.6	11.6	10.2	0.03	0.13	0.34	64	0.34	0.145
583475	Soil		0.47	52.89	2.96	127.0	28	85.0	36.6	420	4.41	7.1	1.1	1.0	5.3	5.3	0.03	0.11	0.35	19	0.09	0.044
583476	Soil		0.49	52.74	7.35	116.6	16	51.6	29.2	336	5.64	7.1	2.7	0.8	16.2	15.5	0.03	0.12	0.32	52	0.10	0.056
583477	Soil		0.37	27.13	12.76	98.3	9	62.8	27.2	263	4.33	4.1	0.8	0.8	17.2	11.8	0.03	0.11	0.34	39	0.19	0.070
583478	Soil		0.60	53.10	15.40	107.1	24	73.8	32.4	602	5.21	5.0	1.9	1.3	21.6	24.9	0.07	0.13	0.77	58	0.42	0.093
583479	Soil		0.32	34.21	17.82	101.5	79	70.2	22.5	375	5.72	5.2	1.5	1.4	20.8	92.0	0.04	0.07	0.28	55	0.66	0.072
583480	Soil		0.14	37.60	12.58	121.6	19	60.9	27.9	312	4.24	2.6	1.0	0.8	14.1	85.0	0.03	0.04	0.32	52	0.55	0.053
583481	Soil		0.52	102.43	9.60	59.1	20	90.1	32.7	805	5.28	1.6	0.2	1.2	1.2	8.5	0.05	0.10	0.13	297	0.23	0.077
583482	Soil		1.80	153.99	6.16	67.4	60	67.2	18.8	996	3.02	12.4	1.2	7.1	8.2	10.7	0.08	0.43	0.28	45	0.10	0.029
583483	Soil		1.71	302.32	8.71	111.0	115	55.4	14.9	453	4.31	6.9	2.0	9.5	9.9	15.6	0.06	0.39	0.31	63	0.10	0.025
583484	Soil		1.30	128.64	7.67	65.5	106	50.1	15.0	349	3.12	9.0	1.1	3.3	6.9	12.6	0.07	0.43	0.41	54	0.12	0.021
0751	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0752	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0753	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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Client: **XyQuest Mining Corp.**
702-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: LEOTA, RST
Report Date: April 20, 2018

CERTIFICATE OF ANALYSIS WHI17000989.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
583458	Soil	21.4	167.6	1.22	349.7	0.068	<1	1.42	0.003	0.23	<0.1	9.3	0.31	<0.02	41	0.4	0.08	3.8
583459	Soil	13.3	261.6	1.72	350.9	0.094	<1	2.00	0.005	0.22	<0.1	9.4	0.38	<0.02	25	0.3	0.05	5.3
583460	Soil	12.3	104.8	1.17	335.9	0.065	<1	1.95	0.009	0.12	0.1	8.9	0.12	<0.02	25	0.2	<0.02	5.9
583461	Soil	47.0	15.3	0.24	171.9	0.010	<1	0.67	0.004	0.07	<0.1	4.3	0.09	<0.02	22	<0.1	<0.02	2.5
583462	Soil	20.0	7.2	0.19	135.0	0.011	<1	0.58	0.002	0.14	<0.1	2.8	0.16	<0.02	11	<0.1	<0.02	2.0
583463	Soil	39.5	10.8	0.28	223.6	0.019	<1	0.87	0.004	0.14	<0.1	3.9	0.13	<0.02	18	<0.1	<0.02	3.2
