

Geological and geochemical report on the Mars Claim

Whitehorse Mining District

NTS:
115G09

LAT: 61°38' LONG: 138°14'

CLAIMS

MARS 1-10 (YC60078 – YD60087)

MARS 11 - 72 (YD132721 – YD132782)

Dates of Work: July 2 - 3 & 6 – 8, 2011

Ryan Gold Corp.

Author: Hua Jin

March 2012

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1. INTROCUCTION

1.1 Location and Access

The Mars claim is situated in the southwestern part of the Yukon Territory, approximately 200 km NW of Whitehorse and east of Talbot Arm of Kluane Lake (Figure 1). The closest community to the claim along the Alaska Highway is Burwash Landing which is located approximately 51km southwest of the Mars claim. The center of the claim is at latitude 61°38'N and longitude 138°14'W on NTS map sheet 115G09. Mars Claim was accessed by helicopter from Burwash Landing to carry out the 2011 exploration work.

1.2 Claim Status and Ownership

The Mars 1-72 claim were registered in the Whitehorse Mining District, 70% of which is owned by Ryan Gold Corp. and 30% owned by 45127 Yukon Inc. Detailed claim information and location of the claim block is shown in Figure 2. Claim tenure information is summarized in table 1 below:

Table 1. Claim tenure information

Claim	Grant Number	Expiry Date	Claim Owner
Mars 1-10	YC60078 - YC60087	December 6, 2016	45127 Yukon Inc - 30%, Ryan Gold Corp. - 70%
Mars 11-72	YD132721-YD132782	December 6, 2015	45127 Yukon Inc - 30%, Ryan Gold Corp. - 70%

(Expiry date includes 2011 work filed for assessment.)

1.3 Topography, Vegetation and Climate

The area is characterized by subtle to and moderate hills with elevation ranging from 1400m at the valley bottom to about 1920 m at the several hill tops. Most of claim area is situated above tree line and the valley is dominated by dwarf birch and black spruce at the lower elevation. The area has a typical continental northern climate with generally warm sunny summers, temperatures ranging between 10°C to 20 °C during the summer, and drops to -10°C to -30°C during the long cold winters with moderate precipitation. The exploration season typically runs from mid-June to late September.

