

ASSESSMENT REPORT

2011 GEOCHEMICAL PROGRAM

on the

Loto Property

Whitehorse Mining District, Yukon Territory

for

Goldspike Exploration Inc.

Claims filed for: 'LOTO' 1-42 (YD47101 - YD 47142)

NTS Mapsheet: 115H13

UTM Coordinates: E358000, N6873000 (NAD83, Zone 8)

Owner: Goldspike Exploration Inc.

Author: D. Ferraro, HBSc.

Dates worked performed: September 13th, 2011

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1.0 SUMMARY

A one day geochemical sampling program was conducted on the Loto Property on September 13th, 2011. The property is owned 100% by Goldspike Exploration Inc. and consists of 42 contiguous quartz claims located in the Whitehorse Mining District.

The Loto Property is situated in the Nisling River area, approximately 80 km west of Carmacks, and 200 km northwest of Whitehorse. Although there are bush trails in the area, the property is best accessed by air. For this purposes of this program, a helicopter was used based out of Dawson City.

Geologically, the property is located within Yukon Tanana Terrane, a middle to Upper Paleozoic metamorphosed assemblage which extends from central Alaska though central Yukon to northern British Columbia. It consists of polymetamorphosed and polydeformed metasediments, metavolcanics, and metaplutonic rocks. The property is primarily underlain by Upper Proterozoic schists and quartzite, as well as Lower Jurassic granite in the northwest. Two GSC-collected silt samples in two tributaries draining the area yielded 141 and 84 ppb Au.

A total of 29 soil samples, 2 silt samples and 2 rock samples were taken. Two soil samples yielded anomalous gold results (167 and 66.5 ppb Au) and both silt samples showed favourable gold results. Silver was also found to be anomalous in some soil samples (up to 0.9 ppm Ag).

The Loto Property is located in a geological setting favourable to intrusive-related gold mineralization. The 2011 program was limited in scope due to logistics and the few but strong anomalies show the property needs another pass. A one day program with a larger crew is recommended to adequately cover the slopes with soil sampling and prospecting.

2.0 INTRODUCTION

This assessment report has been prepared at the request of Mr. Bruce Durham, president of Goldspike Exploration Inc. of Toronto, Ontario. The report describes the 2011 geochemical and prospecting program on the Loto Property. Field work was performed by Druid Exploration Inc. of Dawson City, Yukon and the author of this report. The report text and maps were produced by D. Ferraro, of Ferraro Consulting Ltd. of Woodstock, ON.

3.0 PROPERTY LOCATION AND ACCESS

The Loto Property is situated in the Nisling River area, approximately 80 km west of Carmacks, and 200 km northwest of Whitehorse (Figure 1). There is a network of trails running along the Nisling River and up the west side Schist Creek through the property. For the purposes of this work program, a helicopter was used based from Dawson City.



Figure 1: General location of the Loto Property (modified from NRCAN, 2006).

4.0 TOPOGRAPHY, VEGETATION, AND CLIMATE

The Loto Property covers a slope leading into Schist Creek which flows into the Nisling River. Topographically, the property ranges from 4000 ft (peak to the west is 4400 ft) to 2900 ft at the creek.

Vegetation consists of evergreen and buck brush on the slopes and poplar at the higher elevations. A fairly recent burn has thinned out most vegetation. Bedrock exposure on the property is limited to a granite ridge in the northwest corner. Mountain peaks to the west of the property are also exposed.

The Yukon has a subarctic continental climate with a mean summer temperature of 10 degrees celcius and a mean winter temperature of -23 degrees celcius. Temperature extremes of 35 degrees and -55 degrees celcius are common in the summer and winter, respectively.

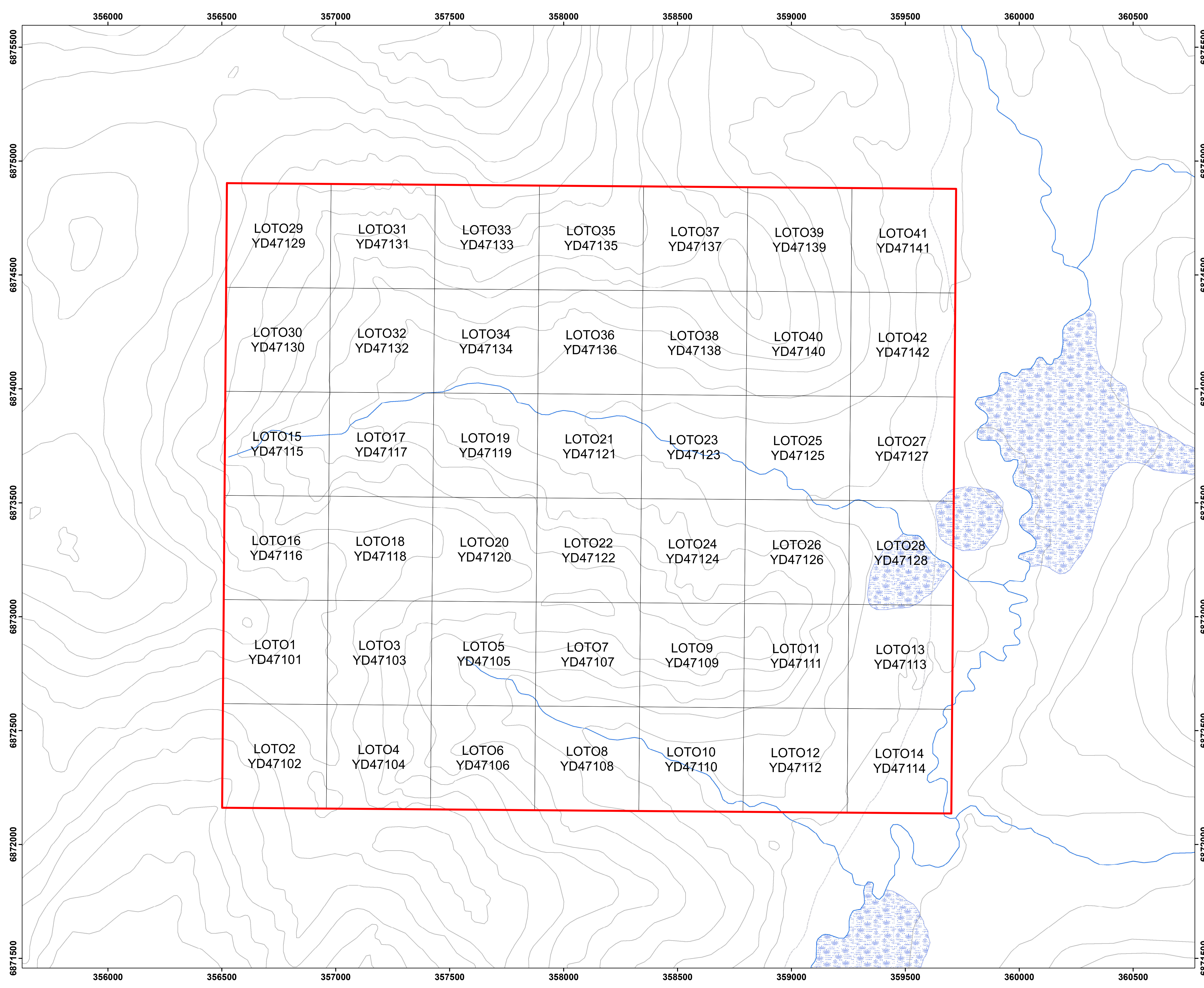
5.0 PROPERTY DESCRIPTION

The Loto Property consists of 42 contiguous quartz claims in the Whitehorse Mining District. The 42 'L OTO' claims can be found on NTS mapsheet 115H13 (see Figure 2). The claims are owned 100% by Goldspike Exploration Inc. of Toronto, Ontario. A complete list of the mining claims that make up the Loto Property is as follows:

Table 1: Claims comprising the Loto Property.

Claim Name	Claim Number	Grant Number	Claim Owner	(%)	Claim Expiry Date	Status
LOTO	1	YD47101	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	2	YD47102	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	3	YD47103	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	4	YD47104	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	5	YD47105	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	6	YD47106	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	7	YD47107	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	8	YD47108	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	9	YD47109	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	10	YD47110	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	11	YD47111	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	12	YD47112	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	13	YD47113	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	14	YD47114	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	15	YD47115	Goldspike Exploration Inc.	100	01/11/2013	Active

LOTO	16	YD47116	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	17	YD47117	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	18	YD47118	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	19	YD47119	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	20	YD47120	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	21	YD47121	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	22	YD47122	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	23	YD47123	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	24	YD47124	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	25	YD47125	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	26	YD47126	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	27	YD47127	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	28	YD47128	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	29	YD47129	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	30	YD47130	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	31	YD47131	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	32	YD47132	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	33	YD47133	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	34	YD47134	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	35	YD47135	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	36	YD47136	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	37	YD47137	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	38	YD47138	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	39	YD47139	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	40	YD47140	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	41	YD47141	Goldspike Exploration Inc.	100	01/11/2013	Active
LOTO	42	YD47142	Goldspike Exploration Inc.	100	01/11/2013	Active



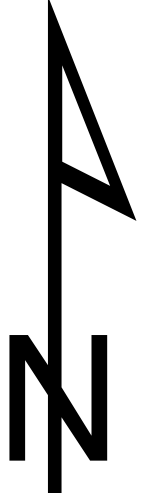
Loto Property

Fig. 2: Claim Location Map
Goldspike Exploration Inc.

Schist Creek area,
Whitehorse Mining District

Legend

-  Loto Property
-  Yukon quartz claims



1:8,000



Date: July 1st, 2012
NTS Mapsheet: 115H13
Datum: UTM NAD83 Zone 8

6.0 PROPERTY HISTORY

There are few known showings in the vicinity of the Loto Property. Five kilometers north of the property, the 'Schist' claims were staked by the Aishihik Syndicate in 1967. They were staked on a strong aeromagnetic anomaly caused by an ultramafic body. Soil samples were weakly anomalous in copper and nickel. Asbestos also occurs in the area. The claims were restaked as the 'Bug' claims by Largo ML, which conducted mapping and reconnaissance geochemical sampling (Minfile 115I069).

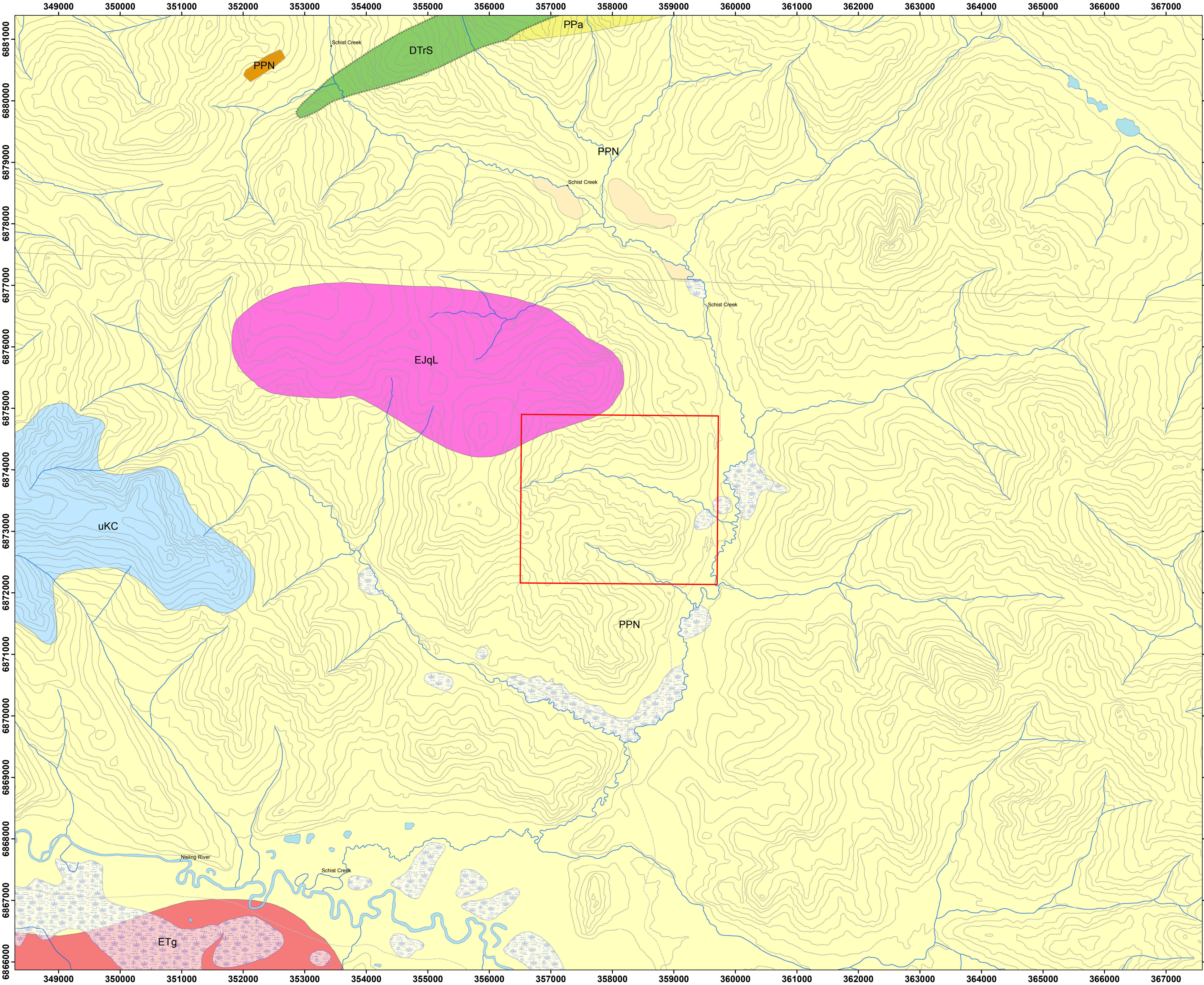
The MALONEY prospect, 9.3 km WNW of the LOTO block, is a copper-gold porphyry with minor molybdenum, silver and tungsten first staked by Amax in 1969. Chalcopyrite and molybdenite occur in thin quartz veinlets and disseminations in a hydrothermally altered zone 300 m in diameter associated with a mid-Cretaceous volcanic complex intruding metasedimentary rocks. The main zone is associated with a strong soil geochemical anomaly 3 km long, and a 1300 x 200 m IP anomaly. In 1985 Archer, Cathro and Associates and Chevron outlined a 2400 x 800 m soil anomaly with gold values up to 1,270 ppb, and another smaller area returned values up to 532 ppb Au, 8.6 ppm Ag, 2,162 ppm Pb, and 5,170 ppm Zn (Minfile 115I070).

7.0 GEOLOGY

The Schist Creek area is located within Yukon Tanana Terrane, a middle to Upper Paleozoic metamorphosed assemblage which extends from central Alaska through central Yukon to northern British Columbia. It consists of polymetamorphosed and polydeformed metasediments, metavolcanics, and metaplutonic rocks. The terrane is cut by the Tintina Fault, a right-lateral strike-slip fault which occurs along the suture zone between the Yukon Tanana Terrane to the southwest and ancestral North America to the northeast.

The Loto Property is underlain primarily by Upper Proterozoic metasediments (Templeman-Kluit, 1974; see Figure 3). This includes mica and chlorite schist and quartzite. Foliation is semi-horizontal, and the bedrock is commonly intruded by 10-40 cm granite dikes and recrystallized quartz veins. No mineralization was observed. The northwest of the property is dominated by Jurassic-age intrusives (granite, monzogranite, pegmatite). Abundant outcroppings of medium grained granite were observed on the property, often with 3-10cm rounded inclusions of an older phase or partially digested metasediments.

The property covers two 99th percentile GSC gold silt anomalies (84 and 141 ppb Au) in two short tributaries of Schist Creek. A 2011 regional magnetic survey shows magnetic highs in the location of the mapped intrusives west of the property. These highs are accompanied by adjacent strong magnetic lows in the metasediments underlying the property (Kiss and Coyle, 2011).



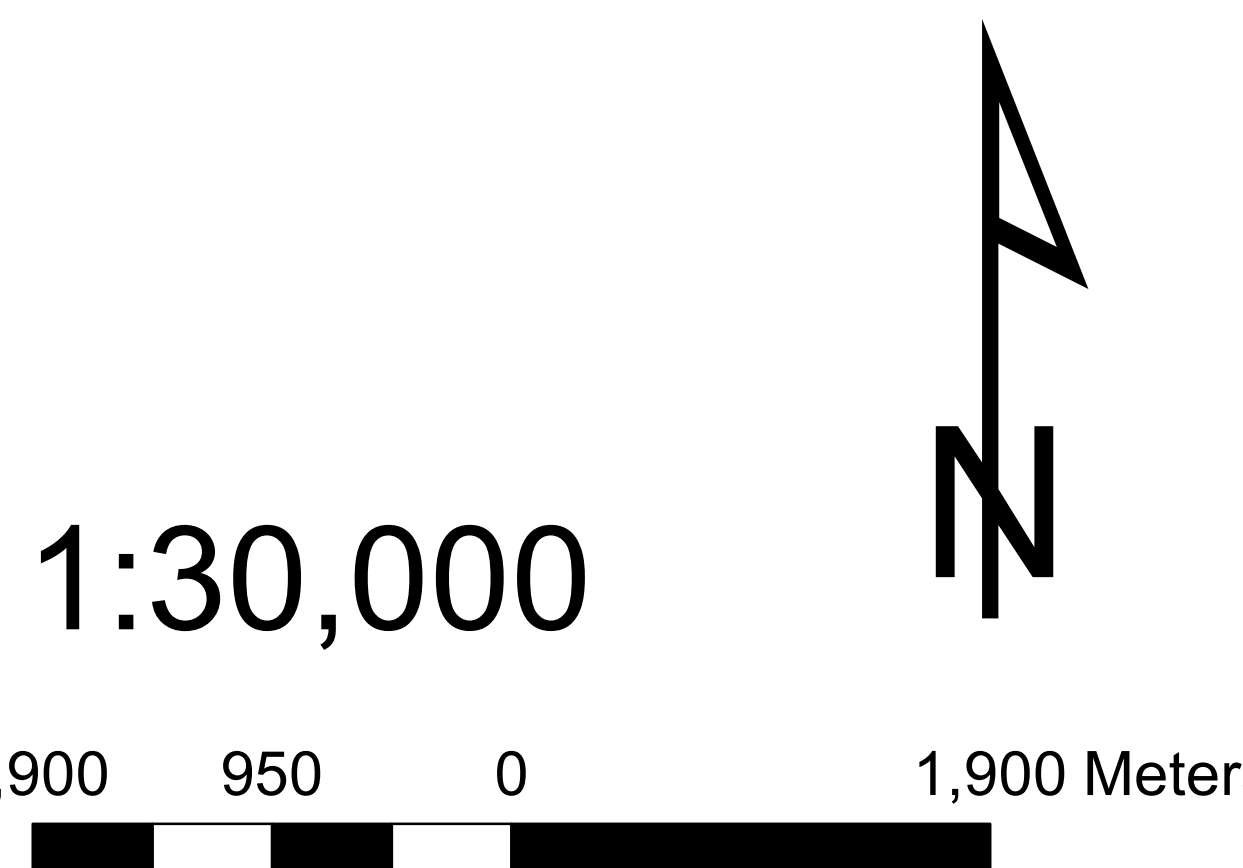
Loto Property

Fig. 3: Bedrock Geology

Goldspike Exploration Inc.

Schist Creek area,
Whitehorse Mining District

- Legend**
- Loto Property
- Bedrock Geology**
- Rock type**
- Paleogene
porphyry/dykes/flows
 - Upper Cretaceous
tuff/plugs/necks/flows/porphyry
 - Lower Jurassic
quartz monzonite/granite/aplite/pegmatite
 - Carboniferous/Permian
dunite/peridotite/harzburgite/diabase/serpentinite
 - Upper Proterozoic
marble
 - Upper Proterozoic
cl-bi-schist/amphibolite/hb-gneiss/ac-pg-cl-bi-schist/
pg-ac-cl-schist/phyllite/quartzite/ultramafics
 - Upper Proterozoic
bi-ms-qt-fp-schist/gt-quartzite/cl-bi-orthogneiss



Date: July 1st, 2012
NTS Mapsheet: 115H13
Datum: UTM NAD83 Zone 8

8.0 2011 WORK PROGRAM

8.1 Sampling Method and Approach

A one day geochemical sampling program was conducted on the Loto Property on September 13th, 2011. Flying out of Dawson City, a crew of 2 soil samplers and one geologist collected 29 soil samples, 2 silt samples and 2 rock samples (see Figure 4 for sample locations). A Hughs 500D helicopter was used for the duration of the program.

A ridge and spur soil sampling program was planned before field work was conducted. Using ArcGIS, soil sample traverses were plotted at 100m spacings and downloaded onto samplers' GPS units. Once in the field, samplers used Dutch augurs to collect an adequate soil sample, preferably from the 'C' horizon, placing it in a Kraft paper bag, marking the location with GPS, and marking the location with flagging tape labeled with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. The GPS units were downloaded daily for plotting in ArcGIS. Soil samples were hung up to dry, then packed and shipped to the lab.

Silt samples were taken in major creeks and tributaries. A low energy zone of the stream was located and a collapsible shovel, pan, or hand was used to collect a sample. Sample locations were marked with a GPS unit and flagged with the sample number. Sample conditions, environment and attributes were recorded in a field notebook.

Rock samples were taken based on mineralogy, structure and lithology. Samples were placed inside labeled plastic poly bags with the corresponding sample tag. Sample descriptions were recorded in a field notebook and the location recorded by GPS unit. Sample locations were marked with flagging tape labeled with the sample number. All sample descriptions can be found in Appendix I.

8.2 Sample Preparation, Analysis, and QA/QC

The soil and silt samples were dried at 60° C and sieved to -80 mesh (<177 microns). A 15.0 gram sub-sample was digested in hot (95° C) aqua regia (HCl-HNO₃-H₂O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques (Acme's Group 1DX2). Multi-elemental analysis of 36 elements was made.

The rock samples were crushed, split to 250 g, pulverized, and a split was sieved to -200 mesh. The same analytical procedure (Acme's Group 1DX2) was used.

Quality control samples from the lab include control blanks, duplicates and standards. Sample blanks (BLK), pulp duplicates and standards (STD DS8) were run with the batch analysis; no problems were noted with analytical accuracy or precision.

8.3 Results

The soil sampling program conducted on the Loto Property produced a few notable results. Two soil samples; roughly north-south from each other assayed 167 and 66.5 ppb Au (Figure 5). Silt sampling in an unmapped tributary down slope from the 167 ppb sample also yielded 14.7 and 29.1 ppb Au. Although base metal values are generally not anomalous, there is a distinctive silver trend, seemingly un-related to gold (Figure 6). Numerous soil samples showed anomalous silver values, the highest being 0.9 ppm Ag. The two rock samples did not show anomalous results.

Assay results and certificates can be found in appendices II and III.

Loto Property

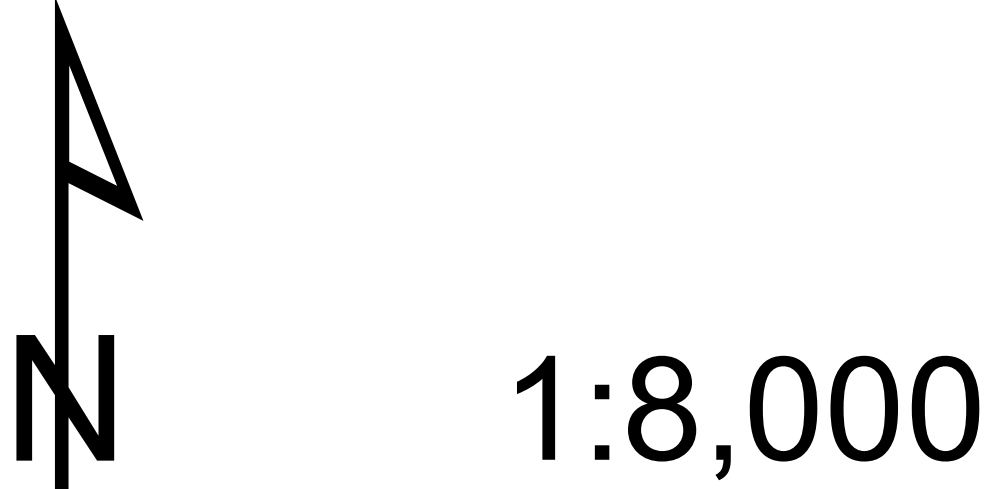
Fig. 4: Sample Location Map

Goldspike Exploration Inc.

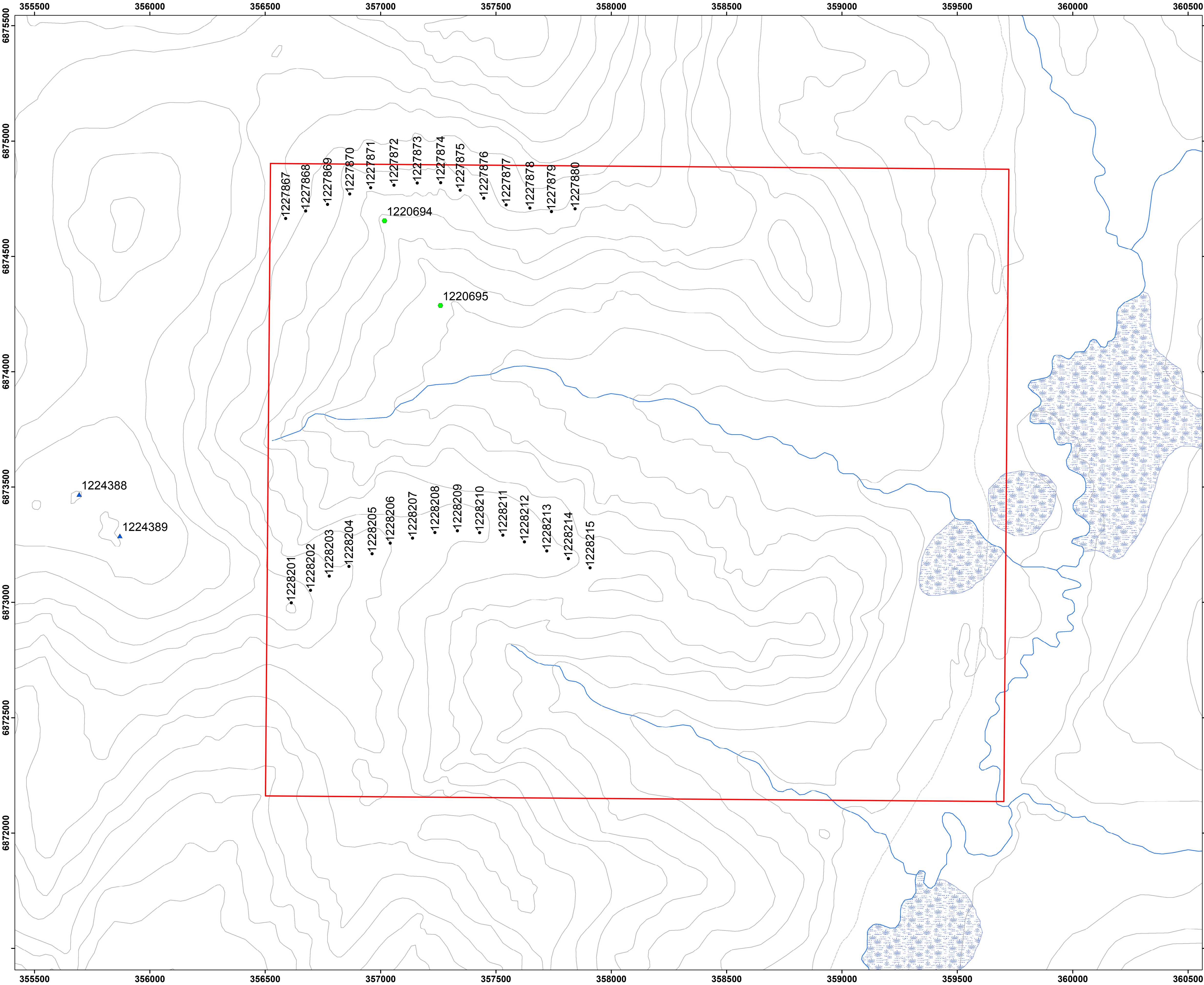
Schist Creek area,
Whitehorse Mining District

Legend

- Soil samples
- Silt samples
- ▲ Rock samples
- Loto Property



Date: July 1st, 2012
NTS Mapsheet: 115H13
Datum: UTM NAD83 Zone 8



Loto Property

Fig. 5: Sample Geochemistry
- Gold

Goldspike Exploration Inc.

