

**LEOTA CLAIM BLOCK, KLONDIKE GOLDFIELDS, YUKON TERRITORY,
REPORT ON THE 2016 GEOCHEMISTRY SURVEY**

Claim Groupings: HD03048, HD03054 and HD03143

Dawson Mining District

NTS maps: 115015 & 116B02

UTM coordinates 608000/7092000, Zone 7 NAD83

N63° 56' 17.7", W138° 47' 47.4"

Registered Owners: Mark Pocklington 50% and 650393 B.C. Ltd. 50%

Work performed: July to September, 2016

for

Goldbank Mining Corp.

by

Bohumil (Boris) Molak, PhD., P. Geo (BC)

Date: July 31, 2019

Table of Contents

1. Introduction	4
1.1. Location, Access and Topography	4
1.2. The Claims	4
1.3. Terms of Reference	5
2. Previous Exploration	6
3. Regional Geology	6
4. Local Geology and Mineralization	7
5. 2016 Geochemistry Program	8
5.1. Alexander Creek (Michie Area)	9
5.2. Cheerio Area	18
5.3. Fawcett South	24
5.4. Hunker Summit	28
6. Sample Preparation and Analysis	36
7. Quality Assurance	37
8. Conclusions and Recommendations	41
9. 2016 Exploration Expenses	43
10. References	44
11. Statement of Qualifications	49

Figures

Fig. 1: Leota Claim Block, Location Map	5
Fig. 2: Location of Michie and Cheerio Soil Sampling Grids	10
Fig. 3: Michie Area, Distribution of Gold	11
Fig. 4: Michie Area, Distribution of Silver	12
Fig. 5: Michie Area, Distribution of Copper	13
Fig. 6: Michie Area, Distribution of Lead	14
Fig. 7: Michie Area, Distribution of Zinc	15
Fig. 8: Michie Area, Distribution of Arsenic	16
Fig. 9: Distribution of Gold	18
Fig. 10: Distribution of Silver	19
Fig. 11: Distribution of Copper	20
Fig. 12: Distribution of Lead	21
Fig. 13: Distribution of Zinc	22
Fig. 14: Distribution of Arsenic	23
Fig. 15: Location of Fawcett South Soil Sampling Grid	24
Fig. 16: Distribution of Gold	25
Fig. 17: Distribution of Silver	25
Fig. 18: Distribution of Copper	26
Fig. 19: Distribution of Lead	26
Fig. 20: Distribution of Zinc	27
Fig. 21: Distribution of Arsenic	27
Fig. 22: Hunker Summit, 2011, 2016 Soil Surveys	29
Fig. 23: Distribution of Gold	30
Fig. 24: Distribution of Silver	31
Fig. 25: Distribution of Copper	32
Fig. 26: Distribution of Lead	33

Fig. 27: Distribution of Zinc	34
Fig. 28: Distribution of Arsenic	35
Fig. 29: Field Original 1509511 Compared to Repeat 1509512	37
Fig. 30: Field Original 1509575 Compared to Repeat 1509576	38
Fig. 31: Field Original 1509612 Compared to Repeat 1509613	38
Fig. 32: Field Original 1509640 Compared to Repeat 1509641	38
Fig. 33: Field Original 1509760 Compared to Repeat 1509761	39
Fig. 34: Performance of DS10 for Precious, Base Metals and Arsenic	39
Fig. 35: Performance of OXC129 for Precious, Base Metals and Arsenic	39
Fig. 36: Original 583401 Compared to Repeat	40
Fig. 37: Original 583411 Compared to Repeat	40
Fig. 38: Performance of DS11 for Precious, Base Metals and Arsenic	40
Fig. 39: Performance of OXC129 for Precious, Base Metals and Arsenic	41

Tables

Table 1: Alexander Creek, Michie Area, Soil Assays, Descriptive Statistics	9
Table 2: Alexander Creek, Michie Area Soil Assays, Correlation Coefficients	17
Table 3: Fawcett South, Descriptive Statistics,	27
Table 4: Fawcett South, Correlation Coefficients	28
Table 5: Hunker Summit, 2011, 2018 Soil Surveys	36
Table 6: Correlation Matrix	36

Appendices

Appendix I: Leota Claim Block, Claim Status Gold / Silver Assays	50
Appendix II: Assay Certificates	71

1. INTRODUCTION

The Leota Claim Block (“LCB”) is a collective name for 1008 contiguous, non-surveyed “Quartz” mining claims situated approximately 20 to 50 air kilometers east-southeast of Dawson City, Yukon Territory. LCB is comprised of three groupings HD03048, HD03143 and HD03054 covering an area of approximately 20,000 hectares (200 sq km), all situated within the Dawson Mining District. Goldbank Mining Corp. (“Goldbank”) of Vancouver optioned a 50 % portion of the LCB in 2010 from title holders M. Pocklington and R. Weitzel and in 2012 Goldbank acquired a 75% interest in LCB after issuing the agreed amount of shares to title holders.

In 2016, Goldbank conducted a field program on the LCB consisting of soil sampling in Allgold Creek, Right Fork and Hunker Summit areas. The soil grids were laid with a rationale to extend the previously completed grids and to locate additional precious and base metal anomalies in respective areas. Based on the 2016 fieldwork results, further work on the LCB is justified and recommended.

1.1. Location, Access and Topography

The LCB extends from about 20 to about 50 air kilometers east and southeast of Dawson City. It is accessible from the Klondike HW 2 and from the maintained Hunker Creek road, from which several 4 x 4 roads and ATV trails branch to various portions of the LCB. Topography is dissected by creeks, some of which host placer deposits. Most slopes are smooth to medium steep and the altitudes range from about 360 m above sea level at the HW 2 – Hunker Creek junction to about 1000 m above sea level at the Hunker Summit.

1.2. The Claims

The LCB claim information as of November 2016 is attached at the back of this report as Appendix II.

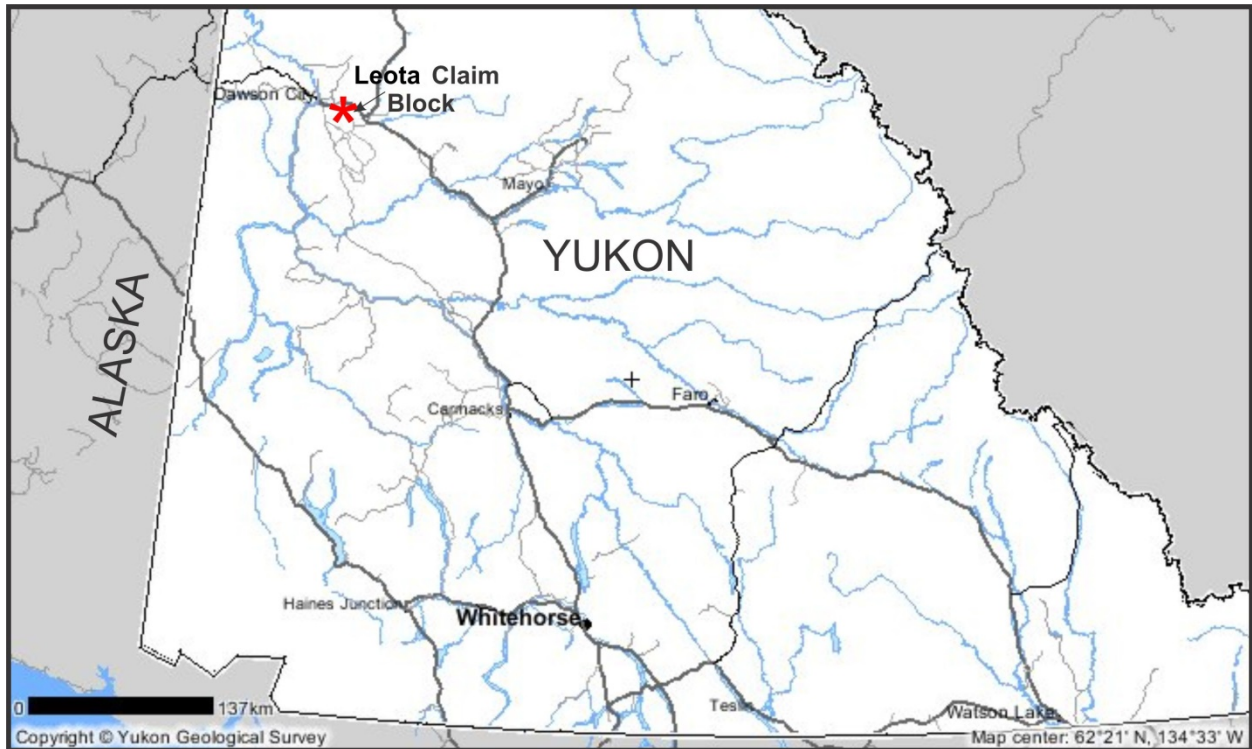


Fig. 1: Leota Claim Block, location map.

1.3. Terms of Reference

This report summarizes the results of soil and rock geochemistry program that was conducted on the LCB intermittently from July 30 to September 26, 2016. For parts of this report the writer relied on the Yukon Exploration and Geological Services Division assessment and open file reports, on various geo-scientific publications listed in the References chapter and on the Mining Recorder Office, Yukon Department of Energy, Mines and Resources (“YDEM”) Internet applications. The information reported by other experts who are not qualified persons for this report are quoted in the References chapter and are to the best of the writer’s knowledge and experience correct and suitable for the inclusion in this report. Claim descriptions provided herein have been excerpted from the electronic applications of the YDEM and relate to the status as of November 2016. The assays for this report were made available to the author in 2017 and/or in 2018.

2. PREVIOUS EXPLORATION

The earliest geological information on the placer and lode gold mining in the Klondike area was reported by McConnell (1900, 1907), Tyrrell (1907), MacLean (1914) and others. Yukon Geological Survey mapped and investigated broader area at 1:250,000 scale (Bostock, 1942).

United Keno Hill Mines, KSL (Yukon) Exploration Limited, Kennecott Canada Exploration Ltd, and Barramundi Gold Ltd. explored the Klondike Goldfields in 1970s and 1980s. Geomorphological work was completed by Milner (1977) and geological maps of the Klondike Goldfields at 1:50,000 scale were presented by Debicki et al. (1984, 1985).

Geological maps of the Northern Stewart River, Klondike and Sixtymile Districts at 1:50,000 scale were compiled by Mortensen (1996). The geological maps at 1:250,000 scale include Gordey and Makepeace (2003) and Gordey and Ryan (2005), Stewart River map sheet (115N&O).

There is an ongoing research into origin of the lode gold mineralization in the Klondike Goldfields by the UBC's Mineral Deposits Research Unit (MDRU). MDRU co-operates with other institutions, universities and some of the companies holding claims in the area (MacKenzie et al., 2007, 2008 a, 2008 b; Chapman et al., 2010, etc.).

A 43-101 compliant Technical Report for Leota Gold Project was prepared for Goldbank by Ash (2010). Assessment reports on the Goldbank's 2011 to 2014 fieldwork on the LCB authored by Molak (2011 a, b, c, d, e, f, g, 2012, 2013, 2014) are accessible on <http://virtua.gov.yk.ca:8080/?theme=emr>, or are pending publication on-line.

3. REGIONAL GEOLOGY

The Klondike Goldfields are situated on the southwest side of the Tintina Trench within the Yukon – Tanana Terrane (“YTT”). The YTT consists of two main supracrustal and three meta-plutonic assemblages (Mortensen, 1996). The supracrustal assemblages comprise Late Devonian to mid-Mississippian Nasina assemblage and the mid-Permian Klondike Schist assemblage. The

Nasina Assemblage consists of carbonaceous and non-carbonaceous, quartz-muscovite-chlorite schist and quartzite locally intercalated with mafic schist and amphibolite. The Klondike Schist assemblage mainly comprises felsic schist, micaceous quartzite and quartz-feldspar-biotite-muscovite-(±chlorite) schist. The felsic schist is believed to have been derived from tuffaceous units. Minor chlorite schist, meta-gabbro and marble occur locally.

The meta-plutonic assemblages represent ortho-gneisses that underwent penetrative, ductile deformation and metamorphism ranging from middle greenschist to amphibolite facies. The area to the north is underlain by the rock formations belonging to Slide Mountain Terrane. The rock inventory includes greenstone and ultramafic rocks, which generally only display evidence of brittle shearing and open folding (Mortensen, 1996).

According to MacKenzie et al., (2008), the Klondike Goldfields are floored by the meta-sedimentary and meta-igneous units belonging to Klondike Schist and Finlayson Assemblages and lesser, low-grade metamorphosed, ultramafic rocks of the Slide Mountain Terrane. Regional scale thrust faulting in the Early Jurassic stacked these rocks into a series of thrust slices that are locally separated by lenses of sheared ultramafic rocks. This package was uplifted during the Jurassic times through the brittle-ductile transition and unconformably overlain by locally derived sedimentary and volcanogenic rocks in the Late Cretaceous (Mortensen, 1996). The Klondike Goldfields were then offset approximately 450 km along the Tintina Fault (Gabrielse et al., 2006). Erosion and minor uplift continued in the Late Tertiary and resulted in the deposition of the Pliocene White Channel Gravels and their contained gold deposits (Lowey, 2005).

4. LOCAL GEOLOGY AND MINERALIZATION

The LCB area is underlain mainly by various facies of more or less carbonaceous, quartzofeldspathic shales and schists of Devonian to Mississippian age that were classified as Nasina Assemblage and/or the Finlayson Assemblage. Late Paleozoic ophiolitic rocks of oceanic provenance and their alteration products (listwanites) belong to Slide Mountain Assemblage. Minor rhyolite, rhyolite and andesite porphyries and diabase dykes of Eocene (?) age occur locally. The bedrock exposure is limited to steep slopes, ridges, creek banks, road cuts and historical placer mining areas.

The majority of geologists working in the Klondike Goldfields accept the orogenic, mesothermal 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 (MacKenzie et al. 2007, 2008; Chapman et al., 2010 a, b). Chapman et al (l.c) distinguished at least three localized, but exceedingly rich hydrothermal systems, which evolved both temporally and spatially.

A smaller group of geologists advocate the California Mother Lode model for the Klondike Goldfields, which includes the gold-quartz vein-style mineralization associated with the altered ophiolitic rocks (Ash, 2001, 2005, 2006, 2010; Doherty and Ash, 2005; MacFaul, 2005 and others). According to Ash, gold-quartz veins are associated with the hanging wall of obducted ophiolite nappes (klippen). MacFaul proposed the Mother Lode model for the White Channel pay streak on Dago Hill – Preido - Savoy Creek - Paradise Hill, where the altered ophiolite (listwanite) zone forms the bedrock for at least part of the pay streak.

Previously conducted 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.

5. 2016 GEOCHEMISTRY PROGRAM

Goldbank conducted a soil geochemistry program on selected LCB claims intermittently from July 30 to September 26, 2016 with an aim to identify new precious and/or base metal targets. Goldbank's team consisted of a Professional Geoscientist (project leader and author of this report) and the field assistants C. Studer, J.F. Bisson, M. Esteva, J. Pelletier, R. Eyolfson and A. Molak.

Specifically, the soil sampling was conducted on the historical Michie, Cheerio (Alexander - Allgold creek confluence) area from July 30 to August 1, 2016, on the Fawcett (Right Fork) area on September 26, 2016 and on the Hunker Summit area on September 8, 2016. A total of 217 soil samples were taken from "C" horizon as shown in Figs. 2 to 28 and the sample descriptions and assay certificates are presented in Appendices at the back of this report.

5.1. Alexander Creek (Michie and Cheerio Areas)

Goldbank conducted a soil sampling program on the Quartz claims Leota EV 9 to EV 16, Leota EV 25, Leota AL 2 and Leota AL 4 and Leota Lk 39 situated in the Alexander – Allgold Creek confluence area (Fig. 2, historical Michie and Cheerio areas). The program was complimentary to 2010 and 2015 soil surveys, extending the Michie grid to the north and the Cheerio grid to the south. In total, 172 soil samples were collected from both grids and the assay results are presented in Appendix III and in graphs in Figs. 3 to 8.

The soil survey located two main gold anomalies on the Michie grid (Fig. 3), each covering an area of roughly 600 by 400 meters, the first in the southeastern portion of the grid with a maximum 107.4 ppb and the second in the western portions of the grid with a maximum 127.2 ppb. A number of pits were dug in 2008 – 2009 in the area as shown in Fig. 2. The area is floored by various schists including mica – quartz schists, locally chloritic and/or graphitic with sub-horizontal to smoothly dipping foliation that is made up of mica bands alternating with bands or lenses of saccaroidal quartz. These schists host unconformable, dark, graphite stained quartz veins ranging in widths from a few centimeters up to 5 meters. The quartz is commonly vuggy with vugs lined up with brown iron oxides, and/or sporadic tiny, disseminated sulphidic mineralization. Boulders of beige colored talc – carbonate rocks (listwanites) with brown iron-oxidic patches after ankerite (?) are also common.

Table. 1: Alexander Creek, Michie area, soil assays, descriptive statistics

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>	<i>Cr</i>	<i>Ni</i>	<i>Mg</i>
Count	151	151	151	151	151	151	151	151	151
Mean	9.892	88.675	76.637	10.540	83.106	62.765	87.768	69.144	1.109
Standard Error	1.414	4.786	4.265	0.734	3.892	12.262	9.331	6.328	0.060
Median	4.4	75	64.96	9.15	75.6	13.8	57.1	49.3	0.86
Mode	3.7	32	60.55	11.67	76.9	2.8	24.3	93.2	0.4
St. Deviation	17.376	58.814	52.405	9.021	47.824	150.679	114.665	77.762	0.736
Sm. Variance	301.941	3459.047	2746.310	81.379	2287.165	22704.135	13148.049	6046.864	0.542
Kurtosis	22.513	0.743	10.482	42.922	67.226	21.262	49.446	57.164	0.114
Skewness	4.407	1.027	2.749	5.511	7.073	4.307	5.818	6.558	0.935
Range	127.1	276	366.02	89.63	545.8	1105.6	1142.9	801.5	3.34
Minimum	<0.2	13	6.72	0.63	15.2	0.5	8.7	10.4	0.1
Maximum	127.2	289	372.74	90.26	561	1106.1	1151.6	811.9	3.44

For statistics and correlations, gold value <0.2 was replaced with 0.1.

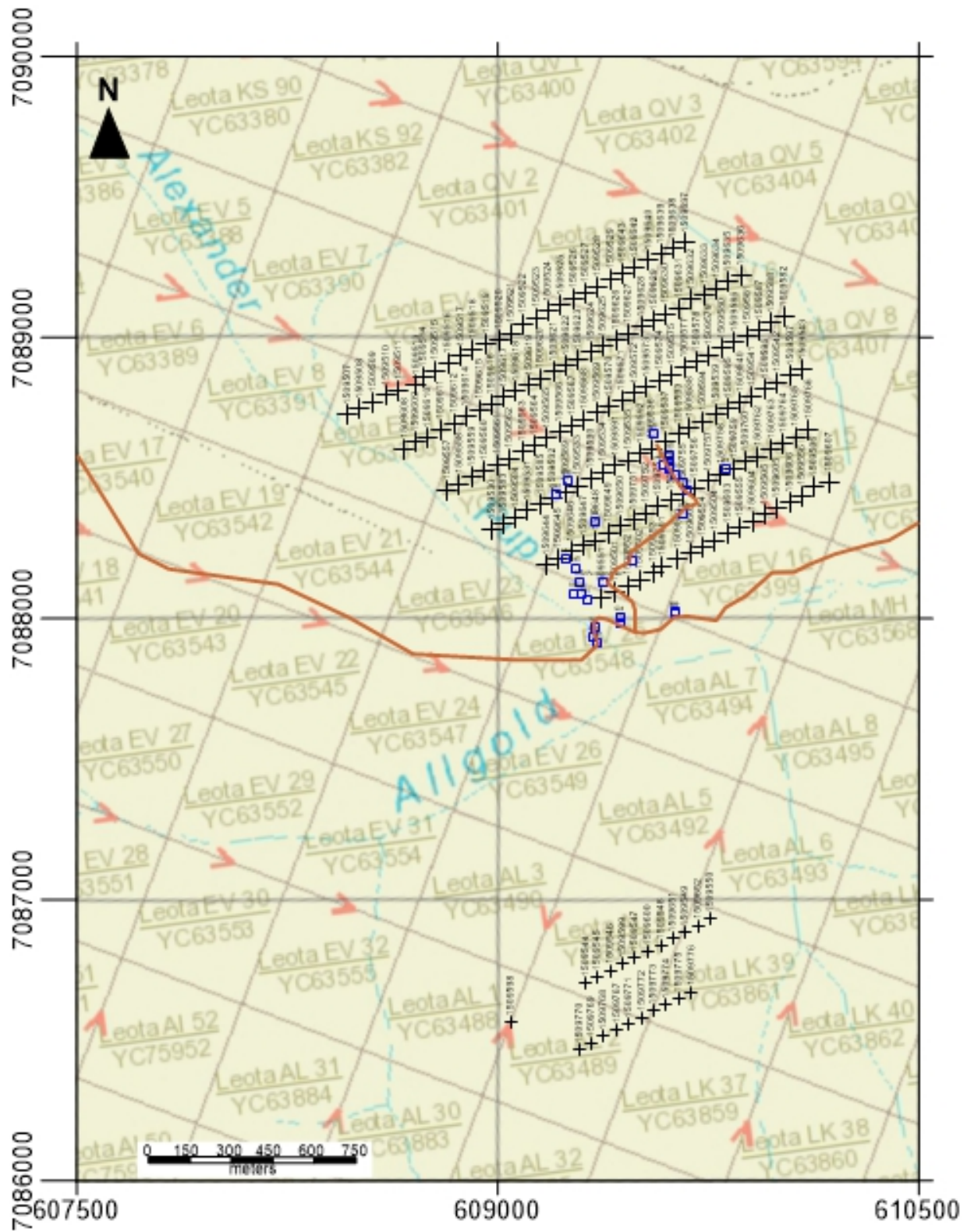


Fig. 2: Location of Michie and Cherio soil sampling grids; (blue squares – historical pits).

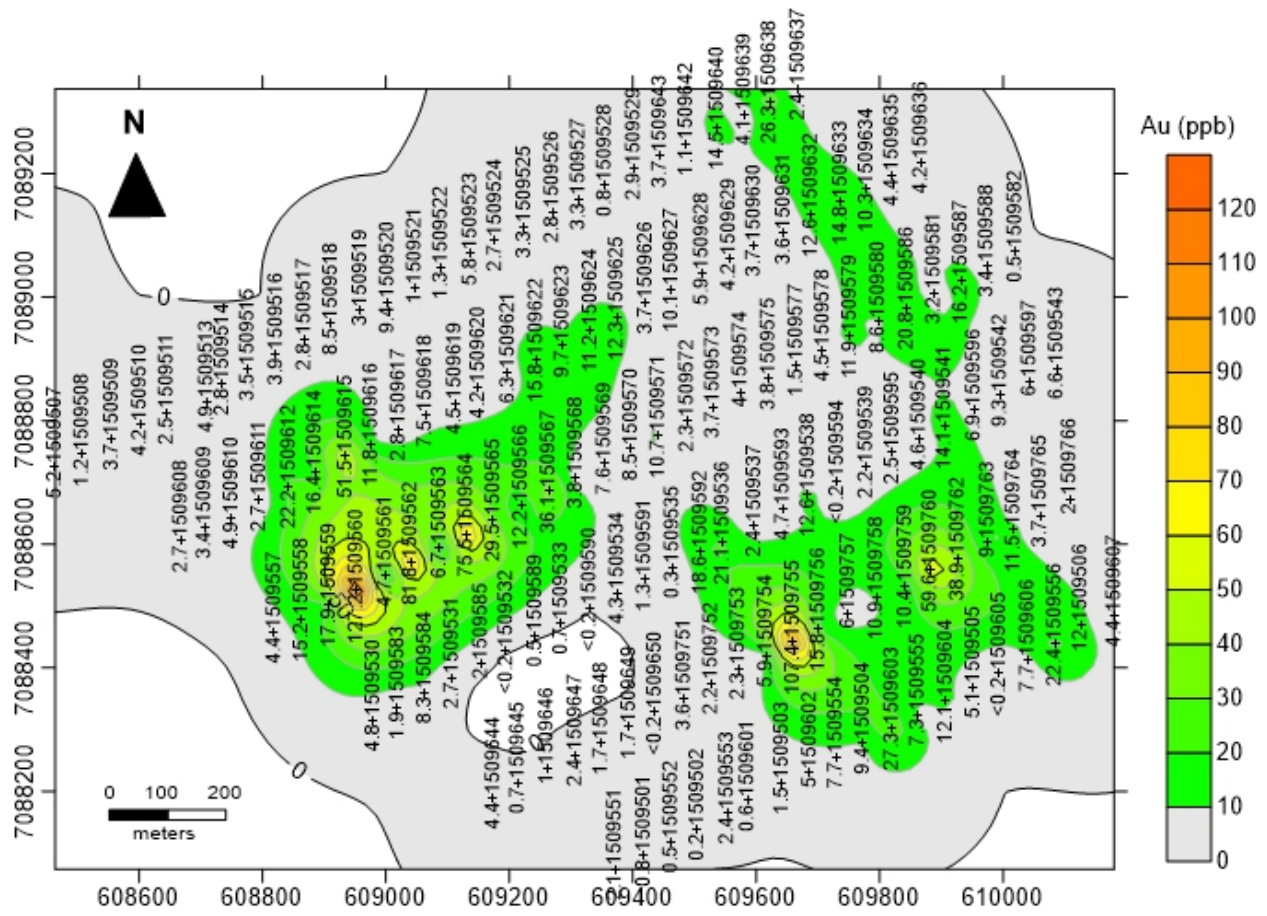
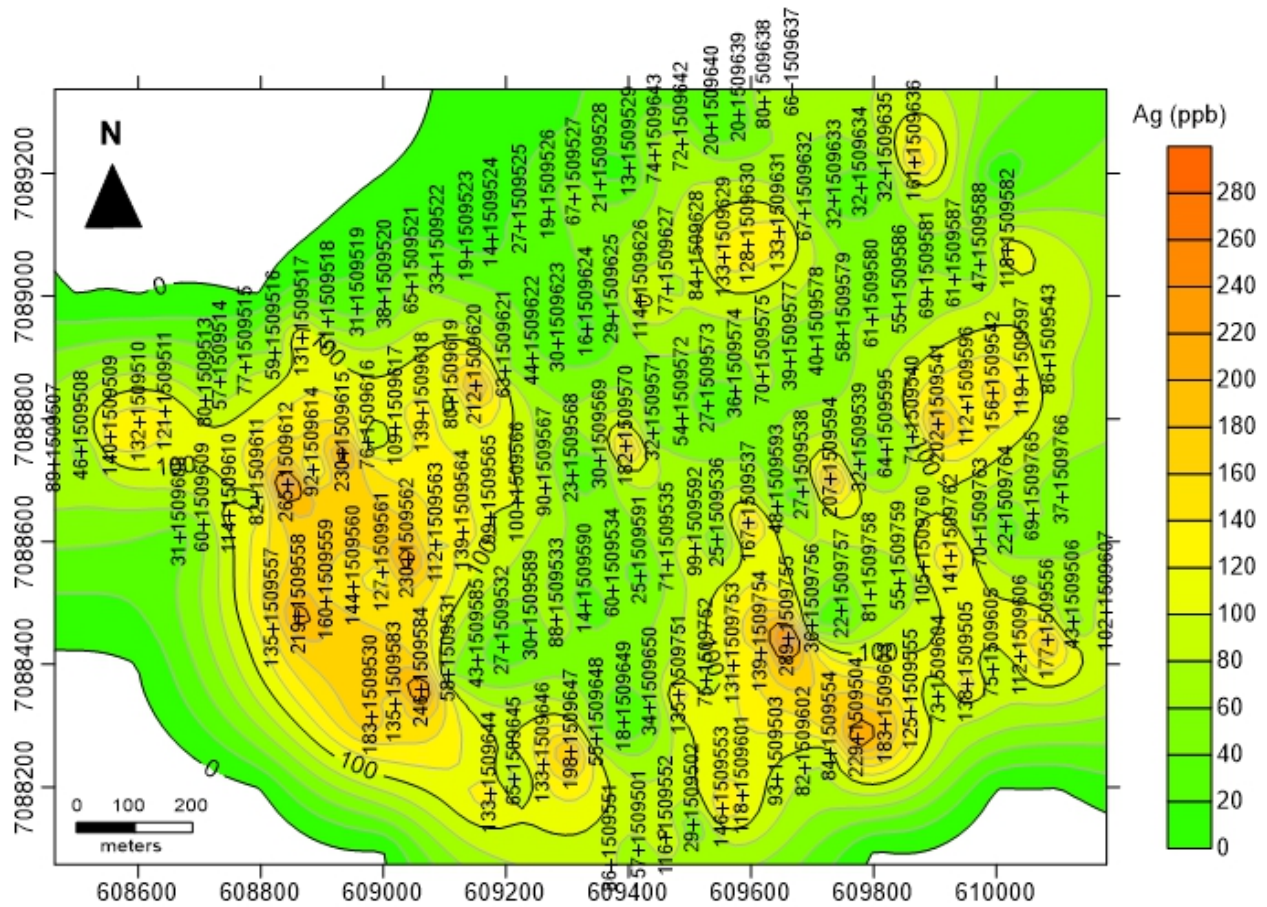