583464	Soil	12.9	22.0	1.24	507.1	0.131	<1	1.96	0.004	0.82	<0.1	7.9	0.38	<0.02	17	<0.1	<0.02	7.5
583465	Soil	19.0	17.3	0.53	322.4	0.066	<1	1.17	0.006	0.29	0.1	3.8	0.17	<0.02	22	0.2	<0.02	4.3
583466	Soil	38.2	7.1	0.07	127.7	0.004	<1	0.35	0.002	0.08	<0.1	2.4	0.07	<0.02	78	<0.1	<0.02	1.3
583467	Soil	41.5	9.5	0.16	156.7	0.011	<1	0.54	0.003	0.13	<0.1	3.1	0.13	<0.02	33	<0.1	<0.02	2.0
583468	Soil	55.2	14.8	0.13	147.1	0.010	<1	0.44	0.002	0.13	<0.1	2.3	0.10	<0.02	22	<0.1	<0.02	1.4
583469	Soil	27.9	62.7	1.49	111.2	0.174	<1	3.18	0.022	0.71	<0.1	6.3	0.53	<0.02	<5	<0.1	<0.02	9.7
583470	Soil	30.2	75.1	1.47	142.8	0.161	<1	3.50	0.103	0.88	9.0	6.2	0.80	<0.02	29	0.2	<0.02	11.2
583471	Soil	22.5	26.0	0.20	128.5	0.011	<1	0.91	0.003	0.04	0.1	7.4	0.15	<0.02	52	0.3	0.03	3.2
583472	Soil	69.2	37.0	0.62	71.7	0.007	<1	1.79	0.004	0.04	<0.1	10.4	0.19	<0.02	23	0.4	0.03	5.5
583473	Soil	24.1	77.8	1.64	144.2	0.196	<1	3.44	0.054	0.94	<0.1	5.7	0.56	<0.02	13	0.2	0.02	10.7
583474	Soil	9.5	41.6	0.95	114.7	0.049	<1	2.44	0.005	0.31	<0.1	3.4	0.28	<0.02	<5	0.3	0.04	7.4
583475	Soil	18.2	21.7	0.40	67.4	0.005	<1	1.57	0.002	0.03	0.1	3.8	0.06	<0.02	7	0.4	<0.02	4.0
583476	Soil	60.6	42.3	0.94	76.6	0.012	<1	2.36	0.004	0.02	<0.1	10.2	0.05	<0.02	<5	0.6	0.03	7.0
583477	Soil	48.8	44.9	1.09	219.0	0.181	<1	3.06	0.006	0.90	<0.1	4.8	0.58	<0.02	7	0.5	0.04	7.3
583478	Soil	76.1	63.5	1.14	255.4	0.137	<1	2.64	0.008	0.53	<0.1	8.6	0.53	<0.02	13	0.7	0.07	7.9
583479	Soil	218.9	77.1	1.64	276.4	0.181	<1	4.30	0.059	0.71	<0.1	11.0	0.49	<0.02	14	0.6	<0.02	11.3
583480	Soil	33.8	74.5	1.69	170.8	0.152	<1	3.73	0.069	0.90	<0.1	5.9	0.59	<0.02	<5	0.3	0.02	11.7
583481	Soil	2.9	244.7	2.41	364.0	0.365	<1	3.32	0.004	1.60	<0.1	31.8	0.63	<0.02	<5	<0.1	<0.02	9.8
583482	Soil	31.3	24.3	0.26	332.5	0.019	<1	0.94	0.004	0.05	<0.1	4.9	0.07	<0.02	58	0.8	0.06	2.7
583483	Soil	32.0	53.2	0.75	388.1	0.025	<1	2.20	0.005	0.06	<0.1	7.3	0.08	<0.02	43	0.4	0.16	5.6
583484	Soil	21.7	36.7	0.42	287.0	0.023	<1	1.29	0.004	0.04	<0.1	4.7	0.08	<0.02	12	0.6	0.08	3.7
0751	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0752	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0753	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.