Schist Creek area,
Whitehorse Mining District

Legend

- Rock samples (ppb Au)
- Silt samples (ppb Au)

Soil samples

Au (ppb)

- 0.5 - 10.0
- 10.1 - 20.0
- 20.1 - 50.0
- 50.1 - 100.0
- 100.1 - 167.0

Regional stream geochemistry

Au (ppb)

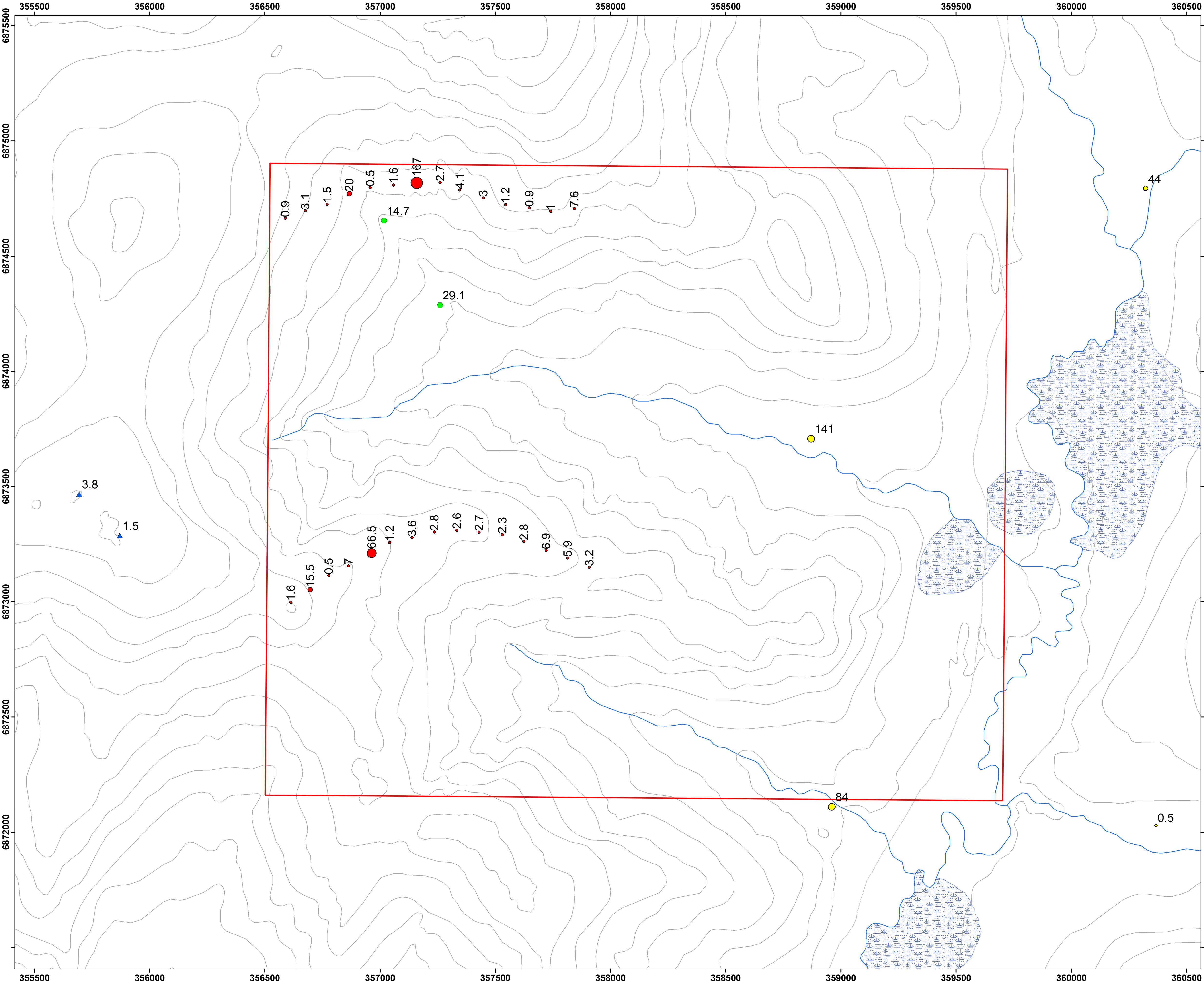
- 0.0 - 15.0
- 15.1 - 74.0
- 74.1 - 215.0
- 215.1 - 482.0
- 482.1 - 1170.0

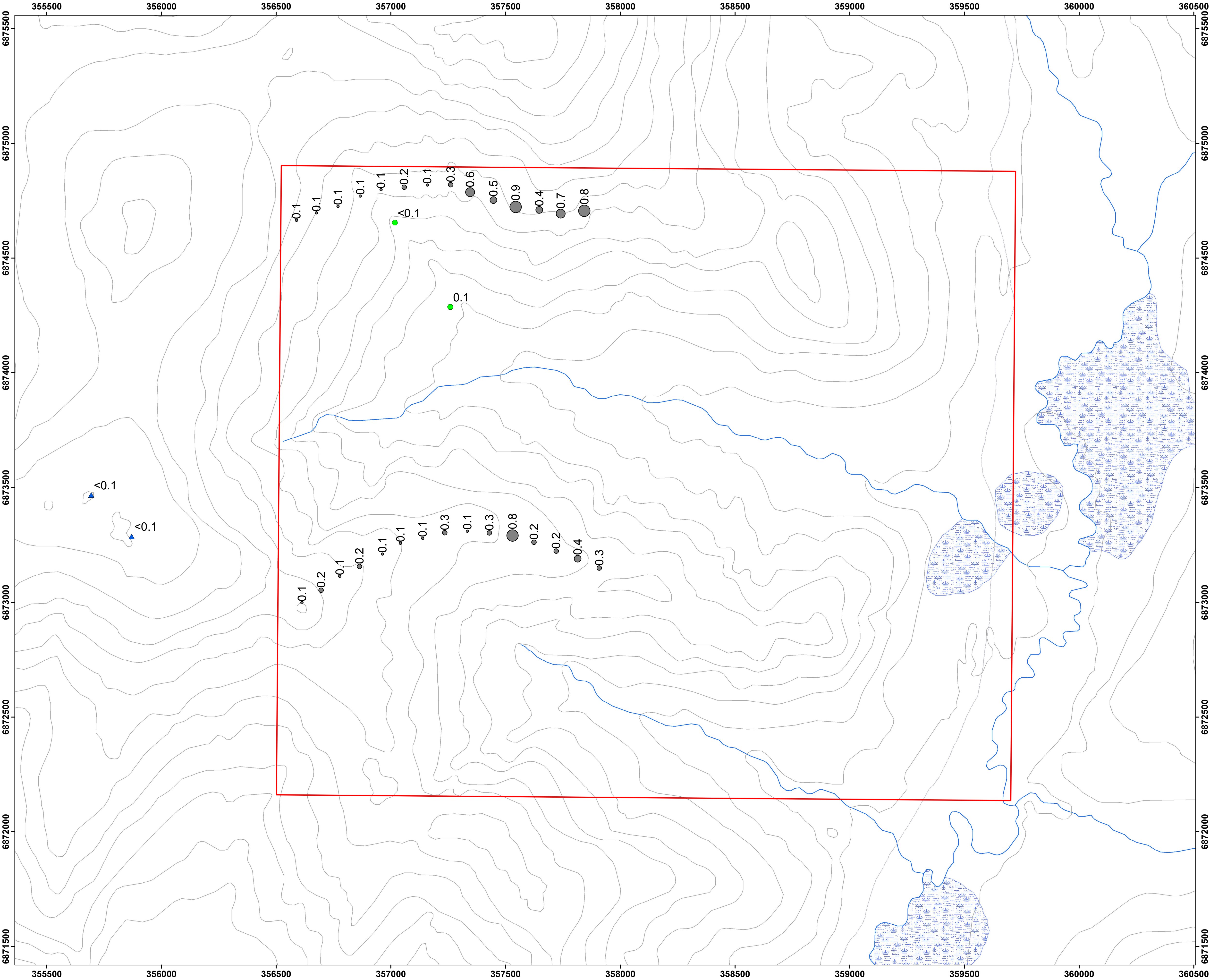
Loto Property

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520 260 0 520 Meters

Date: July 1st, 2012
NTS Mapsheet: 115H13
Datum: UTM NAD83 Zone 8





Loto Property

Fig. 6: Sample Geochemistry
- Silver

Goldspike Exploration Inc.

Schist Creek area,
Whitehorse Mining District

Legend

- Rock samples (ppm Ag)
- Silt samples (ppm Ag)

Soil samples

Ag (ppm)

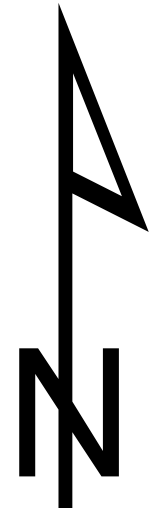
- 0.1
- 0.2 - 0.3
- 0.4 - 0.5
- 0.6 - 0.7
- 0.8 - 0.9

Loto Property

1:8,000

520 260 0 520 Meters

Date: July 1st, 2012
NTS Mapsheet: 115H13
Datum: UTM NAD83 Zone 8



9.0 CONCLUSIONS AND RECOMMENDATIONS

The Loto Property is located in a geological setting favourable to gold mineralization. The local geology, geophysical features, and GSC silt samples point to the potential for intrusive-related gold mineralization. Furthermore, exploration history is limited and the ground is relatively untested.

The 2011 program was limited in scope due to logistical time constraints. However, of the 29 soil samples taken, 2 showed promising gold results (highest being 167 ppb Au). Furthermore, silt samples taken from a slope draining the area of the highest sample showed anomalous gold results. Although the main tributaries were not sampled, GSC silt samples show high gold results. Silver was found to be anomalous in numerous soil samples; however it does not appear to be related to gold.

Unfortunately, the area of the property with the most outcrop (northwest) was dominated by granite and thus prospecting was not effective on this pass.

A one day follow-up program is recommended. A larger capacity helicopter would allow for a larger crew to do proper reconnaissance on the property. More soil sampling at 50m spacings should be done towards the east. Prospecting should be focused on the metasediments in the north and south slopes of the property and the area of the high gold-in-soil anomaly should be hand dug as well as resampled.

REFERENCES

Kiss, F. and Coyle, M., (2011): First vertical derivative of the magnetic field, Aeromagnetic Survey of the Nisling River Area, NTS 115 G/16 and 115 H/13, Yukon; Geological Survey of Canada, Open File 6900; Yukon Geological Survey, Open File 2011-14, scale 1:50 000.

Natural Resources Canada, Atlas, (12/05/2006):
http://atlas.nrcan.gc.ca/auth/english/maps/reference/provincesterritories/yukon_territory/referencemap_image_view (visited 01/02/2012)

Tempelman-Kluit, D.J. (1974): Reconnaissance geology of Aishihik Lake, Snag and part of Stewart River map areas, west-central Yukon (115A, 115F, 115G and 115K). Geological Survey of Canada, Paper 73-41, 97 p.

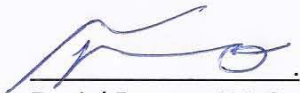
STATEMENT OF EXPENDITURES

LOTO Property					
Costs for work performed September 13th, 2011					
	Amount	\$/DAY	UNIT		TOTAL
GEO	1	\$ 450.00	2		\$ 900.00
FIELD HAND / SAMPLER	2	\$ 350.00	1		\$ 700.00
HELICOPTER (500D)	1	\$ 935.00	1.5		\$ 1,402.50
HELICOPTER FUEL	1	\$ 350.00	1		\$ 350.00
SOIL SAMPLES	29	\$ 18.00	1		\$ 522.00
SILT SAMPLES	2	\$ 18.00	1		\$ 36.00
ROCK SAMPLES	2	\$ 24.00	1		\$ 48.00
HOTEL + ACCOMODATION	3	\$ 140.00	1		\$ 420.00
FOOD, \$45/man	3	\$ 45.00	1		\$ 135.00
REPORT	1	\$ 2,000.00	1		\$ 2,000.00
				TOTAL	\$ 6,513.50

CERTIFICATE OF QUALIFICATIONS

I, Daniel Ferraro, of 835 Berkshire Dr., Woodstock, Ontario, Canada, certify that:

1. I am a graduate of Lakehead University, 2008, and hold an H. B.Sc. Geology degree.
2. I am an independent geological consultant.
3. I am a member of the Ontario Prospectors Association (2010).
4. I have been employed as a geological assistant for the Ontario Geological Survey and the Geological Survey of Canada during the summers of, respectively, 2006 and 2007.
5. I have been working in the mineral exploration industry since 2008 for Pacific North West Capital Corporation, East West Resources Corporation, Rainy Mountain Royalty Corporation, Black Panther Mining Corporation, White Tiger Mining Corporation, Trillium North Minerals Ltd., and Goldspike Exploration Inc.
6. This report was prepared by myself.
7. I have no personal knowledge from the date of this certificate of any material fact or change not reflected in this report.


Daniel Ferraro, H.B.Sc.

Date: July 1st, 2012

Appendix I: Sample Descriptions

Sample Descriptions

UTM NAD 83 Zone 8

SOIL SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Depth (cm)	Horizon	Colour	Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1227867	356589	6874664	1217	13-Sep-11	LOT	30-40	c	dark brown	15					85	weathered bedrock	moist	evergreen	mid slope
1227868	356676	6874697	1196	13-Sep-11	LOT	40-50	c	light brown	5	5		10		80	weathered bedrock	moist	evergreen	mid slope
1227869	356770	6874725	1179	13-Sep-11	LOT	50-60	c	light brown	5	5		10		80	weathered bedrock	moist	evergreen	mid slope
1227870	356867	6874770	1144	13-Sep-11	LOT	30-40	c	light brown	5			10		85	weathered bedrock	moist	evergreen	mid slope
1227871	356958	6874798	1135	13-Sep-11	LOT	40-50	c	light brown	5			15		80	weathered bedrock	moist	evergreen	mid slope
1227872	357058	6874809	1134	13-Sep-11	LOT	30-40	c	dark brown	10					90	weathered bedrock	moist	evergreen	mid slope
1227873	357159	6874818	1139	13-Sep-11	LOT	40-50	c	light brown	5	5		5		85	weathered bedrock	moist	evergreen	mid slope
1227874	357261	6874820	1140	13-Sep-11	LOT	40-50	c	light brown				10	10	80	weathered bedrock	moist	evergreen	mid slope
1227875	357346	6874787	1137	13-Sep-11	LOT	60-70	c	dark brown	10			10	30	50	weathered bedrock	moist	evergreen	mid slope
1227876	357448	6874752	1141	13-Sep-11	LOT	40-50	c	light brown	5			20		75	weathered bedrock	moist	evergreen	mid slope
1227877	357545	6874723	1161	13-Sep-11	LOT	40-50	c	light brown				10		90	weathered bedrock	moist	evergreen	mid slope
1227878	357648	6874710	1162	13-Sep-11	LOT	40-50	c	light brown				20		80	weathered bedrock	moist	evergreen	mid slope
1227879	357741	6874694	1150	13-Sep-11	LOT	40-50	c	light brown				20		80	weathered bedrock	moist	evergreen	mid slope
1227880	357844	6874706	1133	13-Sep-11	LOT	40-50	c	light brown	10			10	20	60	weathered bedrock	moist	evergreen	mid slope
1228201	356613	6872998	1233	13-Sep-11	LOT	40-50	c	light brown		15		10		75	weathered bedrock	moist	buck brush	ridge top
1228202	356697	6873052	1211	13-Sep-11	LOT	40-50	c	yellow orange		5		15		80	weathered bedrock	moist	buck brush	ridge top
1228203	356778	6873113	1196	13-Sep-11	LOT	40-50	c	yellow orange		5			20	75	weathered bedrock	moist	buck brush	ridge top
1228204	356864	6873155	1181	13-Sep-11	LOT	30-40	c	yellow orange	5			20		75	weathered bedrock	moist	buck brush	ridge top
1228205	356964	6873210	1158	13-Sep-11	LOT	40-50	c	yellow orange				30		70	weathered bedrock	moist	buck brush	ridge top
1228206	357043	6873257	1150	13-Sep-11	LOT	40-50	c	light brown		10		20		70	weathered bedrock	moist	buck brush	ridge top
1228207	357139	6873278	1139	13-Sep-11	LOT	40-50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	ridge top
1228208	357236	6873303	1131	13-Sep-11	LOT	70-80	c	light brown	20			40		40	weathered bedrock	moist	buck brush	ridge top
1228209	357334	6873310	1127	13-Sep-11	LOT	50-60	c	light brown		10		10		80	weathered bedrock	moist	buck brush	ridge top
1228210	357430	6873302	1125	13-Sep-11	LOT	50-60	c	yellow orange				20		80	weathered bedrock	moist	buck brush	ridge top
1228211	357531	6873291	1114	13-Sep-11	LOT	40-50	c	yellow orange	10	10		20		60	weathered bedrock	moist	buck brush	ridge top
1228212	357624	6873262	1101	13-Sep-11	LOT	50-60	c	light brown				20	20	60	weathered bedrock	moist	buck brush	ridge top
1228213	357721	6873223	1094	13-Sep-11	LOT	40-50	c	light brown				50		50	weathered bedrock	moist	buck brush	ridge top
1228214	357815	6873190	1088	13-Sep-11	LOT	40-50	c	light brown		20		10		70	weathered bedrock	moist	buck brush	ridge top
1228215	357909	6873149	1094	13-Sep-11	LOT	40-50	c	light brown		15		10		75	weathered bedrock	moist	buck brush	ridge top

SILT SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Environment	Medium	Medium depth (m)	Medium width (m)	Bank type	Water colour
1220694	357017	6874655	1086	13-Sep-11	LOT	low energy	creek	0.2	0.5	grassy, burn	clear
1220695	357259	6874288	1017	13-Sep-11	LOT	low energy	creek	0.2	0.5	grassy, burn	clear

ROCK SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Description
1224388	355694	6873468	1331	13-Sep-11	LOT	Metasediment outcrop. Well oxidized schist with quartz stockwork near granite contact. Flat lying with flat granite/aplite/qtz dikes.
1224389	355870	6873288	1330	13-Sep-11	LOT	Metasediment outcrop. Remelted schist with granite contacting. No sulphides.

Appendix II: Assay Results

Soil and Silt Sample Results (1/2)

UTM NAD83 Zone 8

			Method Analyte Unit MDL	1DX15 Mo PPM 0.1	1DX15 Cu PPM 0.1	1DX15 Pb PPM 0.1	1DX15 Zn PPM 1	1DX15 Ag PPM 0.1	1DX15 Ni PPM 0.1	1DX15 Co PPM 0.1	1DX15 Mn PPM 1	1DX15 Fe % 0.01	1DX15 As PPM 0.5	1DX15 Au PPB 0.5	1DX15 Th PPM 0.1	1DX15 Sr PPM 1	1DX15 Cd PPM 0.1	1DX15 Sb PPM 0.1	1DX15 Bi PPM 0.1	1DX15 V PPM 2	1DX15 Ca % 0.01
Sample ID	Easting	Northing	Type																		
1227867	356589	6874664	Soil	0.7	18.2	3	21	0.1	7.8	3.8	152	1.17	2.4	0.9	1.3	35	<0.1	0.2	<0.1	33	0.45
1227868	356676	6874697	Soil	1.5	14.4	5.3	34	<0.1	10.6	6.5	279	1.94	4.3	3.1	5.8	23	<0.1	0.2	0.1	51	0.33
1227869	356770	6874725	Soil	2	18	5.9	37	<0.1	11.3	7.4	339	2.16	5.1	1.5	8	31	0.1	0.3	0.1	57	0.41
1227870	356867	6874770	Soil	0.8	9	3.9	28	<0.1	6.9	4.6	123	1.58	2.5	20	3.8	16	0.1	0.2	<0.1	48	0.21
1227871	356958	6874798	Soil	0.8	16.3	5.2	41	<0.1	11.9	7.9	369	2.14	4.4	<0.5	5.1	27	0.2	0.4	0.1	58	0.35
1227872	357058	6874809	Soil	0.9	25.2	6.3	42	0.2	14.1	9.6	442	2.36	5.2	1.6	5.8	63	0.3	0.5	0.1	57	0.86
1227873	357159	6874818	Soil	0.5	14.1	5.3	35	<0.1	14.1	6.6	190	2.04	6.3	167	6.3	18	<0.1	0.3	0.1	53	0.28
1227874	357261	6874820	Soil	2.6	64.7	3.9	68	0.3	41.9	8	234	1.87	11.2	2.7	4	54	0.4	0.7	0.1	57	0.75
1227875	357346	6874787	Soil	3.4	49.8	4.6	85	0.6	29	7.5	341	1.8	13.1	4.1	1	35	0.3	0.8	0.4	84	0.39
1227876	357448	6874752	Soil	2.2	40.9	6.9	117	0.5	39.2	15.4	645	2.59	25.3	3	1.6	30	1.1	1.5	0.4	88	0.26
1227877	357545	6874723	Soil	1.2	20.8	6	79	0.9	23.5	8.8	242	2.16	12.1	1.2	2.6	26	0.6	0.8	0.4	62	0.33
1227878	357648	6874710	Soil	0.7	32.4	3.5	56	0.4	17.7	7	397	1.55	9	0.9	1.3	48	1.3	0.9	<0.1	46	0.59
1227879	357741	6874694	Soil	1.1	12.8	5.4	51	0.7	16	6.9	252	1.96	11.5	1	1.8	22	0.5	0.6	0.2	62	0.25
1227880	357844	6874706	Soil	1	22.2	3.5	62	0.8	25	5.7	192	1.46	21.9	7.6	0.7	20	0.3	1	0.2	53	0.24
1228201	356613	6872998	Soil	0.9	18.7	19	60	<0.1	7.2	11.5	507	3.3	8.8	1.6	3.4	20	0.1	0.9	0.2	52	0.18
1228202	356697	6873052	Soil	0.9	23.1	14.6	46	0.2	16.4	9.7	257	3.04	14.9	15.5	6.2	15	0.1	0.9	0.3	59	0.15
1228203	356778	6873113	Soil	0.6	8.7	7.4	35	<0.1	6.5	6.2	285	1.71	6.3	<0.5	2.9	14	0.1	0.4	0.1	41	0.18
1228204	356864	6873155	Soil	1.2	20.8	11.3	60	0.2	17.2	9.1	350	2.95	34.4	7	3.2	19	0.2	0.9	0.2	72	0.16
1228205	356964	6873210	Soil	1.2	14.1	7.2	38	<0.1	13.6	7.3	314	2.79	8.4	66.5	6.3	17	0.1	0.4	0.1	70	0.26
1228206	357043	6873257	Soil	1	11.9	8.4	42	0.1	12.8	6.1	235	2.35	8.1	1.2	3.4	18	0.1	0.4	0.1	58	0.21
1228207	357139	6873278	Soil	0.9	24.1	11.9	54	0.1	16.9	11.5	559	2.78	17.5	3.6	3.8	48	0.1	1.3	0.2	52	0.74
1228208	357236	6873303	Soil	0.6	32	8.1	39	0.3	17.6	10.2	468	2.06	11.5	2.8	1.3	68	0.2	1.1	0.1	41	1.19
1228209	357334	6873310	Soil	0.8	41.1	17.7	96	<0.1	86.6	26.6	542	4.96	68.5	2.6	9.3	21	0.2	4.4	0.3	75	0.41
1228210	357430	6873302	Soil	1.1	21.1	8.5	67	0.3	16.9	9.9	396	2.67	7.1	2.7	1.9	22	0.6	0.5	0.1	64	0.22
1228211	357531	6873291	Soil	1.9	37.2	13.2	97	0.8	26.9	7.6	232	3.6	25.6	2.3	3.9	13	0.3	2.8	0.2	77	0.12
1228212	357624	6873262	Soil	0.9	15.7	7.1	43	0.2	16.7	6.6	251	2	13.8	2.8	3.9	14	<0.1	1.5	0.1	44	0.23
1228213	357721	6873223	Soil	0.7	12.7	6.9	34	0.2	10.7	6.7	295	1.92	6.6	6.9	2.4	19	0.1	0.5	0.1	52	0.28
1228214	357815	6873190	Soil	1.6	56.3	17.5	96	0.4	31.6	7	157	3.08	53.8	5.9	11	10	0.3	3.3	0.3	37	0.22
1228215	357909	6873149	Soil	2.5	34	10.1	98	0.3	31.3	13.3	411	3.67	17.7	3.2	3	28	0.4	1.5	0.5	93	0.34
1220694	357017	6874655	Silt	0.8	7.5	3.6	31	<0.1	7.1	5.6	157	3.13	1.7	14.7	10.6	16	<0.1	0.2	0.1	104	0.41
1220695	357259	6874288	Silt	0.7	6.8	2.9	31	0.1	8.8	4.9	206	2.35	4.9	29.1	8.9	16	0.1	0.2	<0.1	69	0.4

Soil and Silt Sample Results (2/2)

UTM NAD83 Zone 8

			Method Analyte Unit MDL	1DX15 P % 0.001	1DX15 La PPM 1	1DX15 Cr PPM 1	1DX15 Mg % 0.01	1DX15 Ba PPM 1	1DX15 Ti % 0.001	1DX15 B PPM 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W PPM 0.1	1DX15 Hg PPM 0.01	1DX15 Sc PPM 0.1	1DX15 Tl PPM 0.1	1DX15 S % 0.05	1DX15 Ga PPM 1	1DX15 Se PPM 0.5	1DX15 Te PPM 0.2
Sample ID	Easting	Northing	Type																		
1227867	356589	6874664	Soil	0.055	12	10	0.19	129	0.047	<1	0.66	0.037	0.04	0.1	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1227868	356676	6874697	Soil	0.05	18	19	0.31	155	0.074	<1	1.03	0.016	0.06	0.6	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1227869	356770	6874725	Soil	0.051	24	21	0.37	213	0.095	<1	1.36	0.023	0.07	0.6	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
1227870	356867	6874770	Soil	0.034	8	13	0.25	76	0.093	<1	0.78	0.024	0.06	0.3	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1227871	356958	6874798	Soil	0.048	12	20	0.35	206	0.113	<1	1.24	0.022	0.08	0.3	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1227872	357058	6874809	Soil	0.075	29	22	0.42	318	0.09	2	1.68	0.024	0.11	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
1227873	357159	6874818	Soil	0.035	12	23	0.38	136	0.105	<1	1.25	0.017	0.07	0.3	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1227874	357261	6874820	Soil	0.059	21	29	0.33	259	0.088	<1	1.01	0.028	0.1	0.3	0.05	2.9	0.1	0.06	4	1.3	<0.2
1227875	357346	6874787	Soil	0.083	10	42	0.37	120	0.068	<1	1.2	0.026	0.07	0.2	0.04	2.8	0.1	<0.05	5	1.8	<0.2
1227876	357448	6874752	Soil	0.066	13	48	0.44	165	0.089	1	1.41	0.02	0.13	0.2	0.02	3.4	0.2	<0.05	5	1	<0.2
1227877	357545	6874723	Soil	0.064	13	35	0.44	115	0.093	<1	1.24	0.018	0.1	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1227878	357648	6874710	Soil	0.071	6	24	0.26	216	0.061	1	0.82	0.043	0.07	0.2	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1227879	357741	6874694	Soil	0.038	9	28	0.33	93	0.083	<1	0.99	0.016	0.06	0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1227880	357844	6874706	Soil	0.058	4	25	0.25	113	0.056	<1	0.89	0.039	0.09	0.1	0.05	2.6	0.1	<0.05	3	0.7	<0.2
1228201	356613	6872998	Soil	0.027	16	12	0.35	227	0.005	<1	1.95	0.009	0.15	<0.1	<0.01	1.7	0.2	<0.05	5	0.6	<0.2
1228202	356697	6873052	Soil	0.036	12	24	0.38	162	0.043	<1	1.76	0.015	0.08	0.3	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1228203	356778	6873113	Soil	0.026	9	14	0.31	88	0.065	<1	0.78	0.008	0.13	0.2	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
1228204	356864	6873155	Soil	0.024	9	30	0.44	172	0.073	<1	2.06	0.012	0.05	0.1	<0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1228205	356964	6873210	Soil	0.069	17	26	0.35	124	0.056	<1	1.21	0.013	0.06	0.7	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1228206	357043	6873257	Soil	0.032	11	24	0.41	108	0.067	<1	1.37	0.011	0.07	0.2	<0.01	2.2	<0.1	<0.05	6	0.7	<0.2
1228207	357139	6873278	Soil	0.081	16	27	0.44	236	0.037	<1	1.41	0.018	0.08	0.2	0.05	4.4	0.2	<0.05	5	0.6	<0.2
1228208	357236	6873303	Soil	0.067	11	22	0.33	236	0.03	<1	1.19	0.024	0.08	0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
1228209	357334	6873310	Soil	0.068	42	105	0.79	305	0.054	<1	2.17	0.008	0.17	<0.1	0.01	7.2	0.3	<0.05	7	0.7	<0.2
1228210	357430	6873302	Soil	0.049	9	27	0.4	185	0.07	<1	1.61	0.016	0.09	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1228211	357531	6873291	Soil	0.056	14	22	0.24	163	0.024	<1	1.17	0.01	0.06	<0.1	0.01	2.2	0.2	<0.05	5	0.8	<0.2
1228212	357624	6873262	Soil	0.037	13	22	0.33	205	0.029	<1	1.09	0.009	0.07	0.1	<0.01	2	<0.1	<0.05	4	<0.5	<0.2
1228213	357721	6873223	Soil	0.03	10	19	0.27	152	0.05	<1	0.87	0.015	0.07	0.3	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1228214	357815	6873190	Soil	0.072	34	18	0.17	130	0.009	<1	0.64	0.004	0.09	<0.1	0.01	2.6	0.2	<0.05	2	1.3	<0.2
1228215	357909	6873149	Soil	0.04	9	45	0.52	224	0.076	<1	1.93	0.014	0.09	0.2	0.01	3.5	0.1	<0.05	7	<0.5	<0.2
1220694	357017	6874655	Silt	0.097	24	25	0.23	127	0.066	<1	0.76	0.007	0.05	2.3	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1220695	357259	6874288	Silt	0.088	24	21	0.21	90	0.053	<1	0.56	0.008	0.04	2.7	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2

Rock Sample Results

UTM NAD83 Zone 8

			Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX			
			Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	
			Unit	KG	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPB	PPM	PPM	PPM	PPM	PPM	PPM	
			MDL	0.01	2	0.1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
Sample ID	Easting	Northing	Type																				
1224388	355694	6873468	Rock		1.37	5	0.4	29.4	10.8	81	<0.1	27.7	15.3	600	4.18	12.1	3.8	16.9	14	0.2	0.1	0.1	90
1224389	355870	6873288	Rock		0.84	5	0.3	10	10	18	<0.1	5.9	3.4	174	1.11	5.3	1.5	13.1	5	<0.1	0.3	<0.1	17

Sample ID	Easting	Northing	Type	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
				Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
				Unit	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM
				MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
1224388	355694	6873468	Rock		0.19	0.037	27	66	1	202	0.301	<20	2.43	0.052	1.12	0.1	<0.01	0.5	<0.05	9.8	0.6	10	<0.2
1224389	355870	6873288	Rock		0.05	0.009	10	14	0.21	43	0.079	<20	0.63	0.059	0.35	0.4	<0.01	0.2	<0.05	2.2	0.6	3	<0.2

Appendix III: Assay Certificates

Note: The majority of results on certificates WHI11001862.1, WHI11001863.1, and WHI11001717.1 are from another Goldspike Exploration property. Results for the Loto Property are best viewed in Appendix II.