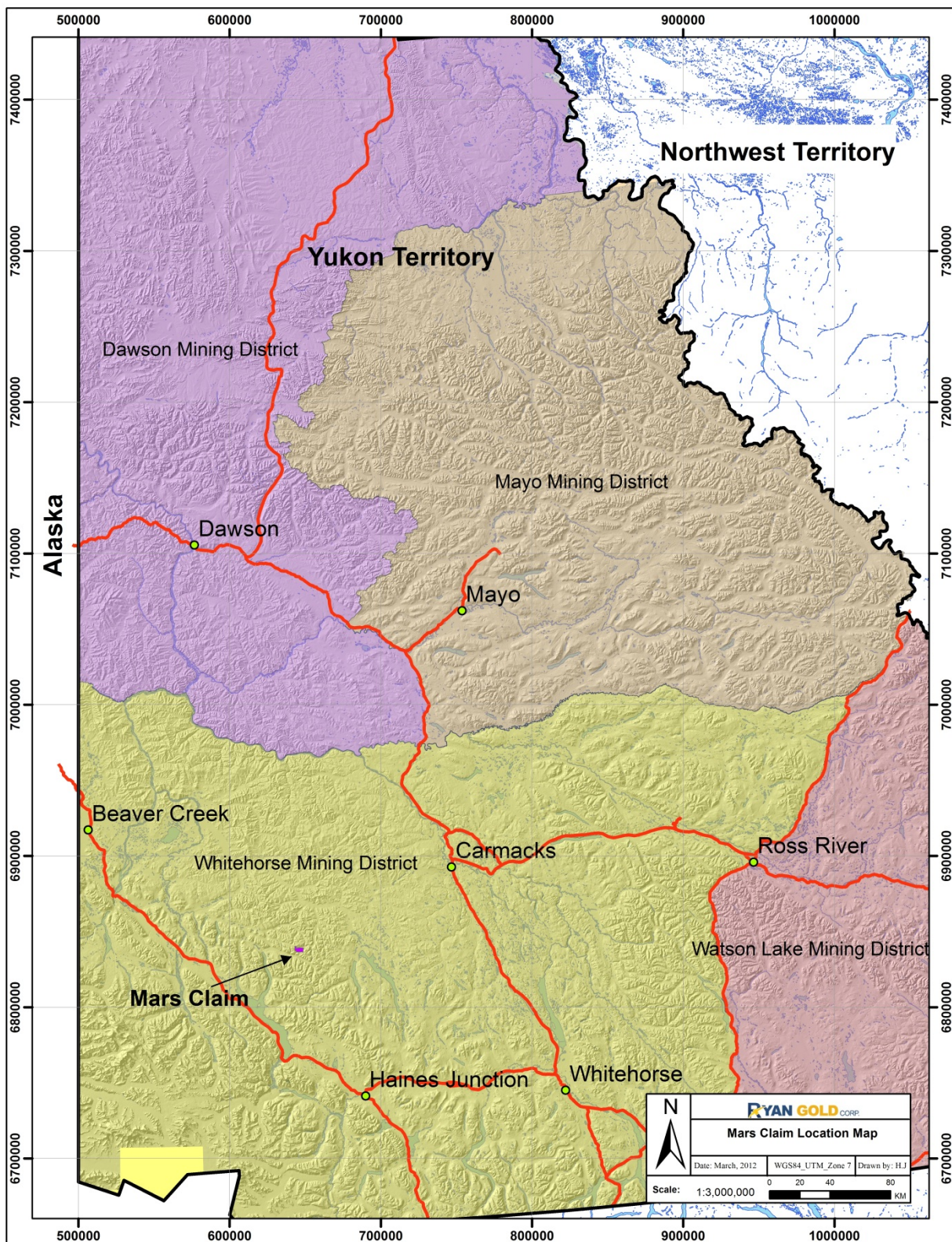
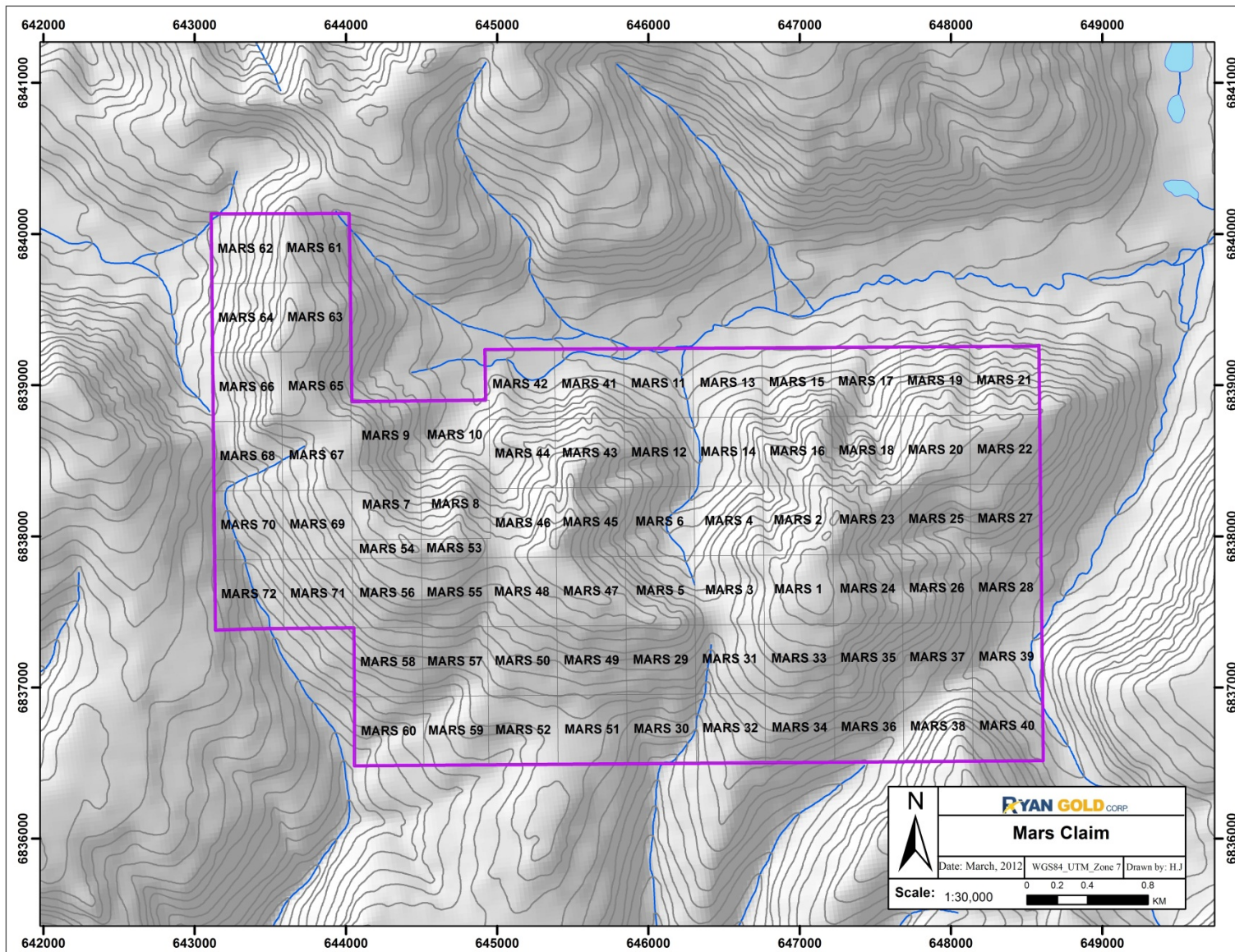