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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	2	0.01	0.001
0754	Soil		1.35	35.79	18.04	74.3	29	31.8	9.9	399	2.67	12.8	1.4	9.8	10.0	18.6	0.06	0.96	0.33	51	0.22	0.017
0755	Soil		1.25	26.58	22.03	93.9	43	23.3	6.0	183	2.41	18.3	3.4	4.6	19.8	20.4	0.03	0.77	0.50	40	0.25	0.021
0756	Soil		1.59	21.40	38.37	210.5	45	28.2	6.3	732	2.23	13.3	4.1	4.1	20.5	20.8	0.63	0.42	2.17	24	0.30	0.046
0757	Soil		1.17	8.87	36.10	187.9	13	7.8	1.1	144	1.39	5.2	6.4	2.4	46.9	10.4	0.05	0.38	0.46	12	0.11	0.019
0758	Soil		2.91	26.04	61.57	207.4	47	27.7	5.3	800	1.73	23.2	6.1	3.6	46.1	11.7	0.57	0.99	0.65	19	0.13	0.015
0759	Soil		25.54	90.42	40.72	216.7	469	57.7	14.5	452	3.48	63.9	5.1	4.2	22.6	26.1	1.10	1.22	0.64	36	0.10	0.042
0760	Soil		27.82	114.51	32.68	392.1	641	73.6	10.6	291	3.12	92.1	8.1	5.4	16.4	32.9	2.30	3.95	0.56	41	0.28	0.068
0761	Soil		22.22	96.55	38.73	228.3	959	59.4	11.9	624	2.74	59.0	5.8	3.6	15.0	30.9	1.60	3.54	0.54	31	0.26	0.060
0762	Soil		8.57	72.32	44.62	188.9	571	53.8	8.4	565	1.81	28.5	9.4	5.1	11.7	52.2	3.42	2.28	0.70	26	1.76	0.052
0763	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0764	Soil		32.39	137.17	26.91	286.7	1250	77.6	19.5	778	4.11	38.9	2.5	2.8	8.3	35.8	2.83	1.87	0.31	39	0.31	0.094
0765	Soil		21.48	122.11	18.95	245.8	2032	87.1	16.1	521	3.65	13.0	2.1	6.2	9.6	41.0	2.15	0.81	0.29	29	0.79	0.063
0766	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0767	Soil		0.88	24.42	6.78	60.1	332	33.7	13.1	296	2.54	4.2	1.3	3.3	13.2	51.5	0.06	0.14	0.15	10	0.19	0.066
0768	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0769	Soil		13.57	105.10	14.02	144.1	1822	55.9	12.6	372	2.87	12.4	1.3	8.9	6.8	36.9	1.11	0.45	0.23	32	1.19	0.056
0770	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0771	Soil		39.25	90.11	31.86	142.0	1495	58.2	13.9	846	3.80	43.5	4.5	1.9	7.4	54.6	1.30	0.42	0.41	56	0.37	0.057
0772	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0773	Soil		10.87	109.24	25.83	236.1	683	83.5	22.8	641	3.66	11.8	1.6	3.8	7.3	27.9	0.79	0.51	0.38	23	0.61	0.047
0774	Soil		4.76	92.14	18.04	126.9	366	59.4	15.4	797	2.85	7.8	1.6	3.7	6.6	20.4	0.24	0.37	0.38	36	0.26	0.025
0775	Soil		30.96	77.57	30.33	795.4	710	172.0	32.7	1614	7.52	130.0	2.3	3.3	6.5	24.1	1.93	2.20	0.47	64	0.68	0.076
0776	Soil		18.84	106.19	12.02	171.9	627	64.6	13.3	546	2.68	33.9	1.8	2.8	6.0	91.0	0.78	0.61	0.17	26	5.04	0.067
0777	Soil		3.37	121.00	15.41	232.8	1000	65.5	16.8	852	3.24	43.6	1.4	5.8	8.7	50.9	0.39	2.49	0.11	16	2.35	0.075