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Submitted By: Bruce Durham

Receiving Lab: Canada-Whitehorse

Received: September 19, 2011

Report Date: November 16, 2011

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CERTIFICATE OF ANALYSIS

WHI11001862.1

CLIENT JOB INFORMATION

Project: LOT - BER
Shipment ID: BER+LOTsoils(1-10)
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	320	Saving all or part of Soil Reject			WHI
1DX2	319	1:1:1 Aqua Regia digestion 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. Acme 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:

LOT - BER

Report Date:

November 16, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11001862.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1
1223551	Soil	0.9	23.5	10.9	57	0.2	30.3	9.6	479	2.93	85.8	17.8	0.7	7	<0.1	1.2	0.2	59	0.06	0.054	12
1223552	Soil	0.5	10.5	9.2	24	<0.1	9.4	2.9	82	1.37	9.2	2.4	6.1	4	<0.1	0.2	0.2	42	0.01	0.016	22
1223553	Soil	1.0	27.4	12.1	48	0.2	27.9	7.1	206	3.00	35.3	4.1	0.9	6	<0.1	0.3	0.2	73	0.03	0.050	13
1223554	Soil	0.4	25.5	7.1	62	0.1	193.7	21.8	1061	3.16	6.9	2.6	0.8	16	0.1	0.2	0.1	71	0.17	0.067	9
1223555	Soil	0.6	37.9	11.5	75	0.1	80.3	16.3	477	3.60	16.9	4.8	3.1	8	0.1	0.3	0.2	80	0.12	0.054	13
1223556	Soil	0.5	19.1	7.9	49	<0.1	53.6	9.2	328	2.21	7.7	2.7	2.4	8	<0.1	0.2	0.2	62	0.10	0.030	11
1223557	Soil	1.1	24.6	10.3	55	0.2	34.8	7.5	257	2.72	17.1	4.8	0.8	8	<0.1	0.5	0.2	65	0.07	0.041	16
1223558	Soil	0.5	46.5	10.8	54	<0.1	81.9	17.3	304	3.51	12.5	0.8	1.6	11	<0.1	0.3	0.2	88	0.20	0.043	8
1223559	Soil	0.8	27.2	14.7	48	0.2	49.5	9.8	242	2.69	18.7	4.0	1.3	8	0.1	0.3	0.4	78	0.12	0.039	13
1223560	Soil	0.8	94.3	52.4	99	0.3	38.4	12.7	550	5.78	16.0	2.5	5.1	11	0.1	0.4	1.4	127	0.13	0.087	12
1223561	Soil	1.1	59.1	53.1	89	1.2	83.8	20.4	867	5.05	85.0	6.6	2.3	21	0.1	0.4	1.6	126	0.47	0.074	21
1223562	Soil	1.1	28.4	12.9	55	0.1	39.3	10.7	358	3.24	44.9	2.2	1.5	6	0.1	0.4	0.3	109	0.14	0.030	8
1223563	Soil	1.2	39.9	22.6	32	1.4	29.0	7.1	124	1.84	24.2	7.2	0.3	18	0.1	0.2	1.0	54	0.38	0.088	17
1223564	Soil	2.0	34.7	13.8	55	0.4	37.5	11.6	297	3.42	14.8	4.7	2.6	8	<0.1	0.4	0.4	114	0.10	0.032	9
1223565	Soil	0.4	11.1	12.3	9	0.1	4.6	1.7	50	0.60	1.1	1.5	0.5	5	<0.1	0.2	0.2	42	0.10	0.015	8
1223566	Soil	0.8	44.4	15.4	55	0.3	41.4	12.8	338	2.98	20.2	3.7	1.6	8	<0.1	0.4	0.4	69	0.17	0.047	12
1223567	Soil	0.8	29.5	12.9	42	0.5	33.5	10.6	252	2.98	11.4	3.5	2.5	7	<0.1	0.2	0.3	77	0.16	0.032	9
1223568	Soil	0.8	77.5	15.9	59	0.6	57.8	18.8	469	3.43	29.3	11.3	2.2	8	0.1	0.4	0.3	88	0.20	0.059	10
1223569	Soil	0.6	67.8	14.0	54	0.2	59.2	17.2	352	3.82	20.8	2.8	1.9	8	0.1	0.3	0.4	89	0.24	0.054	7
1223570	Soil	0.8	89.9	13.4	89	0.1	61.2	21.4	443	3.32	40.8	4.0	1.2	11	0.2	0.3	0.3	88	0.29	0.042	7
1223571	Soil	1.0	79.5	12.8	85	0.1	71.5	20.5	514	3.46	38.8	3.6	1.0	14	0.2	0.3	0.3	92	0.45	0.046	8
1223572	Soil	1.0	111.3	11.9	75	0.1	70.7	28.3	478	3.20	28.9	7.2	1.4	22	0.2	0.4	0.2	94	0.81	0.066	6
1223573	Soil	0.4	63.0	9.3	58	<0.1	59.5	17.6	440	2.89	14.2	2.7	1.5	17	0.1	0.2	0.2	80	0.77	0.067	6
1223574	Soil	0.6	43.6	10.4	43	0.2	42.5	14.6	298	2.80	13.6	3.5	2.1	7	0.1	0.3	0.2	72	0.26	0.029	7
1223575	Soil	0.4	71.3	9.7	47	0.1	75.7	22.0	473	3.08	13.8	3.8	2.1	13	<0.1	0.2	0.2	89	0.47	0.031	7
1223576	Soil	0.7	119.6	13.2	70	0.2	73.2	27.4	779	4.01	16.8	5.1	2.4	26	0.2	0.3	0.2	106	1.05	0.055	9
1223577	Soil	0.4	130.3	5.7	59	0.2	76.8	21.2	365	3.06	8.1	4.4	1.4	33	<0.1	0.1	0.1	83	1.23	0.064	8
1223578	Soil	0.5	192.9	5.2	56	<0.1	65.8	15.5	206	1.69	3.4	2.5	0.8	19	0.3	0.2	0.1	48	1.03	0.052	9
1223579	Soil	0.9	7.3	11.9	14	<0.1	27.3	3.9	133	0.87	1.5	4.1	2.2	5	<0.1	0.2	0.3	49	0.05	0.014	13
1223580	Soil	0.2	4.6	3.0	6	<0.1	4.3	1.3	36	0.39	<0.5	0.6	0.4	4	<0.1	<0.1	<0.1	18	0.06	0.006	2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1223551	Soil	65	0.52	102	0.057	2	1.76	0.008	0.16	0.4	0.05	2.2	0.3	<0.05	7	0.7	<0.2
1223552	Soil	17	0.15	43	0.099	1	0.60	0.003	0.14	<0.1	0.02	1.1	0.2	<0.05	6	<0.5	<0.2
1223553	Soil	54	0.35	61	0.074	1	1.41	0.005	0.14	0.3	0.03	2.0	0.2	<0.05	7	0.6	<0.2
1223554	Soil	179	1.31	201	0.106	2	2.17	0.014	0.13	<0.1	0.04	3.4	0.1	<0.05	6	<0.5	<0.2
1223555	Soil	109	0.93	157	0.154	1	2.38	0.009	0.24	0.7	0.04	4.8	0.3	<0.05	7	<0.5	<0.2
1223556	Soil	120	0.59	128	0.155	2	1.25	0.013	0.27	0.7	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
1223557	Soil	72	0.45	85	0.070	2	1.50	0.009	0.17	0.3	0.03	2.1	0.2	<0.05	7	0.6	<0.2
1223558	Soil	196	1.28	131	0.150	2	3.53	0.020	0.17	1.7	0.04	5.6	0.2	<0.05	7	<0.5	<0.2
1223559	Soil	142	0.71	80	0.123	1	1.65	0.014	0.15	1.7	0.04	3.3	0.3	<0.05	8	0.7	<0.2
1223560	Soil	72	0.93	192	0.176	2	2.90	0.008	0.39	6.3	0.04	8.5	0.4	<0.05	10	0.7	<0.2
1223561	Soil	164	1.38	267	0.134	2	2.77	0.016	0.21	5.0	0.14	9.7	0.5	<0.05	9	1.3	<0.2
1223562	Soil	90	0.71	85	0.178	1	1.46	0.018	0.08	1.5	0.02	3.9	0.1	<0.05	9	<0.5	<0.2
1223563	Soil	53	0.38	126	0.035	2	1.35	0.021	0.06	5.2	0.23	2.8	0.1	<0.05	5	0.8	<0.2
1223564	Soil	91	0.70	106	0.148	1	1.89	0.013	0.11	7.5	0.04	4.4	0.2	<0.05	9	0.8	<0.2
1223565	Soil	21	0.11	37	0.150	1	0.55	0.013	0.03	1.6	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
1223566	Soil	86	0.84	83	0.074	2	2.54	0.015	0.11	5.8	0.05	4.1	0.3	<0.05	7	1.0	<0.2
1223567	Soil	87	0.71	71	0.118	<1	2.25	0.014	0.09	7.3	0.03	4.7	0.2	<0.05	8	0.8	<0.2
1223568	Soil	108	1.02	149	0.089	1	3.30	0.019	0.16	9.4	0.09	6.3	0.3	<0.05	7	0.7	<0.2
1223569	Soil	129	1.10	107	0.127	1	3.38	0.024	0.12	11.4	0.07	6.6	0.1	<0.05	7	1.2	<0.2
1223570	Soil	116	1.12	117	0.104	2	2.32	0.025	0.14	9.4	0.04	5.5	0.1	<0.05	7	1.0	<0.2
1223571	Soil	135	1.12	127	0.102	1	2.37	0.023	0.12	6.0	0.05	5.3	0.1	<0.05	6	1.1	<0.2
1223572	Soil	149	1.42	159	0.175	1	2.46	0.073	0.33	6.5	0.07	7.0	0.3	<0.05	6	0.7	<0.2
1223573	Soil	114	1.24	180	0.139	<1	2.14	0.064	0.19	5.8	0.05	6.6	0.2	<0.05	6	1.2	<0.2
1223574	Soil	93	0.81	103	0.117	<1	2.44	0.024	0.13	6.6	0.05	5.2	0.2	<0.05	6	0.9	<0.2
1223575	Soil	131	1.33	136	0.173	1	2.56	0.049	0.17	3.7	0.02	6.2	0.1	<0.05	6	0.7	<0.2
1223576	Soil	141	1.38	240	0.180	2	2.59	0.078	0.37	4.0	0.07	9.4	0.4	<0.05	7	1.6	<0.2
1223577	Soil	123	1.18	239	0.149	2	2.64	0.066	0.08	1.5	0.11	6.5	0.2	<0.05	6	1.4	<0.2
1223578	Soil	79	0.67	160	0.077	1	1.33	0.034	0.09	1.7	0.03	2.7	<0.1	<0.05	4	1.1	<0.2
1223579	Soil	63	0.17	30	0.121	<1	0.56	0.008	0.04	0.2	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
1223580	Soil	14	0.11	26	0.057	<1	0.25	0.022	0.04	0.3	0.03	1.0	<0.1	<0.05	2	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1223581	Soil	0.7	51.2	8.3	52	<0.1	113.8	17.4	275	3.65	5.5	<0.5	3.0	8	0.1	0.3	0.1	77	0.24	0.022	8
1223582	Soil	0.5	9.8	6.8	28	<0.1	24.4	6.2	126	1.82	0.8	<0.5	1.8	6	<0.1	0.2	0.1	92	0.18	0.013	8
1223583	Soil	0.5	20.3	5.9	27	<0.1	30.5	7.7	135	1.74	1.1	3.5	1.4	5	<0.1	0.1	0.2	67	0.17	0.020	6
1223584	Soil	0.1	123.1	2.2	37	<0.1	56.0	16.6	270	2.23	2.0	3.3	1.1	14	<0.1	<0.1	<0.1	70	0.64	0.079	4
1223585	Soil	0.4	82.7	3.3	34	<0.1	56.3	13.3	240	1.89	3.0	1.0	1.2	15	<0.1	<0.1	<0.1	53	0.47	0.048	5
1223586	Soil	0.5	69.6	5.3	41	<0.1	94.4	15.9	326	2.32	3.4	3.1	2.4	19	<0.1	0.1	<0.1	58	0.54	0.053	9
1223587	Soil	0.6	7.9	9.2	89	<0.1	312.2	52.4	1138	4.98	43.4	2.4	3.0	5	0.4	1.3	0.2	40	0.03	0.032	15
1223588	Soil	0.7	10.3	10.2	61	<0.1	180.6	24.2	357	3.49	39.7	45.7	3.9	10	0.3	0.5	0.2	40	0.07	0.033	19
1223589	Soil	1.0	20.7	9.5	87	<0.1	154.8	19.0	440	4.11	94.4	73.0	5.1	14	0.3	0.6	0.2	62	0.13	0.059	15
1223590	Soil	0.7	16.7	7.9	56	0.2	358.3	20.5	361	2.82	261.3	10.6	2.2	19	0.1	0.9	0.2	37	0.19	0.045	15
1223591	Soil	0.5	17.2	9.3	90	0.3	378.2	19.1	612	3.13	466.8	48.6	1.9	34	0.5	1.1	0.2	38	0.40	0.146	14
1223592	Soil	0.8	38.9	11.8	82	0.6	250.7	18.8	484	3.99	429.7	11.9	4.1	22	0.2	1.1	0.3	58	0.23	0.088	59
1223593	Soil	0.7	28.9	12.1	87	0.7	78.2	10.0	300	2.62	144.3	1.9	2.4	30	0.7	0.6	0.2	59	0.32	0.086	54
1223594	Soil	1.1	22.3	8.3	80	0.2	93.9	12.4	308	2.80	31.7	3.8	3.5	16	0.3	0.4	0.2	52	0.14	0.047	18
1223595	Soil	1.2	14.2	6.0	56	0.3	89.4	11.1	254	1.89	16.3	1.7	1.5	16	0.4	0.3	0.1	39	0.16	0.042	12
1223596	Soil	1.8	25.6	9.9	74	0.3	117.6	12.0	239	2.67	14.5	3.0	4.4	24	0.3	0.6	0.2	48	0.28	0.085	21
1223597	Soil	15.8	59.6	17.9	74	0.8	104.6	7.7	208	3.01	27.6	11.2	4.2	34	0.4	2.4	0.2	81	0.05	0.033	14
1223598	Soil	0.7	7.7	5.1	13	0.6	18.5	1.6	36	0.57	4.2	0.8	0.1	7	0.2	0.1	<0.1	12	0.04	0.025	6
1223599	Soil	8.7	36.0	12.1	81	0.4	84.0	11.1	336	2.60	23.1	3.5	2.3	22	0.8	1.3	0.2	83	0.13	0.046	17
1223600	Soil	4.8	31.5	14.1	78	0.4	121.0	12.4	225	3.36	29.7	4.7	5.1	14	0.7	1.1	0.3	66	0.09	0.043	18
1227867	Soil	0.7	18.2	3.0	21	0.1	7.8	3.8	152	1.17	2.4	0.9	1.3	35	<0.1	0.2	<0.1	33	0.45	0.055	12
1227868	Soil	1.5	14.4	5.3	34	<0.1	10.6	6.5	279	1.94	4.3	3.1	5.8	23	<0.1	0.2	0.1	51	0.33	0.050	18
1227869	Soil	2.0	18.0	5.9	37	<0.1	11.3	7.4	339	2.16	5.1	1.5	8.0	31	0.1	0.3	0.1	57	0.41	0.051	24
1227870	Soil	0.8	9.0	3.9	28	<0.1	6.9	4.6	123	1.58	2.5	20.0	3.8	16	0.1	0.2	<0.1	48	0.21	0.034	8
1227871	Soil	0.8	16.3	5.2	41	<0.1	11.9	7.9	369	2.14	4.4	<0.5	5.1	27	0.2	0.4	0.1	58	0.35	0.048	12
1227872	Soil	0.9	25.2	6.3	42	0.2	14.1	9.6	442	2.36	5.2	1.6	5.8	63	0.3	0.5	0.1	57	0.86	0.075	29
1227873	Soil	0.5	14.1	5.3	35	<0.1	14.1	6.6	190	2.04	6.3	167.0	6.3	18	<0.1	0.3	0.1	53	0.28	0.035	12
1227874	Soil	2.6	64.7	3.9	68	0.3	41.9	8.0	234	1.87	11.2	2.7	4.0	54	0.4	0.7	0.1	57	0.75	0.059	21
1227875	Soil	3.4	49.8	4.6	85	0.6	29.0	7.5	341	1.80	13.1	4.1	1.0	35	0.3	0.8	0.4	84	0.39	0.083	10
1227876	Soil	2.2	40.9	6.9	117	0.5	39.2	15.4	645	2.59	25.3	3.0	1.6	30	1.1	1.5	0.4	88	0.26	0.066	13



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Part 2

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1223581	Soil	160	1.11	91	0.140	2	2.56	0.026	0.07	0.7	0.03	5.2	<0.1	<0.05	6	0.6	<0.2
1223582	Soil	56	0.51	39	0.153	<1	1.09	0.021	0.04	0.1	<0.01	2.8	<0.1	<0.05	8	<0.5	<0.2
1223583	Soil	64	0.57	53	0.133	<1	1.07	0.024	0.07	0.2	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
1223584	Soil	79	1.19	133	0.142	1	1.66	0.069	0.23	0.7	0.02	4.6	0.1	<0.05	5	<0.5	<0.2
1223585	Soil	85	0.88	126	0.115	<1	1.45	0.066	0.16	0.9	<0.01	3.8	0.1	<0.05	4	<0.5	<0.2
1223586	Soil	133	1.04	146	0.128	<1	1.67	0.058	0.14	0.8	0.02	4.6	0.1	<0.05	5	<0.5	<0.2
1223587	Soil	354	1.08	84	0.030	<1	0.91	0.005	0.02	0.3	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1223588	Soil	188	0.81	84	0.043	<1	1.26	0.008	0.04	0.4	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1223589	Soil	146	1.24	143	0.081	<1	2.28	0.013	0.13	0.8	0.01	6.0	0.3	<0.05	8	<0.5	<0.2
1223590	Soil	166	1.02	105	0.027	<1	1.60	0.012	0.05	0.8	0.03	3.7	0.2	<0.05	5	0.5	<0.2
1223591	Soil	155	1.16	138	0.027	3	1.93	0.019	0.09	1.6	0.04	3.9	0.2	0.06	6	0.6	<0.2
1223592	Soil	131	1.29	178	0.048	3	2.60	0.017	0.20	1.1	0.05	8.1	0.4	0.05	8	0.8	<0.2
1223593	Soil	83	1.50	151	0.066	1	2.21	0.027	0.08	0.3	0.04	4.5	0.2	<0.05	7	1.1	<0.2
1223594	Soil	108	1.12	128	0.079	<1	1.90	0.017	0.14	0.3	<0.01	4.6	0.2	<0.05	7	<0.5	<0.2
1223595	Soil	102	0.88	97	0.050	<1	1.27	0.019	0.09	0.3	0.01	2.8	0.2	<0.05	5	<0.5	<0.2
1223596	Soil	118	1.04	154	0.073	<1	1.71	0.022	0.14	0.3	0.03	4.8	0.3	<0.05	6	0.9	<0.2
1223597	Soil	117	1.01	114	0.062	1	1.95	0.020	0.10	0.5	0.03	4.3	0.8	0.07	7	2.9	<0.2
1223598	Soil	31	0.15	39	0.013	<1	0.38	0.020	0.04	0.3	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1223599	Soil	86	0.90	128	0.050	<1	1.75	0.016	0.10	0.4	0.03	3.5	0.5	<0.05	6	1.9	<0.2
1223600	Soil	138	0.92	88	0.074	<1	1.98	0.010	0.11	0.6	0.02	4.2	0.3	<0.05	6	1.1	<0.2
1227867	Soil	10	0.19	129	0.047	<1	0.66	0.037	0.04	0.1	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1227868	Soil	19	0.31	155	0.074	<1	1.03	0.016	0.06	0.6	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
1227869	Soil	21	0.37	213	0.095	<1	1.36	0.023	0.07	0.6	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
1227870	Soil	13	0.25	76	0.093	<1	0.78	0.024	0.06	0.3	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1227871	Soil	20	0.35	206	0.113	<1	1.24	0.022	0.08	0.3	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
1227872	Soil	22	0.42	318	0.090	2	1.68	0.024	0.11	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
1227873	Soil	23	0.38	136	0.105	<1	1.25	0.017	0.07	0.3	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
1227874	Soil	29	0.33	259	0.088	<1	1.01	0.028	0.10	0.3	0.05	2.9	0.1	0.06	4	1.3	<0.2
1227875	Soil	42	0.37	120	0.068	<1	1.20	0.026	0.07	0.2	0.04	2.8	0.1	<0.05	5	1.8	<0.2
1227876	Soil	48	0.44	165	0.089	1	1.41	0.020	0.13	0.2	0.02	3.4	0.2	<0.05	5	1.0	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1227877	Soil	1.2	20.8	6.0	79	0.9	23.5	8.8	242	2.16	12.1	1.2	2.6	26	0.6	0.8	0.4	62	0.33	0.064	13
1227878	Soil	0.7	32.4	3.5	56	0.4	17.7	7.0	397	1.55	9.0	0.9	1.3	48	1.3	0.9	<0.1	46	0.59	0.071	6
1227879	Soil	1.1	12.8	5.4	51	0.7	16.0	6.9	252	1.96	11.5	1.0	1.8	22	0.5	0.6	0.2	62	0.25	0.038	9
1227880	Soil	1.0	22.2	3.5	62	0.8	25.0	5.7	192	1.46	21.9	7.6	0.7	20	0.3	1.0	0.2	53	0.24	0.058	4
1227881	Soil	3.5	40.7	14.4	92	0.1	70.4	12.1	299	3.29	5.2	2.1	6.6	22	0.2	0.3	0.4	68	0.06	0.026	27
1227882	Soil	2.0	35.1	12.1	77	0.4	58.7	12.4	258	3.11	8.7	2.2	5.1	18	0.2	0.5	0.3	46	0.06	0.048	22
1227883	Soil	0.9	39.5	14.1	121	0.7	68.8	8.1	173	2.58	4.0	9.4	3.8	13	0.5	0.3	0.2	80	0.12	0.060	20
1227884	Soil	0.7	24.4	7.6	90	0.1	64.2	7.1	226	2.58	3.0	1.6	2.6	8	0.2	0.3	0.2	87	0.07	0.037	18
1227885	Soil	0.4	31.8	6.8	65	0.6	37.6	5.7	162	1.49	1.6	2.4	1.6	30	0.2	0.3	0.1	46	0.44	0.043	15
1227886	Soil	0.9	36.0	8.9	93	0.9	56.6	9.5	347	2.06	3.7	2.7	2.1	32	0.3	0.3	0.1	61	0.55	0.058	16
1227887	Soil	2.0	80.3	9.1	127	1.3	64.2	10.8	555	2.26	3.7	4.1	2.5	46	2.4	0.5	0.2	65	0.90	0.051	21
1227888	Soil	4.1	91.5	10.5	134	0.9	97.7	12.7	393	2.37	5.6	5.2	4.2	49	2.0	0.8	0.2	70	0.73	0.040	20
1227889	Soil	2.2	19.1	11.1	120	0.6	46.6	5.7	235	1.83	2.4	1.4	2.0	8	2.0	0.8	0.2	98	0.06	0.027	8
1227890	Soil	2.1	55.5	8.3	118	1.0	72.1	11.4	459	2.19	4.4	1.8	2.8	36	2.7	0.8	0.2	70	0.55	0.056	15
1227891	Soil	2.2	31.0	9.7	117	0.1	53.0	5.8	457	1.99	3.4	<0.5	2.9	11	0.5	0.6	0.2	109	0.08	0.030	10
1227892	Soil	3.8	23.8	10.1	100	0.6	53.7	7.3	301	2.09	3.0	2.8	2.3	22	0.8	0.6	0.3	71	0.29	0.031	11
1227893	Soil	1.6	15.2	5.5	38	0.5	28.0	2.9	172	0.95	2.0	1.1	1.0	14	0.3	0.3	0.2	36	0.16	0.023	7
1227894	Soil	1.9	13.1	10.7	112	0.4	48.9	6.9	192	2.57	5.7	3.9	3.3	9	1.4	0.6	0.3	70	0.05	0.027	11
1227895	Soil	5.8	80.9	13.9	30	4.2	44.5	21.1	1053	2.12	29.9	4.7	1.7	68	2.5	1.0	0.8	19	1.42	0.145	60
1227896	Soil	3.0	18.5	13.3	66	0.3	54.2	9.2	177	3.82	14.6	1.5	5.3	11	0.3	1.0	0.4	62	0.04	0.050	12
1227897	Soil	2.1	10.4	9.1	46	0.2	51.9	6.5	131	1.69	12.7	1.5	2.9	10	0.3	0.6	0.2	51	0.07	0.015	10
1227898	Soil	3.6	137.2	13.7	136	1.3	158.3	13.4	411	2.40	10.9	5.9	2.3	44	4.5	1.0	0.3	59	0.95	0.076	59
1227899	Soil	3.4	86.8	12.0	137	1.1	127.7	12.4	376	2.13	10.6	4.4	1.7	45	4.0	0.9	0.2	56	1.00	0.066	41
1227900	Soil	2.7	98.8	10.4	101	1.7	119.6	10.3	225	2.07	9.0	9.2	1.5	44	3.5	1.3	0.3	48	0.97	0.093	62
1227951	Soil	0.6	4.8	5.9	21	0.3	21.6	3.2	79	0.79	3.8	0.8	3.2	7	0.2	0.5	0.1	23	0.09	0.020	14
1227952	Soil	0.8	5.6	8.4	27	<0.1	37.5	5.6	118	1.12	6.0	0.8	2.7	9	0.2	0.6	0.1	29	0.10	0.015	12
1227953	Soil	1.6	12.9	8.6	48	0.1	75.6	11.0	210	2.26	8.0	1.1	2.8	9	0.2	1.0	0.1	43	0.13	0.015	11
1227954	Soil	1.7	11.0	7.1	58	0.2	52.8	9.2	198	2.32	7.2	0.9	2.7	7	0.3	0.9	0.1	42	0.09	0.021	11
1227955	Soil	1.5	10.9	9.6	42	<0.1	37.0	6.8	174	2.00	5.0	7.3	3.3	10	0.1	0.5	0.1	32	0.10	0.022	12
1227956	Soil	3.4	40.3	5.5	70	0.2	89.1	18.5	513	4.67	24.4	2.4	2.2	10	<0.1	1.3	0.1	117	0.11	0.039	9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1227877	Soil	35	0.44	115	0.093	<1	1.24	0.018	0.10	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1227878	Soil	24	0.26	216	0.061	1	0.82	0.043	0.07	0.2	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1227879	Soil	28	0.33	93	0.083	<1	0.99	0.016	0.06	0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1227880	Soil	25	0.25	113	0.056	<1	0.89	0.039	0.09	0.1	0.05	2.6	0.1	<0.05	3	0.7	<0.2
1227881	Soil	80	1.04	162	0.101	<1	2.50	0.017	0.28	0.2	<0.01	5.7	0.4	<0.05	8	0.7	<0.2
1227882	Soil	77	0.79	73	0.040	<1	2.52	0.013	0.08	0.2	0.03	3.0	0.2	<0.05	7	0.5	<0.2
1227883	Soil	114	1.52	258	0.148	<1	2.85	0.012	0.35	0.2	0.03	8.2	0.2	<0.05	10	1.1	<0.2
1227884	Soil	147	1.59	124	0.187	<1	2.13	0.013	0.22	0.2	<0.01	6.0	0.1	<0.05	13	0.6	<0.2
1227885	Soil	61	1.24	205	0.095	<1	1.95	0.030	0.09	0.1	0.02	4.0	0.1	<0.05	7	1.4	<0.2
1227886	Soil	92	1.76	204	0.119	<1	2.57	0.030	0.07	0.2	0.02	5.5	0.1	<0.05	8	1.7	<0.2
1227887	Soil	82	1.94	192	0.124	<1	2.76	0.063	0.12	0.2	0.03	6.3	0.3	<0.05	8	1.9	<0.2
1227888	Soil	93	1.63	201	0.118	<1	2.43	0.082	0.18	0.2	0.02	6.0	0.3	<0.05	8	2.1	<0.2
1227889	Soil	76	0.93	84	0.099	2	1.63	0.010	0.04	0.2	0.03	3.6	<0.1	<0.05	10	1.0	<0.2
1227890	Soil	70	1.33	190	0.082	2	2.12	0.032	0.12	0.3	0.03	4.7	0.2	0.05	7	3.0	<0.2
1227891	Soil	82	1.51	123	0.139	1	1.91	0.014	0.15	0.2	0.02	6.2	0.1	0.05	12	1.6	<0.2
1227892	Soil	70	0.98	138	0.087	2	1.65	0.010	0.07	0.3	0.02	3.7	<0.1	<0.05	8	2.0	<0.2
1227893	Soil	38	0.51	67	0.048	<1	0.82	0.014	0.06	0.2	0.02	1.9	<0.1	<0.05	5	1.3	<0.2
1227894	Soil	80	0.71	106	0.068	<1	1.42	0.008	0.06	0.4	0.01	2.9	<0.1	<0.05	8	0.6	<0.2
1227895	Soil	20	0.20	178	0.013	2	1.89	0.016	0.04	0.1	0.10	2.0	0.2	0.11	3	7.8	<0.2
1227896	Soil	65	0.58	86	0.039	1	2.17	0.005	0.04	0.4	0.04	2.3	<0.1	<0.05	9	0.8	<0.2
1227897	Soil	79	0.65	75	0.045	1	1.30	0.004	0.05	0.2	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
1227898	Soil	75	0.96	153	0.028	1	2.23	0.021	0.07	0.1	0.05	3.4	0.2	<0.05	6	3.8	<0.2
1227899	Soil	73	0.98	170	0.030	2	1.85	0.021	0.08	0.2	0.04	2.9	0.2	<0.05	5	3.7	<0.2
1227900	Soil	70	0.81	192	0.022	2	1.77	0.015	0.08	0.1	0.06	2.4	0.2	0.10	5	3.8	<0.2
1227951	Soil	46	0.31	78	0.026	2	0.71	0.009	0.04	0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1227952	Soil	64	0.54	111	0.029	1	0.82	0.004	0.05	0.2	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
1227953	Soil	114	1.04	130	0.025	<1	1.34	0.005	0.09	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1227954	Soil	99	0.94	95	0.027	<1	1.36	0.007	0.07	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1227955	Soil	58	0.77	124	0.021	1	1.34	0.006	0.07	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1227956	Soil	115	1.49	342	0.015	2	2.30	0.005	0.08	<0.1	0.02	8.0	<0.1	<0.05	8	1.1	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1227957	Soil	1.5	25.2	10.2	48	0.1	86.8	10.8	212	2.31	6.5	2.6	4.2	8	0.2	0.7	0.2	43	0.12	0.025	13
1227958	Soil	2.4	16.0	7.8	50	0.1	46.0	7.5	150	1.88	5.9	2.1	3.1	9	0.1	0.8	0.1	30	0.11	0.015	14
1227959	Soil	2.4	12.3	9.7	45	<0.1	29.9	5.9	142	1.88	6.1	2.2	3.4	8	0.2	0.7	0.1	27	0.09	0.016	14
1227960	Soil	1.6	6.3	7.7	31	<0.1	17.3	3.8	103	1.04	3.9	2.0	2.5	6	0.1	0.5	0.1	23	0.07	0.017	14
1227961	Soil	1.3	15.3	10.9	48	0.5	32.3	6.0	178	1.65	4.7	0.8	1.3	9	0.3	0.5	0.2	29	0.08	0.038	11
1227962	Soil	1.3	7.8	8.8	36	0.1	18.7	4.4	136	1.48	3.9	2.5	3.4	7	0.2	0.4	0.2	25	0.08	0.014	15
1227963	Soil	1.9	15.1	10.0	48	0.2	43.9	8.0	194	2.34	7.5	2.7	3.9	7	0.1	0.8	0.2	28	0.07	0.023	14
1227964	Soil	1.7	11.8	9.9	47	0.2	34.7	6.2	187	2.23	6.1	8.3	3.4	7	<0.1	0.7	0.2	31	0.08	0.022	14
1227965	Soil	2.4	43.1	18.9	82	0.6	84.5	11.0	407	2.63	13.5	4.7	7.4	26	0.3	1.4	0.2	28	0.57	0.055	24
1227966	Soil	1.9	19.7	10.5	85	0.5	37.4	7.1	212	2.41	7.8	3.2	4.4	9	0.3	0.8	0.2	31	0.10	0.018	14
1227967	Soil	2.0	10.1	18.9	81	0.3	21.8	5.9	169	2.43	6.6	3.8	5.1	6	0.3	0.6	0.2	29	0.06	0.019	19
1227968	Soil	1.6	10.3	28.7	111	0.2	22.6	4.8	155	2.30	7.7	3.4	4.5	6	0.5	0.9	0.2	29	0.06	0.019	18
1227969	Soil	0.8	3.5	10.5	31	<0.1	12.4	2.6	96	0.81	4.4	2.7	3.8	7	0.1	0.4	0.2	20	0.07	0.008	22
1227970	Soil	0.6	5.3	20.8	59	0.1	17.3	3.5	134	1.26	7.0	4.0	4.7	9	0.2	0.7	0.1	21	0.12	0.011	21
1227971	Soil	1.1	3.8	22.0	37	<0.1	10.2	2.9	139	0.98	33.0	2.4	3.8	7	0.2	0.9	0.2	20	0.07	0.011	22
1227972	Soil	1.0	6.1	22.5	50	<0.1	15.7	4.3	142	1.68	10.9	2.7	4.9	8	0.2	1.1	0.2	26	0.08	0.010	19
1227973	Soil	0.8	5.1	16.8	38	0.3	9.5	2.8	104	1.14	4.6	1.6	4.4	6	0.1	0.7	0.2	27	0.05	0.012	16
1227974	Soil	1.1	10.6	14.4	69	0.2	22.2	5.1	170	2.39	6.2	2.6	4.6	8	0.2	1.0	0.2	30	0.07	0.022	15
1227975	Soil	0.8	9.8	29.6	40	0.6	12.0	2.9	84	1.05	2.8	2.9	4.0	8	<0.1	0.7	0.2	20	0.06	0.012	16
1227976	Soil	0.5	1.9	8.8	22	<0.1	1.5	0.8	30	0.35	0.5	<0.5	2.5	4	<0.1	0.5	<0.1	8	0.03	0.013	24
1227977	Soil	0.4	2.8	11.0	17	<0.1	4.7	1.1	35	0.47	0.9	1.4	1.8	4	<0.1	0.3	<0.1	11	0.04	0.015	11
1227978	Soil	0.9	11.1	17.1	82	<0.1	28.4	8.0	189	2.71	5.6	2.1	4.3	12	0.1	2.8	0.2	25	0.15	0.032	11
1227979	Soil	0.9	35.9	21.4	88	0.7	40.6	9.5	481	2.15	7.3	3.2	8.7	82	0.7	1.6	0.2	20	1.20	0.052	107
1227980	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.
1227981	Soil	1.8	43.0	13.8	141	0.9	70.3	12.6	746	2.27	9.6	3.6	3.7	70	1.3	1.2	0.2	25	1.03	0.047	18
1227982	Soil	1.1	38.5	11.6	86	0.9	48.6	7.8	451	1.75	7.2	5.4	1.5	83	1.5	1.4	0.2	18	1.29	0.066	15
1227983	Soil	0.6	17.6	8.7	79	0.5	20.4	4.7	459	1.18	2.5	1.4	1.4	67	2.1	0.6	0.2	13	0.85	0.039	7
1227984	Soil	1.4	29.5	12.8	55	0.4	91.1	13.1	458	2.12	7.8	2.9	5.6	43	0.3	0.7	0.3	28	0.56	0.030	13
1227985	Soil	0.4	12.0	11.8	36	<0.1	32.7	8.6	240	1.83	4.3	5.0	5.0	16	<0.1	0.3	0.2	26	0.17	0.018	10
1227986	Soil	1.9	7.8	11.8	38	<0.1	20.1	4.4	144	1.45	7.7	1.7	3.9	11	0.1	0.6	0.2	23	0.13	0.040	12