Fig. 3: Michie area, distribution of gold



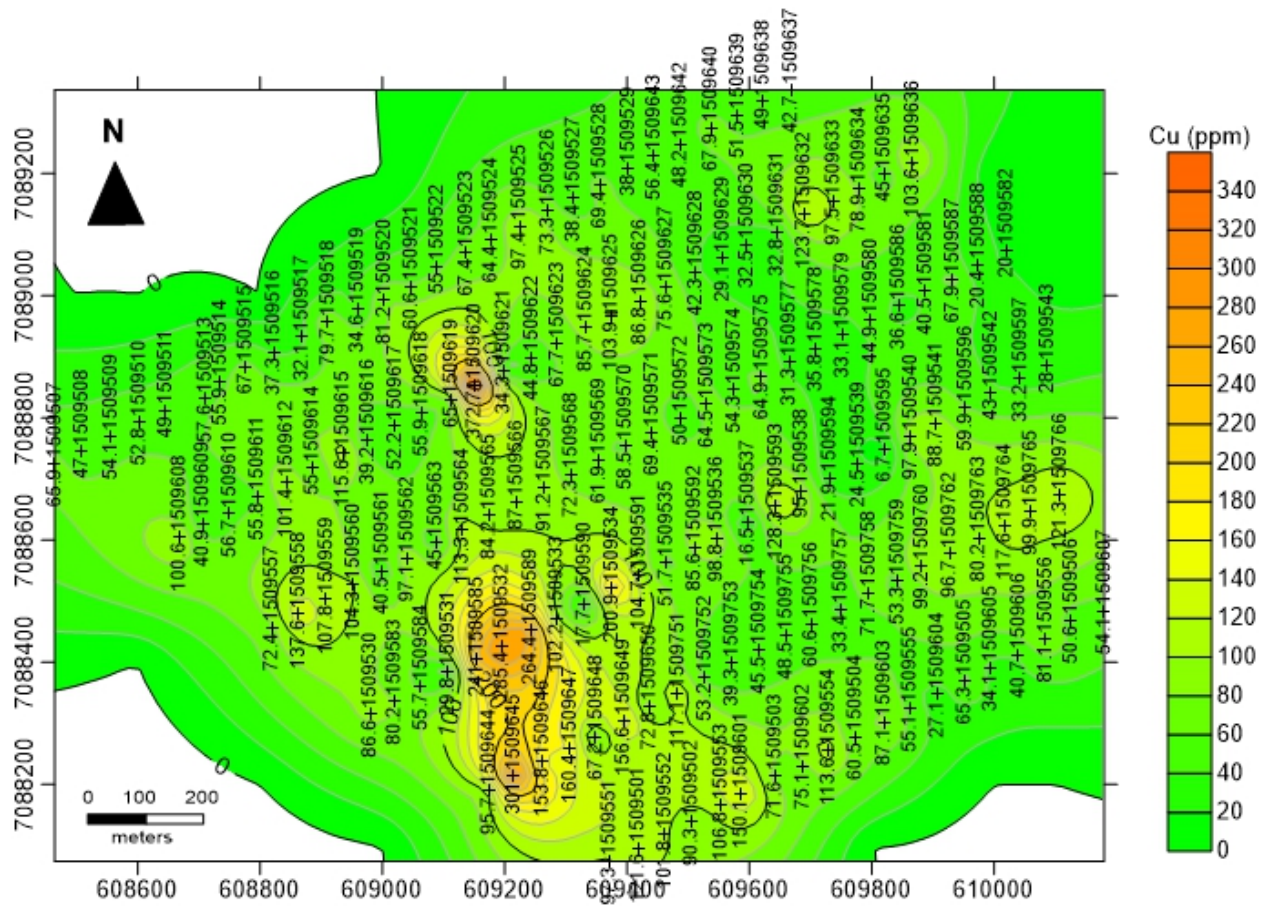


Fig. 5: Michie area, distribution of copper.

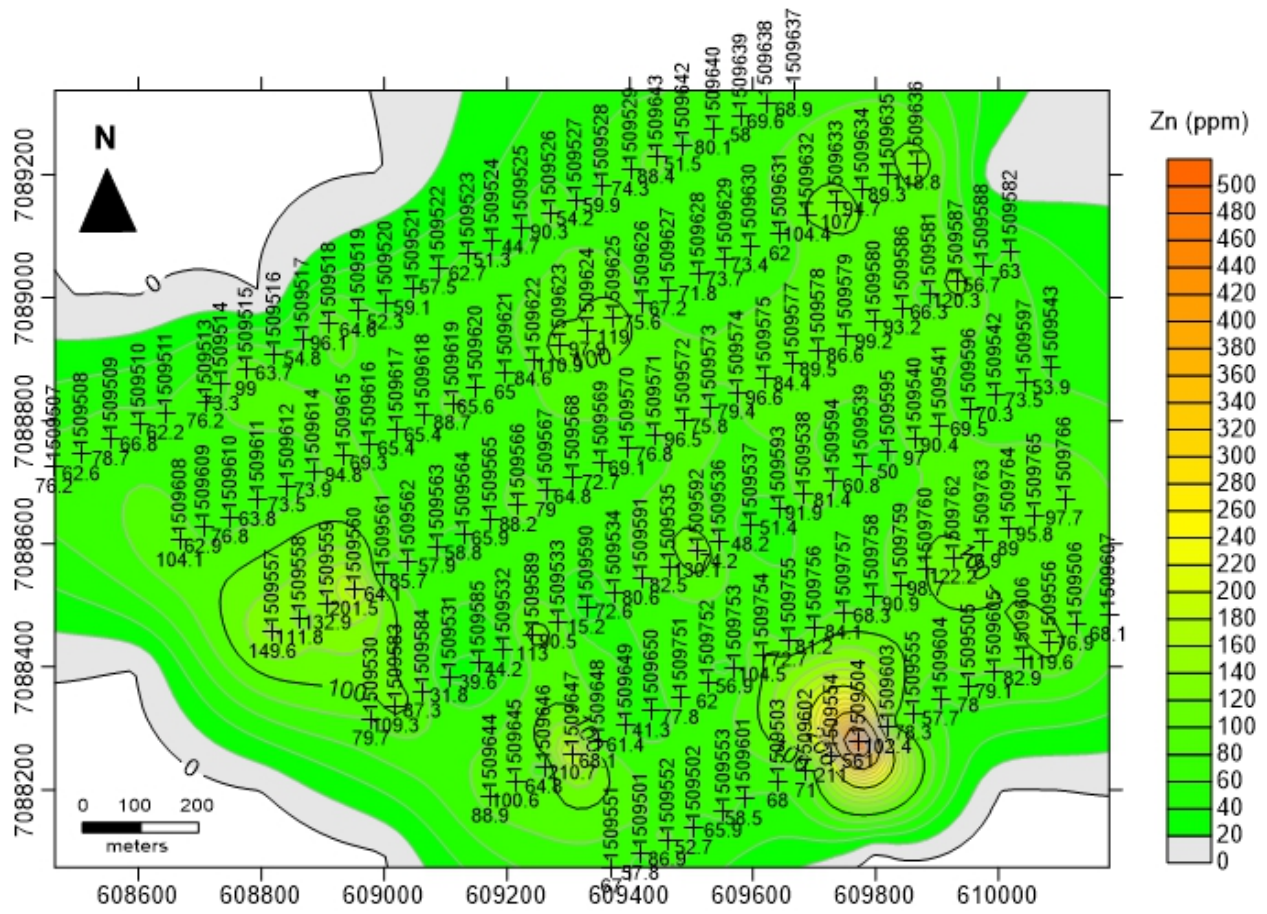


Fig. 7: Michie area, distribution of zinc.

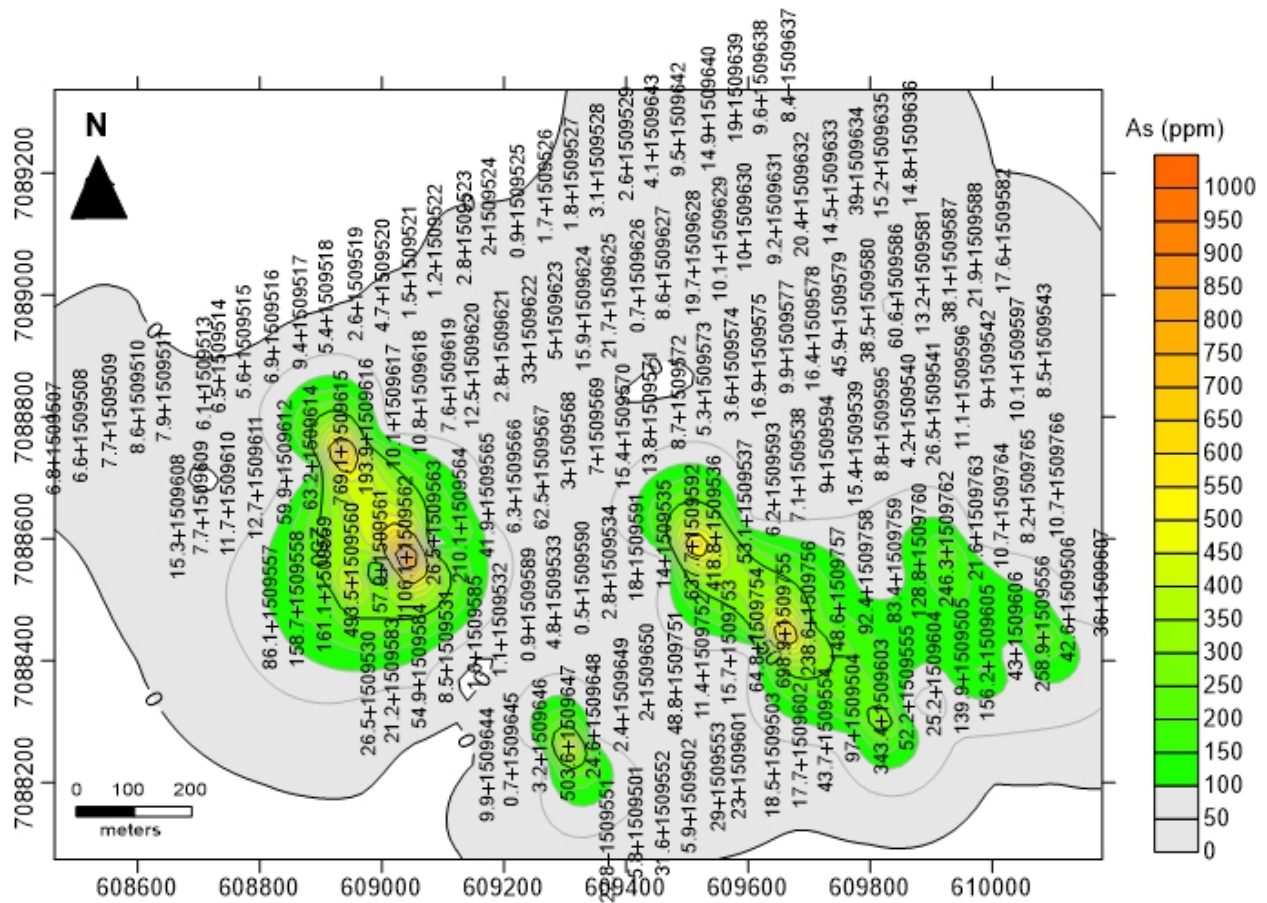


Fig. 8: Michie area, distribution of arsenic.

Table 2: Alexander Creek, Michie area, soil assays, correlation coefficients

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>	<i>Cr</i>	<i>Ni</i>	<i>Mg</i>
Au	1.000								
Ag	0.375	1.000							
Cu	0.046	0.066	1.000						
Pb	0.086	0.166	-0.017	1.000					
Zn	0.175	0.280	0.094	0.418	1.000				
As	0.711	0.448	0.075	0.083	0.214	1.000			
Cr	-0.110	0.014	0.123	-0.100	-0.114	-0.045	1.000		
Ni	-0.055	0.097	0.095	-0.055	0.016	0.059	0.914	1.000	
Mg	-0.158	0.018	0.377	-0.209	-0.110	-0.112	0.704	0.562	1.000
	0.5-0.707	25-49.9%	0.708-0.866	50-74.9%	>0.866	>75%			

Statistics and correlations for 151 soil samples from Michie area are listed in Tables 1 and 2. There is a medium correlation between gold and arsenic (correlation coefficient 0.711, covariance 51 %) and weak to strong correlation among the chromium – nickel – magnesium group.

5.2. Cheerio Area

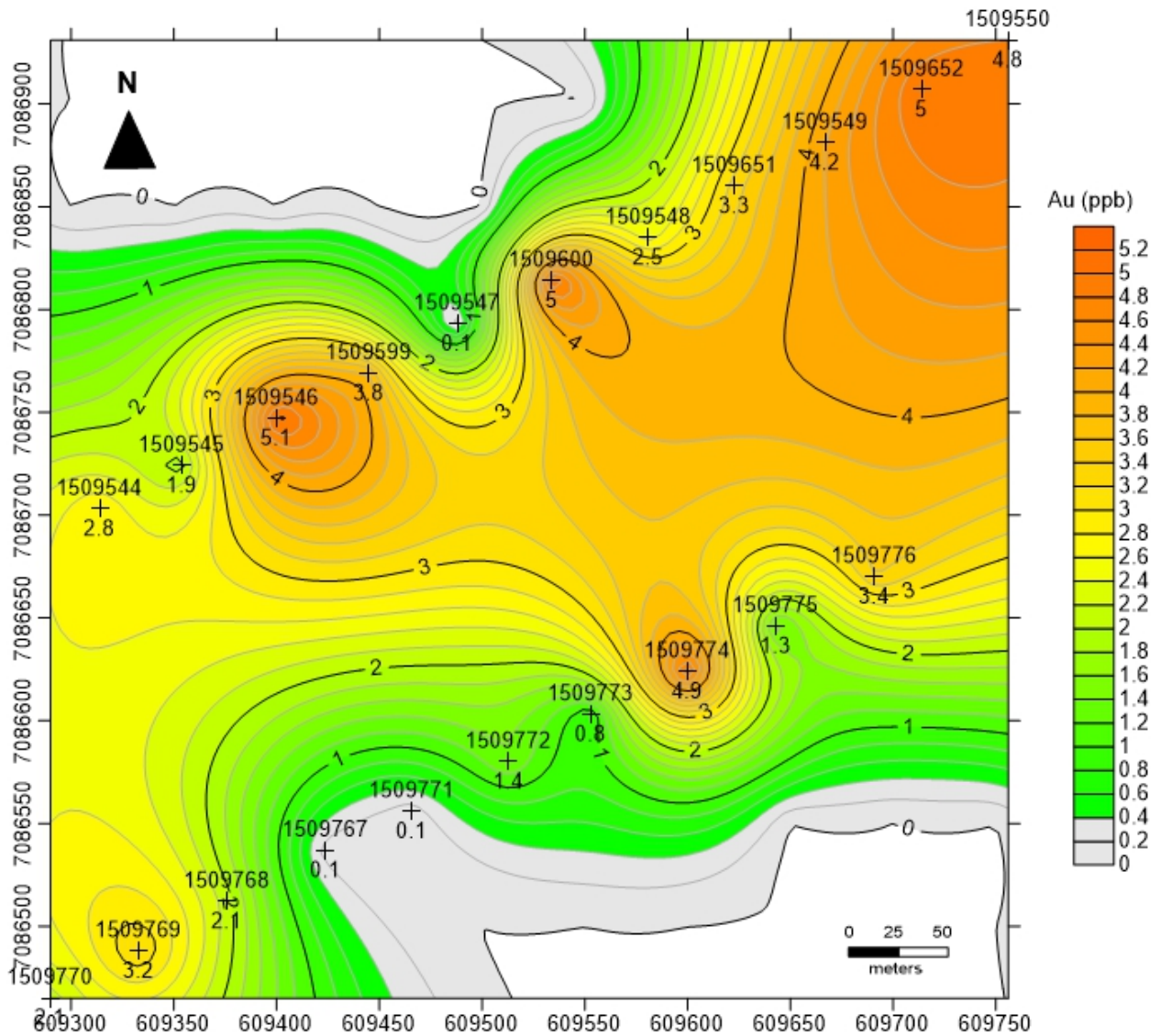


Fig. 9: Distribution of gold.

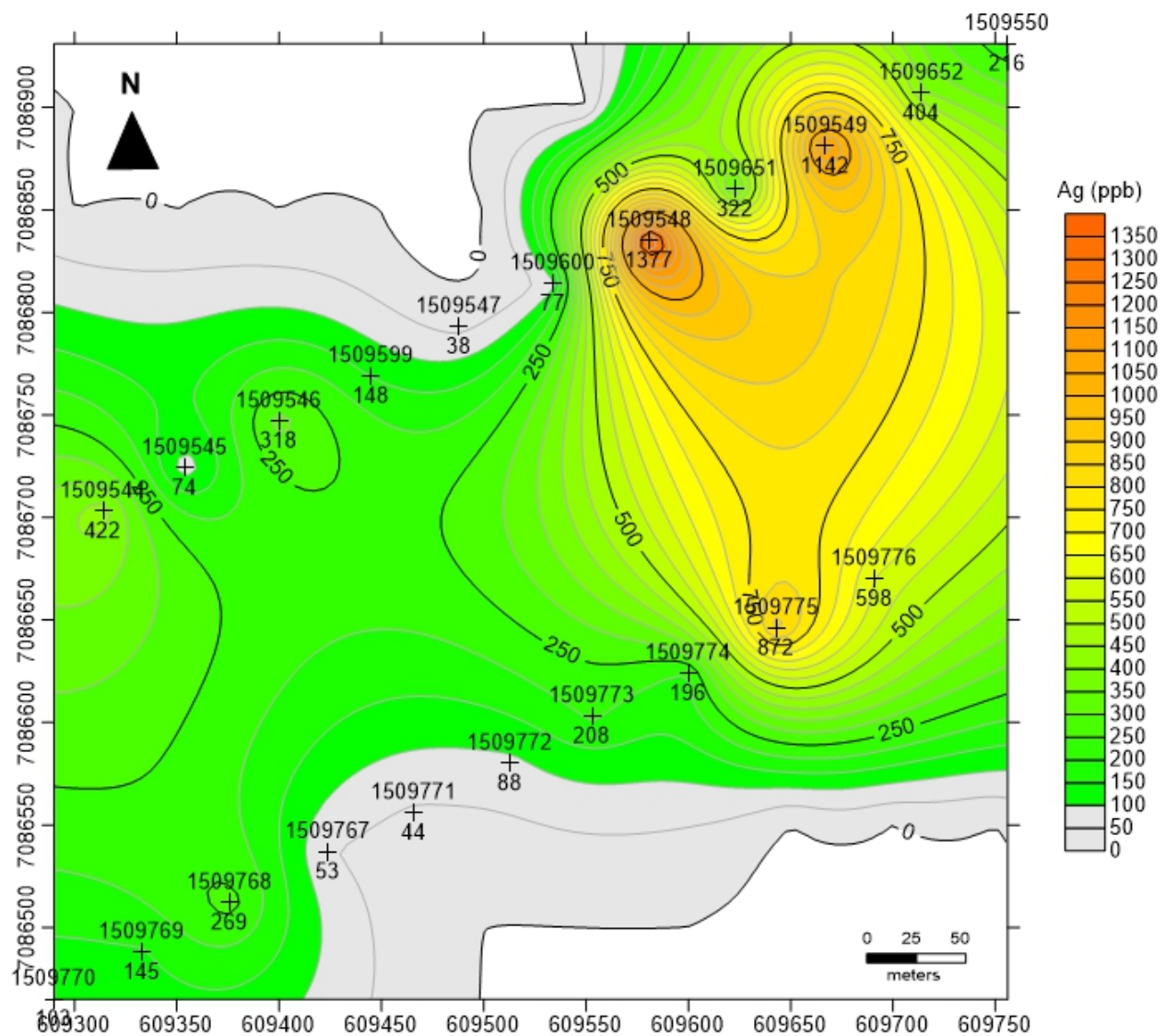


Fig. 10: Distribution of silver.

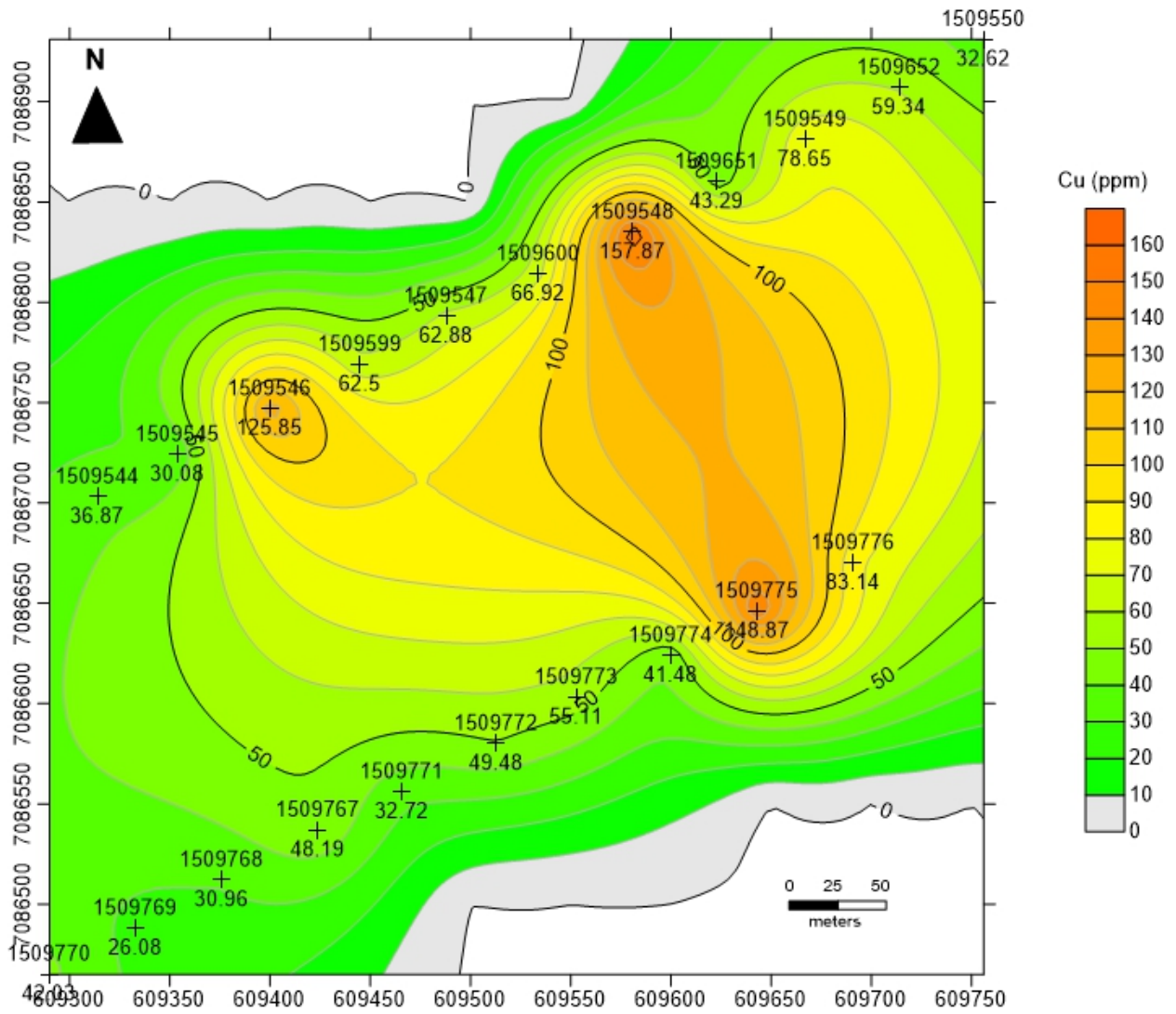


Fig: 11: Distribution of copper.

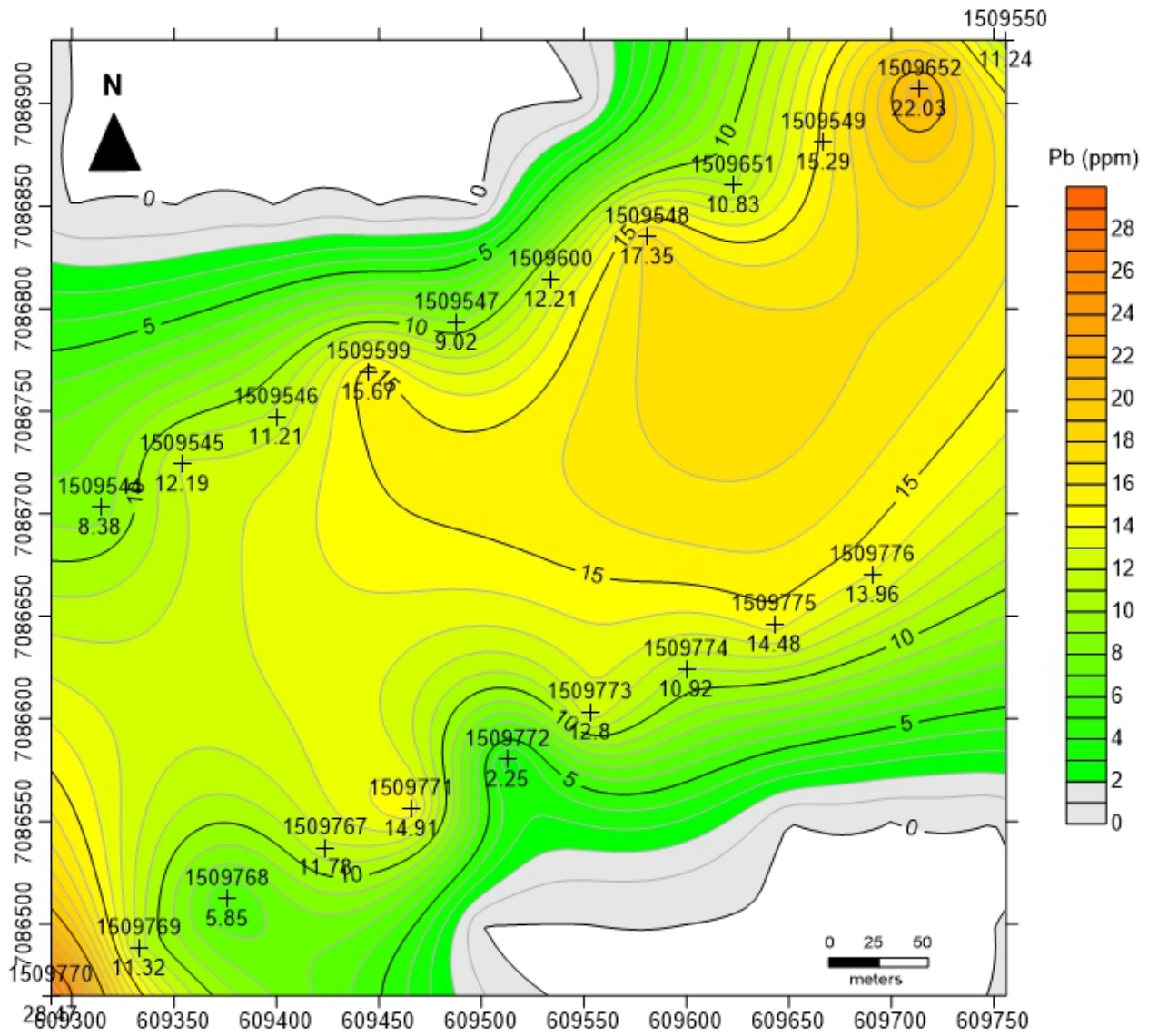


Fig. 12: Distribution of lead.