0778	Soil		23.94	106.70	19.19	229.1	1269	93.9	29.4	2634	3.92	46.7	2.7	5.8	7.6	77.1	3.00	1.53	0.64	37	1.74	0.090
0779	Soil		3.45	45.99	11.80	95.6	123	224.3	26.0	628	4.02	12.5	1.8	4.2	10.2	27.1	0.22	0.78	0.35	35	0.27	0.035
0780	Soil		34.04	103.71	16.02	249.8	384	215.9	21.6	766	3.89	25.5	2.5	2.8	10.1	34.8	1.59	2.31	0.26	44	0.12	0.038

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
0754	Soil	28.2	34.2	0.43	328.2	0.069	1	1.74	0.010	0.08	0.3	5.2	0.15	<0.02	61	1.0	0.03	5.1
0755	Soil	21.2	29.9	0.35	286.0	0.036	1	2.03	0.010	0.07	0.3	5.4	0.20	<0.02	68	<0.1	<0.02	6.8
0756	Soil	27.2	24.6	0.31	282.2	0.017	2	1.43	0.019	0.28	1.4	4.4	0.83	<0.02	48	1.2	<0.02	8.6
0757	Soil	21.6	5.3	0.08	101.4	0.005	<1	0.87	0.009	0.08	1.0	2.2	0.24	<0.02	96	1.9	<0.02	4.1
0758	Soil	31.6	13.9	0.15	209.9	0.016	1	1.01	0.007	0.09	0.8	3.0	0.39	<0.02	151	2.4	<0.02	4.7
0759	Soil	19.5	13.2	0.07	136.8	0.004	1	0.67	0.004	0.10	0.5	3.4	0.21	<0.02	133	3.3	0.10	2.4
0760	Soil	24.0	14.8	0.09	177.6	0.004	2	0.74	0.004	0.10	0.4	4.6	0.20	<0.02	170	5.4	0.08	2.4
0761	Soil	21.9	12.0	0.09	160.1	0.005	2	0.58	0.004	0.09	0.5	4.0	0.20	<0.02	148	4.8	0.07	2.1
0762	Soil	23.6	16.6	0.30	274.9	0.012	5	1.13	0.009	0.10	0.4	2.8	0.27	0.12	113	9.5	0.03	4.1
0763	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0764	Soil	20.3	16.2	0.10	211.2	0.003	1	0.51	0.004	0.08	0.2	3.9	0.11	0.03	97	7.7	0.17	1.4
0765	Soil	29.0	15.8	0.41	181.8	0.009	<1	0.58	0.005	0.05	0.2	3.0	0.07	0.04	138	8.3	0.14	1.7
0766	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0767	Soil	51.5	13.6	0.05	118.6	<0.001	1	0.27	0.004	0.05	<0.1	1.5	0.05	<0.02	53	1.1	0.05	1.7
0768	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
0769	Soil	20.4	18.1	0.47	228.7	0.007	2	0.67	0.006	0.07	0.2	3.0	0.07	<0.02	56	5.7	0.12	1.9
0770	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0771	Soil	17.0	15.5	0.13	284.8	<0.001	2	0.43	0.004	0.07	0.3	3.1	0.14	0.04	121	7.9	0.18	1.1
0772	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
0773	Soil	22.8	16.6	0.16	205.0	0.003	1	0.33	0.002	0.06	<0.1	2.9	0.13	<0.02	110	15.5	0.25	1.3
0774	Soil	24.6	27.6	0.23	393.4	0.008	<1	1.08	0.004	0.06	<0.1	4.0	0.10	<0.02	65	6.3	0.16	3.0
0775	Soil	16.7	30.6	0.18	141.9	<0.001	2	0.45	0.005	0.05	0.1	13.5	0.72	<0.02	421	21.7	0.13	1.9
0776	Soil	15.0	16.1	0.87	226.0	0.002	2	0.44	0.005	0.06	0.1	2.4	0.11	<0.02	85	8.4	0.09	1.4
0777	Soil	22.2	14.5	0.50	139.9	0.001	3	0.28	0.002	0.06	<0.1	2.6	0.11	<0.02	64	8.6	0.23	1.1
0778	Soil	19.4	13.4	0.62	364.1	0.001	2	0.34	0.002	0.07	0.2	3.4	0.42	0.03	149	9.0	0.33	1.0