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1227957	Soil	104	1.00	132	0.045	1	1.81	0.005	0.08	0.1	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1227958	Soil	66	0.78	135	0.021	1	1.40	0.005	0.07	0.1	<0.01	2.3	<0.1	<0.05	4	0.5	<0.2
1227959	Soil	44	0.56	88	0.023	1	1.26	0.005	0.06	0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1227960	Soil	36	0.37	79	0.022	<1	0.88	0.005	0.05	<0.1	<0.01	1.5	<0.1	<0.05	4	0.5	<0.2
1227961	Soil	59	0.39	161	0.013	1	1.21	0.012	0.08	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
1227962	Soil	34	0.40	83	0.030	2	1.07	0.004	0.06	0.1	<0.01	1.8	<0.1	<0.05	4	1.1	<0.2
1227963	Soil	61	0.69	85	0.027	1	1.33	0.009	0.07	0.1	<0.01	2.1	<0.1	<0.05	4	0.8	<0.2
1227964	Soil	55	0.70	71	0.031	1	1.25	0.008	0.08	0.2	<0.01	2.2	<0.1	<0.05	4	0.8	<0.2
1227965	Soil	72	0.98	205	0.020	2	1.38	0.007	0.11	0.1	0.08	3.3	0.1	<0.05	4	1.3	<0.2
1227966	Soil	51	0.70	90	0.035	1	1.37	0.005	0.07	0.2	<0.01	2.5	<0.1	<0.05	5	0.9	<0.2
1227967	Soil	34	0.58	86	0.018	2	1.61	0.007	0.07	0.2	0.01	2.6	0.1	<0.05	5	<0.5	<0.2
1227968	Soil	37	0.57	111	0.017	<1	1.43	0.009	0.07	0.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
1227969	Soil	22	0.28	67	0.031	<1	0.71	0.004	0.05	0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
1227970	Soil	32	0.59	84	0.036	1	1.06	0.005	0.09	0.2	<0.01	1.5	0.1	<0.05	4	<0.5	<0.2
1227971	Soil	23	0.36	81	0.021	<1	0.90	0.005	0.10	0.1	<0.01	1.3	0.1	<0.05	4	<0.5	<0.2
1227972	Soil	36	0.59	75	0.039	<1	1.17	0.005	0.10	0.2	<0.01	1.6	0.1	<0.05	5	<0.5	<0.2
1227973	Soil	24	0.33	82	0.034	<1	0.99	0.003	0.07	0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
1227974	Soil	40	0.71	107	0.034	<1	1.51	0.005	0.10	0.2	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
1227975	Soil	26	0.35	87	0.020	<1	1.17	0.010	0.09	0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
1227976	Soil	7	0.08	27	0.009	<1	0.45	0.006	0.07	<0.1	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
1227977	Soil	13	0.11	40	0.014	1	0.52	0.013	0.06	0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
1227978	Soil	59	1.33	81	0.053	2	1.98	0.007	0.36	0.1	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
1227979	Soil	39	0.71	145	0.023	2	1.61	0.011	0.11	0.2	0.06	3.7	0.2	<0.05	4	0.8	<0.2
1227980	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.
1227981	Soil	41	0.69	167	0.023	2	1.28	0.007	0.11	0.1	0.04	2.8	<0.1	<0.05	4	0.7	<0.2
1227982	Soil	36	0.57	124	0.012	2	1.18	0.009	0.08	0.1	0.07	1.7	<0.1	0.08	3	2.9	<0.2
1227983	Soil	22	0.44	88	0.012	<1	0.88	0.011	0.06	<0.1	0.01	0.9	<0.1	0.05	3	1.7	<0.2
1227984	Soil	78	0.91	105	0.045	<1	1.12	0.012	0.11	0.3	0.03	2.2	0.1	<0.05	3	1.4	<0.2
1227985	Soil	47	0.53	76	0.065	<1	1.11	0.006	0.07	0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1227986	Soil	33	0.42	56	0.039	<1	0.80	0.005	0.08	0.1	<0.01	1.1	<0.1	<0.05	4	0.6	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1227987	Soil																							
1227988	Soil																							
1227989	Soil																							
1227990	Soil																							
1227991	Soil																							
1227992	Soil																							
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1228211	Soil																							
1228212	Soil																							
1228213	Soil																							
1228214	Soil																							
1228215	Soil																							
1228216	Soil																							



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1227987	Soil	39	0.54	168	0.014	3	1.06	0.013	0.08	<0.1	0.10	1.0	<0.1	0.12	3	4.8	<0.2
1227988	Soil	59	0.72	97	0.055	<1	0.96	0.011	0.14	0.3	0.01	2.2	0.1	<0.05	3	1.3	<0.2
1227989	Soil	63	0.74	243	0.036	<1	1.25	0.011	0.12	0.2	0.05	2.5	0.1	<0.05	4	3.6	<0.2
1227990	Soil	60	0.73	265	0.033	3	1.38	0.013	0.13	0.1	0.07	2.4	0.1	0.07	4	3.4	<0.2
1227991	Soil	33	0.50	256	0.019	3	0.86	0.013	0.07	0.1	0.06	1.2	<0.1	0.12	3	4.7	<0.2
1227992	Soil	55	0.68	249	0.034	1	1.21	0.012	0.12	0.1	0.04	2.2	0.1	0.06	4	2.3	<0.2
1227993	Soil	41	0.60	237	0.023	2	1.14	0.018	0.09	<0.1	0.05	1.7	<0.1	0.08	3	4.4	<0.2
1227994	Soil	39	0.44	248	0.016	2	1.10	0.017	0.06	<0.1	0.06	0.7	<0.1	0.14	3	7.7	<0.2
1227995	Soil	83	0.66	59	0.042	<1	1.20	0.006	0.07	0.3	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
1227996	Soil	58	0.46	72	0.038	<1	1.20	0.007	0.05	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
1227997	Soil	57	0.26	77	0.031	<1	1.13	0.007	0.04	0.4	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
1227998	Soil	74	0.49	69	0.043	<1	1.27	0.005	0.05	0.3	<0.01	1.4	<0.1	<0.05	4	0.8	<0.2
1227999	Soil	21	0.11	56	0.027	<1	0.66	0.022	0.03	0.1	0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
1228000	Soil	56	0.31	61	0.038	<1	0.86	0.017	0.04	0.2	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
1228201	Soil	12	0.35	227	0.005	<1	1.95	0.009	0.15	<0.1	<0.01	1.7	0.2	<0.05	5	0.6	<0.2
1228202	Soil	24	0.38	162	0.043	<1	1.76	0.015	0.08	0.3	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
1228203	Soil	14	0.31	88	0.065	<1	0.78	0.008	0.13	0.2	<0.01	1.6	0.1	<0.05	4	<0.5	<0.2
1228204	Soil	30	0.44	172	0.073	<1	2.06	0.012	0.05	0.1	<0.01	2.4	0.1	<0.05	7	<0.5	<0.2
1228205	Soil	26	0.35	124	0.056	<1	1.21	0.013	0.06	0.7	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1228206	Soil	24	0.41	108	0.067	<1	1.37	0.011	0.07	0.2	<0.01	2.2	<0.1	<0.05	6	0.7	<0.2
1228207	Soil	27	0.44	236	0.037	<1	1.41	0.018	0.08	0.2	0.05	4.4	0.2	<0.05	5	0.6	<0.2
1228208	Soil	22	0.33	236	0.030	<1	1.19	0.024	0.08	0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
1228209	Soil	105	0.79	305	0.054	<1	2.17	0.008	0.17	<0.1	0.01	7.2	0.3	<0.05	7	0.7	<0.2
1228210	Soil	27	0.40	185	0.070	<1	1.61	0.016	0.09	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
1228211	Soil	22	0.24	163	0.024	<1	1.17	0.010	0.06	<0.1	0.01	2.2	0.2	<0.05	5	0.8	<0.2
1228212	Soil	22	0.33	205	0.029	<1	1.09	0.009	0.07	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1228213	Soil	19	0.27	152	0.050	<1	0.87	0.015	0.07	0.3	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1228214	Soil	18	0.17	130	0.009	<1	0.64	0.004	0.09	<0.1	0.01	2.6	0.2	<0.05	2	1.3	<0.2
1228215	Soil	45	0.52	224	0.076	<1	1.93	0.014	0.09	0.2	0.01	3.5	0.1	<0.05	7	<0.5	<0.2
1228216	Soil	53	0.52	105	0.138	<1	1.84	0.007	0.25	0.6	0.04	3.0	0.6	<0.05	7	0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1228217	Soil				0.4	52.5	8.0	82	<0.1	249.2	27.2	580	4.37	13.2	0.6	3.1	36	0.1	0.1	0.1	92	0.13	0.059	12
1228218	Soil				0.7	16.6	10.9	58	0.1	46.4	8.2	202	2.76	9.1	0.5	1.3	8	<0.1	0.3	0.2	56	0.07	0.041	15
1228219	Soil				1.2	17.5	13.9	55	<0.1	32.8	8.1	339	2.92	4.7	2.6	0.7	8	<0.1	0.4	0.4	54	0.07	0.068	11
1228220	Soil				1.2	31.7	11.9	69	<0.1	56.5	11.7	352	3.64	17.4	1.4	2.8	7	<0.1	0.3	0.3	77	0.07	0.038	9
1228221	Soil				1.0	47.9	15.2	71	0.2	76.4	17.2	506	4.14	33.0	3.8	3.1	9	0.1	0.5	0.3	92	0.14	0.071	11
1228222	Soil				0.6	23.4	8.0	33	0.1	37.2	8.1	246	1.88	5.3	<0.5	0.6	8	<0.1	0.2	0.2	54	0.11	0.038	9
1228223	Soil				1.9	114.7	137.7	134	0.8	56.4	27.9	1076	5.78	33.2	4.0	9.8	13	0.6	0.4	6.8	84	0.29	0.128	37
1228224	Soil				1.1	51.4	32.5	73	0.3	29.5	10.8	422	4.00	14.7	1.6	1.2	7	<0.1	0.3	1.4	105	0.07	0.046	10
1228225	Soil				1.1	77.2	37.6	103	0.1	61.9	20.2	1067	5.23	183.1	6.8	5.3	13	0.1	0.7	1.1	81	0.14	0.085	15
1228226	Soil				0.6	87.6	6.5	83	0.1	154.6	28.7	772	4.63	57.2	3.2	2.2	27	0.2	0.4	0.2	123	0.64	0.106	10
1228227	Soil				0.5	102.4	10.7	52	0.2	59.0	24.3	481	3.83	16.5	2.0	0.8	14	<0.1	0.3	0.2	93	0.44	0.032	5
1228228	Soil				0.6	36.9	42.1	99	<0.1	30.2	19.2	410	5.23	2.8	<0.5	0.9	10	<0.1	0.2	0.5	173	0.26	0.040	3
1228229	Soil				0.5	17.7	2.6	8	0.3	6.5	2.9	396	0.49	2.7	0.7	<0.1	18	<0.1	<0.1	<0.1	15	0.50	0.044	3
1228230	Soil				0.8	56.9	16.0	71	0.2	64.7	18.4	409	4.04	25.8	2.8	2.7	7	0.2	0.5	0.3	91	0.19	0.040	8
1228231	Soil				0.7	61.4	15.0	61	0.3	59.5	21.2	512	3.40	44.8	5.9	2.3	9	0.2	0.5	0.4	80	0.26	0.054	9
1228232	Soil				0.4	24.3	7.0	26	0.6	20.1	5.6	125	1.29	6.6	2.4	0.1	7	<0.1	0.2	0.2	33	0.14	0.041	6
1228233	Soil				0.5	51.0	14.7	56	<0.1	51.2	15.9	493	3.42	21.4	<0.5	1.3	6	0.1	0.4	0.3	82	0.21	0.076	6
1228234	Soil				0.3	14.6	3.0	15	0.1	10.8	4.2	68	0.71	1.9	<0.5	<0.1	7	<0.1	<0.1	<0.1	21	0.19	0.033	3
1228235	Soil				2.2	94.3	10.6	82	0.3	72.0	23.7	696	4.15	64.2	1.1	1.2	21	0.3	0.3	0.2	104	0.90	0.063	10
1228236	Soil				0.4	56.9	6.1	43	0.3	32.8	6.7	238	1.48	7.1	0.7	0.3	15	<0.1	0.2	0.1	33	0.60	0.053	6
1228237	Soil				0.6	102.8	7.5	49	<0.1	83.4	13.0	232	2.55	9.3	<0.5	1.9	12	<0.1	0.2	0.1	61	0.47	0.072	7
1228238	Soil				0.8	138.6	13.4	60	0.2	72.0	19.7	501	3.26	17.6	4.3	2.2	19	0.1	0.3	0.2	89	0.77	0.076	9
1228239	Soil				0.3	78.7	3.5	30	0.2	31.8	7.9	127	1.62	4.2	<0.5	0.5	18	<0.1	0.1	<0.1	40	0.81	0.056	6
1228240	Soil				0.4	273.8	4.9	44	<0.1	83.7	21.5	250	2.38	3.7	1.3	1.7	15	<0.1	<0.1	<0.1	75	0.75	0.076	10
1228241	Soil				0.7	59.9	13.8	56	<0.1	56.1	16.1	306	3.17	16.3	<0.5	2.1	6	0.1	0.2	0.2	91	0.22	0.030	5
1228242	Soil				0.6	100.8	7.3	59	<0.1	98.7	22.8	413	3.55	4.9	<0.5	2.2	9	<0.1	0.2	0.2	99	0.33	0.029	6
1228243	Soil				0.6	46.2	6.3	27	0.1	47.9	9.5	128	1.95	1.8	<0.5	1.0	8	<0.1	0.1	0.1	67	0.18	0.024	5
1228244	Soil				0.5	28.2	10.5	30	<0.1	30.9	8.8	140	1.97	1.0	<0.5	1.1	5	<0.1	0.1	0.1	72	0.19	0.022	5
1228245	Soil				0.3	10.2	7.0	12	<0.1	8.8	2.6	48	0.76	<0.5	<0.5	0.5	3	<0.1	<0.1	0.1	42	0.13	0.015	4
1228246	Soil				0.4	41.2	7.5	35	<0.1	42.1	10.1	206	2.00	2.7	1.8	1.1	6	<0.1	0.1	0.1	59	0.20	0.033	5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1228217	Soil	154	1.97	224	0.188	<1	2.57	0.010	0.15	0.2	0.01	6.5	0.3	<0.05	7	<0.5	<0.2
1228218	Soil	87	0.54	91	0.069	<1	1.72	0.007	0.13	0.3	0.01	1.7	0.2	<0.05	6	<0.5	<0.2
1228219	Soil	51	0.49	65	0.059	1	1.47	0.010	0.09	0.1	0.04	1.2	0.1	0.06	6	<0.5	<0.2
1228220	Soil	86	0.75	113	0.153	1	2.14	0.008	0.25	1.1	0.02	3.8	0.4	<0.05	7	<0.5	<0.2
1228221	Soil	116	0.97	144	0.141	2	2.74	0.010	0.27	4.5	0.04	5.4	0.5	<0.05	7	<0.5	<0.2
1228222	Soil	77	0.51	81	0.082	1	1.24	0.013	0.13	1.2	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
1228223	Soil	60	0.83	227	0.136	<1	1.58	0.011	0.69	>100	0.05	7.5	0.9	<0.05	5	<0.5	<0.2
1228224	Soil	69	0.63	118	0.123	1	1.85	0.009	0.24	2.5	0.03	4.2	0.3	<0.05	8	<0.5	<0.2
1228225	Soil	90	0.91	162	0.139	<1	2.63	0.013	0.38	3.3	0.08	6.0	0.6	<0.05	8	0.9	<0.2
1228226	Soil	216	1.83	254	0.203	1	3.76	0.040	0.44	5.4	0.07	8.7	0.3	<0.05	7	0.6	<0.2
1228227	Soil	114	1.24	178	0.138	2	2.56	0.026	0.22	2.0	0.05	7.9	0.2	<0.05	7	0.5	<0.2
1228228	Soil	143	1.72	158	0.290	1	2.90	0.019	0.41	4.0	0.02	3.5	0.4	<0.05	14	0.6	<0.2
1228229	Soil	11	0.09	61	0.018	1	0.65	0.031	0.02	1.3	0.03	0.5	<0.1	0.12	2	<0.5	<0.2
1228230	Soil	111	1.10	97	0.147	1	2.74	0.019	0.13	13.5	0.04	6.3	0.2	<0.05	7	<0.5	<0.2
1228231	Soil	103	1.00	116	0.129	1	2.84	0.023	0.18	11.5	0.05	6.4	0.3	<0.05	6	<0.5	<0.2
1228232	Soil	45	0.43	48	0.037	1	1.35	0.022	0.05	3.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1228233	Soil	120	0.94	117	0.112	1	2.05	0.016	0.22	10.6	0.08	4.9	0.3	<0.05	6	0.6	<0.2
1228234	Soil	33	0.26	37	0.038	1	0.62	0.018	0.06	0.9	0.03	0.8	<0.1	<0.05	3	1.5	<0.2
1228235	Soil	116	1.12	224	0.108	2	2.44	0.041	0.20	7.7	0.09	6.6	0.3	<0.05	6	2.5	<0.2
1228236	Soil	44	0.40	136	0.040	2	1.56	0.030	0.09	2.6	0.05	2.4	0.1	0.07	3	1.5	<0.2
1228237	Soil	96	0.87	153	0.086	2	1.58	0.030	0.21	2.9	0.06	4.6	0.2	<0.05	4	<0.5	<0.2
1228238	Soil	124	1.21	237	0.135	1	2.36	0.055	0.34	5.8	0.11	8.2	0.4	<0.05	6	0.7	<0.2
1228239	Soil	62	0.55	111	0.064	<1	1.28	0.035	0.09	1.0	0.06	2.9	<0.1	<0.05	3	2.3	<0.2
1228240	Soil	103	1.34	164	0.151	1	1.80	0.055	0.19	1.9	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
1228241	Soil	105	0.83	98	0.185	1	2.89	0.026	0.15	8.1	0.07	5.7	0.2	<0.05	7	0.5	<0.2
1228242	Soil	151	1.33	135	0.228	1	2.48	0.023	0.25	0.9	0.01	5.3	0.1	<0.05	8	0.7	<0.2
1228243	Soil	81	0.75	99	0.134	<1	1.47	0.022	0.04	0.9	<0.01	2.8	<0.1	<0.05	6	0.5	<0.2
1228244	Soil	61	0.61	44	0.165	<1	1.25	0.023	0.05	0.7	0.01	2.9	<0.1	<0.05	7	<0.5	<0.2
1228245	Soil	25	0.21	40	0.170	<1	0.59	0.015	0.02	0.2	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1228246	Soil	77	0.65	83	0.109	1	1.24	0.024	0.09	1.7	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1228247	Soil		0.2	112.6	3.8	38	<0.1	68.2	16.8	324	2.35	2.8	2.4	1.2	19	<0.1	0.1	<0.1	66	0.61	0.066	4		
1228248	Soil		0.4	68.6	4.7	39	<0.1	88.9	12.8	235	2.07	4.1	<0.5	1.8	13	<0.1	0.1	0.1	52	0.35	0.055	6		
1228249	Soil		0.5	60.5	5.8	51	<0.1	87.3	16.4	286	2.22	3.6	<0.5	1.4	12	<0.1	0.1	0.1	51	0.28	0.060	6		
1228250	Soil		0.7	17.0	7.6	58	<0.1	743.7	83.9	2109	9.35	71.1	26.0	2.4	5	0.7	1.3	0.2	28	0.03	0.048	9		
1234201	Soil		0.6	24.0	10.7	54	<0.1	252.0	26.3	543	4.80	60.4	<0.5	3.3	9	0.2	0.6	0.2	74	0.08	0.040	8		
1234202	Soil		10.2	87.3	33.5	80	0.2	156.2	10.1	418	4.35	333.6	1.6	5.3	47	0.3	0.9	1.5	194	0.11	0.077	10		
1234203	Soil		1.3	21.6	12.0	61	0.1	194.2	20.4	280	3.32	41.0	<0.5	4.5	7	0.3	0.8	0.2	45	0.04	0.034	12		
1234204	Soil		1.1	41.7	15.5	61	0.1	74.0	13.1	267	3.76	8.6	1.1	2.9	9	0.1	0.4	0.3	86	0.12	0.068	8		
1234205	Soil		1.1	34.8	17.1	60	<0.1	54.0	10.7	232	4.18	7.6	0.5	3.9	10	0.3	0.2	0.2	86	0.10	0.104	10		
1234206	Soil		1.1	24.7	14.7	74	0.2	63.1	12.1	233	3.07	15.1	1.6	6.6	13	0.3	0.4	0.2	53	0.11	0.061	16		
1234207	Soil		1.3	23.8	13.5	69	0.3	61.4	11.5	212	3.10	10.9	2.1	4.5	11	0.3	0.4	0.2	54	0.10	0.048	16		
1234208	Soil		1.5	25.7	11.9	69	0.1	67.2	10.4	230	3.26	11.7	2.0	5.9	11	0.3	0.4	0.2	61	0.07	0.044	14		
1234209	Soil		1.2	28.9	9.6	71	0.1	86.3	12.0	285	3.44	17.9	2.5	6.6	10	0.2	0.5	0.2	50	0.05	0.034	17		
1234210	Soil		1.0	14.0	11.0	66	0.1	31.2	6.7	201	2.38	4.3	<0.5	4.0	6	<0.1	0.1	0.2	45	0.03	0.030	13		
1234211	Soil		1.2	16.6	11.7	65	0.1	50.2	8.5	179	2.64	10.1	<0.5	4.9	8	0.2	0.3	0.2	49	0.07	0.046	16		
1234212	Soil		1.1	27.2	14.3	64	0.1	34.4	8.6	238	3.19	5.9	0.6	3.2	14	0.2	0.3	0.3	65	0.10	0.056	14		
1234213	Soil		0.7	11.3	5.5	9	0.8	14.3	0.8	26	0.51	<0.5	<0.5	0.2	49	<0.1	0.2	<0.1	5	0.94	0.134	25		
1234214	Soil		1.3	22.6	12.7	72	0.2	48.0	11.4	249	2.99	13.9	1.4	7.0	10	0.2	0.5	0.2	47	0.11	0.051	18		
1234215	Soil		1.9	28.3	12.2	88	0.2	47.4	10.0	284	3.23	11.2	2.0	6.6	12	0.2	0.4	0.2	61	0.09	0.052	19		
1234216	Soil		2.4	31.7	15.5	98	0.1	46.4	11.3	308	3.77	14.1	2.9	6.9	12	0.3	0.5	0.2	61	0.07	0.067	21		
1234217	Soil		0.9	13.9	12.0	51	0.1	35.8	7.2	180	2.37	21.3	<0.5	4.1	8	0.1	0.3	0.2	44	0.07	0.031	20		
1234218	Soil		1.3	16.4	17.3	71	<0.1	55.2	8.5	207	4.07	34.3	0.9	5.0	5	0.2	0.4	0.3	81	0.06	0.069	11		
1234219	Soil		0.7	24.5	6.6	60	<0.1	773.2	60.5	1301	7.52	150.3	11.0	2.6	6	0.5	1.1	0.1	31	0.06	0.035	9		
1234220	Soil		1.3	22.9	12.3	77	0.1	66.7	12.4	309	3.63	18.5	<0.5	6.7	7	0.1	0.4	0.2	56	0.05	0.038	14		
1234221	Soil		0.8	12.0	9.7	67	<0.1	30.0	8.9	237	3.00	5.8	<0.5	5.2	5	<0.1	0.2	0.2	51	0.07	0.040	14		
1234222	Soil		0.8	18.4	6.9	57	<0.1	801.8	70.4	1814	8.59	144.0	<0.5	2.5	7	1.1	1.7	0.1	30	0.06	0.048	8		
1234223	Soil		0.6	12.5	6.4	41	<0.1	827.2	53.2	1882	5.19	124.8	3.3	2.9	6	0.4	2.2	0.1	21	0.05	0.032	9		
1234224	Soil		2.2	14.2	13.0	74	0.1	96.6	12.5	316	3.17	93.1	<0.5	2.4	7	0.4	0.9	0.2	42	0.04	0.037	17		
1234225	Soil		2.7	30.3	13.4	87	0.3	52.9	12.8	309	3.26	23.8	2.7	6.9	10	0.5	0.6	0.2	45	0.07	0.050	20		
1234226	Soil		3.1	30.4	14.7	81	0.2	44.6	11.1	274	3.46	11.1	1.7	8.0	8	0.3	0.4	0.3	46	0.05	0.047	19		