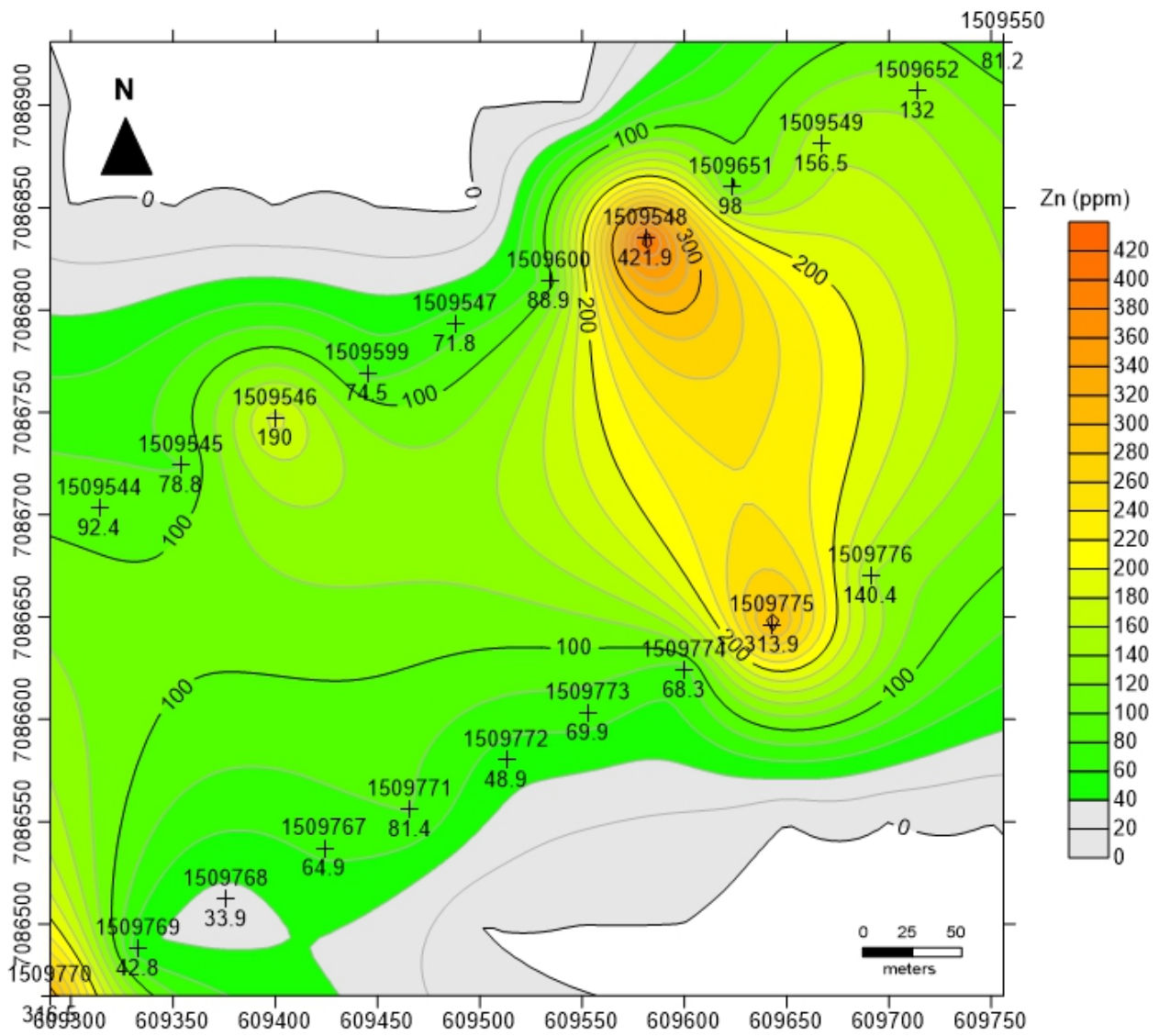


Fig. 13: Distribution of zinc.

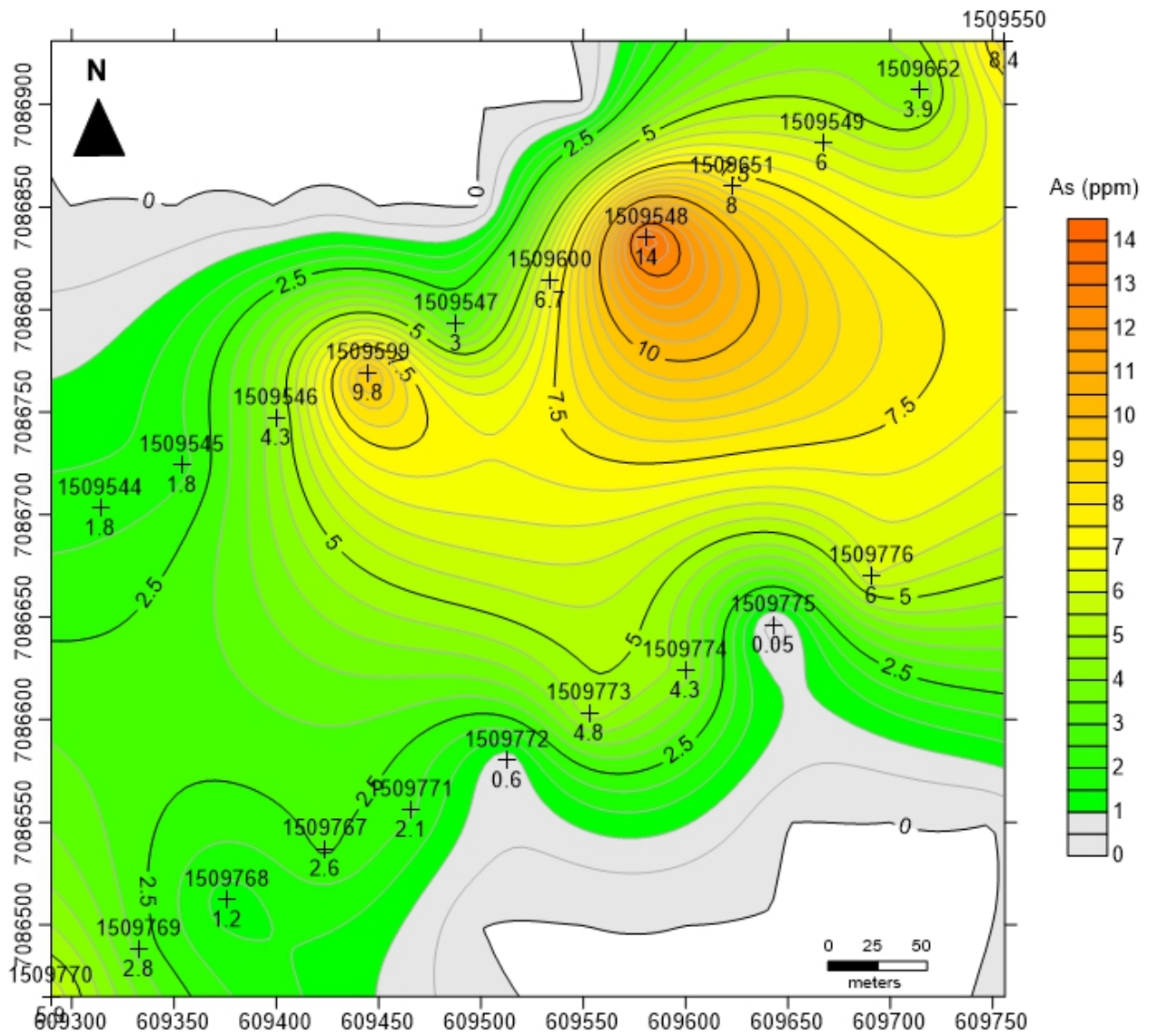


Fig. 14: Distribution of arsenic.

5.3. Fawcett South

The soil survey on claims Leota HS 19, 23 and 24 was made to test the area south of Minfile occurrence 115O 069 (Fawcett) and the possibility of Alphonse - Grazie gold-quartz vein system extending to this area (Fig. 15). In total, 39 soil samples from “C” horizon were collected.

As shown in Fig. 16, two single gold anomalies ranging from 84 to 85.7 ppb were detected in northern and southern portions of the grid, thus providing a sound incentive for further work.

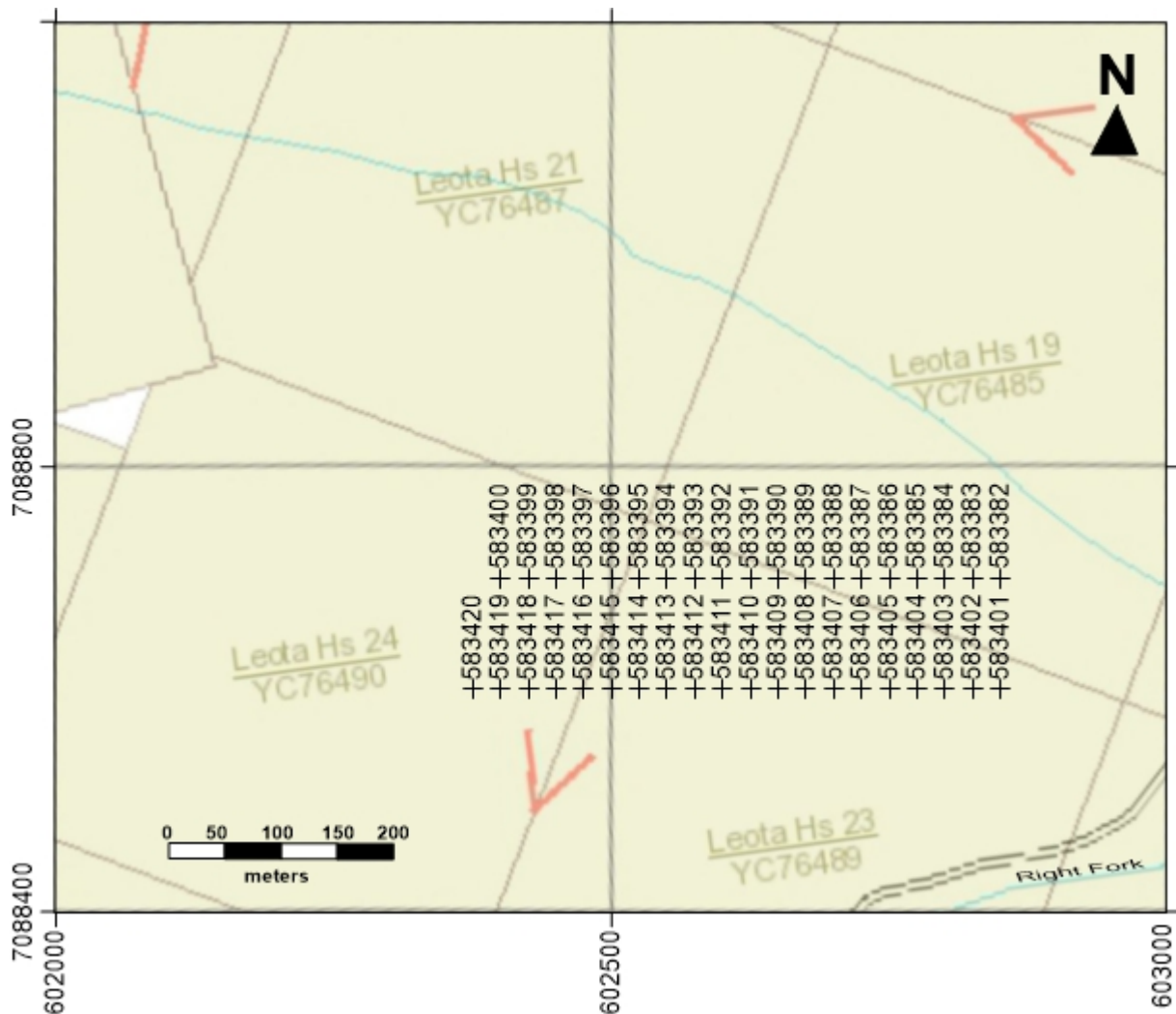


Fig. 15: Location of Fawcett South soil grid.

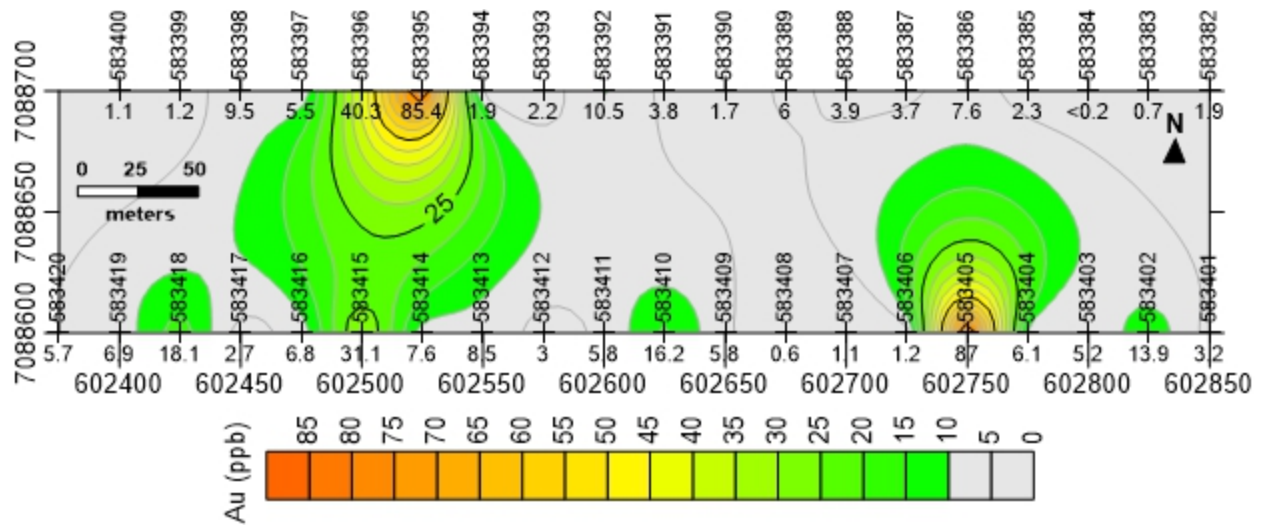


Fig. 16: Distribution of gold.

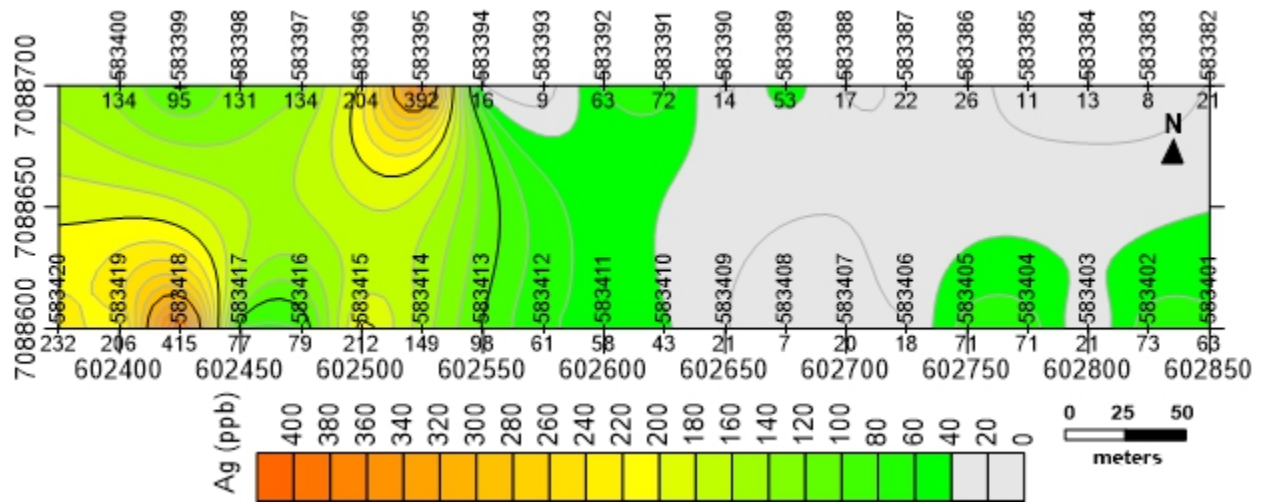


Fig. 17: Distribution of silver.

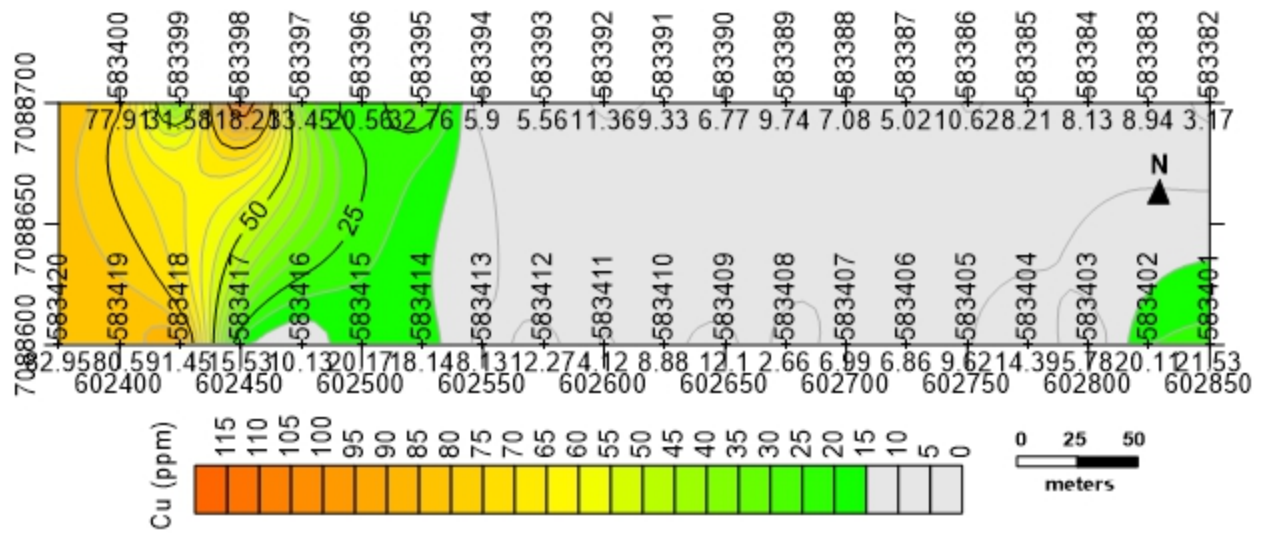


Fig. 18: Distribution of copper.

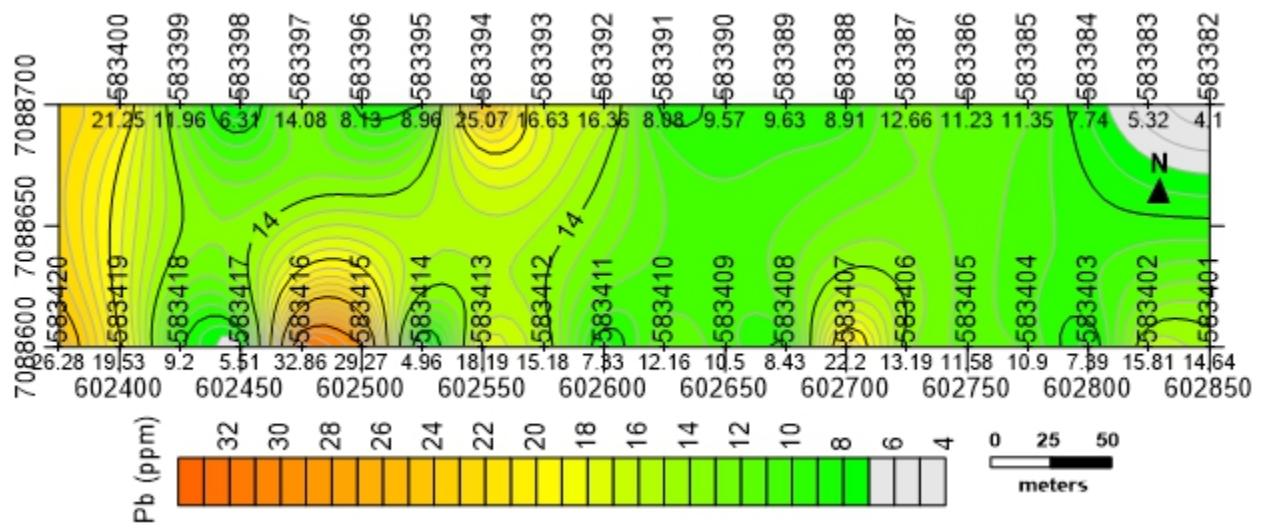


Fig. 19: Distribution of lead.

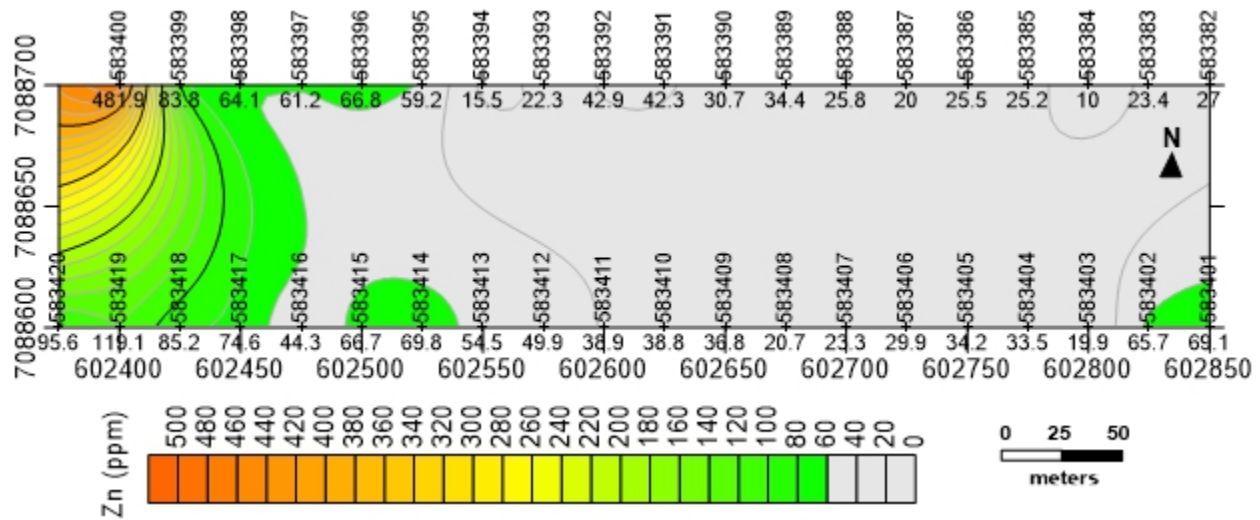


Fig. 20: Distribution of zinc.

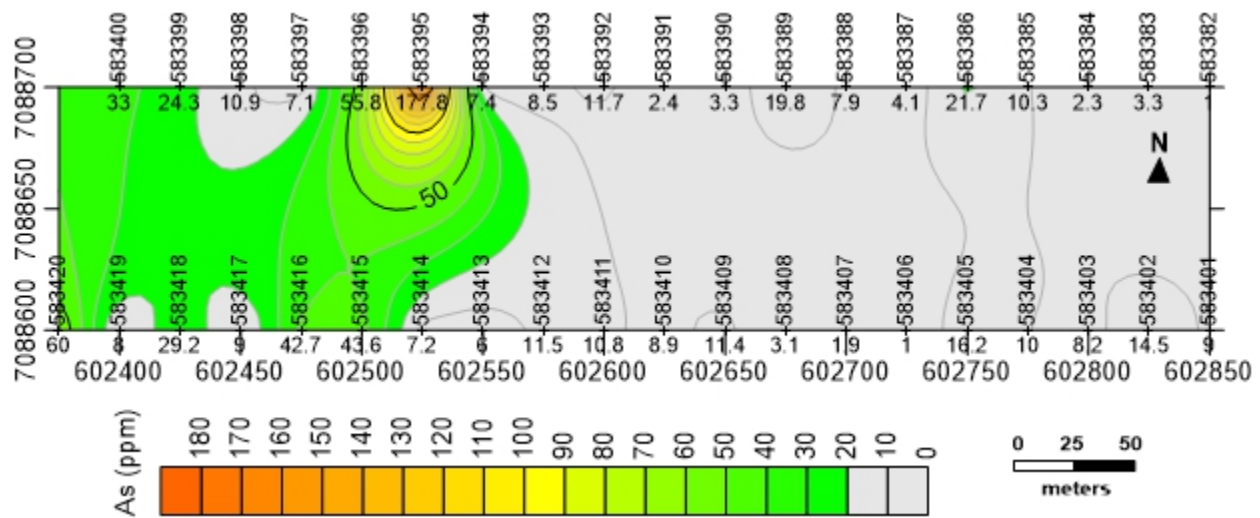


Fig. 21: Distribution of arsenic.