0779	Soil	37.1	140.0	0.81	204.1	0.017	3	0.91	0.006	0.05	0.1	4.4	0.07	<0.02	35	0.7	0.05	3.1
0780	Soil	29.7	68.6	0.39	244.5	0.004	2	0.59	0.004	0.06	0.1	3.8	0.12	<0.02	81	5.9	0.12	1.8

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Client: **XyQuest Mining Corp.**
702-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: LEOTA, RST
Report Date: April 20, 2018

QUALITY CONTROL REPORT WHI17000989.1

	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	2	0.01	0.001
Pulp Duplicates																					
282	Soil	0.09	23.37	4.75	81.1	24	38.3	16.8	412	3.08	0.2	0.4	3.8	5.0	327.7	0.02	0.04	0.06	19	7.06	0.044
REP 282	QC	0.10	22.55	4.49	76.5	19	36.1	16.3	398	2.99	0.3	0.4	3.3	4.7	310.6	0.03	0.04	0.07	19	6.78	0.043
315	Soil	1.20	28.03	10.38	67.3	160	36.5	7.7	470	2.22	15.8	1.7	9.8	7.1	10.3	0.23	0.12	0.33	12	0.18	0.060
REP 315	QC	1.21	28.32	10.40	66.5	140	36.9	7.9	472	2.28	16.5	1.7	1.7	7.1	10.7	0.20	0.12	0.32	12	0.18	0.060
0796	Soil	23.87	119.62	18.89	172.1	894	73.7	22.0	2473	4.13	13.5	2.4	2.9	8.5	20.8	2.21	0.45	0.19	21	0.21	0.124
REP 0796	QC	24.35	124.55	19.47	180.1	928	78.3	23.4	2481	4.32	13.6	2.6	4.1	8.8	21.4	2.49	0.48	0.19	21	0.22	0.126
583401	Soil	0.87	21.53	14.64	69.1	63	24.9	8.4	190	2.02	9.0	1.4	3.2	11.5	10.1	0.15	0.41	0.63	13	0.10	0.038
REP 583401	QC	0.81	21.30	14.51	69.1	60	24.5	8.4	190	2.01	8.8	1.4	3.5	11.5	10.1	0.20	0.39	0.63	13	0.10	0.037
583411	Soil	0.33	4.12	7.33	38.9	58	3.1	1.2	185	0.97	10.8	0.7	5.8	13.8	10.3	0.17	0.19	0.05	5	0.08	0.014
REP 583411	QC	0.36	3.90	7.57	37.6	54	3.0	1.2	191	0.99	11.2	0.7	4.9	13.9	10.6	0.14	0.18	0.07	5	0.08	0.014
583445	Soil	34.48	130.99	31.10	335.4	1684	87.3	23.7	986	4.74	58.3	3.5	4.4	10.1	53.7	3.16	1.36	0.49	33	0.64	0.137
REP 583445	QC	35.02	135.27	31.22	345.1	1717	89.9	25.0	1057	4.82	59.4	3.4	4.9	10.0	52.0	3.02	1.38	0.51	33	0.65	0.132
583463	Soil	0.37	13.06	17.18	45.1	71	10.7	3.3	250	1.59	15.7	1.2	13.7	18.0	18.4	0.06	0.29	0.22	13	0.20	0.050
REP 583463	QC	0.34	12.87	17.43	43.8	67	10.4	3.4	240	1.59	15.6	1.2	12.2	17.3	18.3	0.08	0.28	0.22	12	0.19	0.051
583475	Soil	0.47	52.89	2.96	127.0	28	85.0	36.6	420	4.41	7.1	1.1	1.0	5.3	5.3	0.03	0.11	0.35	19	0.09	0.044
REP 583475	QC	0.51	52.48	2.99	123.4	30	82.7	36.0	414	4.42	6.9	1.0	0.8	5.4	5.3	0.02	0.11	0.34	19	0.09	0.044
Reference Materials																					
STD DS11	Standard	14.39	148.84	134.79	337.4	1701	78.4	13.5	1034	3.07	41.5	2.4	127.0	7.3	67.5	2.24	7.20	11.41	49	1.05	0.069