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1228247	Soil	82	1.22	199	0.122	1	1.67	0.045	0.30	1.4	0.02	4.6	0.2	<0.05	4	0.8	<0.2
1228248	Soil	111	0.95	120	0.107	1	1.67	0.033	0.13	0.9	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1228249	Soil	120	0.86	146	0.078	<1	1.71	0.025	0.09	1.6	0.03	3.6	0.1	<0.05	4	0.8	<0.2
1228250	Soil	267	2.11	117	0.021	1	1.07	0.003	0.03	0.6	0.03	5.8	<0.1	<0.05	3	0.6	<0.2
1234201	Soil	135	2.14	181	0.145	2	2.33	0.012	0.21	0.6	0.01	7.4	0.2	<0.05	7	1.1	<0.2
1234202	Soil	103	1.21	634	0.099	1	3.42	0.043	0.46	0.3	0.01	7.7	0.9	0.17	13	2.6	0.3
1234203	Soil	106	0.76	127	0.042	2	2.06	0.004	0.07	1.6	0.02	3.5	0.2	<0.05	5	0.9	<0.2
1234204	Soil	125	1.04	129	0.147	<1	2.49	0.010	0.27	6.8	0.04	5.3	0.3	<0.05	8	0.9	<0.2
1234205	Soil	88	0.80	161	0.133	<1	2.34	0.012	0.29	2.5	0.04	5.2	0.2	<0.05	9	0.6	<0.2
1234206	Soil	70	0.80	143	0.079	2	2.92	0.011	0.23	0.7	0.03	4.1	0.3	<0.05	7	0.6	<0.2
1234207	Soil	70	0.82	143	0.073	2	2.71	0.009	0.17	0.4	0.02	4.0	0.3	<0.05	7	1.0	<0.2
1234208	Soil	84	0.82	116	0.103	2	2.14	0.012	0.30	0.7	0.02	4.1	0.4	<0.05	8	<0.5	<0.2
1234209	Soil	79	0.91	159	0.107	2	2.33	0.010	0.41	0.4	0.01	3.9	0.6	<0.05	7	<0.5	<0.2
1234210	Soil	51	0.70	78	0.078	<1	1.65	0.012	0.22	0.1	0.01	2.9	0.2	<0.05	8	<0.5	<0.2
1234211	Soil	68	0.64	99	0.066	<1	2.08	0.009	0.15	0.5	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
1234212	Soil	56	0.74	162	0.090	<1	3.28	0.018	0.30	0.3	0.03	4.4	0.4	<0.05	10	0.9	<0.2
1234213	Soil	9	0.12	98	0.009	1	1.08	0.024	0.02	<0.1	0.04	0.5	<0.1	0.20	2	4.5	<0.2
1234214	Soil	48	0.72	142	0.078	1	2.41	0.012	0.23	0.6	<0.01	3.2	0.4	<0.05	6	0.7	<0.2
1234215	Soil	56	0.81	163	0.084	5	2.40	0.013	0.35	0.3	0.01	4.4	0.4	<0.05	7	<0.5	<0.2
1234216	Soil	56	0.85	142	0.074	2	2.58	0.014	0.33	0.2	0.02	4.3	0.5	<0.05	8	0.9	<0.2
1234217	Soil	46	0.52	89	0.038	1	1.78	0.006	0.11	0.2	0.01	2.5	0.2	<0.05	7	<0.5	<0.2
1234218	Soil	67	0.70	86	0.083	<1	2.00	0.009	0.20	0.3	0.01	3.6	0.2	<0.05	11	<0.5	<0.2
1234219	Soil	298	1.86	113	0.025	<1	1.05	0.006	0.05	0.4	<0.01	6.3	<0.1	<0.05	3	1.1	<0.2
1234220	Soil	75	0.81	101	0.075	<1	2.48	0.008	0.18	0.3	0.02	4.4	0.5	<0.05	8	0.6	<0.2
1234221	Soil	49	0.74	84	0.099	1	2.03	0.011	0.23	0.1	<0.01	3.6	0.3	<0.05	11	<0.5	<0.2
1234222	Soil	342	3.05	127	0.024	1	1.29	0.006	0.04	0.3	0.02	7.1	0.2	<0.05	3	0.8	<0.2
1234223	Soil	243	2.49	114	0.020	1	0.67	0.005	0.04	0.2	<0.01	5.9	0.1	<0.05	2	0.6	<0.2
1234224	Soil	78	0.54	82	0.012	<1	1.32	0.006	0.05	0.4	0.01	1.9	0.2	<0.05	5	<0.5	<0.2
1234225	Soil	43	0.59	100	0.043	<1	1.84	0.008	0.15	0.3	0.02	3.3	0.3	<0.05	5	0.5	<0.2
1234226	Soil	44	0.62	72	0.041	<1	1.80	0.007	0.13	0.7	0.02	2.8	0.3	<0.05	6	0.8	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1234227	Soil	1.7	18.6	12.2	60	0.3	40.0	6.0	169	2.77	7.8	0.8	3.3	6	0.2	0.4	0.3	51	0.05	0.074
1234228	Soil	1.8	21.2	11.2	51	0.2	51.4	7.4	189	2.95	7.9	1.2	4.8	7	0.5	0.3	0.3	49	0.05	0.040
1234229	Soil	2.4	22.7	10.9	57	0.2	35.4	7.5	284	3.35	4.1	1.1	6.4	9	0.1	0.1	0.3	72	0.04	0.034
1234230	Soil	2.1	24.0	12.5	61	0.2	33.6	8.2	238	3.72	7.6	<0.5	6.3	13	0.4	0.3	0.2	67	0.07	0.053
1234231	Soil	1.9	23.8	10.9	56	0.1	36.2	8.4	187	3.16	5.6	<0.5	5.7	11	0.3	0.2	0.3	64	0.06	0.047
1234232	Soil	3.6	19.5	14.4	65	0.3	19.9	3.1	133	1.78	2.8	<0.5	4.0	9	0.3	0.1	0.2	78	0.05	0.052
1234233	Soil	7.7	52.2	16.3	67	0.8	13.5	1.9	89	2.99	7.1	<0.5	5.4	27	0.3	0.3	0.2	85	0.02	0.054
1234234	Soil	0.4	28.4	8.7	50	<0.1	66.1	13.4	223	2.76	5.1	<0.5	2.1	7	<0.1	0.2	0.1	57	0.12	0.029
1234235	Soil	0.5	28.2	7.4	55	<0.1	70.9	12.7	202	2.67	4.9	<0.5	2.2	7	<0.1	0.2	0.1	59	0.15	0.037
1234236	Soil	0.4	39.4	7.4	52	<0.1	78.7	15.9	274	2.69	5.2	2.0	2.7	8	0.1	0.2	0.1	59	0.16	0.039
1234237	Soil	0.5	24.1	8.6	54	0.2	43.2	9.9	165	2.50	5.7	0.9	1.5	6	<0.1	0.3	0.1	52	0.09	0.034
1234238	Soil	0.4	33.3	8.8	57	<0.1	62.5	13.4	187	2.78	4.4	0.7	3.1	6	<0.1	0.2	0.1	57	0.12	0.034
1234239	Soil	0.6	36.3	8.8	44	<0.1	69.4	12.9	206	2.85	4.3	<0.5	2.3	9	0.1	0.4	0.1	65	0.14	0.039
1234240	Soil	0.5	27.6	8.4	40	<0.1	59.6	11.9	206	2.38	4.1	<0.5	1.6	8	<0.1	0.1	0.1	58	0.15	0.044
1234241	Soil	0.9	16.0	9.7	44	<0.1	21.8	5.7	514	2.05	3.2	0.6	0.4	6	<0.1	0.3	0.3	43	0.06	0.066
1234242	Soil	0.8	12.1	14.7	35	<0.1	12.8	3.3	101	2.14	3.1	<0.5	1.3	4	<0.1	0.3	0.3	57	0.03	0.038
1234243	Soil	0.7	13.9	14.3	40	0.2	18.9	4.7	130	2.08	6.5	1.1	0.3	9	<0.1	0.3	0.3	44	0.06	0.106
1234244	Soil	0.3	106.7	4.7	39	<0.1	209.2	17.5	328	2.83	61.4	<0.5	5.1	7	<0.1	0.2	0.1	66	0.07	0.028
1234245	Soil	0.9	24.2	10.9	48	<0.1	43.5	9.1	155	2.57	9.9	0.6	4.7	8	<0.1	0.9	0.2	43	0.08	0.026
1234246	Soil	1.0	26.3	10.9	56	0.2	44.2	10.9	208	2.67	11.3	2.2	5.6	8	0.1	0.9	0.2	37	0.07	0.023
1234247	Soil	0.9	13.8	15.3	33	0.1	20.6	4.9	151	2.27	3.4	0.8	1.4	6	<0.1	0.3	0.3	56	0.03	0.034
1234248	Soil	0.9	23.1	15.6	57	0.2	40.5	7.7	257	3.24	3.2	<0.5	2.5	8	0.1	0.3	0.3	60	0.06	0.051
1234249	Soil	0.9	32.3	17.7	62	0.3	21.8	7.6	215	2.78	1.0	<0.5	1.8	5	<0.1	0.3	0.3	55	0.02	0.060
1234250	Soil	1.0	36.8	25.4	78	0.4	30.3	8.1	224	3.83	1.3	0.7	3.0	4	0.1	0.2	0.2	66	0.02	0.060
1234251	Soil	0.3	3.5	5.7	5	0.2	3.6	0.9	18	0.30	<0.5	<0.5	<0.1	5	<0.1	<0.1	0.2	9	0.03	0.046
1234252	Soil	1.2	7.0	9.8	19	<0.1	12.5	2.5	57	0.67	0.7	0.9	<0.1	5	<0.1	<0.1	<0.1	16	0.03	0.031
1234253	Soil	1.4	7.6	22.0	23	0.2	13.6	2.7	62	0.92	1.5	<0.5	0.5	3	<0.1	0.1	0.2	21	0.01	0.027
1234254	Soil	1.0	21.9	12.6	67	0.1	30.0	9.4	239	2.76	6.4	0.9	6.0	8	0.1	0.5	0.2	42	0.06	0.025
1234255	Soil	0.9	10.1	13.2	42	<0.1	16.8	4.4	110	1.99	4.4	1.3	4.2	5	<0.1	0.4	0.2	36	0.04	0.030
1234256	Soil	1.3	10.8	12.5	24	0.1	14.4	2.6	95	1.05	2.1	<0.5	0.3	5	<0.1	0.3	0.2	28	0.02	0.034



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234227	Soil	57	0.48	50	0.050	<1	1.14	0.007	0.08	0.3	<0.01	1.7	0.1	<0.05	7	1.0	<0.2
1234228	Soil	63	0.54	51	0.042	<1	1.36	0.006	0.08	0.4	0.01	2.0	0.1	<0.05	6	1.1	<0.2
1234229	Soil	53	0.76	103	0.139	2	2.13	0.009	0.37	3.7	<0.01	4.0	0.6	<0.05	11	0.6	<0.2
1234230	Soil	46	0.67	109	0.101	<1	2.07	0.014	0.29	2.8	<0.01	3.8	0.5	<0.05	8	1.1	<0.2
1234231	Soil	54	0.70	99	0.098	1	2.22	0.011	0.31	1.1	0.02	3.9	0.4	<0.05	9	0.9	<0.2
1234232	Soil	50	0.59	63	0.068	2	1.21	0.008	0.11	0.2	0.01	2.5	0.2	<0.05	8	1.0	<0.2
1234233	Soil	49	0.48	142	0.011	2	1.42	0.041	0.11	<0.1	<0.01	3.5	0.3	0.25	6	2.8	<0.2
1234234	Soil	95	0.83	105	0.106	<1	1.94	0.017	0.18	0.1	0.02	2.9	0.2	<0.05	6	0.8	<0.2
1234235	Soil	105	0.95	105	0.123	<1	2.12	0.019	0.17	0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
1234236	Soil	95	1.02	126	0.131	<1	2.25	0.021	0.21	<0.1	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2
1234237	Soil	73	0.68	84	0.086	<1	1.79	0.013	0.20	<0.1	0.02	2.3	0.3	<0.05	6	<0.5	<0.2
1234238	Soil	84	0.87	105	0.129	<1	2.04	0.015	0.25	<0.1	0.02	3.2	0.3	<0.05	6	0.7	<0.2
1234239	Soil	94	0.94	123	0.117	1	2.26	0.017	0.17	0.2	0.02	3.5	0.3	<0.05	7	0.8	<0.2
1234240	Soil	86	0.80	117	0.084	1	2.08	0.015	0.17	0.2	0.02	2.7	0.2	<0.05	7	0.8	<0.2
1234241	Soil	39	0.35	89	0.039	1	1.47	0.008	0.14	0.1	0.04	1.1	0.2	0.08	6	<0.5	<0.2
1234242	Soil	29	0.20	77	0.085	1	0.89	0.004	0.14	<0.1	0.01	1.2	0.2	0.06	7	<0.5	<0.2
1234243	Soil	42	0.37	72	0.020	1	1.52	0.007	0.08	0.1	0.04	0.6	0.3	<0.05	7	0.7	<0.2
1234244	Soil	196	0.98	186	0.057	2	1.31	0.009	0.15	<0.1	0.01	7.6	0.3	0.06	4	<0.5	<0.2
1234245	Soil	58	0.32	102	0.046	<1	0.98	0.007	0.05	0.2	0.14	2.3	0.4	<0.05	3	<0.5	<0.2
1234246	Soil	45	0.31	112	0.042	<1	1.10	0.006	0.06	0.2	0.18	2.6	0.5	<0.05	3	<0.5	<0.2
1234247	Soil	37	0.35	83	0.085	<1	1.44	0.005	0.13	0.1	0.04	2.2	0.2	0.06	9	<0.5	<0.2
1234248	Soil	64	0.57	130	0.106	1	1.79	0.008	0.37	0.5	0.03	3.4	0.3	0.07	8	<0.5	<0.2
1234249	Soil	24	0.11	82	0.103	1	0.64	0.004	0.15	<0.1	0.05	1.4	0.3	0.15	6	<0.5	<0.2
1234250	Soil	36	0.30	110	0.161	1	1.12	0.006	0.35	0.1	0.06	2.1	0.4	0.08	7	0.7	<0.2
1234251	Soil	6	0.03	16	0.007	<1	0.27	0.020	0.03	<0.1	0.04	0.4	<0.1	0.11	1	<0.5	<0.2
1234252	Soil	17	0.02	33	0.008	<1	0.19	0.011	0.03	<0.1	0.02	0.3	0.2	0.08	1	<0.5	<0.2
1234253	Soil	19	0.03	39	0.021	<1	0.34	0.008	0.05	<0.1	0.02	0.4	0.3	0.11	3	<0.5	<0.2
1234254	Soil	36	0.46	113	0.067	1	1.44	0.006	0.13	0.2	0.03	3.1	0.2	0.07	4	<0.5	<0.2
1234255	Soil	29	0.24	55	0.040	<1	0.97	0.004	0.08	0.2	0.03	1.6	0.2	0.06	5	<0.5	<0.2
1234256	Soil	25	0.07	42	0.018	<1	0.44	0.005	0.05	0.1	0.03	0.5	0.1	0.08	4	<0.5	<0.2



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		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1
1234257	Soil	0.5	14.9	11.4	45	0.1	20.3	6.5	156	2.23	2.9	0.9	3.9	4	0.1	0.2	0.1	34	0.04	0.027	15
1234258	Soil	1.5	23.0	20.7	58	<0.1	28.7	6.8	197	3.23	5.1	<0.5	4.0	7	0.1	0.5	0.3	67	0.04	0.037	14
1234259	Soil	1.2	10.6	14.4	26	<0.1	13.7	3.0	108	1.49	3.8	1.1	0.6	6	<0.1	0.4	0.4	47	0.02	0.041	16
1234260	Soil	1.8	13.2	20.2	42	0.2	19.1	5.3	179	1.98	4.0	1.1	0.6	5	<0.1	0.4	0.3	45	0.03	0.046	20
1234261	Soil	1.1	12.8	13.7	41	0.1	17.2	4.9	130	2.09	4.8	0.5	2.8	5	<0.1	0.3	0.2	37	0.03	0.046	16
1234262	Soil	1.0	13.7	14.2	48	0.1	21.1	5.8	143	2.26	4.6	1.2	2.4	7	0.2	0.4	0.2	39	0.05	0.039	15
1234263	Soil	0.1	3.1	4.5	10	0.1	2.9	0.6	34	0.24	<0.5	<0.5	<0.1	6	<0.1	<0.1	<0.1	6	0.04	0.060	2
1234264	Soil	1.5	8.7	17.1	28	0.3	12.2	3.3	217	2.30	12.1	0.6	3.0	6	<0.1	0.4	0.4	64	0.03	0.038	16
1234265	Soil	1.0	13.7	14.3	39	0.2	30.0	5.3	141	2.01	6.9	<0.5	2.5	6	<0.1	0.3	0.2	46	0.06	0.032	15
1234266	Soil	0.8	24.0	11.3	68	0.4	28.1	8.8	186	3.01	7.2	1.7	5.4	7	<0.1	0.4	0.2	47	0.03	0.033	16
1234267	Soil	0.4	5.0	10.1	15	0.2	5.3	1.4	103	0.64	0.7	<0.5	0.2	9	<0.1	0.1	0.2	20	0.08	0.030	15
1234268	Soil	1.7	27.1	12.4	55	<0.1	26.1	8.0	162	3.38	2.7	<0.5	2.3	9	0.4	0.2	0.2	96	0.09	0.040	9
1234269	Soil	1.3	18.4	11.4	42	0.3	28.1	5.6	237	2.05	3.4	<0.5	0.6	10	0.2	0.2	0.2	43	0.09	0.042	9
1234270	Soil	1.0	8.4	16.6	27	0.2	10.3	2.6	125	1.31	1.6	0.9	0.6	7	0.2	0.2	0.3	42	0.04	0.038	14
1234271	Soil	1.2	13.5	14.0	40	0.2	18.0	4.3	129	1.90	3.3	1.2	0.7	6	0.3	0.3	0.2	42	0.05	0.051	12
1234272	Soil	0.9	9.4	11.3	38	0.1	9.7	2.6	124	1.21	3.1	<0.5	0.3	6	0.3	0.2	0.2	32	0.03	0.039	14
1234273	Soil	1.2	15.9	14.2	53	0.2	22.5	5.0	206	2.81	4.4	3.5	1.4	8	0.1	0.3	0.3	58	0.04	0.069	14
1234274	Soil	1.0	13.2	11.0	43	0.2	14.9	3.9	152	1.84	3.2	<0.5	1.3	6	0.1	0.3	0.2	38	0.04	0.053	12
1234275	Soil	1.5	23.1	18.4	88	<0.1	35.9	8.6	224	4.03	4.6	<0.5	4.3	24	0.6	0.3	0.3	86	0.15	0.081	14
1234276	Soil	0.9	16.8	14.5	71	0.5	15.7	5.5	796	2.12	3.9	0.8	0.4	6	0.1	0.2	0.2	44	0.04	0.070	9
1234277	Soil	1.5	23.2	15.9	65	0.1	24.2	6.3	205	2.82	3.1	<0.5	1.5	7	0.2	0.3	0.4	64	0.04	0.064	14
1234278	Soil	1.2	19.0	12.7	48	0.1	26.9	6.3	245	2.55	1.9	<0.5	1.0	9	0.2	0.2	0.3	64	0.06	0.052	9
1234279	Soil	0.2	1.9	4.0	3	0.1	1.8	0.4	11	0.15	<0.5	<0.5	<0.1	5	<0.1	<0.1	<0.1	4	0.03	0.024	1
1234280	Soil	6.7	28.3	23.9	84	0.3	67.7	8.4	209	3.63	2.9	1.9	2.7	24	0.4	0.2	0.5	130	0.17	0.048	8
1234281	Soil	2.1	18.0	16.2	47	0.2	29.1	7.1	179	2.95	4.3	1.4	1.6	11	0.5	0.3	0.4	78	0.05	0.033	10
1234282	Soil	1.1	11.4	9.4	37	<0.1	21.8	3.5	268	1.25	0.5	0.6	0.4	8	0.2	<0.1	0.1	32	0.05	0.028	6
1234283	Soil	1.5	32.4	13.2	122	0.5	92.0	13.4	354	3.11	4.6	1.9	2.5	9	0.3	0.2	0.2	83	0.13	0.085	8
1234284	Soil	1.2	12.9	9.7	36	0.1	24.4	3.9	105	1.63	2.6	92.7	2.5	5	<0.1	0.3	0.3	61	0.04	0.040	12
1234285	Soil	1.3	24.2	14.9	117	0.3	70.0	10.4	319	4.21	6.9	1.6	3.9	8	0.4	0.5	0.4	83	0.07	0.074	11
1234286	Soil	1.1	20.0	12.5	72	0.3	56.5	8.1	203	2.27	3.1	<0.5	1.8	8	0.3	0.2	0.2	52	0.08	0.064	9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234257	Soil	30	0.23	62	0.057	<1	0.99	0.004	0.14	0.2	0.04	1.8	0.3	0.07	3	0.6	<0.2
1234258	Soil	45	0.40	75	0.095	<1	1.37	0.006	0.20	0.3	0.01	2.7	0.3	<0.05	7	0.5	<0.2
1234259	Soil	23	0.12	42	0.027	<1	0.70	0.003	0.06	0.2	0.02	0.8	0.3	<0.05	8	<0.5	<0.2
1234260	Soil	27	0.05	71	0.022	<1	0.50	0.003	0.04	0.2	0.03	1.0	0.4	0.07	5	<0.5	<0.2
1234261	Soil	29	0.16	46	0.034	<1	0.86	0.005	0.06	0.2	0.03	1.6	0.2	<0.05	4	<0.5	<0.2
1234262	Soil	34	0.28	66	0.032	1	1.20	0.005	0.07	0.3	0.02	1.7	0.2	<0.05	4	<0.5	<0.2
1234263	Soil	4	0.01	47	0.003	<1	0.19	0.014	0.02	<0.1	0.02	0.3	<0.1	0.06	<1	<0.5	<0.2
1234264	Soil	22	0.21	66	0.065	<1	0.96	0.004	0.06	0.3	0.02	1.3	0.2	<0.05	9	<0.5	<0.2
1234265	Soil	44	0.33	72	0.049	1	1.28	0.007	0.07	0.1	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
1234266	Soil	39	0.25	94	0.058	1	1.23	0.005	0.11	0.2	0.06	2.8	0.4	<0.05	4	<0.5	<0.2
1234267	Soil	10	0.06	52	0.020	<1	0.49	0.008	0.05	<0.1	0.01	0.4	0.1	<0.05	4	<0.5	<0.2
1234268	Soil	39	0.53	109	0.139	<1	1.69	0.010	0.14	0.2	0.01	3.4	0.1	<0.05	10	<0.5	<0.2
1234269	Soil	40	0.36	100	0.041	<1	1.18	0.011	0.12	0.2	0.03	1.8	0.1	<0.05	5	<0.5	<0.2
1234270	Soil	18	0.08	69	0.043	<1	0.58	0.006	0.05	0.2	0.02	0.6	0.1	<0.05	5	<0.5	<0.2
1234271	Soil	25	0.15	79	0.044	<1	0.75	0.009	0.09	<0.1	<0.01	1.1	0.1	<0.05	5	<0.5	<0.2
1234272	Soil	16	0.11	67	0.040	<1	0.56	0.008	0.06	0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
1234273	Soil	33	0.36	79	0.057	<1	1.20	0.006	0.13	0.3	0.01	2.0	0.2	<0.05	8	0.7	<0.2
1234274	Soil	23	0.24	62	0.047	<1	0.86	0.009	0.10	0.2	0.01	1.5	0.1	<0.05	5	<0.5	<0.2
1234275	Soil	54	0.81	201	0.129	<1	2.51	0.009	0.25	0.4	<0.01	5.3	0.3	<0.05	11	<0.5	<0.2
1234276	Soil	22	0.18	128	0.034	1	1.15	0.009	0.09	0.2	0.03	1.2	0.4	<0.05	6	<0.5	<0.2
1234277	Soil	35	0.32	123	0.074	<1	1.24	0.006	0.17	0.3	<0.01	1.9	0.2	<0.05	9	0.6	<0.2
1234278	Soil	42	0.52	119	0.085	<1	1.56	0.009	0.15	0.2	0.01	2.6	0.2	<0.05	10	<0.5	<0.2
1234279	Soil	4	0.02	24	0.004	<1	0.17	0.018	0.03	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
1234280	Soil	55	0.55	100	0.097	<1	2.77	0.009	0.22	0.6	0.04	3.9	0.2	<0.05	10	0.9	<0.2
1234281	Soil	41	0.47	91	0.093	<1	1.56	0.007	0.19	0.5	0.02	2.6	0.2	<0.05	11	<0.5	<0.2
1234282	Soil	34	0.28	103	0.045	<1	0.88	0.015	0.10	0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
1234283	Soil	119	1.15	184	0.091	<1	2.97	0.015	0.12	0.5	0.04	4.5	0.1	<0.05	8	0.8	<0.2
1234284	Soil	56	0.27	49	0.068	<1	0.83	0.008	0.08	0.3	<0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
1234285	Soil	102	0.91	157	0.075	<1	2.30	0.008	0.09	0.4	0.03	3.6	0.1	<0.05	9	<0.5	<0.2
1234286	Soil	76	0.61	100	0.078	<1	1.38	0.010	0.09	0.3	<0.01	2.3	0.1	<0.05	7	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1234287	Soil	1.3	24.3	11.5	71	0.2	88.1	10.2	231	2.98	4.2	0.9	2.8	14	0.2	0.3	0.3	71	0.15	0.090	11
1234288	Soil	1.7	16.9	11.7	48	0.1	65.1	8.2	178	1.99	2.1	4.8	1.2	13	0.3	0.2	0.2	49	0.12	0.039	7
1234289	Soil	0.9	21.1	10.4	106	0.2	98.0	15.3	466	2.98	4.1	34.5	4.3	12	0.4	0.3	0.2	65	0.11	0.081	11
1234290	Soil	1.0	20.2	11.0	90	0.1	101.9	12.5	253	3.25	5.6	1.2	3.8	11	0.3	0.3	0.3	66	0.09	0.035	10
1234291	Soil	1.4	18.6	10.8	83	0.2	88.3	11.0	267	3.51	5.5	<0.5	3.7	11	0.2	0.3	0.3	68	0.09	0.049	11
1234292	Soil	1.2	19.3	11.6	78	0.2	75.5	8.6	235	2.99	5.6	0.5	2.8	7	0.2	0.3	0.3	61	0.06	0.073	8
1234293	Soil	1.6	20.9	13.3	106	0.2	116.3	14.8	419	3.38	5.5	3.5	3.3	13	0.2	0.3	0.3	91	0.14	0.070	9
1234301	Soil	0.4	7.7	8.2	43	<0.1	725.7	50.8	495	5.26	7.6	0.6	1.2	5	0.2	0.4	0.1	43	0.05	0.024	5
1234302	Soil	0.4	7.1	8.6	44	<0.1	491.6	36.3	446	3.23	6.9	0.6	2.6	7	0.2	0.4	0.1	30	0.08	0.029	11
1234303	Soil	0.4	4.9	8.1	51	<0.1	659.2	62.9	764	4.72	5.4	0.9	0.9	5	0.2	0.2	<0.1	39	0.04	0.044	4
1234304	Soil	0.7	6.9	8.6	49	<0.1	383.5	31.5	430	3.33	6.5	3.9	2.7	7	0.1	0.4	0.2	40	0.05	0.022	13
1234305	Soil	0.3	3.8	3.8	19	<0.1	176.8	11.7	227	1.16	2.0	<0.5	0.1	6	<0.1	<0.1	<0.1	15	0.04	0.028	1
1234306	Soil	0.2	1.6	3.0	12	<0.1	157.9	9.8	138	1.31	3.2	2.1	0.3	3	<0.1	0.1	<0.1	17	0.02	0.015	4
1234307	Soil	0.6	7.8	10.3	49	<0.1	671.8	62.0	721	4.61	8.6	2.8	1.7	6	0.4	0.4	0.1	33	0.04	0.024	7
1234308	Soil	0.3	8.7	3.9	19	<0.1	193.8	8.3	184	1.09	3.8	<0.5	0.2	7	<0.1	0.1	<0.1	15	0.05	0.039	2
1234309	Soil	0.3	20.2	5.1	30	<0.1	365.0	20.7	263	2.68	13.0	1.3	1.6	6	0.1	0.2	<0.1	37	0.09	0.029	5
1234310	Soil	0.4	12.7	6.0	29	<0.1	254.1	12.8	288	1.73	7.5	<0.5	0.3	9	0.2	0.2	0.1	24	0.07	0.065	4
1234311	Soil	0.4	17.9	10.1	40	<0.1	579.6	31.4	410	3.70	11.6	3.8	1.5	9	0.3	0.4	0.2	39	0.11	0.051	9
1234312	Soil	0.5	20.4	9.4	74	<0.1	1022	72.9	1002	6.45	20.9	<0.5	0.9	10	0.3	0.5	0.2	39	0.09	0.103	6
1234313	Soil	0.2	13.6	6.3	37	<0.1	633.9	33.6	385	3.04	5.7	5.6	2.3	7	0.2	0.2	<0.1	29	0.10	0.025	8
1234314	Soil	0.1	2.5	1.3	9	<0.1	67.4	3.2	66	0.55	0.8	<0.5	0.1	6	<0.1	<0.1	<0.1	15	0.06	0.022	1
1234315	Soil	0.4	22.3	7.4	43	0.1	599.3	29.7	789	2.53	13.6	<0.5	0.6	13	0.4	0.3	0.2	27	0.15	0.099	8
1234316	Soil	0.5	23.7	7.9	40	0.2	606.7	36.4	702	2.95	22.2	<0.5	0.7	10	0.6	0.4	0.2	26	0.15	0.107	7
1234317	Soil	0.4	7.4	6.1	34	<0.1	353.8	31.3	438	2.54	10.7	<0.5	0.8	9	0.2	0.3	0.1	27	0.09	0.043	6
1234318	Soil	0.4	7.2	7.9	51	<0.1	733.8	61.2	763	4.28	10.3	<0.5	1.6	4	0.2	0.3	0.1	35	0.04	0.030	6
1234319	Soil	0.3	5.5	8.5	43	<0.1	300.1	38.1	605	2.70	6.4	3.4	2.4	8	0.2	0.2	0.1	33	0.07	0.021	9
1234320	Soil	0.2	3.0	4.5	26	<0.1	150.6	11.1	180	1.68	2.7	1.7	1.3	4	0.1	0.1	0.1	21	0.03	0.013	6
1234321	Soil	<0.1	1.4	2.6	6	<0.1	23.0	4.0	126	0.40	<0.5	0.6	0.2	4	<0.1	<0.1	<0.1	10	0.02	0.012	2
1234322	Soil	0.3	2.4	4.1	20	<0.1	177.4	13.2	181	1.63	2.8	14.6	0.8	4	0.1	0.1	<0.1	23	0.02	0.014	4
1234323	Soil	0.2	2.8	4.1	30	<0.1	200.7	17.6	234	2.01	2.6	5.3	1.3	5	0.2	0.2	<0.1	21	0.03	0.014	5