Table 3: Descriptive statistics, Fawcett South

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>	<i>Sb</i>	<i>Hg</i>	<i>Cr</i>	<i>Ni</i>	<i>Mg</i>
Count	39	39	39	39	39	39	39	39	39	39	39
Mean	10.918	87.949	22.221	13.140	57.244	18.585	0.288	22.026	54.738	37.556	0.674
St. Error	3.117	15.539	4.484	1.102	11.859	4.794	0.030	4.079	30.676	19.692	0.178
Median	5.5	63	10.13	11.35	38.9	9	0.26	17	9.3	7	0.26
St. Deviation	19.464	97.039	28.004	6.880	74.056	29.936	0.189	25.473	191.569	122.977	1.113
Sample Var.	378.856	9416.471	784.202	47.330	5484.341	896.157	0.036	648.868	36698.796	15123.434	1.240
Kurtosis	10.775	4.212	3.960	1.003	30.114	21.656	12.849	20.173	35.686	34.896	17.507
Skewness	3.285	1.999	2.191	1.178	5.207	4.278	3.068	4.064	5.872	5.790	3.778
Range	86.9	408	115.55	28.76	471.9	176.8	1.08	153	1194.8	765.4	6.27
Minimum	<0.2	7	2.66	4.1	10	1	0.1	<5	2	1.5	0.05
Maximum	87	415	118.21	32.86	481.9	177.8	1.18	155	1196.8	766.9	6.32

Table 4: Correlation coefficients, Fawcett South

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>	<i>Sb</i>	<i>Hg</i>	<i>Cr</i>	<i>Ni</i>	<i>Mg</i>
Au	1.000										
Ag	0.517	1.000									
Cu	0.059	0.652	1.000								
Pb	-0.039	0.119	0.130	1.000							
Zn	-0.026	0.312	0.533	0.246	1.000						
As	0.678	0.706	0.246	0.143	0.175	1.000					
Sb	0.287	0.626	0.538	0.349	0.245	0.636	1.000				
Hg	0.724	0.715	0.197	0.090	0.099	0.887	0.492	1.000			
Cr	-0.095	0.172	0.468	0.211	0.975	0.097	0.156	-0.014	1.000		
Ni	-0.092	0.182	0.476	0.241	0.974	0.122	0.220	-0.003	0.995	1.000	
Mg	-0.048	0.404	0.705	0.115	0.933	0.133	0.216	0.087	0.904	0.890	1.000
	0.5-0.707	25-50%		0.707-0.866		50-75%			>0.867	>75%	

Table 4 shows the correlations coefficients are strongest between chromium (Cr-Ni-Mg) group and zinc and between arsenic and mercury. There are medium strong correlations between gold and mercury and weak correlations among gold – silver – arsenic, copper – zinc – antimony – magnesium and between arsenic and antimony. Strong correlations within chromium group indicate that mafic and/or ultramafic rocks and/or their altered derivatives are strongly represented in the grid area. It is obvious however that gold and silver do not correlate with the chromium group. Zinc, on the other hand, does strongly associate with the chromium group and there is also a weak correlation between copper and the chromium group. High mercury in the soil indicates that this metal may play a role in the gold re-mobilization under supergene conditions.

5.4. Hunker Summit

Goldbank completed a soil sampling grid at Hunker Summit in 2011 and in 2016 the grid was extended westwards by adding a single line comprised of 24 soil samples as shown in Fig. 22. The results are presented in Figs. 23 to 28 together with 2011 results. The grid area is floored by Klondike Schist Assemblage and the gold values are fairly low, ranging from below detection limit to 17.9 ppb, with the best 2016 value being 10.4 ppb (Fig. 23). The silver values fare better, particularly in the southern portion of the grid where the highest 2016 value was 195 ppb (Fig. 24). Statistics and correlations for 2011 and 2016 assays are listed in Tables 5 and 6 below.

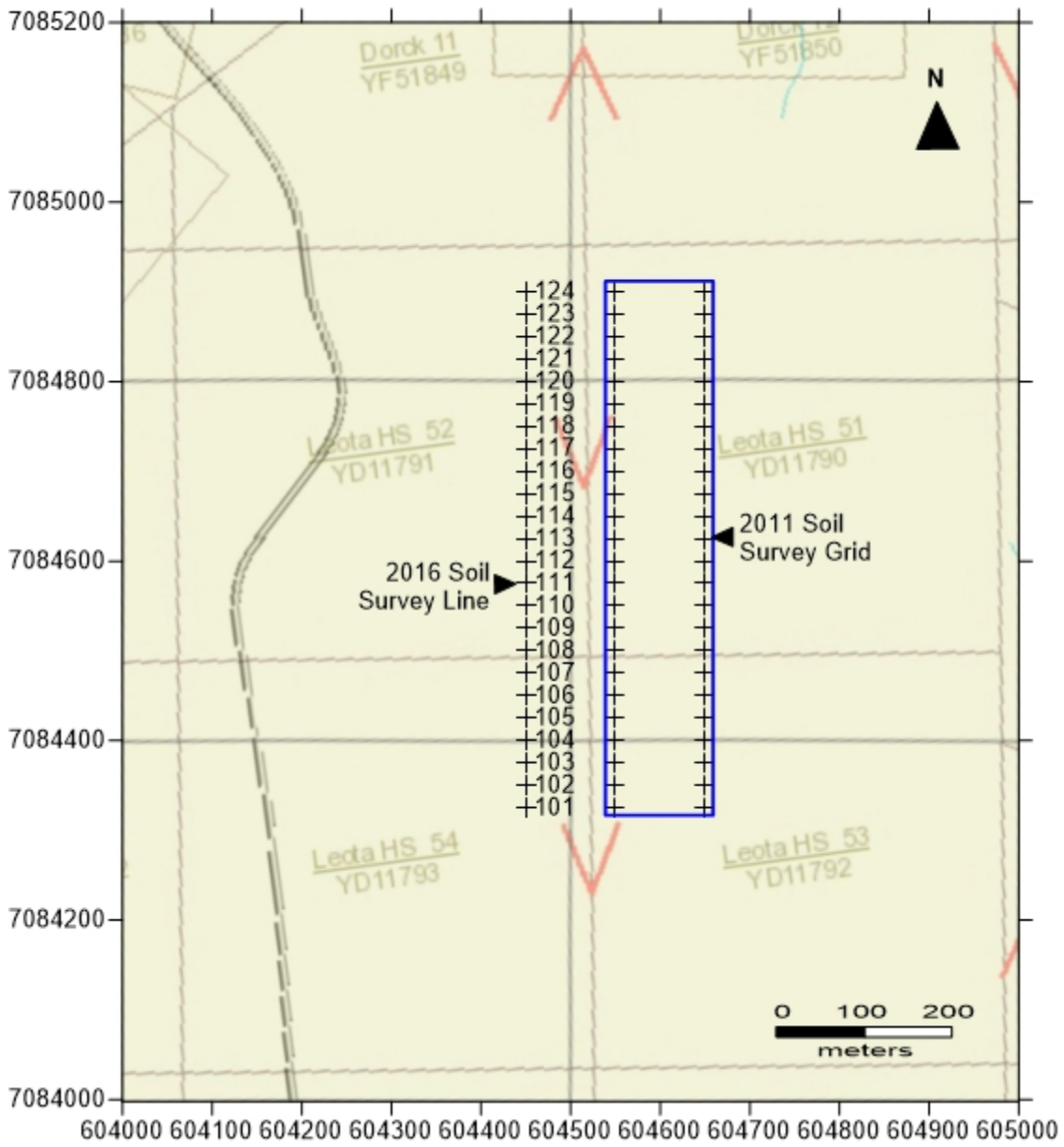


Fig. 22: Hunker Summit 2011, 2016 soil surveys.

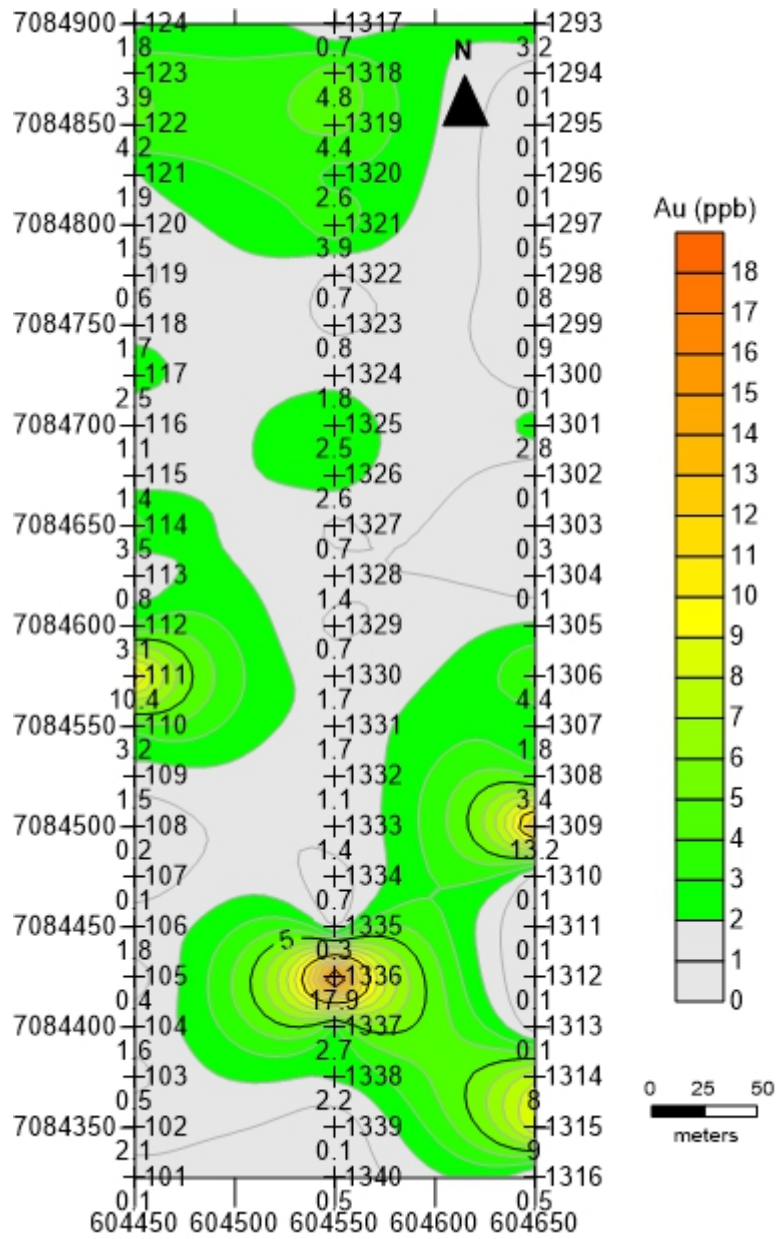


Fig. 23: Distribution of gold.

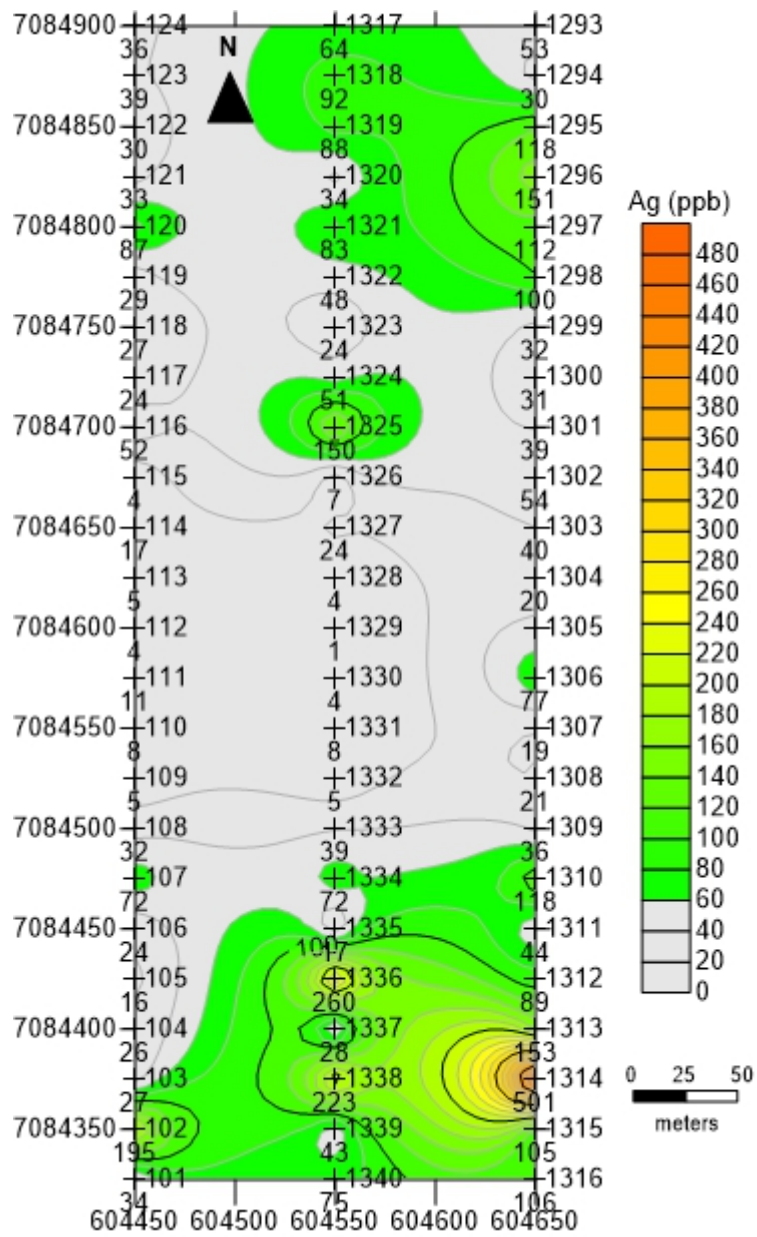


Fig. 24: Distribution of silver.

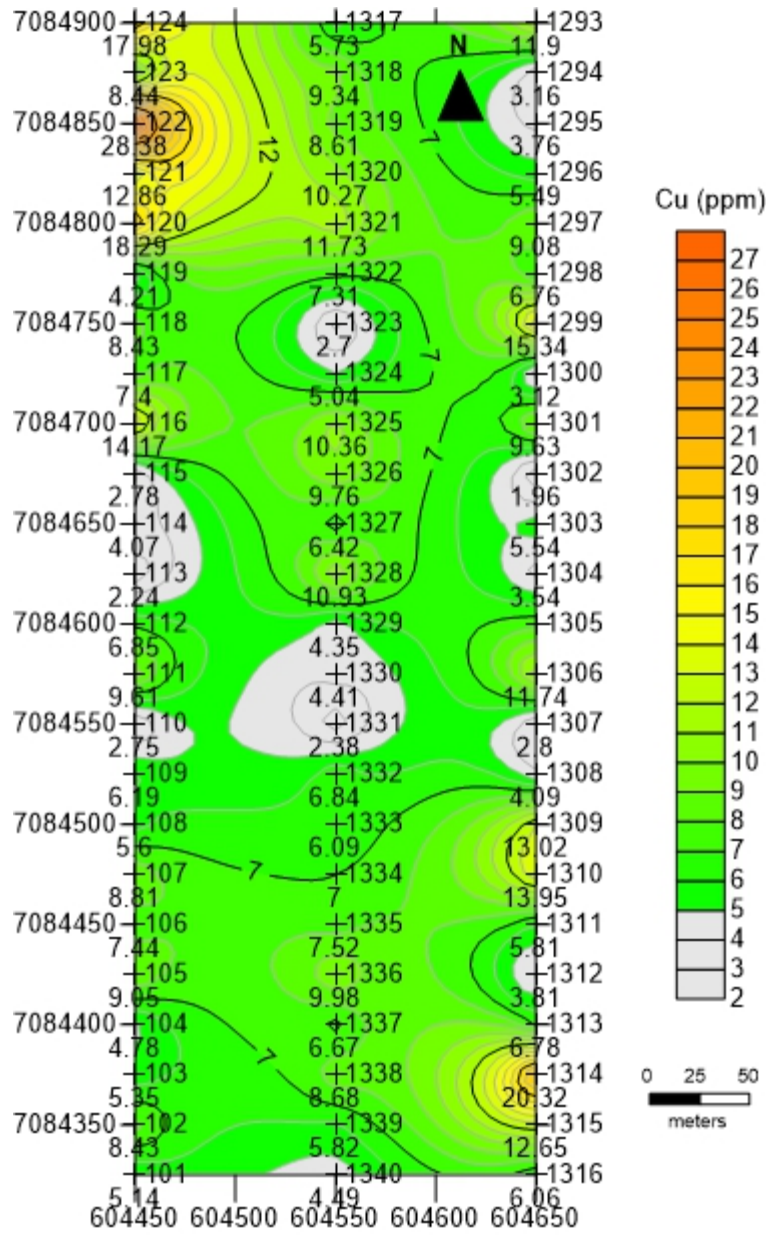


Fig. 25: Distribution of copper.

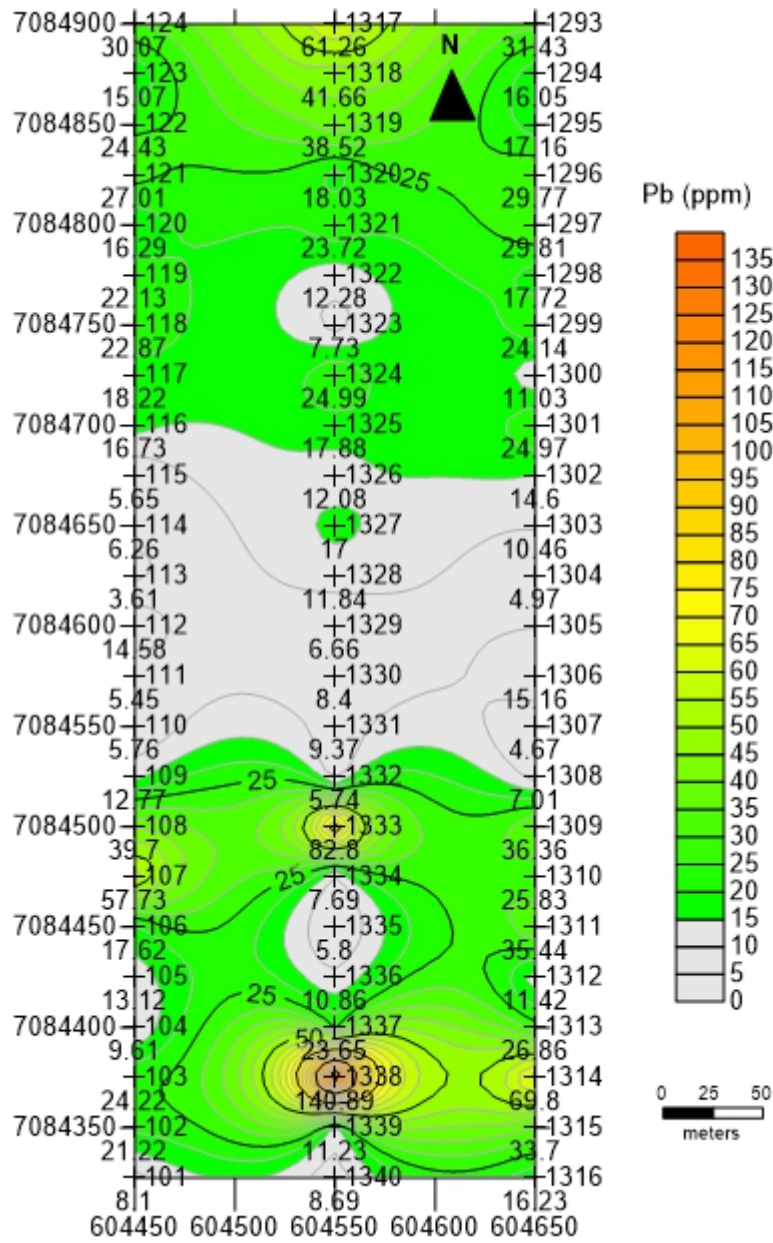


Fig. 26: Distribution of lead.

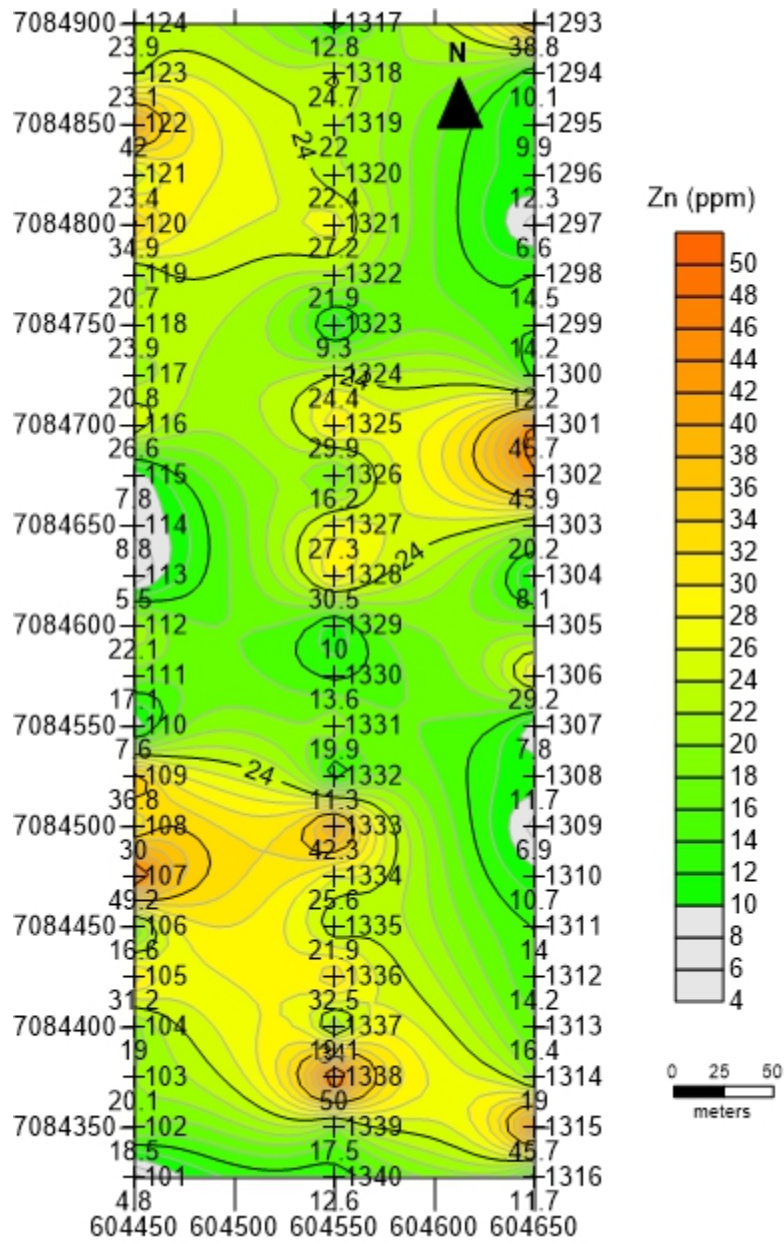


Fig. 27: Distribution of zinc.

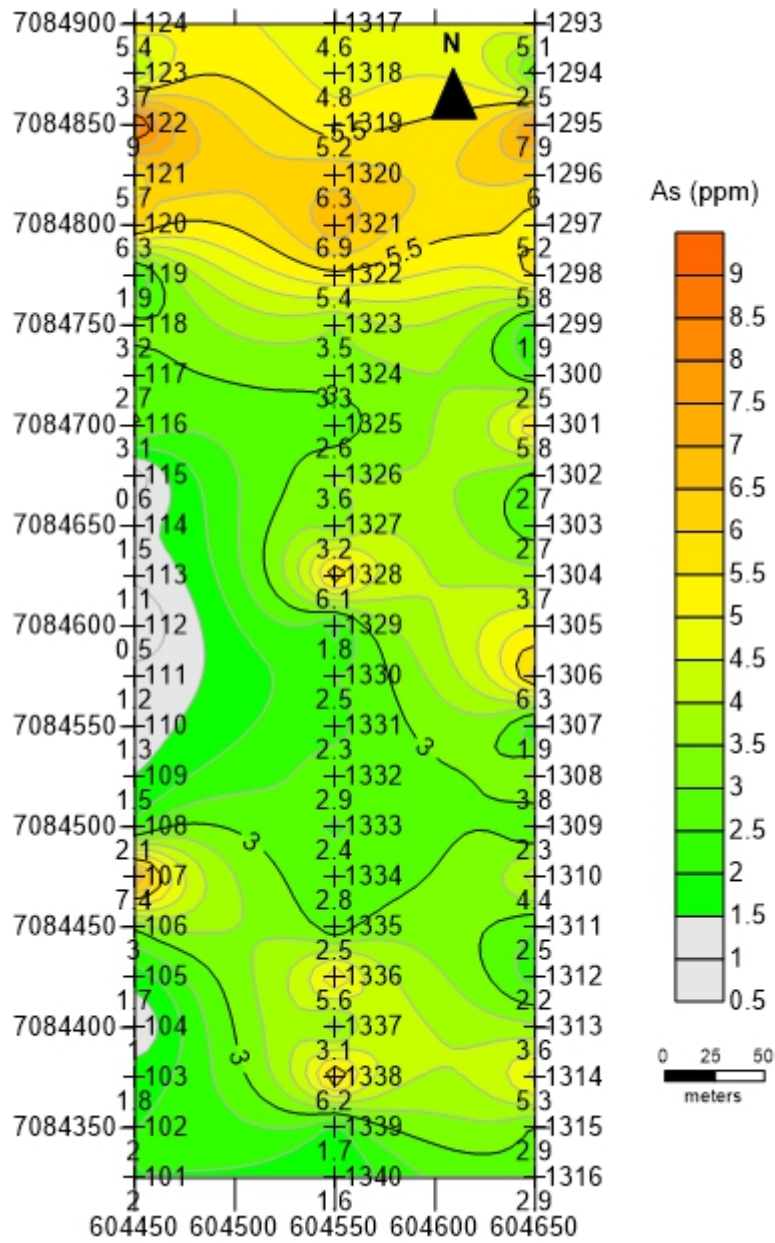


Fig. 28: Distribution of arsenic.

Table 5: Hunker Summit soils, descriptive statistics

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>
Count	71	71	71	71	71	71
Mean	2.220	60.986	7.915	21.994	21.170	3.528
St. Error	0.364	8.868	0.556	2.481	1.349	0.227
Median	1.4	36	6.84	16.73	19.9	2.9
St. Deviation	3.070	74.726	4.688	20.904	11.365	1.913
Smpl Variance	9.425	5583.928	21.976	436.957	129.173	3.659
Kurtosis	11.450	17.066	4.572	15.156	0.080	-0.216
Skewness	3.090	3.508	1.723	3.329	0.835	0.722
Range	17.8	500	26.42	137.28	45.2	8.5
Minimum	<0.2	1	1.96	3.61	4.8	0.5
Maximum	17.9	501	28.38	140.89	50	9

Table 6: Hunker Summit, correlation matrix

	<i>Au</i>	<i>Ag</i>	<i>Cu</i>	<i>Pb</i>	<i>Zn</i>	<i>As</i>
<i>Au</i>	1.000					
<i>Ag</i>	0.347	1.000				
<i>Cu</i>	0.364	0.342	1.000			
<i>Pb</i>	0.085	0.482	0.267	1.000		
<i>Zn</i>	0.163	0.148	0.405	0.463	1.000	
<i>As</i>	0.118	0.361	0.546	0.352	0.386	1.000

6. SAMPLE PREPARATION AND ANALYSIS

Bureau Veritas Laboratories (BVL) conducts sample preparation and analyses in accordance with generally accepted analytical laboratory principles and practices. The samples are prepared by drying at 60° C and sieving 100g to -80 mesh (code SS80) and the analyses are performed on a 30 g pulp using Aqua Regia digestion and Ultratrace ICP-MS analysis (code 1F06) for 53 elements. The assay certificates and the analytical QA check-ups from BVL are attached at the back of this report (Appendix II). Descriptive statistics and correlations for soil assays were made for each area separately using Excel’s Data Analysis (Tables 1 to 6).

7. QUALITY ASSURANCE

BVL Quality Assurance (QA) program includes repeat, standard and blank analyses for soil samples. Additionally, five field original and duplicates were taken from Michie and Cheerio zones to independently check the laboratory performance. The results for precious, base and six other elements are displayed in Figs. 22 to 26. As shown, the duplicates compare well with their originals. The maximum difference in gold was noted in the field original 1509575 vs 1509576 where the latter assayed by 38% more than its original. The differences in silver are greatest in the field original 1509760 vs its duplicate 1509761, where the former assayed by 43% less than the latter.