STD DS11	Standard	14.68	151.62	132.44	341.5	1660	79.0	13.5	1052	3.12	41.5	2.6	72.2	7.5	71.3	2.30	7.42	11.15	51	1.09	0.070
STD DS11	Standard	14.43	151.14	135.08	337.1	1635	79.7	13.5	1006	3.06	40.6	2.5	68.0	7.4	66.7	2.22	7.37	11.28	48	1.09	0.066
STD DS11	Standard	13.42	148.93	143.78	337.0	1743	79.2	13.4	1042	3.08	42.6	2.8	67.5	7.8	73.1	2.39	8.93	13.05	49	1.05	0.072
STD DS11	Standard	16.45	161.58	144.08	340.8	1666	86.0	14.7	1071	3.26	40.8	2.8	75.8	8.4	71.0	2.19	7.68	11.29	52	1.12	0.064
STD DS11	Standard	14.80	160.21	141.61	336.8	1615	85.8	14.8	1043	3.09	40.7	2.8	73.2	7.9	63.6	2.36	7.40	11.36	51	1.06	0.070
STD DS11	Standard	15.21	159.99	141.36	341.9	1657	84.9	14.3	1046	3.10	42.1	2.7	72.9	7.9	65.9	2.31	7.27	11.54	49	1.06	0.072
STD DS11	Standard	13.96	151.29	135.78	335.1	1636	80.6	14.0	1039	3.10	42.2	2.6	70.0	7.5	70.0	2.28	8.11	12.50	48	1.07	0.072
STD DS11	Standard	14.92	158.74	140.64	367.8	1764	84.8	14.2	1047	3.13	41.6	2.7	77.1	8.0	66.8	2.51	8.19	11.83	49	1.07	0.071
STD OXC129	Standard	1.28	27.58	5.85	39.7	11	82.2	20.3	421	3.05	0.6	0.6	198.4	1.6	197.5	0.02	0.02	<0.02	52	0.73	0.100
STD OXC129	Standard	1.25	28.44	6.08	42.2	11	83.8	21.0	426	3.10	0.7	0.7	202.9	1.7	211.1	0.02	0.02	<0.02	54	0.81	0.103

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
Pulp Duplicates																		
282	Soil	10.0	33.5	1.09	60.8	0.163	<1	1.89	0.011	0.95	<0.1	1.9	0.56	<0.02	<5	0.2	0.03	4.7
REP 282	QC	9.3	32.1	1.05	58.4	0.157	<1	1.80	0.010	0.92	<0.1	1.9	0.52	<0.02	<5	0.2	0.03	4.5
315	Soil	21.0	24.4	0.55	40.5	0.002	2	1.03	0.004	0.03	0.2	1.6	0.40	<0.02	9	0.6	0.13	3.2
REP 315	QC	22.1	25.3	0.55	43.8	0.002	2	1.04	0.004	0.04	0.2	1.7	0.39	<0.02	8	0.4	0.12	3.1
0796	Soil	34.1	8.1	0.04	210.8	0.002	<1	0.40	0.003	0.05	0.3	2.7	0.13	<0.02	380	3.5	0.10	1.1
REP 0796	QC	37.1	8.5	0.05	217.0	0.002	2	0.40	0.003	0.05	0.2	2.7	0.12	<0.02	369	4.1	0.13	1.2
583401	Soil	35.3	19.9	0.15	166.3	0.011	<1	0.57	0.003	0.05	<0.1	3.0	0.06	<0.02	19	0.6	0.05	1.5
REP 583401	QC	35.3	19.2	0.15	166.8	0.011	<1	0.57	0.003	0.05	<0.1	3.1	0.05	<0.02	28	0.9	0.04	1.5
583411	Soil	37.5	3.0	0.07	112.8	0.004	1	0.31	0.002	0.08	<0.1	2.9	0.06	<0.02	17	<0.1	<0.02	1.4
REP 583411	QC	37.9	3.1	0.07	116.5	0.005	1	0.31	0.002	0.08	<0.1	3.2	0.07	<0.02	13	0.2	<0.02	1.3
583445	Soil	17.7	13.5	0.18	191.2	0.003	3	0.42	0.004	0.08	0.4	3.0	0.24	0.06	89	7.8	0.29	1.4
REP 583445	QC	15.8	12.9	0.19	182.2	0.003	1	0.39	0.004	0.07	0.3	3.0	0.21	0.06	70	8.0	0.31	1.3
583463	Soil	39.5	10.8	0.28	223.6	0.019	<1	0.87	0.004	0.14	<0.1	3.9	0.13	<0.02	18	<0.1	<0.02	3.2