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234287	Soil	114	0.85	150	0.084	<1	1.68	0.009	0.11	0.4	0.02	3.3	0.1	<0.05	8	0.6	<0.2
1234288	Soil	84	0.59	196	0.062	<1	1.18	0.014	0.09	0.3	0.02	2.1	0.1	<0.05	6	<0.5	<0.2
1234289	Soil	143	1.05	155	0.076	<1	1.72	0.008	0.12	0.4	0.01	3.0	0.1	<0.05	7	0.5	<0.2
1234290	Soil	140	1.10	140	0.076	<1	1.92	0.009	0.12	0.4	0.01	3.5	0.1	<0.05	7	<0.5	<0.2
1234291	Soil	154	1.03	108	0.075	<1	2.05	0.008	0.12	0.3	0.01	3.3	0.1	<0.05	7	0.5	<0.2
1234292	Soil	100	0.79	91	0.072	<1	1.72	0.014	0.10	0.3	0.02	2.8	0.1	<0.05	7	<0.5	<0.2
1234293	Soil	137	1.33	174	0.103	<1	2.22	0.011	0.12	0.3	<0.01	4.0	0.1	<0.05	9	<0.5	<0.2
1234301	Soil	863	2.92	53	0.023	3	0.48	0.006	0.02	0.2	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1234302	Soil	478	3.14	64	0.029	3	0.69	0.005	0.03	0.2	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1234303	Soil	965	3.11	60	0.016	3	0.46	0.004	0.02	0.3	0.03	2.0	<0.1	<0.05	2	0.5	<0.2
1234304	Soil	387	2.05	93	0.028	2	0.91	0.005	0.03	0.2	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1234305	Soil	119	0.78	43	0.021	1	0.40	0.022	0.03	<0.1	0.01	0.6	<0.1	<0.05	2	<0.5	<0.2
1234306	Soil	276	0.44	17	0.015	<1	0.18	0.010	0.02	0.1	<0.01	0.3	<0.1	<0.05	1	<0.5	<0.2
1234307	Soil	646	4.20	65	0.025	4	0.63	0.007	0.03	0.3	<0.01	2.0	<0.1	<0.05	2	0.6	<0.2
1234308	Soil	56	0.48	57	0.022	1	0.68	0.029	0.03	0.2	0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
1234309	Soil	328	1.67	58	0.041	2	0.96	0.006	0.04	0.6	<0.01	2.3	<0.1	<0.05	2	0.5	<0.2
1234310	Soil	81	0.73	86	0.023	1	0.79	0.019	0.04	0.3	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1234311	Soil	522	3.38	91	0.029	4	0.97	0.007	0.04	0.4	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1234312	Soil	849	5.42	118	0.015	7	0.92	0.005	0.04	0.6	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
1234313	Soil	498	3.50	49	0.031	4	0.70	0.007	0.02	0.2	<0.01	2.4	<0.1	<0.05	2	0.5	<0.2
1234314	Soil	27	0.23	23	0.028	<1	0.27	0.023	0.02	<0.1	<0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
1234315	Soil	172	1.76	155	0.019	3	0.99	0.016	0.05	0.5	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1234316	Soil	321	2.52	131	0.017	4	0.79	0.015	0.05	0.6	0.02	2.4	<0.1	<0.05	2	0.5	<0.2
1234317	Soil	392	1.57	72	0.022	2	0.50	0.012	0.04	0.3	0.02	1.4	<0.1	<0.05	2	<0.5	<0.2
1234318	Soil	582	5.31	54	0.024	4	0.53	0.005	0.03	0.5	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1234319	Soil	378	2.01	106	0.023	2	0.83	0.006	0.04	0.8	0.01	1.7	<0.1	<0.05	3	0.6	<0.2
1234320	Soil	181	0.91	43	0.022	1	0.48	0.010	0.02	0.3	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
1234321	Soil	44	0.17	20	0.015	<1	0.28	0.016	0.02	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
1234322	Soil	278	0.91	32	0.024	1	0.35	0.011	0.02	0.5	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
1234323	Soil	300	0.95	31	0.023	1	0.36	0.011	0.03	0.5	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1234324	Soil	0.2	6.4	3.3	17	<0.1	117.7	11.9	223	1.05	6.8	0.9	0.4	8	<0.1	0.2	<0.1	12	0.05	0.019	4
1234325	Soil	<0.1	1.9	1.6	6	<0.1	32.7	3.3	102	0.36	1.0	0.6	<0.1	4	<0.1	<0.1	<0.1	6	0.02	0.012	1
1234326	Soil	0.4	12.2	6.0	24	<0.1	214.9	13.1	406	1.57	55.4	0.5	0.6	9	0.2	0.3	0.1	18	0.12	0.049	5
1234327	Soil	0.3	3.0	3.4	16	<0.1	161.9	9.2	103	1.62	2.3	0.9	1.1	4	0.1	0.2	0.1	22	0.03	0.009	8
1234328	Soil	0.4	15.3	8.6	32	<0.1	239.4	15.7	714	2.03	23.7	0.8	0.9	12	0.2	0.4	0.2	18	0.20	0.058	10
1234329	Soil	0.4	5.4	6.0	30	<0.1	275.0	34.2	512	3.56	7.5	6.7	1.7	5	0.2	0.3	0.1	23	0.05	0.025	7
1234330	Soil	0.2	7.7	6.1	34	<0.1	360.9	26.4	497	4.07	5.0	24.4	1.0	9	0.2	0.5	0.1	21	0.08	0.071	6
1234331	Soil	0.4	5.3	5.3	35	<0.1	203.7	35.5	699	3.86	5.4	7.3	2.2	5	0.1	0.4	0.1	23	0.04	0.029	6
1234332	Soil	0.4	3.9	4.8	24	<0.1	238.3	16.2	195	2.84	10.5	4.0	1.9	4	<0.1	0.4	0.2	46	0.06	0.014	7
1234333	Soil	0.4	4.6	4.5	31	<0.1	307.1	23.0	280	2.77	5.9	<0.5	1.7	7	<0.1	0.3	0.2	32	0.03	0.014	8
1234334	Soil	<0.1	1.6	0.9	6	<0.1	33.3	2.2	34	0.36	0.6	<0.5	<0.1	5	<0.1	<0.1	<0.1	5	0.03	0.014	<1
1234335	Soil	0.5	6.3	8.2	44	<0.1	205.5	21.2	297	3.38	9.3	10.7	2.7	7	0.1	0.3	0.2	44	0.05	0.016	9
1234336	Soil	<0.1	0.9	1.0	3	<0.1	5.2	0.8	9	0.18	<0.5	<0.5	<0.1	5	<0.1	<0.1	<0.1	5	0.02	0.011	<1
1234337	Soil	<0.1	0.7	0.8	5	<0.1	26.1	2.4	35	0.21	1.1	1.0	<0.1	5	<0.1	<0.1	<0.1	5	0.03	0.007	<1
1234338	Soil	0.3	4.1	3.9	19	<0.1	197.5	15.1	165	2.33	5.6	1.2	1.8	5	<0.1	0.4	0.3	54	0.05	0.009	6
1234339	Soil	0.4	12.8	6.5	42	<0.1	500.5	40.8	514	3.14	10.0	1.9	2.0	9	<0.1	0.3	0.1	31	0.07	0.024	6
1234340	Soil	0.8	22.8	8.6	40	0.2	339.4	24.2	286	3.22	27.1	3.9	3.6	23	0.2	0.4	0.3	38	0.09	0.026	11
1234341	Soil	0.2	18.2	3.5	43	<0.1	354.8	35.0	484	4.01	3.6	1.2	1.5	8	0.1	0.1	<0.1	94	0.12	0.021	3
1234342	Soil	1.5	6.2	8.6	29	<0.1	122.8	10.7	216	1.50	5.5	4.1	1.6	12	0.6	0.2	0.3	32	0.15	0.013	11
1234343	Soil	1.4	7.5	6.7	45	<0.1	167.0	13.8	188	2.65	12.1	0.6	2.4	12	0.4	0.5	0.3	40	0.05	0.016	8



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234324	Soil	70	0.28	61	0.019	2	0.48	0.018	0.03	0.6	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
1234325	Soil	47	0.14	35	0.007	<1	0.11	0.016	0.02	0.2	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
1234326	Soil	77	0.64	76	0.019	2	0.79	0.019	0.04	1.0	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1234327	Soil	248	0.45	26	0.015	<1	0.29	0.007	0.01	0.7	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
1234328	Soil	62	1.03	90	0.018	2	0.80	0.013	0.04	1.1	0.02	2.1	<0.1	<0.05	3	0.6	<0.2
1234329	Soil	166	0.71	59	0.020	1	0.74	0.005	0.03	1.4	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1234330	Soil	150	1.22	96	0.015	<1	0.76	0.004	0.02	0.9	0.01	4.2	<0.1	<0.05	2	<0.5	<0.2
1234331	Soil	141	1.01	58	0.024	1	0.89	0.006	0.03	1.3	0.02	2.4	<0.1	<0.05	3	0.7	<0.2
1234332	Soil	348	0.86	50	0.048	<1	0.56	0.007	0.02	1.0	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
1234333	Soil	442	1.20	50	0.025	1	0.57	0.007	0.02	1.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
1234334	Soil	51	0.09	35	0.006	<1	0.08	0.018	0.02	0.2	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
1234335	Soil	288	1.11	85	0.046	<1	1.21	0.005	0.02	1.0	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1234336	Soil	9	0.04	12	0.009	1	0.12	0.017	0.02	<0.1	0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
1234337	Soil	12	0.23	17	0.008	1	0.08	0.018	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
1234338	Soil	281	0.67	34	0.062	<1	0.57	0.006	0.01	0.3	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
1234339	Soil	415	2.12	95	0.024	3	0.78	0.007	0.03	0.5	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
1234340	Soil	234	1.47	119	0.049	2	1.36	0.009	0.05	0.7	0.01	2.3	0.1	<0.05	4	<0.5	<0.2
1234341	Soil	276	3.08	194	0.221	<1	1.81	0.010	0.22	0.4	<0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
1234342	Soil	204	0.70	62	0.037	<1	0.55	0.005	0.05	0.4	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
1234343	Soil	225	0.71	52	0.029	2	1.03	0.005	0.03	0.4	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1223552	Soil	0.5	10.5	9.2	24	<0.1	9.4	2.9	82	1.37	9.2	2.4	6.1	4	<0.1	0.2	0.2	42	0.01	0.016	22
REP 1223552	QC	0.7	10.5	9.3	24	<0.1	9.6	3.0	82	1.41	8.3	2.2	5.7	3	<0.1	0.2	0.2	42	0.01	0.016	21
1223569	Soil	0.6	67.8	14.0	54	0.2	59.2	17.2	352	3.82	20.8	2.8	1.9	8	0.1	0.3	0.4	89	0.24	0.054	7
REP 1223569	QC	0.6	68.6	13.3	55	0.2	59.0	17.5	350	3.86	20.3	3.7	2.0	8	0.2	0.3	0.4	85	0.23	0.053	7
1223597	Soil	15.8	59.6	17.9	74	0.8	104.6	7.7	208	3.01	27.6	11.2	4.2	34	0.4	2.4	0.2	81	0.05	0.033	14
REP 1223597	QC	15.6	60.3	17.9	75	0.7	105.4	8.0	208	3.02	28.7	12.0	4.2	33	0.4	2.4	0.2	83	0.04	0.032	13
1227878	Soil	0.7	32.4	3.5	56	0.4	17.7	7.0	397	1.55	9.0	0.9	1.3	48	1.3	0.9	<0.1	46	0.59	0.071	6
REP 1227878	QC	0.9	34.8	3.6	58	0.4	18.9	7.4	415	1.65	9.4	<0.5	1.4	49	1.3	1.0	<0.1	50	0.61	0.072	6
1227894	Soil	1.9	13.1	10.7	112	0.4	48.9	6.9	192	2.57	5.7	3.9	3.3	9	1.4	0.6	0.3	70	0.05	0.027	11
REP 1227894	QC	1.8	12.9	10.9	113	0.4	48.9	7.2	197	2.50	5.5	0.5	3.3	8	1.6	0.6	0.3	68	0.05	0.026	11
1227900	Soil	2.7	98.8	10.4	101	1.7	119.6	10.3	225	2.07	9.0	9.2	1.5	44	3.5	1.3	0.3	48	0.97	0.093	62
REP 1227900	QC	2.6	99.6	10.4	102	1.6	120.4	10.5	225	2.04	9.4	11.6	1.5	44	3.4	1.2	0.3	48	0.97	0.094	63
1227966	Soil	1.9	19.7	10.5	85	0.5	37.4	7.1	212	2.41	7.8	3.2	4.4	9	0.3	0.8	0.2	31	0.10	0.018	14
REP 1227966	QC	2.0	19.7	10.3	82	0.5	37.5	6.8	211	2.41	7.2	3.3	4.2	9	0.3	0.8	0.2	30	0.10	0.020	15
1227985	Soil	0.4	12.0	11.8	36	<0.1	32.7	8.6	240	1.83	4.3	5.0	5.0	16	<0.1	0.3	0.2	26	0.17	0.018	10
REP 1227985	QC	0.5	11.3	11.7	36	<0.1	32.1	8.5	236	1.77	4.4	2.4	5.1	16	0.2	0.3	0.2	25	0.17	0.017	11
1228218	Soil	0.7	16.6	10.9	58	0.1	46.4	8.2	202	2.76	9.1	0.5	1.3	8	<0.1	0.3	0.2	56	0.07	0.041	15
REP 1228218	QC	0.8	16.9	10.9	57	<0.1	47.0	8.0	197	2.71	9.0	<0.5	1.3	8	0.1	0.3	0.2	54	0.07	0.039	14
1228222	Soil	0.6	23.4	8.0	33	0.1	37.2	8.1	246	1.88	5.3	<0.5	0.6	8	<0.1	0.2	0.2	54	0.11	0.038	9
REP 1228222	QC	0.6	24.7	8.1	35	0.1	40.3	8.4	256	1.94	5.8	<0.5	0.6	8	<0.1	0.2	0.2	57	0.12	0.042	10
1228241	Soil	0.7	59.9	13.8	56	<0.1	56.1	16.1	306	3.17	16.3	<0.5	2.1	6	0.1	0.2	0.2	91	0.22	0.030	5
REP 1228241	QC	0.5	61.0	13.8	57	<0.1	55.1	16.2	305	3.26	16.5	<0.5	2.2	6	0.1	0.3	0.2	94	0.22	0.031	5
1234220	Soil	1.3	22.9	12.3	77	0.1	66.7	12.4	309	3.63	18.5	<0.5	6.7	7	0.1	0.4	0.2	56	0.05	0.038	14
REP 1234220	QC	1.1	22.6	12.2	75	0.1	69.5	12.3	310	3.57	17.9	0.7	6.6	7	0.1	0.4	0.2	55	0.05	0.036	15
1234227	Soil	1.7	18.6	12.2	60	0.3	40.0	6.0	169	2.77	7.8	0.8	3.3	6	0.2	0.4	0.3	51	0.05	0.074	14
REP 1234227	QC	1.7	18.1	12.4	59	0.3	40.3	6.3	170	2.78	7.9	<0.5	3.6	6	0.3	0.4	0.3	51	0.04	0.074	13
1234251	Soil	0.3	3.5	5.7	5	0.2	3.6	0.9	18	0.30	<0.5	<0.5	<0.1	5	<0.1	<0.1	0.2	9	0.03	0.046	1
REP 1234251	QC	0.3	3.4	5.8	6	0.2	3.5	0.8	20	0.32	<0.5	0.8	<0.1	5	<0.1	<0.1	0.1	10	0.03	0.042	1



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Part 2

QUALITY CONTROL REPORT

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1223552	Soil	17	0.15	43	0.099	1	0.60	0.003	0.14	<0.1	0.02	1.1	0.2	<0.05	6	<0.5	<0.2
REP 1223552	QC	18	0.15	42	0.099	<1	0.59	0.003	0.14	<0.1	0.02	1.0	0.2	<0.05	6	<0.5	<0.2
1223569	Soil	129	1.10	107	0.127	1	3.38	0.024	0.12	11.4	0.07	6.6	0.1	<0.05	7	1.2	<0.2
REP 1223569	QC	124	1.09	104	0.123	1	3.41	0.022	0.11	10.7	0.08	6.6	0.2	<0.05	7	0.9	<0.2
1223597	Soil	117	1.01	114	0.062	1	1.95	0.020	0.10	0.5	0.03	4.3	0.8	0.07	7	2.9	<0.2
REP 1223597	QC	119	1.03	114	0.062	<1	2.09	0.021	0.10	0.6	0.04	4.4	0.9	0.08	8	2.6	<0.2
1227878	Soil	24	0.26	216	0.061	1	0.82	0.043	0.07	0.2	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 1227878	QC	24	0.26	219	0.065	<1	0.84	0.044	0.07	0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1227894	Soil	80	0.71	106	0.068	<1	1.42	0.008	0.06	0.4	0.01	2.9	<0.1	<0.05	8	0.6	<0.2
REP 1227894	QC	78	0.72	105	0.068	1	1.38	0.008	0.06	0.4	0.01	2.9	<0.1	<0.05	7	0.6	<0.2
1227900	Soil	70	0.81	192	0.022	2	1.77	0.015	0.08	0.1	0.06	2.4	0.2	0.10	5	3.8	<0.2
REP 1227900	QC	69	0.84	194	0.022	2	1.81	0.016	0.08	0.1	0.07	2.3	0.2	0.08	5	5.5	<0.2
1227966	Soil	51	0.70	90	0.035	1	1.37	0.005	0.07	0.2	<0.01	2.5	<0.1	<0.05	5	0.9	<0.2
REP 1227966	QC	50	0.68	90	0.034	<1	1.32	0.009	0.08	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1227985	Soil	47	0.53	76	0.065	<1	1.11	0.006	0.07	0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
REP 1227985	QC	46	0.53	74	0.064	<1	1.07	0.008	0.08	0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1228218	Soil	87	0.54	91	0.069	<1	1.72	0.007	0.13	0.3	0.01	1.7	0.2	<0.05	6	<0.5	<0.2
REP 1228218	QC	85	0.53	95	0.064	<1	1.66	0.006	0.12	0.2	0.01	1.8	0.2	<0.05	6	<0.5	<0.2
1228222	Soil	77	0.51	81	0.082	1	1.24	0.013	0.13	1.2	0.02	1.6	0.2	<0.05	5	<0.5	<0.2
REP 1228222	QC	80	0.50	88	0.090	<1	1.34	0.014	0.14	1.2	0.02	1.8	0.2	<0.05	5	<0.5	<0.2
1228241	Soil	105	0.83	98	0.185	1	2.89	0.026	0.15	8.1	0.07	5.7	0.2	<0.05	7	0.5	<0.2
REP 1228241	QC	106	0.85	100	0.177	1	2.97	0.026	0.15	8.3	0.07	5.8	0.2	<0.05	8	0.8	<0.2
1234220	Soil	75	0.81	101	0.075	<1	2.48	0.008	0.18	0.3	0.02	4.4	0.5	<0.05	8	0.6	<0.2
REP 1234220	QC	79	0.81	94	0.078	2	2.46	0.008	0.17	0.4	<0.01	4.3	0.5	<0.05	8	0.8	<0.2
1234227	Soil	57	0.48	50	0.050	<1	1.14	0.007	0.08	0.3	<0.01	1.7	0.1	<0.05	7	1.0	<0.2
REP 1234227	QC	54	0.47	50	0.048	<1	1.08	0.007	0.08	0.3	<0.01	1.6	0.1	<0.05	7	<0.5	<0.2
1234251	Soil	6	0.03	16	0.007	<1	0.27	0.020	0.03	<0.1	0.04	0.4	<0.1	0.11	1	<0.5	<0.2
REP 1234251	QC	6	0.03	17	0.007	<1	0.27	0.018	0.03	<0.1	0.04	0.3	<0.1	0.10	1	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11001862.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1234275	Soil	1.5	23.1	18.4	88	<0.1	35.9	8.6	224	4.03	4.6	<0.5	4.3	24	0.6	0.3	0.3	86	0.15	0.081
REP 1234275	QC	1.4	22.7	17.8	89	<0.1	35.9	8.6	229	4.06	4.2	1.1	4.5	25	0.4	0.3	0.3	85	0.14	0.082
1234287	Soil	1.3	24.3	11.5	71	0.2	88.1	10.2	231	2.98	4.2	0.9	2.8	14	0.2	0.3	0.3	71	0.15	0.090
REP 1234287	QC	1.2	23.7	11.2	68	0.2	84.5	9.9	218	2.88	3.9	1.3	2.8	14	0.2	0.3	0.3	71	0.15	0.087
1234308	Soil	0.3	8.7	3.9	19	<0.1	193.8	8.3	184	1.09	3.8	<0.5	0.2	7	<0.1	0.1	<0.1	15	0.05	0.039
REP 1234308	QC	0.3	8.5	3.3	20	<0.1	185.6	8.3	178	1.07	3.7	<0.5	0.1	7	<0.1	0.1	<0.1	16	0.04	0.037
1234325	Soil	<0.1	1.9	1.6	6	<0.1	32.7	3.3	102	0.36	1.0	0.6	<0.1	4	<0.1	<0.1	<0.1	6	0.02	0.012
REP 1234325	QC	0.1	1.9	1.6	6	<0.1	33.7	3.2	101	0.37	1.0	1.0	<0.1	4	<0.1	<0.1	<0.1	7	0.02	0.011
1234337	Soil	<0.1	0.7	0.8	5	<0.1	26.1	2.4	35	0.21	1.1	1.0	<0.1	5	<0.1	<0.1	<0.1	5	0.03	0.007
REP 1234337	QC	<0.1	0.7	0.8	5	<0.1	25.8	2.3	34	0.21	1.2	<0.5	<0.1	5	<0.1	<0.1	<0.1	4	0.03	0.007
Reference Materials																				
STD DS8	Standard	12.5	109.2	127.3	308	1.8	37.7	7.5	599	2.42	24.2	123.4	6.4	62	2.1	5.6	6.4	42	0.67	0.076
STD DS8	Standard	13.1	111.6	130.2	306	1.9	37.8	7.7	607	2.42	23.3	117.9	7.4	74	2.2	6.2	7.3	43	0.67	0.078
STD DS8	Standard	13.0	110.1	129.9	315	1.9	36.5	7.5	608	2.44	25.5	116.6	7.0	66	2.5	5.4	6.0	43	0.69	0.078
STD DS8	Standard	12.0	104.7	124.6	304	1.8	36.6	7.0	588	2.31	24.1	120.6	7.2	67	2.5	5.0	5.5	41	0.65	0.073
STD DS8	Standard	12.9	106.5	122.0	311	1.8	39.2	7.3	597	2.40	24.2	121.1	6.8	72	2.3	5.9	6.5	39	0.64	0.086
STD DS8	Standard	13.2	106.1	120.9	298	1.8	36.4	7.3	584	2.40	24.7	110.1	6.5	72	2.2	5.2	6.3	40	0.68	0.073
STD DS8	Standard	13.8	114.2	119.8	301	1.8	38.0	7.5	605	2.39	24.0	105.8	7.2	72	2.5	5.7	6.5	44	0.69	0.078
STD DS8	Standard	12.7	100.2	110.3	281	1.6	33.7	6.6	560	2.21	21.3	120.3	6.1	58	1.9	4.4	5.5	38	0.66	0.070
STD DS8	Standard	12.3	106.8	120.3	299	1.8	35.5	6.9	587	2.37	23.5	124.9	6.2	69	2.3	5.3	6.2	39	0.63	0.074
STD DS8	Standard	11.3	102.2	118.5	305	1.8	35.7	7.0	576	2.35	24.4	103.4	5.9	65	1.9	5.6	6.6	40	0.60	0.076
STD DS8	Standard	13.8	125.4	125.7	322	1.8	40.9	7.9	600	2.44	24.9	105.9	6.8	69	2.5	6.2	7.3	45	0.66	0.077
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Part 2

QUALITY CONTROL REPORT

WHI11001862.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1234275	Soil	54	0.81	201	0.129	<1	2.51	0.009	0.25	0.4	<0.01	5.3	0.3	<0.05	11	<0.5
REP 1234275	QC	56	0.79	202	0.130	1	2.46	0.010	0.26	0.5	0.01	5.3	0.3	<0.05	11	0.8
1234287	Soil	114	0.85	150	0.084	<1	1.68	0.009	0.11	0.4	0.02	3.3	0.1	<0.05	8	0.6
REP 1234287	QC	114	0.83	144	0.082	<1	1.66	0.009	0.10	0.3	0.01	3.2	0.1	<0.05	8	<0.5
1234308	Soil	56	0.48	57	0.022	1	0.68	0.029	0.03	0.2	0.01	0.9	<0.1	<0.05	2	<0.5
REP 1234308	QC	57	0.48	56	0.023	1	0.68	0.026	0.04	0.1	<0.01	1.0	<0.1	<0.05	2	<0.5
1234325	Soil	47	0.14	35	0.007	<1	0.11	0.016	0.02	0.2	<0.01	0.2	<0.1	<0.05	<1	<0.5
REP 1234325	QC	48	0.14	34	0.006	<1	0.11	0.014	0.02	0.3	<0.01	0.2	<0.1	<0.05	<1	<0.5
1234337	Soil	12	0.23	17	0.008	1	0.08	0.018	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5
REP 1234337	QC	12	0.22	17	0.009	1	0.09	0.019	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5
Reference Materials																
STD DS8	Standard	115	0.61	268	0.114	2	0.88	0.090	0.39	3.3	0.18	2.3	5.5	0.13	4	4.7
STD DS8	Standard	119	0.59	275	0.116	3	0.89	0.091	0.41	2.9	0.19	2.4	5.4	0.15	5	5.2
STD DS8	Standard	117	0.61	278	0.120	<1	0.94	0.096	0.41	3.0	0.20	2.2	5.5	0.13	5	4.8
STD DS8	Standard	112	0.57	280	0.117	4	0.92	0.104	0.42	2.8	0.20	2.5	5.2	0.15	5	5.9
STD DS8	Standard	117	0.61	272	0.118	2	0.89	0.092	0.40	3.0	0.19	2.1	5.5	0.16	4	6.0
STD DS8	Standard	114	0.58	269	0.113	3	0.90	0.098	0.41	3.0	0.17	3.1	5.3	0.12	5	6.1
STD DS8	Standard	119	0.57	274	0.139	2	0.89	0.095	0.42	2.9	0.19	2.9	5.3	0.13	5	4.9
STD DS8	Standard	106	0.58	267	0.095	3	0.94	0.094	0.38	2.8	0.19	3.0	5.0	0.13	4	4.7
STD DS8	Standard	112	0.58	275	0.110	2	0.87	0.111	0.42	2.9	0.19	2.9	5.0	0.19	4	4.4
STD DS8	Standard	112	0.64	255	0.099	3	0.85	0.080	0.40	2.7	0.19	1.7	5.1	0.15	4	5.2
STD DS8	Standard	120	0.60	271	0.126	3	0.89	0.091	0.38	2.9	0.20	2.4	5.4	0.19	5	4.6
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Project: LOT - BER