The laboratory repeats for precious, base metals and arsenic in samples 583401 and 563411 compare well with their originals (Figs. 29, 30). The standards OXC129, DS10 and DS11 for gold, silver, copper, lead, zinc and arsenic in Figs. 27, 28, 31 and 32 show a few discrepancies, the first being the gold in standard DS11, which ranges from 67.5 to 127, silver in standard OXC129 ranges from 9 to 37 and arsenic ranges from 0.1 to 0.9. Discrepancies in gold can be assigned to nugget effects. Most blanks assayed below detection limit although three popped above detection limit, including silver (5 ppb), copper (0.03 ppm) and arsenic (0.4 ppm).

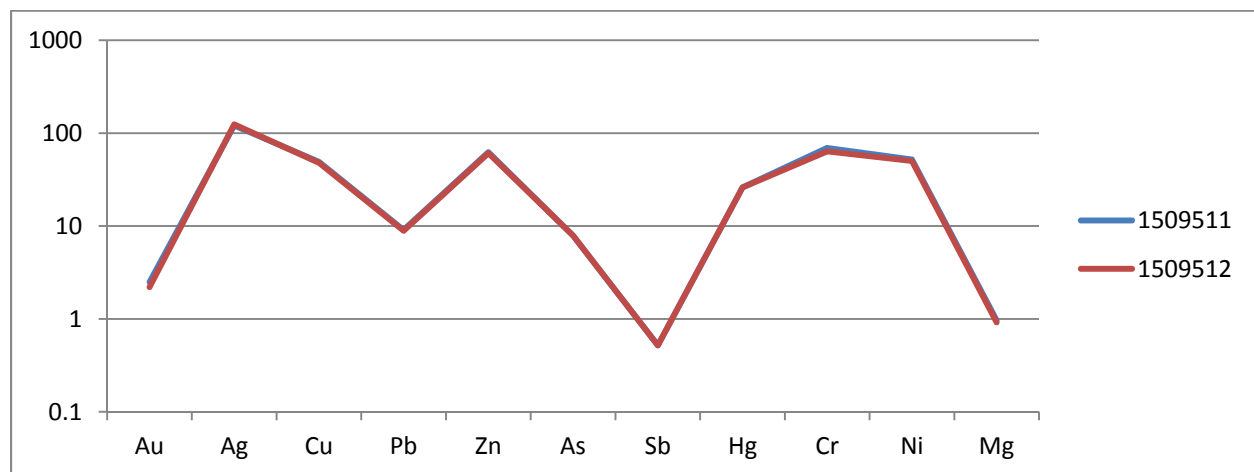


Fig. 29: Field original 1509511 compared to repeat 1509512.

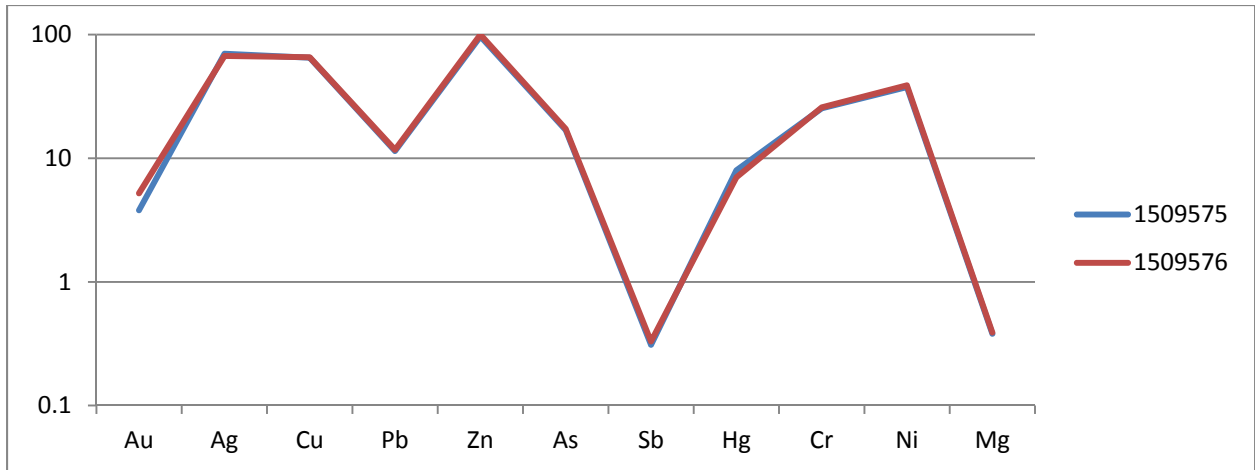


Fig. 30: Field original of sample 1509575 compared to its repeat 1509576.

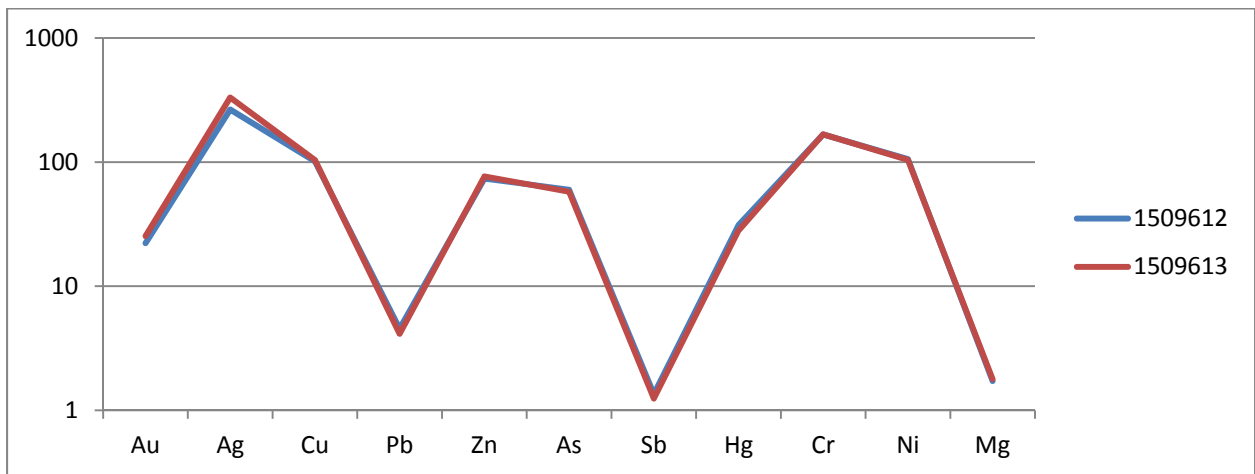


Fig. 31: Field original of sample 1509612 compared to its repeat 1509613.

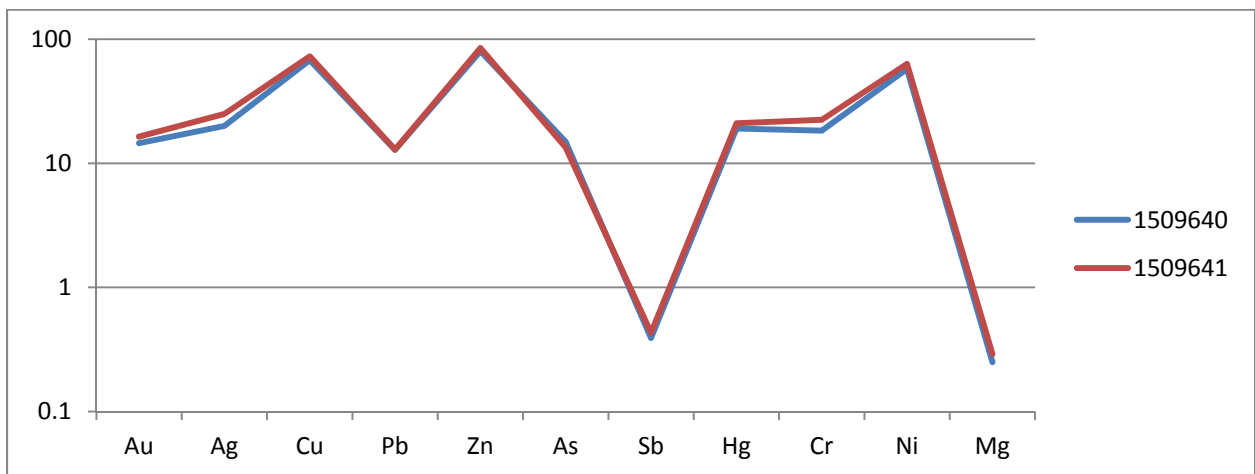


Fig. 32: Field original of sample 1509640 compared to its repeat 1509641.



Fig. 33: Field original of sample 1509760 compared to its repeat 1509761.

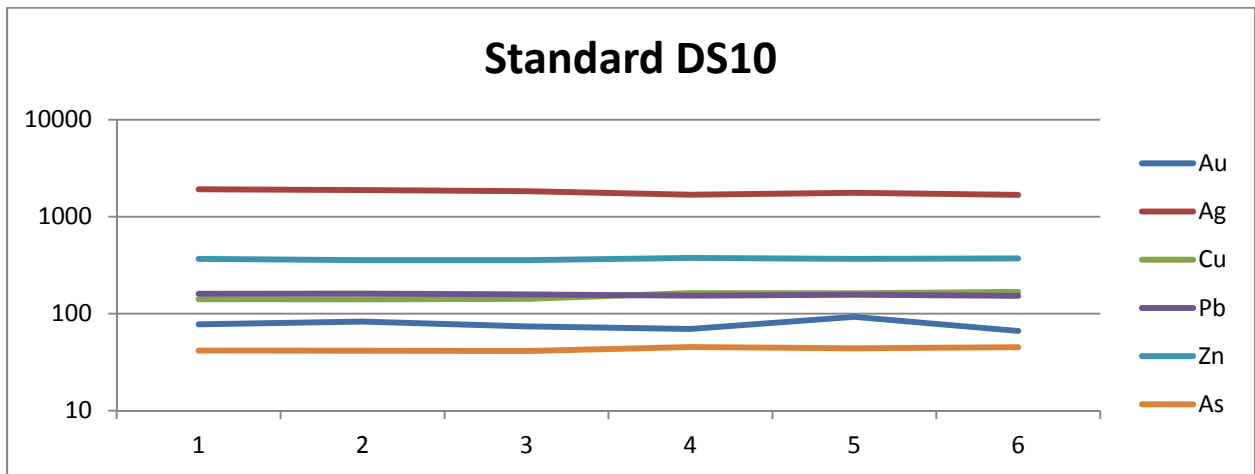


Fig. 34: Performance of DS10 for precious, base metals and arsenic.

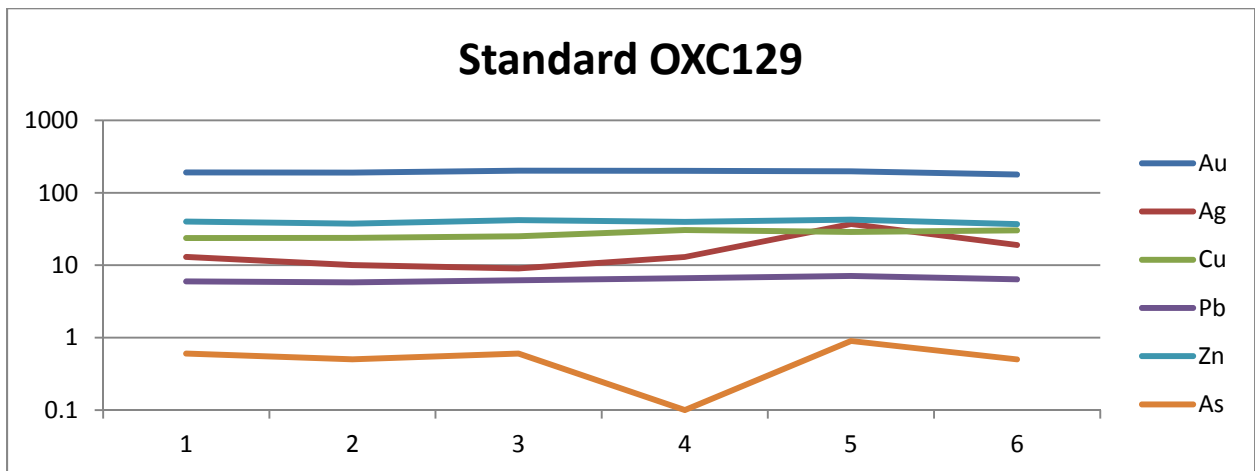


Fig. 35: Performance of OXC129 for precious, base metals and arsenic.

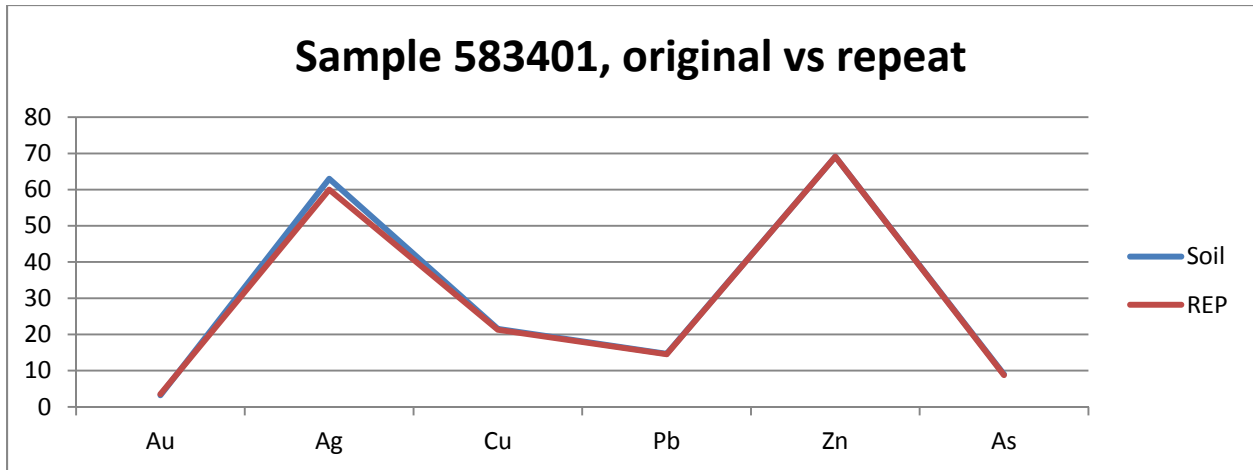


Fig. 36: Original sample 583401 compared to its repeat.

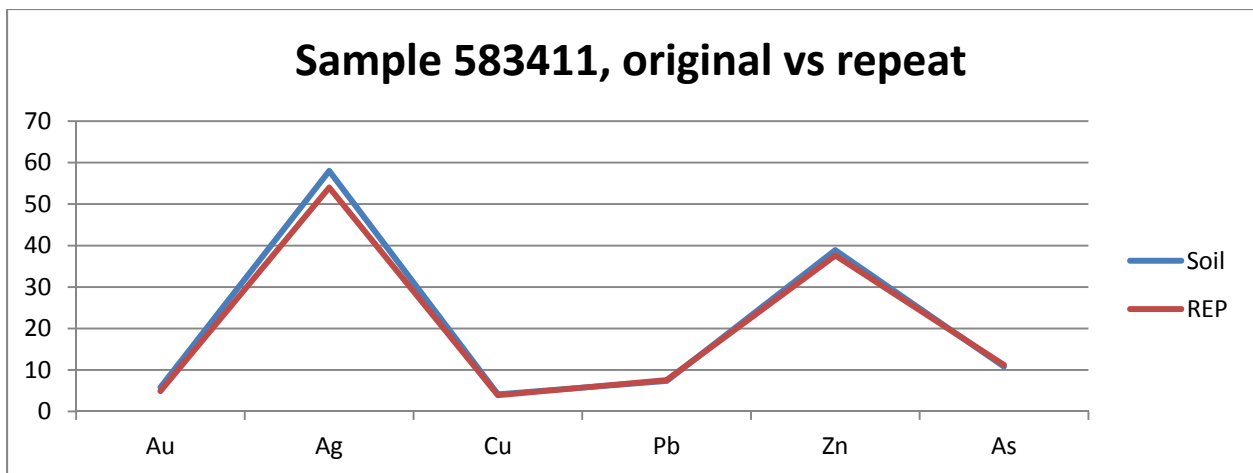


Fig. 37: Original of sample 583411 compared to its repeat.

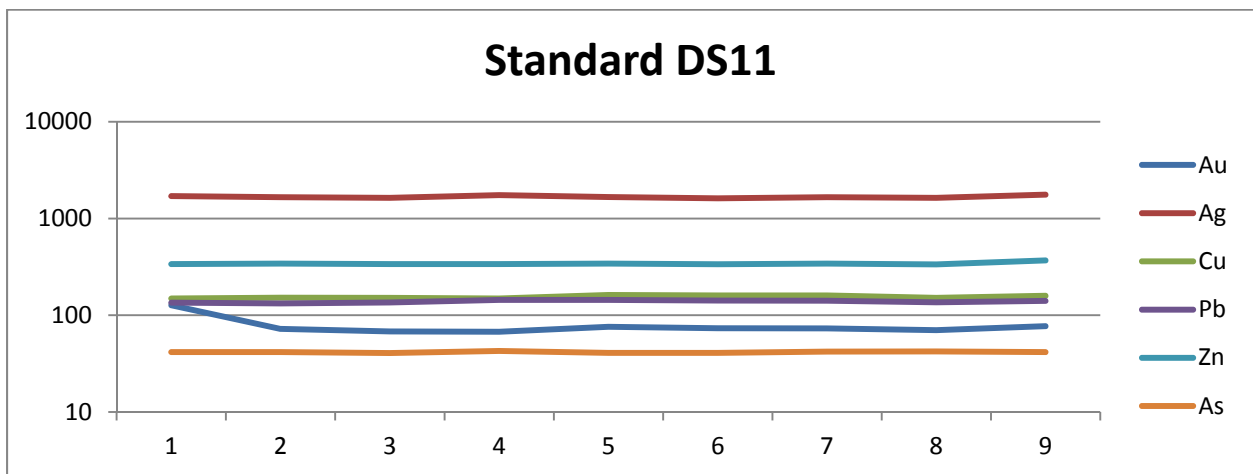


Fig. 38: Performance of DS11 for precious, base metals and arsenic.

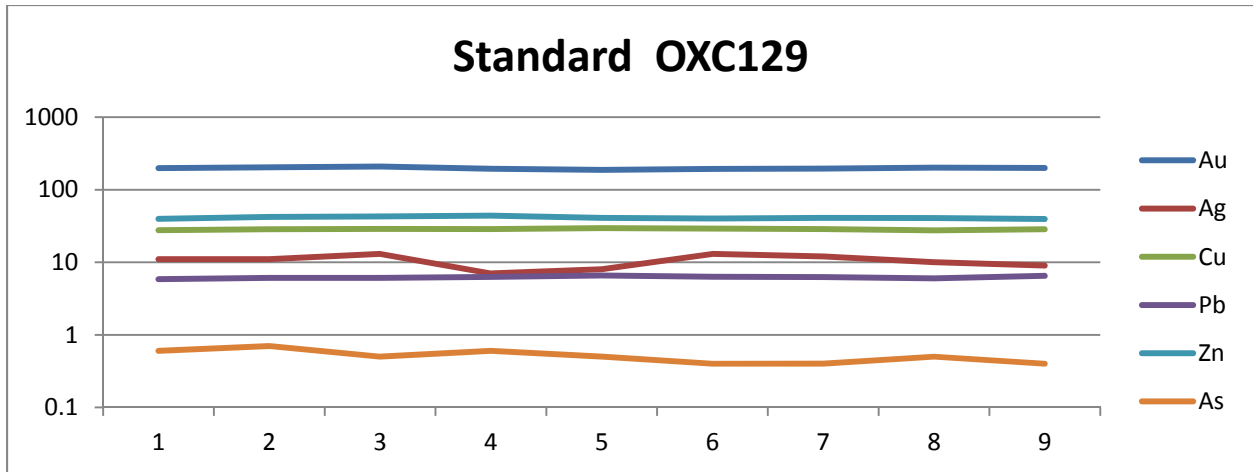


Fig. 39: Performance of OXC129 for precious, base metals and arsenic.

In conclusion we can state that the assays made for the 2016 LCB project by BVL comply with industry standards and are acceptable for the stage of exploration, at which the LCB project currently is.

8. CONCLUSIONS AND RECOMMENDATIONS

Goldbank’s 2016 soil surveys in Alexander Creek (Michie, Cheerio), Right Fork (Fawcett) and Hunker Summit areas detected several promising gold anomalies, which deserve further work. Their sources appear to be unconformable quartz veins of various strike lengths and thickness ranging from a few centimeters to several meters.

The historical Michie and Cheerio zones appear to be the most promising targets, followed by Fawcett South, while Hunker Summit is characterized by relatively weaker precious metal anomalies. We recommend further soil sampling north and east of the 2015 and 2016 grids at Michie and extending the grid northward at Cheerio. We also recommend additional soil sampling at Fawcett South, in area west of the 2016 grid and as far as the western limit of Leota Claim Block. At Hunker Summit we recommend extending the soil grid westwards and northwards.

Statistic evaluations and correlations indicate medium correlations among gold, silver and mercury, and strong correlation between zinc and chromium group (Cr-Ni-Mg) elements. High correlation between mercury and precious metals may indicate mercury could play a role in the gold/silver remobilization under supergene conditions.

In conclusion we can state that further work on the LCB is justified and recommended and should include rock and soil sampling in the anomalous areas and mechanical trenching at locations where anomalous gold values were detected.

9. 2016 EXPLORATION EXPENSES

Senior Geologist (5 days x \$ 800) Dr. Bohumil B. Molak, PGeo	4000.00
Assistant (3 days x \$275) C. Studer	825.00
Assistant (3 day x \$275) J. F. Bisson	825.00
Assistant (3 days x \$275) M. Esteva	825.00
Assistant (1 day x \$275) R. Eyolfson	275.00
Assistant (1 day x \$275) A. Molak	275.00
Assistant (1 day x \$270/day) J. Pelletier	275.00
Truck (Mileage, gas) 3 days x \$50/day	150.00
Truck (Mileage, gas) 1 day x \$50/day	50.00
ATV (Mileage, gas) 1 day x \$40/day	40.00
Accommodation, food Geo (5 @ \$150/day)	750.00
Accommodation, food Asst. (3 @ \$150/day)	450.00
Accommodation, food (Asst. (3 @ \$150/day)	450.00
Accommodation, food (Asst. (3 @ \$150/day)	450.00
Accommodation, food (1 @ \$150/day)	150.00
Accommodation, food (1 @ \$150/day)	150.00
Accommodation, food (1 @ \$150/day)	150.00
Assays (217 samples @ \$40/sample)	8680.00
Travel (\$400 Whitehorse-Dawson, roundtrip) Geologist	400.00
Digitization, report (10% of costs)	1917.00
Total:	\$21,087.00

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11. STATEMENT OF QUALIFICATIONS

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

1. I am a self-employed Professional Geoscientist residing at 312 – 9298 University Crescent, Burnaby, BC., V5A 4X8, Canada.
2. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (License No. 28600) in good standing.
3. I graduated from the Comenius University of Czechoslovakia with a Bachelor of Science (Mgr.) in Economic Geology in 1970. From the same university I obtained in 1980 the degree Master of Science in Economic Geology (RNDr.) and in 1990 the degree Doctor of Philosophy (CSc.). I have practiced my profession continuously since 1970.
4. My geological practice includes research, prospecting, and exploration for precious, base, ferrous and other metals in Slovakia, Zambia, Cuba, Guinea, Canada, Chile and Argentina.
5. Since July 2003 until present I am a self-employed Geoscientist.
6. I conducted the field work and supervised the exploration program on the Leota Claim Block intermittently from July 30 to September 26, 2016.
7. I am responsible for all items, except the item 9. 2016 Exploration Expenses in this report, which was prepared by Xyquest Mining Corp. The sources of all information not based on personal examination are quoted in the References Chapter.
8. As of the date of this Statement I am not aware of any material fact or material change with respect to the subject matter of this report that is not reflected in this report, the omission of which would make the report misleading.
9. I am independent of Goldbank Mining Corp.

Dated at Vancouver, BC, Canada, this 31st day of July, 2019.

APPENDIX 1

Leota Claim Block, Claim Status

Grant Number	Claim Name	Claim Nmbr	Claim Owner	ExpiryDate
YD11818	CT	15	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11819	CT	16	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11820	CT	17	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11821	CT	18	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11822	CT	19	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11823	CT	20	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11824	CT	21	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11825	CT	22	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11826	CT	23	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11827	CT	24	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11828	CT	25	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11829	CT	26	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44230	CT	27	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44231	CT	28	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44232	CT	29	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44233	CT	30	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44234	CT	31	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44235	CT	32	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44236	CT	33	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44237	CT	34	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11840	CT	35	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44225	CT	36	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44226	CT	37	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44227	CT	38	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44228	CT	39	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD44229	CT	40	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11814	GC	1	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11815	GC	2	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11816	GC	3	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11817	GC	4	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11830	GC	5	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11831	GC	6	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11832	GC	7	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11833	GC	8	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11834	GC	9	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11835	GC	10	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11836	GC	11	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11837	GC	12	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11838	GC	13	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11839	GC	14	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11801	HC	40	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11802	HC	41	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015
YD11803	HC	42	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/15/2015

YC63985	Leota VC	35	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63986	Leota VC	36	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63969	Leota VC	37	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63970	Leota VC	38	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63971	Leota VC	39	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63972	Leota VC	40	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63987	Leota VC	41	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63988	Leota VC	42	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63989	Leota VC	43	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63990	Leota VC	44	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63973	Leota VC	45	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63974	Leota VC	46	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63975	Leota VC	47	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63976	Leota VC	48	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63977	Leota VC	49	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63978	Leota VC	50	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63979	Leota VC	51	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015
YC63980	Leota VC	52	Mark Pocklington - 50%, 650393 B.C. Ltd - 50%	10/31/2015

APPENDIX II
Assay Certificates



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 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.


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

CC:

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


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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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

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

Page: 4 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

Method	Analyte	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
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																	8
0789	Soil																	6
0790	Soil																	7
0791	Soil																	6
0792	Soil																	1
0793	Soil																	0
0794	Soil																	0
0795	Soil																	2
0796	Soil																	1
0797	Soil																	7
0798	Soil																	1
0799	Soil																	0
0800	Soil																	1
0851	Soil																	1
0852	Soil																	0
0853	Soil																	2
0854	Soil																	3
0855	Soil																	1
0856	Soil																	1
0857	Soil																	1
0858	Soil																	1
0859	Soil	21.5	20.1	0.25	233.0	0.025	1	1.32	0.003	0.17	<0.1	5.2	0.07	<0.02	10	0.3	0.14	4.9
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

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



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Client: **XyQuest Mining Corp.**
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Project: LEOTA, RST
Report Date: April 20, 2018

Page: 4 of 9

Part: 1 of 2

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	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	
0788	Soil																				
0789	Soil																				
0790	Soil																				
0791	Soil																				
0792	Soil																				
0793	Soil																				
0794	Soil																				
0795	Soil																				
0796	Soil																				
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0798	Soil																				
0799	Soil																				
0800	Soil																				
0851	Soil																				
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0854	Soil																				
0855	Soil																				
0856	Soil																				
0857	Soil																				
0858	Soil																				
0859	Soil																				
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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Bureau Veritas Commodities Canada Ltd.