REP 583463	QC	37.6	10.6	0.27	221.6	0.018	<1	0.85	0.005	0.14	<0.1	3.6	0.11	<0.02	13	<0.1	<0.02	2.9
583475	Soil	18.2	21.7	0.40	67.4	0.005	<1	1.57	0.002	0.03	0.1	3.8	0.06	<0.02	7	0.4	<0.02	4.0
REP 583475	QC	18.0	22.0	0.40	67.3	0.004	<1	1.58	0.002	0.03	<0.1	3.8	0.06	<0.02	7	0.3	<0.02	4.1
Reference Materials																		
STD DS11	Standard	18.7	58.9	0.85	372.7	0.093	7	1.18	0.071	0.41	2.8	3.2	4.95	0.27	246	2.2	4.59	4.9
STD DS11	Standard	20.2	60.2	0.84	374.0	0.100	6	1.26	0.076	0.42	2.9	3.3	4.81	0.28	247	2.2	4.47	5.1
STD DS11	Standard	18.8	59.6	0.85	359.9	0.093	8	1.16	0.073	0.41	2.8	3.0	4.87	0.28	238	2.4	4.58	5.0
STD DS11	Standard	18.7	59.1	0.84	331.2	0.098	5	1.15	0.070	0.39	3.2	3.1	4.90	0.28	254	2.4	4.76	4.8
STD DS11	Standard	21.1	66.3	0.88	366.4	0.110	8	1.26	0.081	0.44	2.9	3.2	4.81	0.28	258	2.2	4.61	5.1
STD DS11	Standard	18.5	62.6	0.84	356.0	0.097	7	1.14	0.071	0.40	2.9	2.9	4.70	0.28	237	2.5	4.41	4.8
STD DS11	Standard	18.0	61.8	0.84	359.0	0.096	7	1.15	0.070	0.40	2.9	3.0	4.70	0.29	239	2.8	4.43	4.7
STD DS11	Standard	18.3	59.8	0.86	367.7	0.094	8	1.13	0.071	0.41	2.8	3.0	4.80	0.28	273	2.3	4.49	4.8
STD DS11	Standard	18.1	62.2	0.85	340.6	0.098	6	1.16	0.076	0.40	3.0	3.1	4.93	0.27	264	2.2	4.56	5.0
STD OXC129	Standard	12.4	52.5	1.57	49.5	0.403	<1	1.62	0.585	0.36	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.5
STD OXC129	Standard	13.0	54.0	1.61	51.4	0.415	1	1.75	0.613	0.37	0.1	1.1	0.03	<0.02	<5	0.1	<0.02	5.9

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		AQ252 Mo ppm 0.01	AQ252 Cu ppm 0.01	AQ252 Pb ppm 0.01	AQ252 Zn ppm 0.1	AQ252 Ag ppb 2	AQ252 Ni ppm 0.1	AQ252 Co ppm 0.1	AQ252 Mn ppm 1	AQ252 Fe % 0.01	AQ252 As ppm 0.1	AQ252 U ppm 0.1	AQ252 Au ppb 0.2	AQ252 Th ppm 0.1	AQ252 Sr ppm 0.5	AQ252 Cd ppm 0.01	AQ252 Sb ppm 0.02	AQ252 Bi ppm 0.02	AQ252 V ppm 2	AQ252 Ca % 0.01	AQ252 P % 0.001
STD OXC129	Standard	1.35	28.82	6.09	42.8	13	82.8	20.8	437	3.15	0.5	0.7	208.4	1.8	197.6	0.02	0.04	<0.02	53	0.75	0.101
STD OXC129	Standard	1.33	28.59	6.27	43.8	7	82.8	21.7	435	3.04	0.6	0.7	193.8	1.8	207.6	0.02	0.04	<0.02	50	0.67	0.102
STD OXC129	Standard	1.35	29.49	6.57	40.8	8	87.9	22.5	422	3.12	0.5	0.7	187.3	1.8	196.5	0.01	0.03	<0.02	52	0.79	0.091
STD OXC129	Standard	1.40	29.07	6.31	40.1	13	87.7	22.3	417	3.04	0.4	0.7	193.4	1.8	180.3	<0.01	0.03	0.03	54	0.66	0.098
STD OXC129	Standard	1.33	28.67	6.25	40.8	12	85.1	21.3	412	3.03	0.4	0.7	195.5	1.8	183.2	0.01	0.03	<0.02	51	0.68	0.101
STD OXC129	Standard	1.21	27.51	6.00	40.7	10	83.0	21.1	422	3.04	0.5	0.7	201.1	1.8	196.6	0.01	0.02	<0.02	51	0.67	0.100