Report Date: November 16, 2011

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Bruce Durham

Receiving Lab: Canada-Whitehorse

Received: September 19, 2011

Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

WHI11001863.1

CLIENT JOB INFORMATION

Project: LOT - BER
Shipment ID: BER+LOTsoils(1-10)
P.O. Number
Number of Samples: 111

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	111	Dry at 60C			WHI
SS80	111	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	111	Saving all or part of Soil Reject			WHI
1DX2	111	1:1:1 Aqua Regia digestion 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. Acme 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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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1234344	Soil	1.7	20.1	16.6	53	0.4	152.1	19.0	233	2.93	7.9	1.4	2.9	18	0.2	0.6	0.3	30	0.08	0.034	8
1234345	Soil	0.5	23.7	13.1	108	<0.1	463.7	25.1	212	2.98	30.8	2.9	4.3	58	0.5	0.4	0.3	86	0.33	0.035	16
1234346	Soil	0.9	8.5	9.3	40	0.2	104.3	8.4	172	2.58	18.4	<0.5	1.4	13	0.2	0.4	0.3	49	0.04	0.029	7
1234347	Soil	0.6	34.4	8.8	25	0.4	116.1	9.1	205	1.17	18.6	0.8	0.9	17	0.4	0.2	0.3	17	0.12	0.044	52
1234348	Soil	0.6	10.2	6.8	46	0.2	261.1	19.6	233	2.79	17.4	1.9	2.7	13	0.2	0.4	0.2	40	0.10	0.021	9
1234349	Soil	0.9	18.1	9.9	59	0.1	379.7	29.4	333	3.32	21.0	32.7	5.5	17	0.3	0.5	0.2	42	0.09	0.025	12
1234350	Soil	0.9	18.6	11.8	65	<0.1	203.7	15.2	329	2.76	19.8	0.6	3.0	50	0.4	0.4	0.3	53	0.13	0.029	14
1234351	Soil	1.1	27.5	9.3	29	1.0	228.8	13.0	426	1.88	19.5	2.6	2.0	25	0.3	0.4	0.3	24	0.30	0.117	25
1234352	Soil	0.7	10.4	10.0	38	<0.1	168.5	12.4	191	2.01	9.6	1.4	2.0	13	0.3	0.2	0.2	32	0.10	0.017	6
1234353	Soil	0.9	27.5	11.1	43	0.1	114.2	13.8	262	2.40	16.5	1.5	5.5	17	0.2	0.4	0.4	30	0.13	0.028	13
1234354	Soil	1.9	13.8	16.2	59	<0.1	63.4	10.1	274	3.02	27.0	1.8	4.1	11	0.2	0.6	0.4	41	0.07	0.079	15
1234355	Soil	2.2	102.2	27.2	72	0.2	137.1	23.4	221	3.14	45.3	3.7	12.1	159	0.2	1.0	0.6	31	0.11	0.098	50
1234356	Soil	1.8	21.8	15.3	46	0.1	70.6	11.6	215	2.70	15.8	1.8	8.9	18	<0.1	0.5	0.4	30	0.11	0.025	20
1234357	Soil	2.1	23.5	15.7	42	0.3	55.4	10.1	213	2.53	29.0	1.4	6.3	26	0.1	0.5	0.4	29	0.13	0.023	18
1234358	Soil	0.7	6.8	11.7	13	0.1	3.4	1.0	57	0.40	<0.5	<0.5	1.4	46	<0.1	<0.1	0.2	9	0.13	0.012	7
1234359	Soil	1.2	12.2	12.5	41	<0.1	45.8	7.7	214	2.73	10.9	<0.5	5.5	15	<0.1	0.4	0.4	36	0.08	0.020	10
1234360	Soil	1.0	21.5	15.9	52	<0.1	78.7	12.9	267	2.94	12.9	0.9	7.4	17	0.1	0.5	0.4	31	0.08	0.027	11
1234361	Soil	1.0	10.2	8.4	35	<0.1	30.4	5.6	174	2.43	6.8	0.7	3.4	16	<0.1	0.5	0.4	32	0.07	0.019	9
1234362	Soil	1.1	14.0	11.4	53	<0.1	46.7	9.0	278	3.18	10.6	2.2	5.7	11	0.2	0.5	0.4	35	0.07	0.029	9
1234401	Soil	0.8	2.8	3.9	10	0.3	11.6	1.3	36	0.40	0.8	<0.5	0.2	6	0.1	0.1	0.1	13	0.02	0.011	8
1234402	Soil	4.2	14.2	12.2	47	0.2	57.7	5.6	135	2.05	14.2	1.5	2.8	13	0.4	0.7	0.3	64	0.04	0.027	13
1234403	Soil	6.8	31.8	16.2	97	0.3	138.0	13.3	232	3.76	32.4	8.3	4.4	18	1.5	1.3	0.3	75	0.07	0.046	13
1234404	Soil	20.1	40.7	40.2	214	6.5	55.2	11.9	259	3.84	28.1	5.1	3.9	36	2.8	2.6	0.4	84	0.10	0.050	14
1234405	Soil	5.2	38.5	15.6	107	0.9	101.3	16.0	279	4.29	149.8	17.7	8.1	24	0.5	1.9	0.4	62	0.05	0.042	21
1234406	Soil	6.6	43.9	16.2	101	0.2	151.4	15.1	295	3.96	59.7	22.9	7.1	15	0.4	1.3	0.3	67	0.07	0.021	16
1234407	Soil	6.2	29.4	14.2	100	0.5	105.0	13.1	254	3.48	42.4	3.5	5.4	18	0.7	1.2	0.3	70	0.06	0.027	13
1234408	Soil	5.3	52.5	14.7	119	0.5	133.4	15.3	345	3.23	35.9	5.3	5.0	18	0.5	1.4	0.3	58	0.09	0.042	14
1234409	Soil	4.7	38.8	9.8	123	0.6	118.2	13.4	348	2.69	27.3	8.1	3.1	37	1.3	1.2	0.3	57	0.71	0.068	17
1234410	Soil	9.8	56.1	15.8	147	0.5	162.7	20.8	405	4.30	57.2	7.6	7.2	39	0.7	1.7	0.4	80	0.12	0.042	23
1234411	Soil	3.6	21.5	12.0	93	0.4	78.1	11.5	237	2.89	17.4	1.9	5.3	16	0.2	0.6	0.2	58	0.11	0.045	15



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234344	Soil	145	0.52	78	0.027	1	1.86	0.009	0.05	0.3	0.02	1.5	0.1	<0.05	5	0.9	<0.2
1234345	Soil	218	1.76	148	0.063	2	2.38	0.033	0.06	0.8	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
1234346	Soil	155	0.60	36	0.027	1	1.14	0.010	0.03	0.5	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
1234347	Soil	62	0.40	74	0.016	1	1.53	0.022	0.05	0.5	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
1234348	Soil	314	1.45	80	0.034	2	1.40	0.006	0.03	0.3	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1234349	Soil	311	1.80	108	0.037	2	2.06	0.008	0.05	0.4	0.02	3.1	<0.1	<0.05	5	0.6	<0.2
1234350	Soil	206	1.49	124	0.030	1	1.94	0.011	0.06	0.5	<0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
1234351	Soil	102	0.82	202	0.016	3	1.66	0.023	0.08	0.5	0.06	2.1	0.1	0.09	4	1.4	<0.2
1234352	Soil	161	1.12	93	0.028	1	1.10	0.012	0.07	0.5	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1234353	Soil	97	0.73	145	0.037	1	1.80	0.006	0.10	0.2	0.01	2.3	0.1	<0.05	5	<0.5	<0.2
1234354	Soil	87	0.62	73	0.033	1	2.56	0.007	0.06	0.3	0.03	2.2	0.1	<0.05	7	0.7	<0.2
1234355	Soil	87	0.74	184	0.023	2	4.27	0.030	0.08	0.4	0.04	2.4	<0.1	0.17	6	1.2	<0.2
1234356	Soil	74	0.65	103	0.024	<1	2.81	0.007	0.08	0.2	0.03	2.4	0.1	<0.05	6	0.6	<0.2
1234357	Soil	56	0.67	124	0.021	<1	2.52	0.009	0.06	0.2	0.02	2.2	0.1	<0.05	6	0.8	<0.2
1234358	Soil	6	0.07	37	0.003	<1	1.29	0.010	0.02	<0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
1234359	Soil	62	0.59	86	0.032	<1	1.93	0.005	0.07	0.2	0.03	1.9	<0.1	<0.05	6	0.5	<0.2
1234360	Soil	75	0.73	112	0.029	<1	2.68	0.006	0.10	0.2	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1234361	Soil	47	0.43	80	0.021	<1	1.52	0.006	0.06	0.2	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
1234362	Soil	61	0.62	90	0.027	<1	2.26	0.013	0.07	0.2	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
1234401	Soil	22	0.09	30	0.017	<1	0.34	0.013	0.03	<0.1	<0.01	0.4	<0.1	<0.05	3	<0.5	<0.2
1234402	Soil	100	0.44	63	0.049	<1	0.93	0.007	0.06	0.4	0.01	1.9	0.2	<0.05	7	1.0	<0.2
1234403	Soil	166	0.91	83	0.052	2	1.57	0.010	0.10	0.6	0.02	3.2	0.2	0.06	6	2.1	<0.2
1234404	Soil	69	0.80	121	0.062	2	2.46	0.021	0.13	0.3	0.05	3.5	0.2	0.10	9	2.7	0.3
1234405	Soil	91	0.91	116	0.044	2	2.25	0.021	0.14	0.6	0.04	3.2	0.3	0.17	6	1.8	<0.2
1234406	Soil	146	1.02	77	0.048	1	1.80	0.008	0.11	0.6	0.01	3.3	0.3	0.06	5	2.1	<0.2
1234407	Soil	108	0.80	96	0.037	<1	1.76	0.009	0.07	0.4	0.03	2.8	0.3	<0.05	6	2.1	<0.2
1234408	Soil	99	1.03	116	0.055	2	2.17	0.014	0.11	0.5	0.02	3.3	0.3	<0.05	5	1.8	<0.2
1234409	Soil	91	0.95	158	0.043	1	1.67	0.023	0.12	0.3	0.04	3.2	0.3	0.06	5	2.9	<0.2
1234410	Soil	127	1.20	189	0.055	<1	2.20	0.017	0.11	0.5	0.03	4.3	0.4	0.07	6	1.7	0.2
1234411	Soil	101	0.99	122	0.056	<1	1.84	0.009	0.10	0.3	0.02	3.3	0.2	<0.05	6	1.2	<0.2



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Part 1

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1234412	Soil	3.4	19.5	8.9	62	0.1	75.9	7.5	158	2.38	20.1	3.0	2.6	11	0.3	0.7	0.2	54	0.06	0.032	9
1234413	Soil	2.0	9.0	10.7	43	0.4	41.2	4.1	112	1.51	11.0	4.7	1.1	13	0.2	0.4	0.2	42	0.06	0.028	10
1234414	Soil	0.5	2.4	3.1	14	0.2	6.8	1.0	44	0.45	1.7	<0.5	0.3	5	0.2	0.1	<0.1	13	0.02	0.012	2
1234415	Soil	5.5	31.8	10.4	152	0.5	114.5	15.2	391	2.88	28.9	3.1	2.8	30	1.0	1.0	0.3	51	0.45	0.068	18
1234416	Soil	3.1	27.3	16.9	37	0.2	23.3	5.5	129	2.78	2.6	0.8	0.5	28	0.1	0.4	0.3	57	0.05	0.071	14
1234417	Soil	1.3	29.6	16.1	47	<0.1	37.8	13.2	324	3.45	3.8	1.1	1.9	21	0.2	0.3	0.3	64	0.10	0.048	18
1234418	Soil	0.8	16.7	12.6	30	<0.1	21.6	6.0	182	2.85	1.5	1.1	0.4	9	0.2	0.2	0.4	61	0.05	0.069	12
1234419	Soil	1.6	26.1	17.8	37	0.3	25.0	7.1	250	2.92	1.6	58.9	0.5	16	0.2	0.2	0.3	59	0.07	0.085	12
1234420	Soil	1.4	52.1	20.8	71	<0.1	60.6	20.3	630	4.87	4.4	2.5	3.9	123	0.2	0.2	0.4	86	0.14	0.057	18
1234421	Soil	2.0	20.9	74.6	93	0.3	39.8	15.1	1517	3.98	3.4	1.1	1.5	46	3.3	0.2	0.9	72	0.49	0.193	18
1234422	Soil	4.7	22.7	10.9	66	0.4	24.8	3.9	208	1.53	2.9	1.3	0.3	15	0.7	0.2	0.2	78	0.11	0.038	8
1234423	Soil	8.1	103.2	9.0	96	2.4	123.1	13.5	773	2.17	6.5	1.8	0.5	28	6.4	0.2	0.2	51	0.56	0.099	31
1234424	Soil	1.5	14.4	9.7	39	0.2	25.3	4.4	137	1.81	2.9	<0.5	0.2	11	0.2	1.1	0.2	41	0.05	0.035	13
1234425	Soil	0.7	12.8	8.0	25	0.2	14.8	3.9	98	1.10	0.8	0.9	0.3	12	0.2	0.1	0.2	32	0.09	0.034	9
1234426	Soil	1.2	20.2	10.3	45	0.2	40.4	7.9	190	2.46	3.3	0.7	1.6	15	0.1	0.3	0.2	68	0.12	0.022	12
1234427	Soil	1.3	22.4	16.0	57	0.2	35.0	8.8	207	3.28	1.6	0.7	2.3	17	0.4	0.2	0.3	70	0.09	0.036	17
1234428	Soil	2.5	19.1	10.1	41	0.2	33.9	9.4	315	4.80	14.5	0.5	2.0	7	0.3	1.1	0.2	103	0.04	0.054	11
1234429	Soil	0.8	14.0	9.3	36	<0.1	25.4	6.6	228	1.66	0.5	1.0	1.4	9	<0.1	0.1	0.2	51	0.06	0.025	13
1234430	Soil	0.6	23.6	6.8	58	0.3	66.3	11.6	195	2.76	3.1	<0.5	1.9	11	0.3	0.2	0.1	67	0.19	0.068	9
1234431	Soil	0.7	20.9	6.7	48	0.1	50.2	9.8	167	2.74	2.7	<0.5	1.2	9	0.2	0.2	0.1	64	0.12	0.042	7
1234432	Soil	1.6	28.8	16.5	56	0.3	48.1	10.1	379	2.96	5.9	0.8	1.5	9	0.2	0.2	0.3	75	0.06	0.028	11
1234433	Soil	1.2	22.2	10.6	89	0.1	132.2	16.0	365	3.77	4.7	8.8	2.4	11	0.3	0.2	0.2	97	0.09	0.054	8
1234434	Soil	1.3	12.6	10.1	71	<0.1	48.4	6.3	204	2.15	4.8	<0.5	2.5	9	0.2	0.4	0.3	69	0.07	0.030	12
1234435	Soil	0.3	8.0	4.1	9	0.4	16.2	1.9	34	0.46	<0.5	<0.5	<0.1	9	0.1	<0.1	<0.1	13	0.04	0.021	4
1234436	Soil	0.8	22.4	8.5	37	0.2	62.6	6.8	163	1.62	2.1	1.5	0.9	12	0.2	0.1	0.1	44	0.10	0.020	9
1234437	Soil	1.3	24.7	7.7	50	0.3	90.6	13.2	242	3.02	4.1	0.6	2.6	11	0.1	0.1	0.1	63	0.10	0.028	8
1234438	Soil	1.0	13.1	5.9	30	0.1	51.7	4.5	102	1.39	1.2	<0.5	1.8	12	0.6	0.2	0.2	46	0.12	0.013	11
1234451	Soil	0.7	11.0	7.7	56	<0.1	755.6	80.0	2739	8.59	138.7	52.3	2.6	7	0.8	2.8	0.2	32	0.05	0.048	9
1234452	Soil	0.6	16.6	8.6	72	<0.1	196.7	16.8	374	3.64	91.3	33.8	4.8	12	0.2	0.4	0.2	63	0.13	0.053	14
1234453	Soil	0.5	17.7	6.8	50	0.2	421.3	27.1	646	3.10	345.0	14.9	2.6	17	0.2	1.1	0.2	29	0.21	0.032	24



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234412	Soil	92	0.65	74	0.044	<1	1.27	0.011	0.05	0.3	<0.01	2.2	0.1	<0.05	5	0.7	<0.2
1234413	Soil	69	0.58	51	0.036	<1	0.98	0.007	0.06	0.2	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
1234414	Soil	13	0.05	22	0.019	<1	0.24	0.025	0.03	<0.1	0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
1234415	Soil	113	1.01	126	0.035	1	1.52	0.014	0.09	0.2	0.03	2.7	0.2	<0.05	5	2.7	<0.2
1234416	Soil	32	0.41	160	0.044	<1	1.89	0.010	0.28	0.2	0.05	1.8	0.2	0.11	8	<0.5	<0.2
1234417	Soil	43	0.81	220	0.083	1	2.81	0.010	0.35	0.3	0.02	4.1	0.4	<0.05	8	0.7	<0.2
1234418	Soil	40	0.54	148	0.040	<1	2.13	0.010	0.26	0.1	0.03	1.9	0.2	<0.05	8	<0.5	<0.2
1234419	Soil	38	0.57	181	0.046	<1	2.36	0.010	0.48	0.3	0.06	2.4	0.3	0.09	8	<0.5	<0.2
1234420	Soil	60	1.17	426	0.115	<1	5.20	0.016	0.87	0.6	0.03	7.1	0.7	<0.05	14	<0.5	<0.2
1234421	Soil	57	0.91	158	0.052	<1	4.82	0.053	0.30	0.5	0.04	3.2	0.3	<0.05	11	<0.5	<0.2
1234422	Soil	48	0.71	132	0.047	<1	1.58	0.005	0.12	0.1	0.02	1.4	<0.1	<0.05	8	0.5	<0.2
1234423	Soil	64	0.73	150	0.037	1	1.94	0.017	0.13	0.1	0.08	3.0	0.3	0.08	5	2.3	<0.2
1234424	Soil	34	0.34	117	0.029	<1	1.25	0.009	0.14	0.1	0.02	0.8	0.1	<0.05	6	<0.5	<0.2
1234425	Soil	28	0.30	97	0.044	<1	1.09	0.014	0.10	0.1	0.03	1.2	0.1	<0.05	4	<0.5	<0.2
1234426	Soil	58	0.66	167	0.093	<1	1.66	0.010	0.17	0.2	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
1234427	Soil	48	0.68	255	0.102	<1	2.53	0.011	0.34	0.3	0.05	4.7	0.3	<0.05	10	<0.5	<0.2
1234428	Soil	48	0.16	67	0.067	<1	0.76	0.004	0.07	0.3	0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
1234429	Soil	43	0.47	148	0.082	<1	1.34	0.012	0.27	0.2	0.01	2.9	0.2	<0.05	7	<0.5	<0.2
1234430	Soil	131	0.86	114	0.107	<1	1.37	0.015	0.10	0.1	0.02	3.2	0.1	<0.05	7	<0.5	<0.2
1234431	Soil	87	0.62	113	0.069	<1	1.73	0.014	0.08	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
1234432	Soil	69	0.66	139	0.063	<1	2.08	0.006	0.13	0.2	0.03	3.4	0.2	<0.05	8	<0.5	<0.2
1234433	Soil	183	1.40	166	0.096	<1	2.01	0.010	0.10	0.2	0.02	4.0	<0.1	<0.05	9	<0.5	<0.2
1234434	Soil	97	0.58	68	0.070	<1	1.22	0.008	0.06	0.3	<0.01	2.3	<0.1	<0.05	8	<0.5	<0.2
1234435	Soil	14	0.13	190	0.014	<1	0.44	0.019	0.03	<0.1	0.04	0.8	<0.1	<0.05	2	<0.5	<0.2
1234436	Soil	121	0.62	115	0.050	1	1.17	0.019	0.07	0.3	0.04	1.9	<0.1	<0.05	5	<0.5	<0.2
1234437	Soil	97	0.88	141	0.090	<1	1.78	0.011	0.14	0.2	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
1234438	Soil	116	0.33	140	0.043	<1	0.58	0.008	0.06	0.2	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
1234451	Soil	332	2.44	140	0.024	1	1.12	0.004	0.03	0.5	0.03	5.6	0.1	<0.05	3	<0.5	<0.2
1234452	Soil	132	1.25	145	0.078	<1	2.09	0.017	0.13	2.1	<0.01	5.6	0.2	<0.05	8	<0.5	<0.2
1234453	Soil	230	2.01	109	0.022	<1	1.05	0.007	0.08	1.6	0.03	5.1	0.3	<0.05	3	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1234454	Soil	0.7	14.7	10.3	67	0.2	404.5	26.9	694	4.17	166.1	5.7	2.7	25	0.4	0.8	0.2	49	0.21	0.047	16
1234455	Soil	0.6	18.0	8.3	63	<0.1	172.9	16.8	408	3.42	106.6	10.2	5.6	13	0.2	0.5	0.2	50	0.14	0.039	18
1234456	Soil	0.6	17.2	11.6	92	0.6	99.4	11.6	366	2.99	249.8	6.0	1.8	31	0.3	0.7	0.3	47	0.35	0.112	20
1234457	Soil	1.1	23.1	11.6	96	0.4	93.2	10.6	314	2.66	79.8	2.6	2.3	24	0.5	0.5	0.2	77	0.21	0.061	17
1234458	Soil	1.1	13.5	10.1	66	0.1	152.2	14.8	263	3.18	36.6	14.5	4.2	10	0.3	0.4	0.2	47	0.11	0.024	14
1234459	Soil	1.7	26.0	9.6	77	0.1	184.6	15.7	304	3.06	27.9	6.5	5.8	16	0.3	0.7	0.2	56	0.20	0.047	19
1234460	Soil	4.6	21.7	12.5	77	1.7	96.3	11.1	239	3.09	24.0	11.3	5.3	9	0.7	1.0	0.2	57	0.04	0.026	15
1234461	Soil	4.2	25.8	11.7	76	0.3	128.1	13.6	255	2.84	20.0	3.1	4.0	13	0.4	0.7	0.3	56	0.10	0.038	13
1234462	Soil	7.0	32.1	13.0	100	0.7	141.3	12.7	283	3.65	37.1	2.2	3.2	16	1.0	1.4	0.2	79	0.09	0.060	14
1234463	Soil	9.2	25.2	14.1	173	0.2	75.6	8.6	232	3.21	18.3	1.2	4.8	24	2.1	0.9	0.3	130	0.09	0.041	15
1234464	Soil	5.4	32.3	14.5	110	0.2	135.8	16.1	277	3.98	33.4	4.9	6.6	19	0.5	1.2	0.4	75	0.06	0.040	16
1234465	Soil	5.0	31.6	10.9	88	0.3	210.0	17.0	315	3.47	25.8	3.3	5.3	19	0.5	1.3	0.3	61	0.11	0.056	15
1234466	Soil	6.1	33.3	12.4	88	0.3	151.9	16.3	248	3.27	26.7	5.3	4.5	17	0.3	1.1	0.2	65	0.10	0.037	16
1234468	Soil	1.6	43.5	4.8	43	0.6	70.5	2.2	67	0.67	34.0	3.3	0.4	34	6.9	0.4	0.1	9	1.07	0.036	16
1234469	Soil	4.1	52.2	11.6	132	0.6	134.2	16.5	460	3.18	40.2	5.7	5.7	25	0.4	1.1	0.2	66	0.44	0.040	15
1234470	Soil	6.9	46.3	14.2	128	0.4	155.5	20.2	370	3.69	46.8	5.7	4.6	20	0.6	1.0	0.2	72	0.19	0.030	13
1234471	Soil	5.1	49.3	12.7	92	0.5	116.8	13.1	204	3.08	33.9	6.3	3.1	15	0.5	1.1	0.3	65	0.06	0.031	14
1234472	Soil	4.0	80.4	10.9	181	0.9	108.7	12.1	590	2.49	24.3	6.4	2.6	30	2.7	0.9	0.3	54	0.84	0.038	12
1234473	Soil	3.5	14.3	10.1	51	0.3	39.0	4.7	108	1.42	10.4	5.7	1.4	11	0.6	0.3	0.2	38	0.10	0.023	13
1234474	Soil	3.3	37.4	13.1	93	0.2	126.2	16.3	266	3.16	15.8	3.5	5.9	12	0.4	0.5	0.3	65	0.15	0.048	16
1234475	Soil	4.4	15.1	10.9	69	0.2	66.5	8.3	169	2.42	15.5	2.6	3.5	12	0.3	0.5	0.2	57	0.08	0.032	12
1234476	Soil	3.6	23.0	11.6	94	0.3	89.3	14.2	221	2.92	16.8	2.1	5.4	13	0.2	0.6	0.2	61	0.08	0.032	13
1234477	Soil	3.8	21.4	12.1	95	0.4	85.2	12.3	230	2.98	19.9	1.3	4.0	14	0.3	0.6	0.3	67	0.08	0.029	11
1234478	Soil	5.9	44.3	12.0	117	0.2	163.8	19.3	531	3.37	31.6	3.3	6.1	29	1.0	1.2	0.3	63	0.16	0.059	18
1234479	Soil	1.4	29.6	15.7	52	<0.1	36.5	12.6	217	3.08	5.0	3.0	4.1	20	0.3	0.3	0.2	53	0.13	0.042	16
1234480	Soil	1.3	36.7	21.1	60	0.2	51.2	17.3	356	3.75	2.7	3.4	4.2	14	0.2	0.1	0.3	75	0.09	0.071	26
1234481	Soil	1.3	18.2	11.1	25	0.6	17.5	5.3	154	1.95	2.2	2.5	0.2	9	0.1	0.2	0.2	37	0.06	0.132	10
1234482	Soil	1.4	42.5	17.6	46	0.1	42.0	16.9	504	4.09	2.1	1.3	4.8	26	0.2	0.1	0.3	77	0.12	0.053	21
1234483	Soil	2.7	32.7	18.0	77	0.3	37.4	13.0	568	3.32	2.2	0.8	0.5	23	0.7	0.2	0.3	64	0.10	0.066	15
1234484	Soil	3.2	16.0	7.9	30	0.3	12.3	2.9	105	0.98	1.4	1.2	0.2	9	0.6	<0.1	0.1	33	0.04	0.047	8