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

Page: 5 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	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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Project: LEOTA, RST
Report Date: April 20, 2018

Page: 5 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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	5	0.1	0.02	0.1	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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Page: 6 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	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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Page: 6 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

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		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	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.02	5	0.1	0.02	0.1	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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Page: 7 of 9

Part: 1 of 2

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WHI17000989.1

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	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	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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Page: 7 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI17000989.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.02	5	0.1	0.02	0.1	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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Page: 8 of 9

Part: 1 of 2

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WHI17000989.1

Method Analyte	AQ252																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	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.

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



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Page: 8 of 9

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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	5	0.1	0.02	0.1	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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Project: LEOTA, RST
Report Date: April 20, 2018

Page: 1 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000989.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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



QUALITY CONTROL REPORT

WHI17000989.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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
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 OXC-129	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 OXC-129	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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Page: 2 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI17000989.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
STD 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



QUALITY CONTROL REPORT

WHI17000989.1

		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	0.01	0.01	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	



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

Submitted By: Boris Molak
Receiving Lab: Canada-Whitehorse
Received: September 01, 2016
Report Date: September 21, 2016
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI16000239.1

CLIENT JOB INFORMATION

Project: MICHIE
Shipment ID: 2016-04
P.O. Number
Number of Samples: 178

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.

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

CC: Al Doherty

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	178	Dry at 60C			WHI
SS80	178	Dry at 60C sieve 100g to -80 mesh			WHI
AQ252	178	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	178	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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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Project: MICHIE
Report Date: September 21, 2016

Page: 2 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

Method	Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1509501	Soil	0.19	121.58	2.89	57.8	57	68.6	21.7	460	2.50	5.8	0.2	0.8	0.2	5.0	0.05	0.08	0.04	52	0.19	0.011
1509502	Soil	0.38	90.25	3.70	52.7	29	46.3	17.4	655	2.82	5.9	0.5	0.2	5.5	14.8	0.12	0.11	0.05	65	0.49	0.123
1509503	Soil	0.44	71.63	10.26	68.0	93	122.8	32.9	1269	4.38	18.5	0.3	1.5	2.5	18.5	0.17	0.40	0.06	115	0.69	0.121
1509504	Soil	2.49	60.52	32.42	561.0	229	47.3	26.3	1620	3.79	97.0	1.3	9.4	11.3	16.3	1.11	0.94	0.11	30	0.48	0.158
1509505	Soil	0.55	65.33	13.65	78.0	138	19.4	13.1	970	3.72	139.9	1.3	5.1	6.4	39.4	0.07	0.71	0.14	57	0.51	0.176
1509506	Soil	1.40	50.60	11.41	76.9	43	46.3	15.5	830	3.35	42.6	0.9	12.0	6.2	15.0	0.13	1.04	0.15	63	0.26	0.037
1509507	Soil	0.52	65.91	7.59	76.2	89	56.1	19.2	578	3.21	6.8	0.6	5.2	5.4	23.0	0.11	0.18	0.12	46	0.47	0.106
1509508	Soil	1.01	47.02	10.85	62.6	46	46.8	18.2	781	2.95	6.6	0.5	1.2	3.7	20.6	0.21	0.41	0.13	52	0.47	0.075
1509509	Soil	0.88	54.12	10.90	78.7	140	42.6	12.8	498	3.02	7.7	1.3	3.7	4.8	26.5	0.07	0.58	0.18	56	0.50	0.043
1509510	Soil	0.81	52.84	11.67	66.8	132	45.4	14.6	575	3.10	8.6	0.8	4.2	4.3	23.9	0.09	0.58	0.18	60	0.55	0.044
1509511	Soil	0.70	49.04	9.05	62.2	121	52.2	16.6	658	3.11	7.9	1.0	2.5	3.9	22.7	0.11	0.52	0.15	63	0.76	0.058
1509512	Soil	0.73	47.99	8.88	60.9	124	50.0	16.9	686	3.05	7.9	1.1	2.2	3.9	20.9	0.10	0.52	0.15	61	0.68	0.051
1509513	Soil	0.94	57.62	8.39	76.2	80	56.6	20.9	694	3.43	6.1	1.0	4.9	6.3	19.2	0.07	0.42	0.24	60	0.36	0.072
1509514	Soil	0.79	55.90	7.90	73.3	57	57.9	21.3	583	3.53	6.5	0.7	2.8	5.1	19.9	0.09	0.52	0.15	66	0.47	0.067
1509515	Soil	0.74	66.98	12.33	99.0	77	55.1	20.8	751	3.71	5.6	1.4	3.5	12.7	15.1	0.11	0.25	0.24	39	0.34	0.060
1509516	Soil	0.64	37.33	8.04	63.7	59	42.3	13.3	453	2.83	6.9	0.6	3.9	5.4	17.4	0.08	0.40	0.14	47	0.43	0.066
1509517	Soil	0.64	32.08	9.42	54.8	131	31.3	12.0	524	2.60	9.4	0.9	2.8	2.9	26.9	0.08	0.47	0.15	48	0.57	0.067
1509518	Soil	0.36	79.68	5.66	96.1	51	67.3	21.8	834	3.67	5.4	0.9	8.5	8.5	15.9	0.06	0.39	0.24	47	0.39	0.086
1509519	Soil	0.28	34.64	3.28	64.6	31	102.6	36.5	1881	4.32	2.6	0.5	3.0	1.6	17.2	0.11	0.11	0.04	127	0.81	0.203
1509520	Soil	0.40	81.15	6.07	52.3	38	64.9	20.1	508	3.68	4.7	1.0	9.4	2.7	12.4	0.04	0.27	0.09	90	0.48	0.093
1509521	Soil	0.24	60.55	7.37	59.1	65	99.4	28.0	1518	4.42	1.5	0.5	1.0	5.0	17.6	0.15	0.09	0.08	114	0.95	0.268
1509522	Soil	0.28	55.00	14.32	57.5	33	161.0	33.6	1845	4.44	1.2	0.4	1.3	0.8	18.2	0.25	0.12	0.04	152	0.68	0.166
1509523	Soil	0.23	67.37	2.02	62.7	19	112.8	30.8	868	4.67	2.8	0.4	5.8	1.2	20.1	0.04	0.21	0.03	90	0.64	0.084
1509524	Soil	0.15	64.36	1.60	51.3	14	93.6	27.2	685	3.43	2.0	0.2	2.7	0.9	23.6	0.04	0.14	0.02	64	0.68	0.094
1509525	Soil	0.06	97.35	0.63	44.7	27	45.3	21.8	492	3.07	0.9	0.2	3.3	0.2	17.4	0.03	0.07	<0.02	73	0.65	0.123
1509526	Soil	0.16	73.34	4.78	90.3	19	94.0	29.5	1302	4.19	1.7	0.4	2.8	5.1	16.2	0.07	0.12	0.07	83	0.82	0.230
1509527	Soil	0.12	38.36	1.70	54.2	67	156.0	39.4	1099	4.03	1.8	0.1	3.3	1.5	33.5	0.12	0.06	<0.02	146	2.61	0.195
1509528	Soil	0.38	69.42	12.57	59.9	21	93.2	28.5	866	3.94	3.1	0.3	0.8	1.1	18.2	0.07	0.22	0.05	99	0.42	0.061
1509529	Soil	0.20	38.04	3.18	74.3	13	117.4	38.1	1333	4.48	2.6	0.3	2.9	2.0	19.8	0.12	0.17	0.03	86	0.79	0.184
1509530	Soil	1.24	86.55	9.49	79.7	183	165.3	51.6	1521	5.90	26.5	0.4	4.8	5.1	79.8	0.12	0.28	0.08	205	2.79	0.218



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Project: MICHIE
Report Date: September 21, 2016

Page: 2 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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	5	0.1	0.02	0.1	0.1
1509501	Soil	0.6	143.2	1.72	49.8	0.026	<1	1.67	0.002	<0.01	<0.1	5.6	<0.02	<0.02	5	<0.1	0.07	3.4
1509502	Soil	15.9	57.6	1.00	279.9	0.074	<1	1.45	0.004	0.53	<0.1	5.7	0.27	<0.02	9	0.1	0.08	4.2
1509503	Soil	12.3	147.6	1.74	368.4	0.043	<1	2.26	0.005	0.16	<0.1	20.1	0.28	<0.02	17	0.2	0.03	6.6
1509504	Soil	28.4	24.3	0.48	322.8	0.004	<1	1.45	0.004	0.13	<0.1	4.1	0.11	<0.02	50	0.4	0.02	4.3
1509505	Soil	19.5	12.6	0.67	254.1	0.048	<1	1.83	0.005	0.54	<0.1	5.0	0.20	<0.02	13	0.2	0.06	5.9
1509506	Soil	27.8	49.8	0.65	360.0	0.033	<1	1.84	0.005	0.06	0.1	8.4	0.10	<0.02	42	0.4	0.05	5.0
1509507	Soil	19.3	62.6	1.22	199.0	0.061	<1	1.75	0.005	0.17	<0.1	4.6	0.05	<0.02	11	0.2	0.04	4.4
1509508	Soil	11.2	68.1	0.93	304.4	0.067	1	1.56	0.009	0.11	0.1	4.8	0.07	<0.02	14	0.2	0.04	4.3
1509509	Soil	19.5	53.1	0.82	469.0	0.057	<1	1.84	0.013	0.06	0.2	5.8	0.09	<0.02	38	0.4	0.05	5.0
1509510	Soil	16.4	60.0	0.90	428.1	0.059	1	1.87	0.012	0.07	0.2	6.3	0.08	<0.02	40	0.2	0.04	5.2
1509511	Soil	17.3	69.2	0.97	419.6	0.065	1	1.97	0.009	0.11	0.1	6.8	0.09	<0.02	26	0.4	0.04	5.1
1509512	Soil	17.0	63.5	0.92	435.4	0.063	<1	1.89	0.009	0.11	0.1	6.5	0.08	<0.02	26	0.3	0.05	5.0
1509513	Soil	23.4	69.3	0.90	347.0	0.056	<1	1.69	0.006	0.09	<0.1	6.6	0.10	<0.02	21	0.3	0.04	4.9
1509514	Soil	18.5	80.4	1.11	355.1	0.072	<1	2.00	0.008	0.10	<0.1	7.5	0.10	<0.02	25	0.2	0.03	5.6
1509515	Soil	48.6	39.4	0.75	258.4	0.010	<1	1.69	0.004	0.07	<0.1	3.8	0.08	<0.02	18	0.3	0.07	4.3
1509516	Soil	20.0	51.6	0.79	230.6	0.044	<1	1.50	0.008	0.07	0.1	5.3	0.07	<0.02	22	0.2	0.03	4.1
1509517	Soil	14.0	39.9	0.62	370.8	0.045	<1	1.38	0.017	0.07	0.2	4.9	0.07	<0.02	36	0.3	0.03	3.9
1509518	Soil	29.4	63.7	1.11	180.2	0.027	<1	1.99	0.005	0.11	<0.1	5.5	0.13	<0.02	14	0.2	0.07	5.0
1509519	Soil	10.7	251.8	2.10	289.6	0.060	<1	2.46	0.009	0.36	<0.1	16.8	0.15	<0.02	15	<0.1	<0.02	7.2
1509520	Soil	16.6	99.1	1.49	333.2	0.069	<1	2.26	0.006	0.21	<0.1	12.6	0.12	<0.02	26	0.3	0.02	6.0
1509521	Soil	24.6	166.2	2.19	295.7	0.082	<1	2.64	0.005	0.51	<0.1	15.3	0.22	<0.02	12	0.1	<0.02	6.7
1509522	Soil	4.4	423.8	3.44	153.1	0.068	<1	3.18	0.005	0.07	<0.1	13.6	0.06	<0.02	15	<0.1	0.04	8.2
1509523	Soil	9.1	207.4	2.29	403.2	0.047	<1	2.85	0.008	0.24	<0.1	14.5	0.17	<0.02	13	<0.1	<0.02	7.5
1509524	Soil	4.3	135.6	2.01	358.1	0.077	<1	2.31	0.008	0.21	<0.1	8.2	0.10	<0.02	8	<0.1	<0.02	5.2
1509525	Soil	1.5	73.7	1.83	353.4	0.103	<1	1.96	0.012	0.56	<0.1	6.9	0.12	<0.02	<5	<0.1	<0.02	5.0
1509526	Soil	25.6	122.7	2.04	372.0	0.077	<1	2.65	0.005	0.66	<0.1	10.9	0.21	<0.02	7	<0.1	0.02	6.5
1509527	Soil	16.1	313.1	2.85	253.5	0.110	<1	2.65	0.005	0.71	<0.1	18.6	0.14	<0.02	15	<0.1	<0.02	7.6
1509528	Soil	6.2	173.6	2.35	232.6	0.112	<1	2.76	0.006	0.11	<0.1	8.1	0.08	<0.02	10	0.2	0.02	6.8
1509529	Soil	12.1	262.9	2.16	279.3	0.125	<1	2.84	0.006	0.96	<0.1	14.3	0.27	<0.02	13	<0.1	0.02	6.9
1509530	Soil	38.5	334.5	2.77	251.5	0.034	<1	3.48	0.003	0.23	<0.1	22.7	0.14	<0.02	21	0.5	0.04	11.1



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Project: MICHIE
Report Date: September 21, 2016

Page: 3 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1509531	Soil	0.58	29.76	6.49	31.8	58	811.9	73.6	1098	4.01	8.5	0.6	2.7	1.9	12.6	0.07	0.40	0.10	39	0.32	0.011
1509532	Soil	0.44	285.37	2.80	44.2	27	47.3	34.8	694	4.10	1.1	0.2	<0.2	0.3	2.5	0.06	0.07	0.04	118	0.08	0.009
1509533	Soil	0.45	102.22	4.65	90.5	88	29.2	9.9	536	2.87	4.8	0.3	0.7	1.1	4.9	0.09	0.32	0.13	69	0.06	0.011
1509534	Soil	0.50	200.91	3.98	72.6	60	94.9	16.2	674	3.33	2.8	0.2	4.3	0.9	4.8	0.06	0.12	0.07	110	0.14	0.008
1509535	Soil	0.83	51.69	6.63	82.5	71	89.7	27.2	1484	3.98	14.0	0.6	0.3	7.1	26.4	0.16	0.36	0.10	60	1.75	0.206
1509536	Soil	0.50	98.82	8.12	74.2	25	27.6	8.2	445	3.12	418.8	2.2	21.1	10.4	22.4	0.04	2.78	0.23	38	0.26	0.072
1509537	Soil	0.75	16.52	7.36	48.2	167	16.8	9.7	537	1.97	53.1	0.6	2.4	4.3	9.7	0.10	0.89	0.16	30	0.12	0.083
1509538	Soil	0.77	95.00	15.24	91.9	27	19.4	13.0	700	4.32	7.1	1.8	12.6	9.4	31.0	0.03	0.26	0.37	68	0.36	0.148
1509539	Soil	0.86	24.45	7.45	60.8	32	28.0	10.7	483	2.03	15.4	0.8	2.2	11.0	7.4	0.08	0.58	0.16	19	0.16	0.120
1509540	Soil	1.47	97.88	14.25	97.0	71	117.7	38.8	2474	5.76	4.2	0.8	4.6	4.7	34.9	0.36	0.29	0.12	170	0.82	0.204
1509541	Soil	0.23	88.70	7.60	90.4	202	93.2	44.4	2091	4.59	26.5	0.4	14.1	2.2	48.0	0.21	0.73	0.05	102	3.33	0.242
1509542	Soil	0.60	42.99	11.43	70.3	156	39.0	12.7	620	2.68	9.0	1.6	9.3	4.0	42.3	0.27	0.73	0.21	54	0.84	0.075
1509543	Soil	0.74	27.98	9.00	53.9	86	31.6	10.9	315	2.33	8.5	1.8	6.6	3.3	36.2	0.27	0.55	0.15	48	0.73	0.076
1509544	Soil	0.23	36.87	8.38	92.4	422	52.0	28.4	1081	4.90	1.8	0.6	2.8	2.0	40.2	1.19	0.08	0.03	116	0.80	0.267
1509545	Soil	0.22	30.08	12.19	78.8	74	45.2	18.8	851	3.60	1.8	2.2	1.9	21.9	18.3	0.25	0.09	0.11	52	0.38	0.154
1509546	Soil	0.70	125.85	11.21	190.0	318	88.7	26.2	1492	4.24	4.3	4.6	5.1	9.8	33.3	0.56	0.22	0.22	55	0.52	0.177
1509547	Soil	0.49	62.88	9.02	71.8	38	76.6	23.9	635	3.54	3.0	2.1	<0.2	3.6	17.5	0.10	0.19	0.10	66	0.31	0.060
1509548	Soil	19.61	157.87	17.35	421.9	1377	111.4	24.1	506	5.20	14.0	4.2	2.5	9.4	43.4	3.21	0.45	0.35	33	0.22	0.144
1509549	Soil	9.17	78.65	15.29	156.5	1142	54.8	12.8	406	3.91	6.0	2.6	4.2	13.0	39.4	0.83	0.40	0.34	39	0.27	0.090
1509550	Soil	2.43	32.62	11.24	81.2	216	30.3	10.1	336	2.63	8.4	1.6	4.8	5.5	25.2	0.17	0.47	0.22	48	0.37	0.047
1509551	Soil	0.30	97.26	12.08	67.0	86	75.3	25.2	976	3.35	22.8	0.5	2.1	2.0	16.7	0.16	0.10	0.04	88	0.57	0.114
1509552	Soil	1.01	101.83	49.93	86.9	116	221.8	36.4	1024	4.81	31.6	0.8	0.5	3.3	18.2	0.26	0.48	0.21	128	0.54	0.055
1509553	Soil	0.78	106.75	6.83	65.9	146	67.7	40.7	1737	5.68	29.0	0.5	2.4	0.7	26.4	0.24	0.26	0.03	168	0.77	0.086
1509554	Soil	1.85	113.57	90.26	211.0	84	23.4	6.5	950	1.29	43.7	0.8	7.7	23.2	7.5	0.87	1.02	1.75	13	0.15	0.037
1509555	Soil	1.23	55.09	14.74	78.3	125	26.9	12.8	845	3.37	52.2	1.9	7.3	6.0	45.5	0.19	1.09	0.23	57	0.53	0.088
1509556	Soil	2.39	81.14	15.49	119.6	177	91.8	30.9	3069	4.57	258.9	1.6	22.4	10.1	41.9	0.19	3.31	0.22	54	0.66	0.235
1509557	Soil	1.40	72.42	19.12	149.6	135	55.0	30.6	1333	5.79	86.1	1.5	4.4	13.6	23.3	0.52	0.55	0.21	72	1.11	0.202
1509558	Soil	1.67	137.55	16.23	111.8	219	89.8	39.0	2582	6.64	158.7	1.0	15.2	6.0	20.2	0.32	1.48	0.26	118	0.61	0.120
1509559	Soil	1.67	107.75	16.81	132.9	160	97.0	32.8	2292	5.18	161.1	1.5	17.9	10.4	21.5	0.31	1.56	0.25	55	0.60	0.170
1509560	Soil	1.67	104.31	23.47	201.5	144	91.7	34.5	2066	6.37	493.5	1.3	127.2	5.7	26.2	0.49	2.26	4.09	94	0.61	0.121



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Page: 3 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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
1509531	Soil	6.9	1151.6	3.03	192.7	0.024	1	0.99	0.006	0.04	<0.1	5.1	0.07	<0.02	22	0.2	0.05	2.6
1509532	Soil	1.1	71.3	2.68	34.5	0.050	<1	2.73	<0.001	<0.01	<0.1	13.0	<0.02	<0.02	<5	0.2	0.09	6.1
1509533	Soil	2.6	72.0	1.61	52.5	0.082	<1	1.99	0.002	0.02	<0.1	3.8	0.04	<0.02	11	<0.1	<0.02	4.4
1509534	Soil	3.5	225.2	2.83	61.5	0.034	1	2.54	0.001	0.01	<0.1	17.1	0.03	<0.02	22	<0.1	0.11	5.3
1509535	Soil	36.2	94.6	1.12	366.2	0.044	<1	1.72	0.002	0.25	<0.1	7.0	0.19	<0.02	22	<0.1	<0.02	4.0
1509536	Soil	34.6	23.0	0.40	160.9	0.023	<1	1.28	0.004	0.21	<0.1	5.2	0.11	<0.02	22	0.5	0.15	3.5
1509537	Soil	17.1	17.6	0.25	131.6	0.018	2	0.90	0.003	0.08	0.1	2.0	0.07	<0.02	11	<0.1	0.02	3.2
1509538	Soil	32.0	16.4	0.88	448.9	0.082	<1	2.19	0.004	0.53	<0.1	6.9	0.22	<0.02	16	<0.1	0.14	6.8
1509539	Soil	32.2	17.9	0.29	104.8	0.006	<1	0.93	0.002	0.13	<0.1	1.8	0.11	<0.02	8	<0.1	0.02	2.1
1509540	Soil	27.4	182.0	2.71	493.5	0.111	<1	3.62	0.005	0.67	<0.1	15.4	0.27	<0.02	21	0.2	<0.02	9.5
1509541	Soil	14.4	103.3	1.45	482.0	0.108	<1	2.23	0.007	0.93	<0.1	8.6	0.18	<0.02	19	<0.1	<0.02	5.4
1509542	Soil	21.5	44.5	0.72	489.3	0.057	1	1.68	0.013	0.07	0.2	4.9	0.10	<0.02	22	0.4	<0.02	4.9
1509543	Soil	16.6	40.9	0.62	407.7	0.045	<1	1.43	0.014	0.05	0.2	4.1	0.08	0.02	38	<0.1	0.02	4.0
1509544	Soil	7.8	99.9	2.27	502.4	0.092	<1	2.95	0.004	0.56	<0.1	9.6	0.33	<0.02	11	<0.1	<0.02	9.4
1509545	Soil	50.1	70.8	1.37	221.6	0.044	<1	1.95	0.003	0.16	<0.1	6.1	0.12	<0.02	14	<0.1	<0.02	6.3
1509546	Soil	36.5	59.4	1.14	411.9	0.054	<1	1.81	0.004	0.34	<0.1	5.2	0.23	<0.02	22	<0.1	0.13	5.6
1509547	Soil	12.6	123.9	1.96	236.6	0.117	<1	2.43	0.003	0.15	<0.1	5.6	0.16	<0.02	28	<0.1	0.03	5.5
1509548	Soil	20.9	24.0	0.38	177.9	0.008	<1	1.15	0.019	0.10	0.1	3.3	0.24	0.19	36	3.3	0.25	3.3
1509549	Soil	41.0	35.4	0.77	246.4	0.023	<1	1.64	0.011	0.07	<0.1	4.7	0.09	0.06	12	3.2	0.13	4.7
1509550	Soil	20.9	35.5	0.60	326.7	0.054	<1	1.71	0.009	0.05	0.2	4.1	0.09	<0.02	53	0.3	0.06	5.1
1509551	Soil	6.1	102.0	1.59	275.7	0.099	<1	1.85	0.007	0.33	0.1	8.4	0.27	<0.02	11	<0.1	0.04	5.3
1509552	Soil	11.5	279.8	1.87	314.7	0.073	<1	2.59	0.007	0.14	<0.1	15.9	0.15	<0.02	26	<0.1	<0.02	6.7
1509553	Soil	4.3	107.0	2.05	497.1	0.038	<1	2.97	0.007	0.12	<0.1	21.2	0.08	<0.02	26	<0.1	0.06	9.3
1509554	Soil	57.7	13.7	0.10	297.2	0.004	<1	0.49	0.003	0.06	<0.1	2.4	0.07	<0.02	44	<0.1	0.02	1.2
1509555	Soil	24.0	26.7	0.58	490.6	0.043	<1	1.71	0.012	0.14	0.1	5.9	0.11	<0.02	51	<0.1	<0.02	4.7
1509556	Soil	25.5	69.3	1.15	356.4	0.010	<1	2.38	0.005	0.18	<0.1	7.0	0.15	<0.02	24	<0.1	0.04	7.0
1509557	Soil	50.8	57.1	1.68	217.4	0.031	<1	2.47	0.003	0.17	<0.1	7.5	0.12	<0.02	7	<0.1	0.09	6.8
1509558	Soil	21.9	111.1	1.68	554.7	0.013	<1	2.78	0.004	0.18	<0.1	18.7	0.17	<0.02	9	0.4	0.06	7.4
1509559	Soil	33.7	45.5	0.50	475.9	0.011	<1	1.60	0.005	0.23	<0.1	10.1	0.19	<0.02	40	<0.1	0.06	4.0
1509560	Soil	20.8	93.7	1.27	661.7	0.066	<1	2.33	0.006	0.35	<0.1	15.7	0.34	<0.02	30	0.3	0.41	6.8



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Page: 4 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ252																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1509561	Soil	1.02	40.48	11.67	64.1	127	45.9	21.2	837	3.68	57.9	1.0	4.7	4.1	26.5	0.04	0.88	0.19	79	0.53	0.023
1509562	Soil	1.12	97.11	6.88	85.7	230	95.5	41.9	1394	5.43	1106.1	0.8	81.8	2.7	24.8	0.24	11.95	0.10	81	0.57	0.088
1509563	Soil	0.45	44.97	7.10	57.9	112	39.8	13.7	528	2.78	26.5	0.5	6.7	3.6	24.2	0.19	0.84	0.15	55	0.63	0.102
1509564	Soil	1.24	113.31	6.83	58.8	139	57.5	19.8	384	3.12	210.1	1.2	75.5	11.0	11.1	0.03	3.68	0.50	49	0.32	0.059
1509565	Soil	0.26	84.23	1.60	65.9	99	44.3	36.2	1074	4.94	41.9	0.5	29.5	0.8	17.3	0.12	0.59	0.04	116	0.63	0.109
1509566	Soil	0.13	86.96	9.90	88.2	100	34.7	10.6	908	3.58	6.3	0.7	12.2	8.1	19.1	0.03	0.15	0.17	57	0.32	0.052
1509567	Soil	0.27	91.22	7.76	79.0	90	36.6	12.6	1114	2.93	62.5	0.7	36.1	8.0	14.6	0.04	0.58	0.19	38	0.21	0.044
1509568	Soil	0.13	72.32	11.38	64.8	23	11.2	13.1	794	3.45	3.0	0.7	3.8	5.2	47.6	0.03	0.10	0.12	52	0.58	0.178
1509569	Soil	0.36	61.90	15.71	72.7	30	16.6	11.3	1372	3.62	7.0	1.0	7.6	6.2	40.7	0.03	0.23	0.20	50	0.48	0.136
1509570	Soil	0.22	58.53	27.73	69.1	182	10.4	10.7	1336	3.36	15.4	1.2	8.5	7.2	49.5	0.07	0.23	0.50	38	0.64	0.210
1509571	Soil	0.65	69.38	12.59	76.8	32	14.7	11.9	1155	4.03	13.8	0.8	10.7	6.2	45.7	0.04	0.24	0.49	58	0.53	0.156
1509572	Soil	0.67	50.02	7.64	96.5	54	38.4	11.4	341	3.08	8.7	1.2	2.3	10.1	8.6	0.09	0.23	0.28	29	0.14	0.080
1509573	Soil	0.43	64.52	13.89	75.8	27	11.6	13.2	2261	3.96	5.3	1.0	3.7	5.6	43.7	0.04	0.32	0.12	64	0.49	0.159
1509574	Soil	1.40	54.26	10.04	79.4	36	14.4	10.7	1790	3.43	3.6	1.6	4.0	8.0	24.2	0.03	0.18	0.30	39	0.23	0.099
1509575	Soil	1.77	64.93	11.42	96.6	70	37.6	13.3	552	4.02	16.9	2.5	3.8	14.3	18.3	0.04	0.31	0.36	40	0.10	0.062
1509576	Soil	1.72	65.55	11.71	99.9	67	38.9	13.2	511	4.07	17.3	2.6	5.2	14.9	18.6	0.05	0.33	0.37	39	0.10	0.068
1509577	Soil	0.49	31.30	9.70	84.4	39	34.9	13.9	408	3.10	9.9	1.2	1.5	11.3	7.7	0.11	0.26	0.14	36	0.15	0.078
1509578	Soil	0.43	35.80	9.80	89.5	40	35.0	13.1	399	3.06	16.4	1.6	4.5	11.2	14.4	0.10	0.39	0.13	32	0.23	0.069
1509579	Soil	0.75	33.13	10.18	86.6	58	31.5	10.3	167	3.15	45.9	2.3	11.9	11.5	21.7	0.06	0.94	0.16	28	0.23	0.064
1509580	Soil	1.14	44.90	11.82	99.2	61	40.0	12.9	606	3.16	38.5	2.2	8.6	10.9	18.4	0.09	0.75	0.15	26	0.28	0.084
1509581	Soil	1.51	40.52	38.62	66.3	69	21.7	6.3	235	2.07	13.2	0.9	3.2	7.5	10.6	0.10	0.39	0.27	30	0.17	0.037
1509582	Soil	1.33	19.95	11.16	63.0	118	29.6	10.0	259	3.18	17.6	0.5	0.5	3.5	10.2	0.11	0.61	0.19	62	0.10	0.018
1509583	Soil	1.97	80.16	20.31	109.3	135	124.2	36.6	1989	5.57	21.2	0.6	1.9	6.8	47.6	0.34	0.23	0.15	143	1.77	0.277
1509584	Soil	0.76	55.71	5.94	87.3	246	168.8	43.1	1198	4.74	54.9	0.2	8.3	2.9	33.8	0.12	0.34	0.08	82	2.12	0.121
1509585	Soil	0.22	240.98	2.34	39.6	43	81.1	20.7	435	2.34	1.6	0.2	2.0	0.3	7.1	0.05	0.12	0.06	66	0.20	0.017
1509586	Soil	0.88	36.56	8.77	93.2	55	36.6	13.0	178	2.99	60.6	2.6	20.8	11.0	21.3	0.11	0.97	0.13	21	0.30	0.078
1509587	Soil	1.11	67.92	9.93	120.3	61	32.7	8.7	546	2.89	38.1	1.9	16.2	8.6	8.4	0.12	0.88	0.25	33	0.10	0.036
1509588	Soil	0.68	20.44	7.86	56.7	47	25.3	5.4	147	2.03	21.9	0.8	3.4	3.8	5.7	0.12	0.71	0.11	32	0.06	0.017
1509589	Soil	0.23	264.39	1.32	113.0	30	80.8	23.0	587	2.93	0.9	0.1	0.5	0.1	5.1	0.04	0.05	0.03	68	0.12	0.004
1509590	Soil	0.06	17.71	0.90	15.2	14	58.0	14.4	225	1.61	0.5	<0.1	<0.2	0.2	4.0	<0.01	0.04	<0.02	36	0.11	0.002