STD OXC129	Standard	1.37	28.43	6.49	39.4	9	86.4	21.9	435	3.10	0.4	0.7	199.4	1.9	190.2	<0.01	0.04	<0.02	51	0.70	0.100
STD OXC129 Expected		1.3	28	6.2	42.9	13	79.5	20.3	421	3.065	0.6	0.69	195	1.9		0.03	0.04		51	0.684	0.102
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
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	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<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	<2	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<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	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	5	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<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	<2	<0.01	0.002
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	<2	<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	<2	<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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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
STD OXC129	Standard	12.5	55.2	1.59	51.2	0.429	1	1.62	0.609	0.38	<0.1	1.1	0.04	<0.02	<5	0.2	<0.02	5.5
STD OXC129	Standard	13.1	55.6	1.57	51.5	0.414	<1	1.57	0.574	0.36	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.5
STD OXC129	Standard	13.0	59.0	1.58	51.5	0.440	<1	1.69	0.606	0.38	<0.1	0.8	0.04	<0.02	<5	0.2	<0.02	5.7
STD OXC129	Standard	13.2	56.2	1.57	49.7	0.415	1	1.56	0.598	0.36	<0.1	0.6	0.04	<0.02	<5	0.2	<0.02	5.0
STD OXC129	Standard	12.8	55.1	1.54	49.5	0.423	<1	1.57	0.577	0.36	<0.1	0.9	0.03	<0.02	<5	0.1	<0.02	5.4
STD OXC129	Standard	12.9	52.5	1.57	49.1	0.415	2	1.54	0.599	0.37	<0.1	0.8	0.04	<0.02	10	<0.1	<0.02	5.5
STD OXC129	Standard	12.8	56.9	1.57	50.8	0.409	<1	1.57	0.592	0.37	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.4
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655	0.08	1.1	0.03					5.5
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
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
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
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
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
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	0.3	<0.02	<0.1
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	0.2	<0.02	<0.1
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	0.2	<0.02	<0.1
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
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