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234454	Soil	208	1.85	127	0.032	<1	1.92	0.009	0.06	2.4	0.03	4.0	0.2	<0.05	6	<0.5	<0.2
1234455	Soil	105	1.14	108	0.069	<1	1.80	0.011	0.15	0.6	0.01	4.1	0.3	<0.05	6	<0.5	<0.2
1234456	Soil	95	1.34	166	0.038	2	2.07	0.011	0.17	0.5	0.03	3.4	0.2	0.07	6	<0.5	<0.2
1234457	Soil	99	1.68	144	0.079	<1	2.48	0.023	0.10	0.3	0.02	4.4	0.1	<0.05	8	0.6	<0.2
1234458	Soil	133	1.00	87	0.059	<1	1.59	0.008	0.09	0.5	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
1234459	Soil	138	1.24	144	0.073	<1	1.68	0.015	0.17	0.3	0.01	4.6	0.3	<0.05	6	<0.5	<0.2
1234460	Soil	110	0.81	97	0.055	<1	1.91	0.007	0.10	0.6	0.02	3.2	0.4	<0.05	6	0.6	<0.2
1234461	Soil	130	1.08	86	0.055	<1	1.57	0.008	0.09	0.5	0.02	2.8	0.2	<0.05	5	1.3	<0.2
1234462	Soil	138	1.07	102	0.039	1	2.13	0.010	0.09	0.6	0.05	3.1	0.3	0.07	6	2.0	<0.2
1234463	Soil	93	0.94	126	0.061	<1	2.63	0.013	0.07	0.3	0.02	4.1	0.3	0.06	9	1.4	0.3
1234464	Soil	126	1.00	136	0.049	<1	2.65	0.012	0.08	0.5	0.05	3.7	0.2	<0.05	7	1.4	<0.2
1234465	Soil	185	1.49	99	0.049	2	1.79	0.010	0.09	0.6	0.02	3.3	0.2	<0.05	5	1.4	0.2
1234466	Soil	143	1.02	115	0.041	2	1.66	0.010	0.10	0.6	0.02	4.1	0.3	<0.05	5	1.6	<0.2
1234468	Soil	8	0.06	46	0.010	2	0.41	0.023	0.04	<0.1	0.02	1.0	<0.1	0.06	1	2.0	<0.2
1234469	Soil	123	1.35	172	0.068	2	1.94	0.027	0.23	0.3	0.02	5.4	0.3	<0.05	7	1.6	<0.2
1234470	Soil	127	1.04	153	0.048	1	1.98	0.015	0.13	0.5	0.02	4.2	0.3	<0.05	6	3.2	<0.2
1234471	Soil	116	0.98	79	0.039	1	1.86	0.009	0.06	0.3	0.04	3.6	0.3	<0.05	6	1.8	<0.2
1234472	Soil	78	1.33	204	0.051	1	2.24	0.072	0.27	0.2	0.02	4.8	0.2	<0.05	7	2.1	<0.2
1234473	Soil	81	0.52	62	0.029	1	1.08	0.008	0.06	0.3	0.01	2.4	0.1	<0.05	5	2.0	<0.2
1234474	Soil	132	1.22	133	0.076	2	2.08	0.010	0.13	0.4	<0.01	5.0	0.3	<0.05	6	1.4	<0.2
1234475	Soil	106	0.87	66	0.052	1	1.37	0.008	0.08	0.4	<0.01	2.9	0.2	<0.05	6	1.3	<0.2
1234476	Soil	111	0.91	118	0.047	2	1.96	0.008	0.08	0.3	0.02	4.1	0.2	<0.05	6	<0.5	<0.2
1234477	Soil	101	0.89	123	0.047	1	1.86	0.009	0.06	0.2	<0.01	3.0	0.1	<0.05	7	0.5	<0.2
1234478	Soil	122	1.44	142	0.042	2	1.92	0.015	0.12	0.3	0.02	3.9	0.3	0.06	5	2.3	<0.2
1234479	Soil	39	0.76	206	0.080	1	2.48	0.009	0.30	0.3	0.01	5.1	0.3	<0.05	7	<0.5	<0.2
1234480	Soil	63	1.15	369	0.074	1	4.37	0.009	0.71	0.3	<0.01	7.3	0.7	<0.05	12	<0.5	<0.2
1234481	Soil	24	0.36	113	0.018	2	1.85	0.012	0.25	0.2	0.05	1.3	0.2	0.18	6	1.1	<0.2
1234482	Soil	54	1.10	298	0.114	1	3.54	0.012	0.77	0.6	0.01	8.3	0.6	0.05	10	0.6	<0.2
1234483	Soil	45	0.65	142	0.040	2	2.53	0.007	0.34	0.3	0.03	2.6	0.3	0.09	9	0.9	<0.2
1234484	Soil	15	0.16	75	0.011	<1	0.91	0.011	0.08	0.1	<0.01	1.0	<0.1	0.06	4	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1234485	Soil	4.7	37.6	9.2	82	1.2	43.1	7.1	133	2.12	5.4	2.9	0.8	15	0.8	0.1	0.2	74	0.10	0.043
1234486	Soil	3.5	30.9	14.3	72	0.4	53.6	13.0	559	2.05	6.5	1.7	0.3	21	2.0	0.2	0.2	46	0.25	0.084
1234487	Soil	1.1	14.3	8.0	26	0.2	18.3	4.1	158	1.24	0.5	0.8	0.2	15	0.3	0.1	0.2	39	0.19	0.041
1234488	Soil	0.3	2.4	1.7	6	<0.1	2.5	0.6	17	0.22	<0.5	<0.5	<0.1	5	<0.1	<0.1	<0.1	8	0.03	0.030
1234489	Soil	1.5	22.5	12.8	51	0.2	36.1	8.4	161	3.45	2.9	1.6	3.3	8	0.2	0.2	0.2	85	0.07	0.042
1234490	Soil	0.4	9.8	5.0	8	1.1	5.7	1.3	22	0.54	<0.5	1.5	<0.1	7	<0.1	<0.1	<0.1	11	0.04	0.043
1234491	Soil	1.0	28.8	11.2	49	0.5	94.2	12.3	174	2.89	4.1	2.5	2.4	14	0.1	0.2	0.2	62	0.14	0.038
1234492	Soil	0.4	10.0	4.5	27	0.1	18.1	4.2	73	0.99	0.9	1.0	0.5	6	<0.1	0.1	<0.1	31	0.09	0.025
1234493	Soil	0.8	17.6	8.0	45	0.2	37.9	7.7	162	2.22	1.9	2.2	2.3	5	0.1	0.2	0.2	58	0.11	0.046
1234494	Soil	0.4	10.6	5.0	15	0.2	9.2	1.9	45	0.56	<0.5	2.0	0.2	4	0.1	<0.1	<0.1	19	0.05	0.028
1234495	Soil	0.7	14.8	7.4	39	0.2	39.6	6.0	148	1.14	1.1	2.7	1.2	5	0.1	<0.1	0.1	43	0.09	0.026
1234496	Soil	0.3	1.9	2.3	5	<0.1	5.2	0.7	17	0.16	<0.5	1.5	0.1	5	<0.1	<0.1	<0.1	10	0.07	0.008
1234497	Soil	1.4	23.1	9.7	65	0.3	116.6	15.1	502	2.54	3.2	1.7	1.5	13	0.2	0.2	0.2	61	0.11	0.026
1234498	Soil	1.5	16.0	9.0	50	0.1	54.9	8.8	124	2.23	2.7	2.0	2.6	7	0.2	0.2	0.2	52	0.07	0.025
1234499	Soil	0.6	10.3	9.1	57	0.1	46.8	6.6	126	1.89	1.9	2.3	2.9	8	0.1	<0.1	0.2	65	0.10	0.018
1234500	Soil	0.4	13.4	5.5	38	0.1	88.9	14.5	115	2.04	<0.5	2.2	0.9	14	<0.1	<0.1	<0.1	68	0.24	0.006
1220694	Silt	0.8	7.5	3.6	31	<0.1	7.1	5.6	157	3.13	1.7	14.7	10.6	16	<0.1	0.2	0.1	104	0.41	0.097
1220695	Silt	0.7	6.8	2.9	31	0.1	8.8	4.9	206	2.35	4.9	29.1	8.9	16	0.1	0.2	<0.1	69	0.40	0.088
1220696	Silt	1.2	52.2	9.4	54	0.3	142.2	18.4	362	3.05	10.4	1.8	2.2	22	0.4	0.2	0.2	73	0.41	0.061
1220697	Silt	0.4	19.0	7.1	40	0.2	541.4	27.4	479	2.37	13.8	3.1	0.9	19	0.2	0.4	0.1	25	0.45	0.091
1220698	Silt	1.8	36.7	9.6	122	0.5	279.4	23.7	828	3.54	387.5	245.3	1.6	27	2.4	0.7	0.2	48	0.39	0.078



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Toronto ON M5X 1C9 Canada

Project: LOT - BER
Report Date: November 19, 2011

Page: 5 of 5 **Part** 2

CERTIFICATE OF ANALYSIS

WHI11001863.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1234485	Soil	69	0.77	134	0.040	1	2.00	0.016	0.16	0.2	0.03	3.0	0.2	0.07	7	2.0	<0.2
1234486	Soil	42	0.55	178	0.023	1	1.55	0.011	0.16	0.1	0.03	2.0	0.1	0.08	6	1.7	<0.2
1234487	Soil	24	0.26	149	0.027	1	0.96	0.013	0.16	<0.1	0.02	2.2	0.1	<0.05	6	0.6	<0.2
1234488	Soil	3	0.02	27	0.005	<1	0.17	0.023	0.03	<0.1	<0.01	0.8	<0.1	0.05	1	<0.5	<0.2
1234489	Soil	55	0.75	136	0.114	2	2.34	0.008	0.21	0.3	<0.01	5.7	0.2	<0.05	12	<0.5	<0.2
1234490	Soil	10	0.04	60	0.007	<1	0.64	0.016	0.04	<0.1	0.04	1.4	<0.1	<0.05	2	<0.5	<0.2
1234491	Soil	78	0.98	147	0.076	<1	2.21	0.008	0.17	0.3	0.03	4.8	0.2	<0.05	7	<0.5	<0.2
1234492	Soil	38	0.25	44	0.038	1	0.77	0.011	0.05	0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1234493	Soil	74	0.51	83	0.083	<1	1.16	0.017	0.09	0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
1234494	Soil	29	0.09	59	0.017	1	0.37	0.010	0.04	<0.1	0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
1234495	Soil	75	0.51	69	0.062	<1	1.04	0.008	0.09	0.1	0.01	2.6	<0.1	<0.05	6	0.7	<0.2
1234496	Soil	22	0.04	43	0.025	<1	0.17	0.017	0.02	<0.1	0.01	1.1	<0.1	<0.05	2	0.6	<0.2
1234497	Soil	121	1.08	283	0.060	1	1.57	0.011	0.11	0.3	0.01	3.9	0.1	<0.05	7	<0.5	<0.2
1234498	Soil	68	0.51	106	0.067	1	1.50	0.007	0.08	0.3	0.01	3.2	0.1	<0.05	6	<0.5	<0.2
1234499	Soil	92	1.14	125	0.086	1	1.92	0.012	0.06	0.2	0.01	5.8	0.1	<0.05	9	0.8	<0.2
1234500	Soil	181	1.46	155	0.171	<1	1.97	0.033	0.04	<0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
1220694	Silt	25	0.23	127	0.066	<1	0.76	0.007	0.05	2.3	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1220695	Silt	21	0.21	90	0.053	<1	0.56	0.008	0.04	2.7	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1220696	Silt	112	1.37	284	0.106	2	1.98	0.020	0.35	0.4	0.03	5.4	0.3	<0.05	6	1.0	<0.2
1220697	Silt	243	1.82	154	0.021	5	1.03	0.011	0.05	0.8	0.03	2.6	<0.1	<0.05	2	0.7	<0.2
1220698	Silt	182	1.35	187	0.035	2	1.94	0.011	0.11	7.3	0.04	4.3	0.2	<0.05	4	3.1	<0.2



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Report Date:

November 19, 2011

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Part 1

QUALITY CONTROL REPORT

WHI11001863.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1234346	Soil	0.9	8.5	9.3	40	0.2	104.3	8.4	172	2.58	18.4	<0.5	1.4	13	0.2	0.4	0.3	49	0.04	0.029	7
REP 1234346	QC	0.8	8.3	9.5	42	0.2	108.6	8.3	173	2.57	18.8	63.8	1.4	14	0.2	0.4	0.3	50	0.04	0.029	7
1234362	Soil	1.1	14.0	11.4	53	<0.1	46.7	9.0	278	3.18	10.6	2.2	5.7	11	0.2	0.5	0.4	35	0.07	0.029	9
REP 1234362	QC	1.1	14.8	11.3	57	<0.1	48.8	9.3	283	3.35	10.3	0.6	5.7	12	0.2	0.6	0.4	36	0.07	0.030	9
1234425	Soil	0.7	12.8	8.0	25	0.2	14.8	3.9	98	1.10	0.8	0.9	0.3	12	0.2	0.1	0.2	32	0.09	0.034	9
REP 1234425	QC	0.6	12.8	7.8	26	0.2	15.8	3.9	97	1.12	<0.5	<0.5	0.2	12	0.1	<0.1	0.2	32	0.09	0.032	9
1234452	Soil	0.6	16.6	8.6	72	<0.1	196.7	16.8	374	3.64	91.3	33.8	4.8	12	0.2	0.4	0.2	63	0.13	0.053	14
REP 1234452	QC	0.6	17.0	8.5	72	<0.1	200.4	16.4	373	3.63	91.2	11.8	4.8	13	0.1	0.5	0.2	62	0.13	0.051	13
1234479	Soil	1.4	29.6	15.7	52	<0.1	36.5	12.6	217	3.08	5.0	3.0	4.1	20	0.3	0.3	0.2	53	0.13	0.042	16
REP 1234479	QC	1.4	30.0	15.3	54	<0.1	38.2	13.0	226	3.29	4.4	1.5	4.2	21	0.3	0.3	0.2	55	0.14	0.047	16
1234497	Soil	1.4	23.1	9.7	65	0.3	116.6	15.1	502	2.54	3.2	1.7	1.5	13	0.2	0.2	0.2	61	0.11	0.026	11
REP 1234497	QC	1.6	22.9	9.7	62	0.3	116.9	15.0	494	2.53	3.3	1.9	1.4	13	0.2	0.2	0.2	63	0.11	0.028	12
1220697	Silt	0.4	19.0	7.1	40	0.2	541.4	27.4	479	2.37	13.8	3.1	0.9	19	0.2	0.4	0.1	25	0.45	0.091	13
REP 1220697	QC	0.4	20.4	8.5	41	0.1	551.1	27.8	496	2.49	14.2	1.9	0.9	19	0.2	0.3	0.1	26	0.44	0.095	13
Reference Materials																					
STD DS8	Standard	12.5	107.4	117.8	298	1.7	36.3	7.0	579	2.32	25.1	103.2	5.9	65	2.3	4.8	5.6	43	0.67	0.075	14
STD DS8	Standard	12.2	99.7	120.5	295	1.9	34.8	7.2	588	2.40	23.1	103.5	6.8	69	2.3	5.5	6.4	41	0.68	0.078	15
STD DS8	Standard	12.6	104.8	120.3	310	1.7	35.8	6.9	599	2.38	24.2	118.3	6.4	67	2.1	5.4	6.3	41	0.67	0.079	15
STD DS8	Standard	12.0	109.6	118.5	305	1.8	38.2	7.4	588	2.37	24.6	121.2	6.1	64	2.3	5.5	6.3	41	0.66	0.075	14
STD DS8	Standard	11.7	100.0	119.7	295	1.7	34.4	6.6	545	2.29	23.7	111.5	6.6	69	2.1	5.4	6.4	38	0.67	0.072	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project:

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Report Date:

November 19, 2011

Page:

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Part 2

QUALITY CONTROL REPORT

WHI11001863.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1234346	Soil	155	0.60	36	0.027	1	1.14	0.010	0.03	0.5	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
REP 1234346	QC	163	0.61	37	0.029	<1	1.18	0.009	0.04	0.5	<0.01	1.7	<0.1	<0.05	8	<0.5	<0.2
1234362	Soil	61	0.62	90	0.027	<1	2.26	0.013	0.07	0.2	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
REP 1234362	QC	64	0.64	94	0.029	<1	2.29	0.007	0.08	0.3	0.03	2.1	<0.1	<0.05	6	0.5	<0.2
1234425	Soil	28	0.30	97	0.044	<1	1.09	0.014	0.10	0.1	0.03	1.2	0.1	<0.05	4	<0.5	<0.2
REP 1234425	QC	28	0.29	96	0.040	<1	1.09	0.013	0.10	0.2	0.02	1.2	0.1	<0.05	5	<0.5	<0.2
1234452	Soil	132	1.25	145	0.078	<1	2.09	0.017	0.13	2.1	<0.01	5.6	0.2	<0.05	8	<0.5	<0.2
REP 1234452	QC	134	1.25	151	0.076	1	2.16	0.015	0.13	2.1	0.02	5.7	0.2	<0.05	8	<0.5	<0.2
1234479	Soil	39	0.76	206	0.080	1	2.48	0.009	0.30	0.3	0.01	5.1	0.3	<0.05	7	<0.5	<0.2
REP 1234479	QC	41	0.80	209	0.084	1	2.53	0.010	0.34	0.3	0.02	5.6	0.4	<0.05	7	0.9	<0.2
1234497	Soil	121	1.08	283	0.060	1	1.57	0.011	0.11	0.3	0.01	3.9	0.1	<0.05	7	<0.5	<0.2
REP 1234497	QC	121	1.13	283	0.059	<1	1.63	0.010	0.12	0.2	0.02	4.1	0.1	<0.05	7	<0.5	<0.2
1220697	Silt	243	1.82	154	0.021	5	1.03	0.011	0.05	0.8	0.03	2.6	<0.1	<0.05	2	0.7	<0.2
REP 1220697	QC	260	1.93	152	0.023	5	1.08	0.012	0.06	0.7	0.03	2.5	<0.1	<0.05	3	0.9	<0.2
Reference Materials																	
STD DS8	Standard	113	0.59	280	0.101	4	1.00	0.107	0.47	2.9	0.19	3.2	5.4	0.17	5	6.1	5.3
STD DS8	Standard	109	0.60	278	0.115	2	0.89	0.099	0.40	2.9	0.19	2.6	5.3	0.16	5	3.6	4.6
STD DS8	Standard	110	0.57	266	0.110	3	0.88	0.096	0.41	2.9	0.20	2.4	5.3	0.14	5	5.1	4.9
STD DS8	Standard	116	0.59	273	0.116	2	0.87	0.081	0.39	3.0	0.18	2.1	5.2	0.13	4	5.3	4.7
STD DS8	Standard	105	0.56	265	0.113	2	0.86	0.089	0.39	2.9	0.17	2.3	5.2	0.17	5	5.1	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: September 23, 2011
Report Date: November 16, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001717.1

CLIENT JOB INFORMATION

Project: LOT - BER
Shipment ID: BER RX(1-2)
P.O. Number
Number of Samples: 26

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	26	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B	26	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	26	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	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. Acme 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: LOT - BER
Report Date: November 16, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11001717.1

Method Analyte Unit MDL		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1222756	Rock	1.61	<2	0.2	2.0	2.9	1	<0.1	1.5	0.5	67	0.26	2.5	<0.5	0.2	31	<0.1	<0.1	<0.1	<2	0.42
1222757	Rock	2.07	7	0.6	22.2	9.8	34	<0.1	43.4	21.0	313	5.75	0.9	2.3	11.9	33	<0.1	<0.1	0.3	140	0.26
1222758	Rock	2.08	<2	<0.1	3.3	2.0	<1	<0.1	2.4	0.8	24	0.30	0.6	<0.5	0.3	16	<0.1	<0.1	<0.1	<2	0.11
1222759	Rock	1.65	<2	0.7	6.8	7.0	15	<0.1	9.7	3.4	345	1.07	1.4	<0.5	3.4	243	0.4	<0.1	0.1	23	4.20
1222760	Rock	1.79	<2	0.2	4.6	0.8	3	<0.1	2.6	0.6	41	0.51	1.0	1.2	0.8	<1	<0.1	<0.1	<0.1	5	0.02
1222761	Rock	1.56	<2	0.5	33.9	9.4	39	<0.1	51.5	25.8	473	5.79	<0.5	1.4	13.0	18	0.2	<0.1	0.1	135	0.22
1222762	Rock	1.33	3	3.7	46.7	8.4	31	<0.1	35.6	16.8	447	4.60	0.8	1.6	8.2	19	0.1	<0.1	1.0	113	0.30
1222763	Rock	2.00	<2	1.2	22.7	9.8	7	0.1	21.0	8.0	1751	1.39	0.8	<0.5	7.1	455	0.2	<0.1	0.1	10	17.38
1222764	Rock	3.01	<2	1.4	22.9	4.7	55	0.1	0.6	1.6	516	3.36	0.8	0.6	3.7	32	<0.1	0.1	4.7	30	0.59
1222765	Rock	0.95	<2	0.2	1.5	0.6	2	<0.1	1.3	0.5	55	0.36	0.8	<0.5	0.2	9	<0.1	<0.1	<0.1	2	0.19
1222766	Rock	1.49	<2	<0.1	0.2	0.3	32	<0.1	482.0	93.7	317	13.84	31.6	<0.5	0.1	<1	<0.1	0.2	<0.1	138	0.05
1222767	Rock	1.94	<2	<0.1	3.4	0.4	17	<0.1	1650	70.7	568	3.65	75.7	<0.5	<0.1	1	<0.1	0.1	<0.1	10	0.34
1222768	Rock	0.98	<2	0.2	52.6	2.1	59	0.1	20.0	4.2	144	2.13	24.0	0.5	3.7	45	0.1	0.2	<0.1	37	1.03
1222769	Rock	0.97	<2	1.0	15.2	14.1	35	0.3	17.7	7.4	388	1.97	11.1	<0.5	4.1	11	0.1	0.1	0.3	13	0.30
1222770	Rock	1.12	<2	1.6	8.6	5.1	20	<0.1	5.8	1.5	159	0.64	13.5	1.8	0.3	5	0.2	0.3	<0.1	2	0.08
1222771	Rock	1.21	<2	0.1	12.3	0.6	5	<0.1	1.1	0.3	51	1.13	89.2	1.3	1.2	2	<0.1	0.1	<0.1	3	0.01
1224388	Rock	1.37	5	0.4	29.4	10.8	81	<0.1	27.7	15.3	600	4.18	12.1	3.8	16.9	14	0.2	0.1	0.1	90	0.19
1224389	Rock	0.84	5	0.3	10.0	10.0	18	<0.1	5.9	3.4	174	1.11	5.3	1.5	13.1	5	<0.1	0.3	<0.1	17	0.05
1224390	Rock	1.20	<2	<0.1	1.7	1.4	2	<0.1	1.5	0.4	25	0.30	0.8	<0.5	0.1	2	<0.1	<0.1	<0.1	<2	<0.01
1224391	Rock	1.39	<2	0.1	7.3	5.2	34	<0.1	11.9	5.7	112	1.25	1.3	<0.5	0.6	1	<0.1	<0.1	<0.1	13	<0.01
1224392	Rock	1.79	4	0.5	2.6	1.5	2	1.1	0.7	0.2	17	0.60	6.3	5.3	1.1	5	<0.1	1.8	0.1	2	<0.01
1224393	Rock	1.92	<2	0.1	14.8	7.7	23	<0.1	6.6	2.6	76	1.11	1.0	<0.5	6.3	2	<0.1	<0.1	0.3	14	0.03
1224394	Rock	1.00	5	0.6	10.6	3.3	21	0.2	3.8	1.8	44	0.99	12.2	1.2	3.3	12	<0.1	0.7	0.8	19	<0.01
1224395	Rock	0.85	9	<0.1	4.2	0.2	17	<0.1	1585	66.9	295	4.93	8.0	<0.5	<0.1	<1	<0.1	<0.1	<0.1	26	<0.01
1224396	Rock	0.57	<2	0.2	14.6	1.9	3	<0.1	13.6	2.2	38	0.62	47.0	3.4	0.3	1	<0.1	0.3	<0.1	<2	<0.01
1224397	Rock	0.28	6	<0.1	0.3	0.4	18	<0.1	306.6	32.8	408	3.02	1.8	0.6	<0.1	1	<0.1	<0.1	<0.1	12	0.03



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Project: LOT - BER
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CERTIFICATE OF ANALYSIS

WHI11001717.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
1222756	Rock	0.038	1	2	0.02	23	0.002	<20	0.74	0.050	0.02	0.4	<0.01	<0.1	<0.05	0.5	<0.5	1
1222757	Rock	0.065	31	81	1.55	747	0.360	<20	4.05	0.112	2.44	<0.1	<0.01	1.0	<0.05	17.1	<0.5	14
1222758	Rock	0.011	1	<1	0.02	14	0.003	<20	0.25	0.039	0.01	0.2	<0.01	<0.1	<0.05	0.2	<0.5	<1
1222759	Rock	0.106	10	11	0.19	102	0.040	<20	5.62	0.101	0.06	12.2	<0.01	<0.1	0.07	1.8	<0.5	17
1222760	Rock	0.001	2	4	0.06	40	0.015	<20	0.19	0.006	0.07	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1
1222761	Rock	0.077	36	93	1.74	1153	0.287	<20	4.09	0.073	2.36	<0.1	<0.01	0.8	<0.05	15.7	<0.5	14
1222762	Rock	0.070	27	74	1.48	536	0.221	<20	3.30	0.078	1.44	<0.1	<0.01	0.5	<0.05	11.2	<0.5	12
1222763	Rock	0.080	10	7	0.16	104	0.038	<20	5.46	0.140	0.02	0.1	<0.01	<0.1	0.50	1.2	0.6	11
1222764	Rock	0.072	7	10	0.90	102	0.230	<20	1.73	0.008	0.18	0.3	<0.01	0.2	0.28	4.1	4.9	3
1222765	Rock	0.004	<1	2	0.05	167	0.007	<20	0.14	0.003	<0.01	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1
1222766	Rock	0.009	<1	1122	9.87	4	0.034	20	2.47	<0.001	<0.01	0.5	<0.01	<0.1	<0.05	26.1	<0.5	3
1222767	Rock	0.001	<1	374	14.14	10	0.003	<20	0.21	0.003	<0.01	<0.1	<0.01	<0.1	<0.05	4.9	<0.5	<1
1222768	Rock	0.045	5	31	0.90	255	0.051	<20	2.82	0.109	0.36	<0.1	<0.01	0.6	0.07	4.8	1.6	8
1222769	Rock	0.025	11	13	0.66	46	0.021	<20	1.10	0.015	0.09	<0.1	<0.01	<0.1	<0.05	1.8	1.7	3
1222770	Rock	0.035	<1	2	0.19	14	<0.001	<20	0.22	0.004	0.03	0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1
1222771	Rock	0.009	2	<1	0.10	4	<0.001	<20	0.15	0.004	<0.01	<0.1	<0.01	<0.1	<0.05	0.4	0.9	<1
1224388	Rock	0.037	27	66	1.00	202	0.301	<20	2.43	0.052	1.12	0.1	<0.01	0.5	<0.05	9.8	0.6	10
1224389	Rock	0.009	10	14	0.21	43	0.079	<20	0.63	0.059	0.35	0.4	<0.01	0.2	<0.05	2.2	0.6	3
1224390	Rock	0.001	<1	1	<0.01	13	<0.001	<20	0.05	0.001	0.02	<0.1	<0.01	<0.1	<0.05	0.1	<0.5	<1
1224391	Rock	0.008	1	5	<0.01	20	0.001	<20	0.15	<0.001	0.03	<0.1	0.02	<0.1	<0.05	1.3	<0.5	<1
1224392	Rock	0.004	5	3	<0.01	353	<0.001	<20	0.11	0.001	0.06	<0.1	0.50	<0.1	<0.05	0.2	<0.5	<1
1224393	Rock	0.022	11	21	0.16	89	0.053	<20	0.41	0.003	0.29	<0.1	0.01	0.1	<0.05	1.1	<0.5	2
1224394	Rock	0.008	11	8	<0.01	112	<0.001	<20	0.23	<0.001	0.06	<0.1	0.19	0.1	<0.05	1.0	0.9	1
1224395	Rock	<0.001	<1	853	10.77	3	0.002	<20	0.14	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	3.7	<0.5	<1
1224396	Rock	0.004	2	<1	0.05	6	0.001	<20	0.09	0.002	0.02	1.0	<0.01	<0.1	<0.05	0.2	<0.5	<1
1224397	Rock	0.003	<1	545	7.22	16	<0.001	<20	0.05	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	3.2	<0.5	<1



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Project:

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Report Date:

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Part 1

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																						
1222770	Rock	1.12	<2	1.6	8.6	5.1	20	<0.1	5.8	1.5	159	0.64	13.5	1.8	0.3	5	0.2	0.3	<0.1	2	0.08	
REP 1222770	QC			1.6	8.7	5.6	19	0.1	6.2	1.5	161	0.65	13.2	<0.5	0.2	5	0.2	0.3	<0.1	2	0.08	
Core Reject Duplicates																						
1222757	Rock	2.07	7	0.6	22.2	9.8	34	<0.1	43.4	21.0	313	5.75	0.9	2.3	11.9	33	<0.1	<0.1	0.3	140	0.26	
DUP 1222757	QC			6	0.5	22.1	9.3	39	<0.1	41.8	20.5	296	5.60	0.7	3.3	12.2	29	<0.1	<0.1	0.3	133	0.24
Reference Materials																						
STD DS8	Standard			14.8	116.0	131.9	321	1.8	39.8	7.8	637	2.63	26.6	106.9	7.3	75	2.6	4.7	7.5	43	0.75	
STD OREAS45CA	Standard			0.6	532.6	21.5	64	0.3	268.4	94.8	991	17.32	4.6	37.0	7.0	17	0.1	<0.1	0.2	216	0.46	
STD OXC88	Standard	199																				
STD OXC88	Standard	209																				
STD OXC88	Standard	208																				
STD OXC88	Standard	190																				
STD OXH82	Standard	1272																				
STD OXH82	Standard	1297																				
STD OXH82	Standard	1307																				
STD OXH82	Standard	1265																				
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7	
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265	
STD OXC88 Expected		203																				
STD OXH82 Expected		1278																				
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
BLK	Blank	<2																				
BLK	Blank	<2																				
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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
Pulp Duplicates																			
1222770	Rock	0.035	<1	2	0.19	14	<0.001	<20	0.22	0.004	0.03	0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
REP 1222770	QC	0.036	<1	2	0.19	13	<0.001	<20	0.22	0.004	0.03	0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
Core Reject Duplicates																			
1222757	Rock	0.065	31	81	1.55	747	0.360	<20	4.05	0.112	2.44	<0.1	<0.01	1.0	<0.05	17.1	<0.5	14	<0.2
DUP 1222757	QC	0.062	34	78	1.49	695	0.351	<20	3.98	0.102	2.35	<0.1	<0.01	1.0	<0.05	16.1	<0.5	13	<0.2
Reference Materials																			
STD DS8	Standard	0.082	17	120	0.64	321	0.125	<20	0.99	0.100	0.44	2.8	0.20	5.8	0.17	2.3	5.7	5	5.2
STD OREAS45CA	Standard	0.041	17	689	0.18	167	0.137	<20	4.06	0.009	0.08	<0.1	0.03	<0.1	<0.05	41.6	1.3	20	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	5.4	0.1679	2.3	5.23	4.7	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4	
STD OXC88 Expected																			
STD OXH82 Expected																			
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		
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QUALITY CONTROL REPORT

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		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank	<2																			
Prep Wash																					
G1	Prep Blank	<2	0.5	2.3	3.2	53	<0.1	4.0	4.4	599	2.09	0.7	<0.5	6.2	69	<0.1	<0.1	<0.1	40	0.52	
G1	Prep Blank	3	0.1	2.2	3.0	50	<0.1	3.7	4.5	599	2.10	0.6	0.6	5.9	68	<0.1	<0.1	<0.1	40	0.53	



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QUALITY CONTROL REPORT

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		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.085	12	6	0.62	230	0.144	<20	1.04	0.083	0.52	0.2	<0.01	0.3	<0.05	2.2	<0.5	6	<0.2
G1	Prep Blank	0.084	12	6	0.61	226	0.139	<20	1.04	0.085	0.51	0.2	<0.01	0.3	<0.05	2.1	<0.5	5	<0.2