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Project: MICHIE
Report Date: September 21, 2016

Page: 4 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	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	5	0.1	0.02	0.1	0.1
1509561	Soil	17.7	86.5	0.98	322.8	0.066	1	2.30	0.012	0.11	<0.1	8.6	0.11	<0.02	20	<0.1	0.05	6.6
1509562	Soil	14.8	104.7	1.17	305.8	0.024	<1	2.24	0.006	0.25	<0.1	17.3	0.40	0.03	126	0.2	0.02	5.6
1509563	Soil	13.9	57.3	0.88	174.1	0.054	<1	1.33	0.012	0.14	0.2	6.2	0.10	<0.02	31	<0.1	0.02	4.0
1509564	Soil	33.6	52.8	0.57	157.2	0.009	<1	1.42	0.004	0.08	0.1	7.3	0.11	<0.02	24	<0.1	0.41	3.9
1509565	Soil	5.5	38.0	1.83	253.6	0.061	<1	2.36	0.010	0.33	<0.1	18.2	0.16	<0.02	43	0.2	<0.02	7.2
1509566	Soil	26.9	34.5	0.68	270.5	0.042	<1	1.59	0.004	0.34	<0.1	4.5	0.13	<0.02	15	0.2	0.08	5.4
1509567	Soil	25.7	18.9	0.48	186.4	0.007	<1	1.27	0.002	0.16	<0.1	4.6	0.12	<0.02	13	0.2	0.10	3.6
1509568	Soil	21.7	12.5	0.80	392.1	0.059	<1	1.72	0.004	0.50	<0.1	5.7	0.20	<0.02	<5	0.2	0.06	5.1
1509569	Soil	24.6	15.9	0.66	548.2	0.068	<1	1.67	0.004	0.44	<0.1	5.0	0.22	<0.02	11	0.3	0.08	4.8
1509570	Soil	25.9	11.4	0.47	409.7	0.025	<1	1.39	0.004	0.31	<0.1	5.1	0.14	<0.02	<5	<0.1	0.13	3.7
1509571	Soil	24.0	13.0	0.72	614.2	0.069	<1	1.85	0.006	0.45	<0.1	6.0	0.18	<0.02	17	0.2	0.12	5.8
1509572	Soil	30.7	20.9	0.40	224.1	0.013	<1	1.31	0.003	0.21	<0.1	2.7	0.12	<0.02	<5	0.5	0.12	2.8
1509573	Soil	26.5	11.2	0.75	1096.5	0.070	<1	1.84	0.005	0.52	<0.1	7.1	0.26	<0.02	10	0.2	0.05	5.5
1509574	Soil	25.1	9.8	0.62	648.6	0.060	<1	1.68	0.003	0.33	<0.1	5.8	0.20	<0.02	8	0.4	0.09	4.3
1509575	Soil	47.3	25.3	0.38	302.7	0.004	<1	1.57	0.003	0.14	<0.1	4.2	0.10	<0.02	8	2.1	0.10	3.7
1509576	Soil	49.2	25.8	0.39	316.6	0.004	<1	1.58	0.003	0.14	<0.1	4.2	0.10	<0.02	7	2.0	0.08	3.7
1509577	Soil	36.3	24.3	0.53	135.6	0.017	<1	1.50	0.003	0.26	<0.1	3.4	0.22	<0.02	7	0.3	0.06	3.6
1509578	Soil	36.6	24.7	0.51	309.4	0.011	<1	1.30	0.003	0.18	<0.1	3.8	0.13	<0.02	10	0.2	0.04	3.3
1509579	Soil	30.8	26.3	0.56	355.1	0.007	<1	1.33	0.004	0.12	<0.1	3.0	0.11	0.02	9	0.4	0.05	3.5
1509580	Soil	36.3	22.0	0.37	367.7	0.006	<1	1.29	0.003	0.13	<0.1	3.9	0.11	<0.02	10	0.5	0.07	3.3
1509581	Soil	26.5	27.4	0.40	210.9	0.023	<1	0.99	0.005	0.08	<0.1	2.7	0.09	<0.02	20	0.2	0.02	3.0
1509582	Soil	10.0	39.3	0.48	266.9	0.035	<1	2.20	0.006	0.05	0.1	3.5	0.11	<0.02	16	0.3	0.05	5.8
1509583	Soil	34.9	155.2	2.17	550.0	0.118	<1	3.07	0.004	0.55	<0.1	14.8	0.32	<0.02	15	0.6	0.04	8.9
1509584	Soil	15.3	205.8	2.92	178.5	0.013	<1	3.24	0.003	0.12	<0.1	10.6	0.10	<0.02	<5	0.3	0.04	8.0
1509585	Soil	1.2	203.0	1.69	99.9	0.023	<1	1.49	0.004	0.01	<0.1	9.1	0.03	<0.02	10	0.2	0.04	3.9
1509586	Soil	29.3	20.9	0.34	416.4	0.003	<1	1.20	0.003	0.13	<0.1	3.4	0.10	<0.02	13	0.6	0.05	2.9
1509587	Soil	39.5	27.5	0.40	369.9	0.007	<1	1.28	0.004	0.11	<0.1	5.9	0.18	<0.02	39	0.4	0.05	3.9
1509588	Soil	15.0	26.7	0.23	108.5	0.023	<1	0.99	0.004	0.04	<0.1	3.1	0.08	<0.02	15	0.2	0.04	2.8
1509589	Soil	0.6	102.3	1.87	33.2	0.045	<1	1.85	0.002	<0.01	<0.1	9.7	<0.02	<0.02	6	0.2	0.06	3.8
1509590	Soil	0.5	186.4	1.40	18.5	0.037	<1	1.28	0.002	<0.01	<0.1	4.2	<0.02	<0.02	<5	<0.1	<0.02	2.3



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Page: 5 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1509591	Soil	0.77	104.67	5.21	80.6	25	52.2	15.7	871	3.59	18.0	0.7	1.3	11.5	13.9	0.11	0.22	0.17	39	0.55	0.171
1509592	Soil	1.39	85.60	17.79	130.1	99	94.5	24.4	1608	5.82	637.7	0.9	18.6	6.0	18.2	0.24	8.51	0.19	77	0.28	0.071
1509593	Soil	0.82	128.30	13.73	51.4	48	45.0	16.1	632	2.51	6.2	1.2	4.7	11.0	14.2	0.08	0.24	0.20	44	0.33	0.117
1509594	Soil	0.88	21.93	7.63	81.4	207	26.7	10.8	379	2.66	9.0	0.7	<0.2	6.5	10.3	0.13	0.40	0.17	36	0.13	0.086
1509595	Soil	2.90	6.72	13.11	50.0	64	94.3	30.9	2812	4.20	8.8	0.9	2.5	6.0	52.3	0.12	0.35	0.09	86	1.21	0.322
1509596	Soil	0.78	59.93	8.66	69.5	112	58.0	19.8	939	3.41	11.1	0.4	6.9	4.6	16.8	0.16	0.41	0.12	76	0.62	0.124
1509597	Soil	0.93	33.15	10.39	73.5	119	37.3	12.9	422	2.69	10.1	1.3	6.0	4.0	37.2	0.28	0.74	0.22	53	0.72	0.089
1509598	Soil	0.83	27.29	9.49	67.9	104	27.5	11.9	310	2.69	6.1	1.0	1.3	5.3	20.2	0.11	0.53	0.15	50	0.31	0.050
1509599	Soil	2.32	62.50	15.67	74.5	148	38.1	13.4	592	3.09	9.8	2.2	3.8	6.0	20.3	0.12	0.66	0.38	55	0.12	0.030
1509600	Soil	1.17	66.92	12.21	88.9	77	62.5	22.0	714	4.23	6.7	2.3	5.0	14.4	17.0	0.36	0.34	0.54	34	0.30	0.090
1509601	Soil	0.83	150.08	13.53	58.5	118	93.9	24.7	1869	3.93	23.0	0.7	0.6	10.0	10.3	0.20	0.24	0.22	80	0.37	0.103
1509602	Soil	0.88	75.11	9.16	71.0	82	105.8	22.0	837	3.34	17.7	1.5	5.0	2.8	28.0	0.18	0.64	0.18	78	0.67	0.052
1509603	Soil	1.11	87.10	14.10	102.4	183	19.8	15.2	1622	4.63	343.4	2.6	27.3	10.0	50.3	0.13	2.23	0.16	50	0.54	0.190
1509604	Soil	0.67	27.09	7.68	57.7	73	22.2	8.2	277	2.36	25.2	1.2	12.1	5.0	33.0	0.16	0.74	0.12	43	0.50	0.094
1509605	Soil	0.91	34.08	8.44	79.1	75	31.7	11.5	734	2.66	156.2	1.4	<0.2	10.1	17.1	0.12	2.29	0.09	27	0.29	0.088
1509606	Soil	1.01	40.68	10.96	82.9	112	34.1	12.3	547	2.85	43.0	0.8	7.7	6.1	28.5	0.13	0.90	0.17	47	0.44	0.075
1509607	Soil	2.71	54.07	16.50	68.1	102	46.6	14.3	598	3.53	36.0	1.9	4.4	7.0	21.7	0.08	1.05	0.20	65	0.36	0.040
1509608	Soil	1.79	100.60	15.54	104.1	31	38.5	18.2	1752	4.27	15.3	1.3	2.7	10.3	38.2	0.06	0.53	0.29	64	0.46	0.143
1509609	Soil	0.81	40.93	9.04	62.9	60	47.4	15.7	428	2.93	7.7	1.0	3.4	4.0	36.9	0.08	0.52	0.14	59	0.66	0.053
1509610	Soil	0.90	56.65	12.29	76.8	114	55.4	17.6	558	3.64	11.7	1.6	4.9	4.5	36.7	0.13	0.80	0.14	74	0.74	0.083
1509611	Soil	0.67	55.78	8.65	63.8	82	44.3	12.6	486	3.21	12.7	1.6	2.7	5.2	30.9	0.09	0.70	0.13	62	0.59	0.076
1509612	Soil	0.63	101.35	4.55	73.5	265	105.6	34.1	1662	4.92	59.9	0.7	22.2	2.6	27.4	0.15	1.35	0.03	118	0.77	0.129
1509613	Soil	0.74	103.92	4.13	76.6	331	104.2	33.6	1614	5.08	57.6	0.7	25.3	2.5	28.4	0.20	1.24	0.04	122	0.80	0.136
1509614	Soil	1.75	54.99	12.25	73.9	92	44.8	11.2	998	2.84	63.2	0.9	16.4	7.2	23.4	0.12	1.79	0.19	41	0.42	0.100
1509615	Soil	2.18	115.56	12.12	94.8	230	46.9	16.8	747	3.69	769.1	1.1	51.5	10.5	13.1	0.11	10.62	0.26	32	0.07	0.038
1509616	Soil	0.74	39.22	8.80	69.3	76	57.4	19.4	654	3.59	193.9	0.7	11.8	4.3	26.0	0.15	2.38	0.11	74	0.56	0.074
1509617	Soil	0.52	52.19	9.15	65.4	109	48.4	16.0	582	3.15	10.1	1.3	2.8	4.1	42.5	0.19	0.53	0.16	66	0.80	0.071
1509618	Soil	0.53	55.93	9.73	65.4	139	47.0	13.3	557	3.29	10.8	1.2	7.5	5.2	41.1	0.11	0.69	0.24	68	0.68	0.075
1509619	Soil	1.31	64.96	5.98	88.7	80	99.7	32.4	1812	5.06	7.6	0.5	4.5	9.9	21.4	0.18	0.55	0.11	67	1.52	0.233
1509620	Soil	0.24	372.74	10.15	65.6	212	122.1	39.1	2343	4.74	12.5	0.3	4.2	2.6	22.5	0.23	0.34	0.04	124	1.15	0.174



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Page: 5 of 7

Part: 2 of 2

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		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	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	5	0.1	0.02	0.1	0.1
1509591	Soil	36.8	35.3	0.78	269.3	0.019	<1	1.37	0.002	0.12	<0.1	5.2	0.11	<0.02	15	0.4	0.10	3.4
1509592	Soil	18.5	82.6	0.73	442.2	0.009	<1	2.03	0.004	0.14	<0.1	13.1	0.27	<0.02	246	0.6	0.08	5.8
1509593	Soil	34.9	38.1	0.69	139.6	0.017	<1	1.30	0.002	0.17	<0.1	4.9	0.10	<0.02	10	0.6	0.10	3.9
1509594	Soil	22.6	23.8	0.43	193.4	0.013	<1	1.57	0.003	0.10	<0.1	2.3	0.09	<0.02	9	0.2	0.06	4.2
1509595	Soil	52.6	77.1	1.81	563.4	0.041	<1	2.44	0.004	0.49	<0.1	13.0	0.23	<0.02	14	0.1	<0.02	6.7
1509596	Soil	19.5	65.5	1.11	325.3	0.072	<1	2.01	0.009	0.32	0.1	7.4	0.14	<0.02	31	0.3	0.05	5.6
1509597	Soil	18.9	46.8	0.73	385.2	0.052	3	1.53	0.015	0.07	0.2	4.3	0.06	0.02	33	0.5	0.07	4.0
1509598	Soil	18.3	44.5	0.82	264.9	0.072	2	1.65	0.009	0.04	0.2	4.7	0.07	<0.02	22	0.3	<0.02	4.6
1509599	Soil	19.8	38.5	0.61	340.7	0.061	2	1.76	0.007	0.07	0.1	6.3	0.10	0.04	56	1.3	0.11	4.7
1509600	Soil	42.3	42.9	0.97	184.1	0.024	2	2.10	0.005	0.06	<0.1	5.0	0.07	<0.02	18	0.6	0.21	4.2
1509601	Soil	30.7	67.4	1.20	266.1	0.038	3	1.76	0.002	0.17	<0.1	7.0	0.11	<0.02	6	0.4	0.11	4.9
1509602	Soil	12.7	166.1	1.52	343.5	0.042	3	2.15	0.009	0.04	0.2	10.2	0.06	<0.02	25	0.5	0.07	5.6
1509603	Soil	27.4	17.5	0.46	337.6	0.023	4	1.93	0.005	0.25	<0.1	7.1	0.15	<0.02	67	0.4	0.08	4.0
1509604	Soil	18.5	22.3	0.44	304.7	0.049	<1	1.03	0.016	0.07	0.5	3.2	0.06	<0.02	35	0.4	0.05	2.9
1509605	Soil	31.7	20.3	0.40	241.9	0.012	<1	1.32	0.003	0.19	<0.1	3.8	0.10	<0.02	14	0.8	0.18	3.3
1509606	Soil	19.7	30.6	0.56	365.5	0.052	2	1.56	0.021	0.08	0.3	4.7	0.10	<0.02	41	0.2	<0.02	4.2
1509607	Soil	27.9	51.0	0.50	430.9	0.078	2	2.15	0.008	0.07	0.2	6.2	0.12	<0.02	34	1.4	0.12	5.7
1509608	Soil	29.8	27.0	0.85	426.3	0.041	<1	2.04	0.004	0.23	<0.1	5.7	0.17	<0.02	20	0.2	0.06	5.6
1509609	Soil	16.6	69.1	0.93	337.3	0.061	1	1.84	0.010	0.09	<0.1	5.2	0.08	<0.02	39	0.3	0.04	5.3
1509610	Soil	19.8	85.1	1.13	459.4	0.075	2	2.22	0.010	0.13	0.1	8.6	0.10	<0.02	46	<0.1	0.12	5.8
1509611	Soil	21.0	63.2	0.84	446.2	0.064	4	1.90	0.011	0.10	0.2	5.6	0.10	<0.02	54	0.3	0.08	5.2
1509612	Soil	17.5	166.8	1.72	399.3	0.020	<1	2.75	0.004	0.18	<0.1	14.5	0.20	<0.02	31	0.4	0.06	7.6
1509613	Soil	16.4	167.6	1.78	403.7	0.019	<1	2.86	0.004	0.17	<0.1	15.3	0.21	<0.02	28	0.5	<0.02	8.0
1509614	Soil	20.2	34.9	0.44	351.8	0.025	2	1.44	0.007	0.08	0.1	4.3	0.14	<0.02	28	0.3	0.08	3.4
1509615	Soil	26.7	23.5	0.26	209.1	0.011	4	1.25	0.003	0.10	<0.1	3.3	0.15	<0.02	57	1.1	0.07	3.5
1509616	Soil	15.8	88.9	0.89	330.6	0.023	3	2.03	0.007	0.10	<0.1	7.6	0.14	<0.02	16	0.6	0.08	5.6
1509617	Soil	19.0	70.0	0.89	443.7	0.059	2	2.05	0.012	0.08	0.1	7.0	0.07	<0.02	47	0.2	0.02	5.2
1509618	Soil	21.8	60.5	0.86	444.3	0.071	1	2.19	0.014	0.10	0.1	6.9	0.10	<0.02	39	<0.1	0.04	6.0
1509619	Soil	46.6	89.9	2.49	151.0	0.013	2	3.21	0.003	0.13	<0.1	9.3	0.10	<0.02	24	0.3	0.04	6.2
1509620	Soil	19.3	250.5	2.31	245.8	0.072	<1	2.77	0.004	0.40	<0.1	20.0	0.16	<0.02	31	<0.1	0.04	6.6



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Project: MICHIE
Report Date: September 21, 2016

Page: 6 of 7

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1509621	Soil	0.23	34.30	8.16	65.0	63	118.7	35.2	1574	4.44	2.8	0.4	6.3	3.0	24.2	0.25	0.19	0.05	97	1.05	0.223
1509622	Soil	0.49	44.79	5.23	84.6	44	34.0	9.2	197	2.79	33.0	1.7	15.8	12.7	10.1	0.06	0.64	0.13	18	0.14	0.056
1509623	Soil	0.81	67.73	5.68	110.9	30	49.3	12.9	453	3.80	5.0	1.8	9.7	14.2	9.8	0.10	0.34	0.23	22	0.04	0.030
1509624	Soil	0.97	85.73	7.05	97.9	16	38.3	10.8	292	4.00	15.9	1.3	11.2	13.2	21.8	0.03	1.35	0.24	19	0.03	0.042
1509625	Soil	0.86	103.87	6.44	119.0	29	49.5	11.9	394	4.18	21.7	1.8	12.3	16.6	5.6	0.06	0.54	0.14	23	0.03	0.029
1509626	Soil	0.05	86.84	1.03	75.6	114	93.8	34.7	1082	3.82	0.7	<0.1	3.7	0.8	21.1	0.08	0.05	<0.02	64	0.60	0.125
1509627	Soil	0.75	75.58	8.28	67.2	77	52.1	14.5	604	2.98	8.6	0.7	10.1	4.3	37.3	0.06	0.54	0.13	71	0.55	0.119
1509628	Soil	1.46	42.32	9.24	71.8	84	39.0	16.0	581	3.69	19.7	0.7	5.9	4.2	31.0	0.34	0.94	0.16	62	0.58	0.107
1509629	Soil	1.06	29.14	9.21	73.7	133	28.1	9.6	425	2.52	10.1	0.7	4.2	3.3	36.4	0.27	0.85	0.18	44	1.10	0.070
1509630	Soil	1.02	32.47	10.30	73.4	128	31.0	11.4	516	2.81	10.0	0.7	3.7	4.1	31.0	0.20	0.78	0.19	52	0.59	0.066
1509631	Soil	0.80	32.81	9.59	62.0	133	27.5	10.6	513	2.70	9.2	1.0	3.6	3.9	33.0	0.14	0.62	0.17	50	0.51	0.065
1509632	Soil	0.86	123.71	11.37	104.4	67	87.5	35.9	1616	5.83	20.4	1.4	12.6	7.0	22.5	0.13	0.43	0.19	111	0.45	0.129
1509633	Soil	0.90	97.45	6.88	107.0	32	65.7	16.5	1261	4.36	14.5	1.7	14.8	8.4	11.0	0.08	0.51	0.21	64	0.14	0.032
1509634	Soil	1.22	78.93	6.86	94.7	32	65.3	17.0	998	3.71	39.0	1.7	10.3	7.5	10.1	0.12	1.22	0.13	76	0.12	0.027
1509635	Soil	1.14	44.95	12.76	89.3	32	50.6	6.3	635	2.69	15.2	1.9	4.4	6.1	6.3	0.12	0.89	0.16	45	0.06	0.020
1509636	Soil	3.34	103.57	13.16	118.8	161	93.2	16.2	2602	3.72	14.8	2.1	4.2	9.4	8.8	0.24	0.71	0.25	59	0.10	0.028
1509637	Soil	0.79	42.67	9.11	68.9	66	54.0	14.4	404	3.14	8.4	1.1	2.4	4.7	19.0	0.07	0.53	0.15	55	0.31	0.036
1509638	Soil	0.73	49.01	7.07	69.6	80	98.8	23.5	774	3.66	9.6	1.0	26.3	4.4	14.0	0.12	0.34	0.12	69	0.27	0.050
1509639	Soil	0.83	51.48	8.27	58.0	20	39.4	15.5	547	2.54	19.0	1.5	4.1	8.4	10.2	0.07	0.39	0.20	31	0.11	0.026
1509640	Soil	0.98	67.85	12.81	80.1	20	57.5	15.8	1257	2.52	14.9	1.3	14.5	9.9	8.3	0.07	0.39	0.25	26	0.09	0.022
1509641	Soil	0.93	72.81	12.90	84.9	25	63.3	17.4	1387	2.84	13.4	1.4	16.4	10.1	9.3	0.07	0.43	0.28	30	0.10	0.022
1509642	Soil	1.46	48.22	5.65	51.5	72	28.8	12.4	762	2.60	9.5	1.0	1.1	7.8	6.6	0.06	0.28	0.15	33	0.07	0.029
1509643	Soil	0.78	56.39	6.90	88.4	74	57.4	21.4	982	4.29	4.1	1.6	3.7	9.8	21.7	0.10	0.35	0.13	50	0.60	0.208
1509644	Soil	1.53	95.73	8.44	88.9	133	40.9	13.6	430	3.31	9.9	1.1	4.4	7.0	6.9	0.09	0.28	0.25	45	0.09	0.021
1509645	Soil	1.03	300.97	9.79	100.6	65	99.7	26.5	631	3.36	0.7	0.4	0.7	0.2	2.1	0.10	0.08	0.16	56	0.07	0.011
1509646	Soil	0.66	153.81	4.67	64.8	133	65.7	15.8	520	3.39	3.2	1.1	1.0	8.5	44.7	0.11	0.06	0.07	94	0.27	0.093
1509647	Soil	0.56	160.36	4.99	210.7	198	363.9	56.2	2442	7.53	503.6	0.3	2.4	0.3	5.5	0.41	0.46	0.06	87	0.22	0.020
1509648	Soil	0.40	67.18	17.06	68.1	55	92.5	30.8	1527	4.26	24.6	0.3	1.7	3.0	18.3	0.20	0.24	0.15	102	0.88	0.257
1509649	Soil	0.41	156.64	4.32	61.4	18	71.5	35.9	815	4.63	2.4	0.4	1.7	0.4	9.8	0.06	0.08	0.02	92	0.38	0.075
1509650	Soil	0.24	72.81	3.65	41.3	34	42.4	23.1	578	3.43	2.0	0.1	<0.2	0.4	13.0	0.03	0.07	<0.02	64	0.46	0.074



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Report Date: September 21, 2016

Page: 6 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1
1509621	Soil	19.1	180.4	1.69	271.7	0.061	2	2.41	0.006	0.41	<0.1	15.8	0.12	<0.02	34	<0.1	0.03	6.1
1509622	Soil	35.9	22.9	0.24	199.3	0.002	1	1.13	0.003	0.08	<0.1	3.2	0.09	<0.02	37	0.2	0.04	2.5
1509623	Soil	39.4	18.5	0.18	208.9	0.003	<1	0.83	0.003	0.06	<0.1	3.7	0.08	<0.02	26	0.6	0.07	2.1
1509624	Soil	39.2	18.1	0.24	232.2	0.001	<1	1.32	0.002	0.07	<0.1	2.6	0.12	0.02	15	0.4	0.05	2.8
1509625	Soil	48.0	32.5	0.40	388.7	0.001	<1	1.81	0.003	0.10	<0.1	6.1	0.09	<0.02	28	0.2	0.08	3.3
1509626	Soil	4.4	142.3	1.95	291.9	0.188	<1	2.51	0.006	1.18	<0.1	9.8	0.21	<0.02	13	<0.1	0.05	5.3
1509627	Soil	16.6	60.0	0.82	249.9	0.068	3	1.69	0.009	0.16	<0.1	6.3	0.12	<0.02	45	<0.1	0.09	4.6
1509628	Soil	14.6	53.2	0.79	414.6	0.074	<1	1.45	0.017	0.09	0.2	4.8	0.06	<0.02	15	0.7	0.05	3.8
1509629	Soil	13.4	28.1	0.68	455.5	0.042	2	1.23	0.019	0.06	0.3	4.0	0.07	<0.02	39	0.4	0.03	3.7
1509630	Soil	15.9	37.7	0.64	441.0	0.053	2	1.56	0.019	0.07	0.2	5.3	0.09	<0.02	38	0.3	0.04	4.7
1509631	Soil	17.7	35.2	0.60	454.8	0.046	1	1.56	0.013	0.06	0.2	5.3	0.09	<0.02	49	0.4	0.04	4.7
1509632	Soil	18.2	105.8	1.27	442.3	0.006	<1	2.06	0.005	0.06	<0.1	17.6	0.12	<0.02	24	0.3	0.05	7.1
1509633	Soil	33.5	57.0	0.80	429.1	0.018	<1	1.62	0.004	0.10	<0.1	9.2	0.16	<0.02	28	0.4	0.08	4.9
1509634	Soil	40.2	41.2	0.29	365.3	0.015	<1	0.86	0.003	0.15	<0.1	7.1	0.22	<0.02	35	0.4	0.06	2.6
1509635	Soil	21.4	29.4	0.12	308.5	0.008	<1	0.63	0.003	0.05	<0.1	5.3	0.09	<0.02	23	0.3	0.06	1.8
1509636	Soil	37.2	43.0	0.42	624.2	0.014	<1	1.25	0.005	0.06	0.1	8.5	0.15	<0.02	38	0.3	0.11	3.8
1509637	Soil	17.1	63.6	0.82	364.5	0.065	<1	1.84	0.008	0.07	<0.1	6.3	0.09	<0.02	32	0.2	0.04	5.0
1509638	Soil	14.8	107.2	0.98	289.3	0.091	1	1.77	0.006	0.21	<0.1	7.5	0.09	<0.02	21	<0.1	0.04	5.2
1509639	Soil	26.7	27.8	0.31	253.8	0.020	<1	0.91	0.003	0.06	<0.1	3.8	0.08	<0.02	14	0.3	0.26	2.6
1509640	Soil	29.9	18.3	0.25	291.3	0.006	<1	0.76	0.003	0.05	<0.1	4.0	0.08	<0.02	19	0.1	0.09	2.2
1509641	Soil	32.8	22.4	0.29	330.8	0.009	<1	0.93	0.004	0.05	<0.1	4.6	0.09	<0.02	21	0.2	0.09	2.6
1509642	Soil	23.9	28.2	0.28	211.0	0.012	<1	1.08	0.003	0.04	<0.1	2.5	0.10	<0.02	11	0.3	0.07	2.5
1509643	Soil	38.5	53.7	0.80	302.7	0.015	1	1.64	0.005	0.11	<0.1	7.0	0.08	<0.02	21	0.2	0.06	3.8
1509644	Soil	29.3	47.1	1.19	116.6	0.027	<1	2.02	0.004	0.03	<0.1	5.5	0.06	<0.02	21	0.8	0.13	5.1
1509645	Soil	0.9	180.2	2.28	25.4	0.064	<1	2.05	0.001	<0.01	<0.1	5.2	<0.02	<0.02	13	0.5	0.22	3.9
1509646	Soil	24.0	113.1	1.35	367.6	0.097	<1	1.57	0.006	0.36	<0.1	14.1	0.20	0.13	13	0.7	0.12	5.4
1509647	Soil	1.6	290.7	2.47	198.4	0.003	<1	2.32	0.002	0.03	0.2	22.7	0.04	<0.02	10	0.2	0.18	4.8
1509648	Soil	19.2	190.3	1.66	562.2	0.076	<1	2.36	0.006	0.69	<0.1	14.6	0.40	<0.02	12	0.1	0.05	6.7
1509649	Soil	2.2	87.7	1.77	234.1	0.086	<1	2.34	0.009	0.24	<0.1	10.9	0.24	<0.02	8	0.3	0.08	5.7
1509650	Soil	1.8	71.9	1.56	134.1	0.072	<1	1.85	0.013	0.07	<0.1	6.0	0.09	<0.02	<5	<0.1	0.02	4.2



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Page: 7 of 7

Part: 1 of 2

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WHI16000239.1

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1509651	Soil	2.87	43.29	10.83	98.0	322	40.8	11.1	417	2.83	8.0	1.7	3.3	5.6	18.5	0.37	0.54	0.20	45	0.27	0.047
1509652	Soil	10.39	59.34	22.03	132.0	404	35.9	8.3	268	4.15	3.9	3.6	5.0	9.1	25.6	0.48	0.40	0.53	34	0.19	0.086
1509751	Soil	0.60	117.05	6.18	77.8	135	87.7	43.5	1534	6.61	48.8	0.4	3.6	0.9	9.4	0.15	0.31	0.16	60	1.50	0.025
1509752	Soil	0.52	53.16	7.89	62.0	75	78.4	17.2	634	2.83	11.4	0.4	2.2	2.2	15.8	0.14	0.43	0.10	68	0.47	0.050
1509753	Soil	0.49	39.28	8.87	56.9	131	42.9	12.9	474	2.81	15.7	1.1	2.3	2.7	28.7	0.11	0.60	0.14	56	0.80	0.071
1509754	Soil	1.03	45.54	8.56	104.5	139	326.0	27.9	912	3.40	64.8	0.5	5.9	3.0	22.5	0.32	1.11	0.13	58	0.54	0.054
1509755	Soil	1.49	48.54	14.47	72.7	289	25.3	8.8	416	3.51	698.9	1.2	107.4	6.5	34.6	0.09	7.03	0.24	42	0.23	0.048
1509756	Soil	1.45	60.55	11.77	81.2	36	48.4	15.2	349	3.25	238.6	1.9	15.8	11.9	18.7	0.10	1.88	0.23	37	0.23	0.074
1509757	Soil	0.56	33.42	7.69	84.1	22	29.2	7.8	200	2.75	148.6	1.2	6.0	10.7	12.8	0.06	0.74	0.14	22	0.23	0.057
1509758	Soil	0.76	71.68	10.51	68.3	81	23.9	11.6	1030	2.87	92.4	1.1	10.9	7.9	26.6	0.04	0.67	0.14	44	0.34	0.101
1509759	Soil	0.90	53.30	14.59	90.9	55	47.8	18.2	913	3.31	83.4	1.2	10.4	10.6	29.5	0.13	1.37	0.20	54	0.37	0.103
1509760	Soil	1.60	99.17	13.34	98.7	105	17.6	15.4	2315	4.47	128.8	2.1	59.6	9.1	75.0	0.09	1.65	0.18	40	0.60	0.198
1509761	Soil	1.64	99.86	12.75	97.8	150	18.9	15.6	2433	4.50	136.0	2.1	70.8	9.0	78.4	0.11	1.38	0.19	38	0.58	0.181
1509762	Soil	1.42	96.68	10.42	122.2	141	107.6	56.9	3572	7.40	246.3	1.7	38.9	4.0	31.8	0.47	1.99	0.09	166	0.67	0.135
1509763	Soil	0.78	80.17	10.77	76.9	70	34.4	11.9	971	3.15	21.6	1.1	9.0	7.8	18.5	0.03	0.85	0.14	39	0.21	0.046
1509764	Soil	0.84	117.64	14.00	89.0	22	63.1	21.6	1821	4.42	10.7	1.6	11.5	8.2	31.7	0.12	0.43	0.19	101	0.50	0.128
1509765	Soil	1.11	99.90	11.96	95.8	69	91.9	35.0	1592	4.95	8.2	0.7	3.7	5.7	25.5	0.20	0.57	0.13	153	0.73	0.155
1509766	Soil	1.11	121.25	7.55	97.7	37	55.0	16.3	798	4.01	10.7	1.0	2.0	9.4	16.9	0.07	0.54	0.20	74	0.29	0.043
1509767	Soil	0.90	48.19	11.78	64.9	53	50.2	16.8	489	3.70	2.6	1.5	<0.2	9.2	17.4	0.23	0.15	0.12	65	0.36	0.155
1509768	Soil	0.07	30.96	5.85	33.9	269	65.9	12.4	539	1.92	1.2	1.8	2.1	11.7	18.9	0.63	0.05	0.03	33	0.29	0.094
1509769	Soil	0.34	26.08	11.32	42.8	145	31.7	9.9	461	1.66	2.8	2.8	3.2	12.5	6.9	0.52	0.09	0.17	20	0.09	0.017
1509770	Soil	1.39	42.03	28.47	316.5	103	36.9	16.2	705	3.51	5.9	5.9	2.1	10.6	22.7	0.92	0.22	0.27	62	0.47	0.145
1509771	Soil	0.82	32.72	14.91	81.4	44	23.0	9.5	332	2.63	2.1	1.7	<0.2	11.6	6.6	0.18	0.14	0.13	34	0.06	0.017
1509772	Soil	0.13	49.48	2.25	48.9	88	70.3	23.8	612	2.83	0.6	0.2	1.4	0.6	15.0	0.04	0.06	<0.02	49	0.43	0.106
1509773	Soil	0.95	55.11	12.80	69.9	208	58.5	21.0	766	3.34	4.8	0.8	0.8	6.3	20.0	0.44	0.36	0.16	57	0.44	0.084
1509774	Soil	0.86	41.48	10.92	68.3	196	43.3	12.7	310	3.30	4.3	1.4	4.9	8.1	11.6	0.22	0.29	0.20	41	0.17	0.040
1509775	Soil	26.38	148.87	14.48	313.9	872	112.1	25.1	1372	3.71	<0.1	1.6	1.3	13.1	19.1	5.07	0.24	0.28	22	0.43	0.163
1509776	Soil	6.36	83.14	13.96	140.4	598	56.7	13.0	753	3.14	6.0	1.4	3.4	7.3	20.6	0.62	0.59	0.25	40	0.38	0.087



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Project: MICHIE
Report Date: September 21, 2016

Page: 7 of 7

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000239.1

Method	Analyte	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
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.01	0.02	5	0.1	0.02	0.1	0.1
1509651	Soil	20.9	37.4	0.63	304.6	0.045	<1	1.55	0.009	0.05	0.2	5.1	0.09	<0.02	29	0.7	0.05	4.5
1509652	Soil	29.7	25.6	0.47	232.7	0.020	<1	1.27	0.011	0.05	0.4	4.6	0.07	0.04	24	2.1	0.13	3.7
1509751	Soil	2.9	67.2	1.34	181.2	0.003	<1	1.87	0.003	0.03	<0.1	9.2	0.06	<0.02	17	0.5	0.05	3.6
1509752	Soil	8.2	155.3	1.47	216.3	0.028	<1	1.63	0.010	0.04	0.2	10.0	0.07	<0.02	20	<0.1	0.04	4.2
1509753	Soil	14.1	51.8	0.75	426.9	0.039	1	1.55	0.015	0.06	0.2	6.2	0.08	<0.02	39	0.5	0.03	4.6
1509754	Soil	11.3	191.5	1.29	315.6	0.036	<1	1.76	0.015	0.06	0.2	8.2	0.14	<0.02	32	0.3	0.06	4.4
1509755	Soil	24.2	25.3	0.40	346.8	0.025	<1	1.51	0.007	0.15	0.1	5.0	0.22	0.12	50	0.6	0.07	4.4
1509756	Soil	43.7	28.9	0.52	245.2	0.016	<1	1.42	0.005	0.18	<0.1	5.5	0.18	<0.02	22	0.7	0.10	4.4
1509757	Soil	34.0	19.9	0.52	122.1	0.004	<1	1.29	0.003	0.08	<0.1	3.2	0.08	<0.02	14	0.5	0.06	3.5
1509758	Soil	23.7	15.7	0.43	274.2	0.021	<1	1.30	0.005	0.20	<0.1	4.6	0.08	<0.02	14	0.2	0.07	4.6
1509759	Soil	32.7	46.4	0.80	317.7	0.036	4	1.68	0.005	0.20	<0.1	5.9	0.14	<0.02	30	<0.1	0.11	4.5
1509760	Soil	26.9	8.7	0.61	527.2	0.015	2	1.79	0.005	0.23	<0.1	5.1	0.16	<0.02	29	0.4	0.07	4.1
1509761	Soil	23.8	8.5	0.61	488.2	0.010	<1	1.74	0.005	0.22	<0.1	4.7	0.17	0.02	26	0.3	0.07	4.3
1509762	Soil	23.8	165.0	2.14	551.7	0.024	<1	3.43	0.006	0.24	<0.1	20.2	0.19	<0.02	50	0.3	0.09	10.6
1509763	Soil	24.5	21.4	0.50	436.6	0.018	1	1.48	0.004	0.13	<0.1	3.9	0.10	<0.02	10	<0.1	0.09	3.9
1509764	Soil	27.3	75.5	1.60	587.6	0.061	<1	2.70	0.006	0.31	<0.1	8.4	0.15	<0.02	26	<0.1	0.09	7.6
1509765	Soil	23.7	147.9	2.01	582.1	0.104	2	3.15	0.008	0.43	<0.1	15.5	0.23	<0.02	24	0.3	0.04	9.9
1509766	Soil	31.6	46.1	1.04	408.7	0.045	<1	2.05	0.005	0.12	<0.1	8.2	0.11	<0.02	15	0.4	0.10	5.2
1509767	Soil	34.3	74.1	1.22	323.6	0.062	<1	1.98	0.003	0.36	<0.1	7.1	0.27	<0.02	<5	<0.1	0.04	6.7
1509768	Soil	27.3	57.9	0.82	223.5	0.069	<1	1.14	0.003	0.46	<0.1	5.3	0.29	<0.02	25	<0.1	<0.02	2.9
1509769	Soil	32.1	26.4	0.49	192.7	0.041	2	0.87	0.003	0.29	<0.1	4.0	0.22	<0.02	30	<0.1	<0.02	3.1
1509770	Soil	30.5	53.1	1.38	470.4	0.100	<1	2.14	0.004	0.65	<0.1	6.7	0.53	<0.02	<5	<0.1	0.04	6.2
1509771	Soil	28.9	31.9	1.12	140.6	0.134	<1	1.78	0.002	0.15	<0.1	4.1	0.27	<0.02	<5	<0.1	<0.02	5.0
1509772	Soil	2.1	113.6	2.16	156.2	0.108	1	2.34	0.003	0.33	<0.1	1.9	0.20	<0.02	9	<0.1	<0.02	4.3
1509773	Soil	19.9	79.3	1.48	176.9	0.081	<1	2.13	0.005	0.14	<0.1	5.5	0.15	<0.02	18	0.1	0.05	5.1
1509774	Soil	40.1	42.1	0.85	157.5	0.036	<1	2.07	0.004	0.04	0.2	3.5	0.09	<0.02	13	<0.1	0.08	5.4
1509775	Soil	48.2	21.3	0.17	89.4	0.004	<1	0.72	0.002	0.05	0.1	2.6	0.08	<0.02	23	6.9	0.21	1.9
1509776	Soil	29.7	31.8	0.54	269.6	0.031	2	1.35	0.007	0.05	0.1	3.8	0.11	<0.02	28	0.8	0.16	4.0



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Project: MICHIE
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Page: 1 of 2

Part: 1 of 2

QUALITY CONTROL REPORT WHI16000239.1

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																						
1509503	Soil	0.44	71.63	10.26	68.0	93	122.8	32.9	1269	4.38	18.5	0.3	1.5	2.5	18.5	0.17	0.40	0.06	115	0.69	0.121	
REP 1509503	QC	0.40	70.97	9.94	66.4	99	119.0	32.6	1266	4.29	18.3	0.3	1.6	2.5	17.8	0.18	0.40	0.06	112	0.67	0.111	
1509536	Soil	0.50	98.82	8.12	74.2	25	27.6	8.2	445	3.12	418.8	2.2	21.1	10.4	22.4	0.04	2.78	0.23	38	0.26	0.072	
REP 1509536	QC	0.41	97.51	8.19	74.8	18	28.8	8.8	444	3.19	426.8	2.2	20.1	10.2	21.9	0.04	2.64	0.25	38	0.27	0.070	
1509567	Soil	0.27	91.22	7.76	79.0	90	36.6	12.6	1114	2.93	62.5	0.7	36.1	8.0	14.6	0.04	0.58	0.19	38	0.21	0.044	
REP 1509567	QC	0.30	89.76	7.65	75.9	98	36.4	12.3	1106	2.93	60.3	0.7	38.1	7.7	13.8	0.04	0.58	0.19	39	0.20	0.041	
1509616	Soil	0.74	39.22	8.80	69.3	76	57.4	19.4	654	3.59	193.9	0.7	11.8	4.3	26.0	0.15	2.38	0.11	74	0.56	0.074	
REP 1509616	QC	0.80	40.19	8.86	64.3	75	59.6	17.3	647	3.56	190.9	0.7	18.0	4.4	26.2	0.16	2.49	0.12	72	0.55	0.075	
1509633	Soil	0.90	97.45	6.88	107.0	32	65.7	16.5	1261	4.36	14.5	1.7	14.8	8.4	11.0	0.08	0.51	0.21	64	0.14	0.032	
REP 1509633	QC	0.93	97.82	6.85	111.2	31	66.5	17.0	1244	4.36	15.0	1.7	14.4	8.6	10.9	0.06	0.48	0.22	63	0.14	0.031	
1509761	Soil	1.64	99.86	12.75	97.8	150	18.9	15.6	2433	4.50	136.0	2.1	70.8	9.0	78.4	0.11	1.38	0.19	38	0.58	0.181	
REP 1509761	QC	1.65	94.92	12.28	97.1	132	18.6	15.9	2458	4.48	136.9	2.1	77.1	9.0	76.3	0.11	1.57	0.16	38	0.56	0.188	
Reference Materials																						
STD DS10	Standard	16.25	140.83	160.50	367.4	1915	77.9	13.8	964	2.84	41.6	2.5	77.5	7.1	72.5	2.30	8.25	11.01	43	1.11	0.074	
STD DS10	Standard	15.28	140.12	160.94	356.5	1878	77.6	13.7	920	2.79	41.4	2.5	82.7	6.9	68.2	2.28	8.17	11.24	43	1.09	0.073	
STD DS10	Standard	15.31	141.77	158.05	355.9	1831	79.5	13.9	895	2.74	41.1	2.4	73.8	6.7	67.7	2.29	7.79	10.86	43	1.09	0.073	
STD DS10	Standard	15.57	162.48	153.38	375.4	1686	76.6	12.7	904	2.77	45.3	2.7	69.4	7.3	67.1	2.63	8.45	11.83	43	1.09	0.077	
STD DS10	Standard	15.42	162.08	156.50	367.0	1765	77.8	13.7	920	2.79	43.8	2.7	92.6	8.0	68.8	2.52	8.73	12.32	44	1.09	0.075	
STD DS10	Standard	16.25	168.06	152.34	370.6	1676	82.0	14.1	932	2.83	45.1	2.7	66.5	7.9	67.7	2.45	8.77	11.64	43	1.13	0.072	
STD OXC129	Standard	1.31	23.67	5.98	40.0	13	79.2	20.3	420	3.06	0.6	0.6	190.9	1.6	189.3	0.01	0.03	<0.02	50	0.70	0.092	
STD OXC129	Standard	1.31	23.79	5.80	37.4	10	75.2	20.8	399	2.88	0.5	0.6	189.6	1.5	176.2	0.01	0.03	<0.02	47	0.62	0.091	
STD OXC129	Standard	1.36	25.09	6.18	41.9	9	82.4	22.1	436	3.03	0.6	0.6	201.5	1.7	183.4	0.03	0.03	<0.02	51	0.66	0.094	
STD OXC129	Standard	1.15	30.59	6.60	39.6	13	86.2	22.8	450	3.03	0.1	0.7	200.3	2.0	184.7	0.01	0.04	<0.02	51	0.65	0.100	
STD OXC129	Standard	1.31	28.73	7.08	42.5	37	85.6	22.7	455	3.08	0.9	0.7	197.9	2.1	198.6	0.01	0.04	<0.02	52	0.68	0.102	
STD OXC129	Standard	1.45	30.23	6.37	36.9	19	87.8	21.8	435	2.98	0.5	0.7	178.2	1.8	191.4	0.02	0.06	<0.02	50	0.71	0.092	
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	<0.1	<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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Project: MICHIE
Report Date: September 21, 2016

Page: 1 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

WHI16000239.1

Method	Analyte	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
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																		
1509503	Soil	12.3	147.6	1.74	368.4	0.043	<1	2.26	0.005	0.16	<0.1	20.1	0.28	<0.02	17	0.2	0.03	6.6
REP 1509503	QC	11.8	145.0	1.73	354.0	0.042	<1	2.25	0.005	0.16	<0.1	19.7	0.28	<0.02	12	0.2	0.03	6.7
1509536	Soil	34.6	23.0	0.40	160.9	0.023	<1	1.28	0.004	0.21	<0.1	5.2	0.11	<0.02	22	0.5	0.15	3.5
REP 1509536	QC	33.3	23.9	0.40	160.4	0.021	1	1.29	0.004	0.21	<0.1	4.7	0.12	<0.02	<5	0.4	0.10	3.4
1509567	Soil	25.7	18.9	0.48	186.4	0.007	<1	1.27	0.002	0.16	<0.1	4.6	0.12	<0.02	13	0.2	0.10	3.6
REP 1509567	QC	26.6	18.8	0.48	179.8	0.007	<1	1.28	0.002	0.16	<0.1	4.3	0.12	<0.02	15	0.2	0.09	3.5
1509616	Soil	15.8	88.9	0.89	330.6	0.023	3	2.03	0.007	0.10	<0.1	7.6	0.14	<0.02	16	0.6	0.08	5.6
REP 1509616	QC	15.7	84.5	0.86	326.4	0.021	3	1.99	0.006	0.09	0.1	7.2	0.16	<0.02	37	0.7	0.05	5.1
1509633	Soil	33.5	57.0	0.80	429.1	0.018	<1	1.62	0.004	0.10	<0.1	9.2	0.16	<0.02	28	0.4	0.08	4.9
REP 1509633	QC	32.6	57.3	0.78	424.3	0.018	<1	1.62	0.004	0.10	<0.1	9.3	0.15	<0.02	31	0.4	0.10	5.2
1509761	Soil	23.8	8.5	0.61	488.2	0.010	<1	1.74	0.005	0.22	<0.1	4.7	0.17	0.02	26	0.3	0.07	4.3
REP 1509761	QC	26.5	8.8	0.61	522.1	0.011	<1	1.76	0.005	0.22	<0.1	5.3	0.17	<0.02	35	0.6	0.07	4.7
Reference Materials																		
STD DS10	Standard	17.4	60.6	0.79	366.9	0.077	7	1.12	0.078	0.35	3.4	3.4	5.39	0.29	275	2.4	5.24	4.9
STD DS10	Standard	16.4	58.0	0.79	360.5	0.074	8	1.10	0.075	0.35	3.4	3.1	5.38	0.28	280	2.4	5.02	4.6
STD DS10	Standard	16.3	58.1	0.81	373.2	0.071	7	1.07	0.076	0.35	3.4	3.0	5.30	0.29	295	2.5	5.14	4.4
STD DS10	Standard	18.1	60.7	0.79	357.9	0.082	6	1.11	0.079	0.35	3.2	2.4	5.00	0.28	267	2.3	5.01	4.6
STD DS10	Standard	18.9	60.9	0.82	347.7	0.084	9	1.12	0.080	0.36	3.3	3.2	5.26	0.29	308	1.4	4.76	4.7
STD DS10	Standard	18.7	61.0	0.80	345.3	0.087	6	1.15	0.080	0.36	3.0	3.3	5.06	0.28	269	2.4	5.14	4.4
STD OXC129	Standard	11.3	52.8	1.55	50.9	0.381	<1	1.64	0.619	0.39	<0.1	1.4	0.04	<0.02	<5	<0.1	<0.02	5.5
STD OXC129	Standard	10.9	49.9	1.47	48.0	0.363	1	1.54	0.595	0.39	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.1
STD OXC129	Standard	11.6	54.8	1.57	50.3	0.419	1	1.68	0.647	0.44	<0.1	1.3	0.04	<0.02	<5	0.1	<0.02	5.5
STD OXC129	Standard	13.0	56.7	1.53	51.8	0.427	1	1.67	0.632	0.43	0.1	0.9	0.03	<0.02	10	<0.1	0.02	5.9
STD OXC129	Standard	13.4	58.5	1.58	53.0	0.440	6	1.71	0.655	0.45	<0.1	1.4	0.04	<0.02	6	<0.1	<0.02	5.9
STD OXC129	Standard	12.3	55.0	1.54	49.0	0.402	2	1.69	0.641	0.40	<0.1	1.1	0.04	<0.02	<5	0.1	<0.02	5.8
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



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Page: 2 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI16000239.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<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	0.2	<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	3	<0.1	<0.1	3	<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	0.02	0.2	<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
BLK	Blank	<0.01	0.05	<0.01	<0.1	4	<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



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

Project: MICHIE
Report Date: September 21, 2016

Page: 2 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

WHI16000239.1

		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
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	6	<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	8	<0.1	0.05	0.1



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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.

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

CC: Al Doherty

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



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 Goldbank

604-889 Pender Street W

Vancouver British Columbia V6C 3B2 Canada

Project:

Kate

Report Date:

October 04, 2016

Page:

4 of 8

Part:

1 of 4

CERTIFICATE OF ANALYSIS

WHI16000288.1

Method	AQ262	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																				
86	Soil																				
87	Soil																				
88	Soil																				
89	Soil																				
90	Soil																				
91	Soil	0.10	0.05	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	0.65	3	0.01	0.003
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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Client: **XyQuest Goldbank**
604-889 Pender Street W
Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

Page: 4 of 8

Part: 2 of 4

CERTIFICATE OF ANALYSIS

WHI16000288.1

Method	Analyte	Unit	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	Ti	S	Hg	Se	Te	Ga	Mo	Cu
		MDL	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
85	Soil																				
86	Soil																				
87	Soil																				
88	Soil																				
89	Soil																				
90	Soil																				
91	Soil																				
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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Project: Kate
Report Date: October 04, 2016

Page: 5 of 8

Part: 1 of 4

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	
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																				
126	Soil																				
127	Soil																				
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Vancouver British Columbia V6C 3B2 Canada

Project: Kate
Report Date: October 04, 2016

Page: 5 of 8

Part: 2 of 4

CERTIFICATE OF ANALYSIS

WHI16000288.1

Method	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																			
126	Soil																			
127	Soil																			
128	Soil																			
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151	Soil																			
152	Soil																			
153	Soil	8.2	20.7	1.16	225.9	0.147	2	1.97	0.007	0.61	<0.1	2.8	0.06	<0.02						

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



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Project: Kate
Report Date: October 04, 2016

Page: 1 of 2 Part: 1 of 4

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

Page: 1 of 2

Part: 2 of 4

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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Project: Kate
Report Date: October 04, 2016

Page: 1 of 2

Part: 3 of 4

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	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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Report Date: October 04, 2016

Page: 1 of 2

Part: 4 of 4

QUALITY CONTROL REPORT

WHI16000288.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		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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Page: 2 of 2

Part: 1 of 4

QUALITY CONTROL REPORT

WHI16000288.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	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																				



QUALITY CONTROL REPORT

WHI16000288.1

		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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Project: Kate
Report Date: October 04, 2016

Page: 2 of 2

Part: 3 of 4

QUALITY CONTROL REPORT

WHI16000288.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	
		ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	
		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	
STD OXC129	Standard																					
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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																					
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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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Page: 2 of 2

Part: 4 of 4

QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
		ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
		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														
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														
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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