Figure 1. Claim Location Map



2. HISTORY AND PREVIOUS WORK

Previous exploration work at or near the Mars Claim has been summarized below:

- 1972 Dynasty Exploration Ltd. initially explored the area located about 4km NW to the Mars Claim. Trace amount of chalcopyrite was discovered in some of the Alaskite dike. After soil geochemistry survey and geological examination, no zone of economic mineralization was outlined due to spotty and sparse geochem anomalies (Dean, P., 1972).
- 1972 Canadian Occidental Petroleum conducted geochemical survey and geological mapping at the Bir Group claim situated approximately 2km NW to the Mars Claim. The survey discovered significant molybdenum mineralization in a fine grained alaskite and extensive Cu-Zn-Mo anomalies identified in the pyrrhotiferous quartzite and alaskite. Encouraged by the initial result, additional staking, soil and rock geochemistry as well as geophysical survey was recommended (Winfield and Gleeson, 1972).
- 1973 Canadian Occidental Petroleum continued the exploration efforts to the south of the area that was explored in the previous year. The soil and rock geochemistry discovered ten molybdenite showings with highest molybdenum concentration of 132 ppm and outlined numerous discontinuous anomalous trends for molybdenum. However, it was concluded that the mineralization appear to be widespread and discontinuous and the indicated grade is low for economic ore deposit (Saracoglu, N., 1973).
- Little apparent exploration activity occurred from the early seventies till 1987 when the claims were allowed to lapse.
- 1987 United Keno Hill Mines Ltd. conducted an initial prospecting survey and collected twelve soil and rock samples. No silver, lead, zinc soil anomalies were found except for a weak gold anomaly up to 25 ppb (Ouellette, D.J., 1987).
- 2010 Yukon Geological Survey and Geological Survey of Canada carried out 1:50,000 scale bedrock mapping as well as a 400m line spaced aeromagnetic survey over the southwest Yukon Coast Belt which includes the Mars Claim (Israel et al., 2011)

3. 2011 WORK

An exploration campaign consisted of ridge and spur soil sampling, prospecting and rock sampling was carried out from June 22nd to July 6th in 2011. A total of 320 soil samples were collected by GroundTruth Exploration Inc. based out of Dawson, Yukon Territory and additional

20 rock samples were collected by geologists from Ryan Gold Corp. The soil and rock sample location is shown in Figure 3.

4. GEOLOGY

4.1 Regional Geology

The Mars claim is situated within southwestern Yukon Coast Belt. The most recent bedrock mapping in the area is completed by Israel et.al (2010) at 1:50,000 scale along with 400m line spaced aeromagnetic survey. The regional geology of the area is an excerpt from the 2010 assessment report of Garnet/Topaz claim (Jin, 2011) which was summarized after the Israel et al. (2010).

The southwest Yukon region is characterized by three fault bound domains including Yukon-Tanana Terrane, Gneiss unit and Kluane Schist, from highest structural level to lowest level. The intrusion of Ruby Range Batholith overprints the original structural contact between the Yukon Tanana Terrane, orthogneiss and Kluane Schist. It has been interpreted that two major deformation and metamorphism events that occurred during the Pre Jurassic and Jurassic were responsible for the main northeast east dipping foliation present in the Yukon Tanana Terrane. The northwest striking, northeast dipping foliation pervasive throughout the Kluane Schist is likely associated with the thrusting of Yukon-Tanana Terrane over Kluane Schist. The contact between orthogneiss and underlying Kluane schist is interpreted to be a north to northeast dipping shear zone.

The presence of a northwest-dipping stack has been indicated from the geophysics survey where the Kluane Schist occupies the lowest structural level and Yukon-Tanana Terrane the highest (Figure 4). Ruby Range batholith intruded along the contact of Kluane schist and further Yukon-Tanana Terrane. The unit unconformably overlying the Yukon-Tanana Terrane is defined as Rhyolite Creek volcano-plutonic complex. An orthogneiss/paragneiss unit of unknown tectonic affinity was identified between the Ruby Range and Kluane schist.

The Yukon Tanana Terrane is composed of psammitic schist, quartzite, marble, garnet amphibolite with rare metaplutonic rock. Kluane Schist primarily consisted of biotite rich schist and muscovite rich schist with minor bodies of ultramafic and carbonates. The carbonates are light bluish grey weathering, medium to coarse grained and laterally discontinuous. It was foliated, metamorphosed and have a distinctive weathering appearance. Gneiss unit underlain by the Kluane Schist is identified differently from the Kluane Schist by the leucocratic layers containing igneous appearing material rather than deformed quartz veins in the Kluane Schist. The Ruby Range Batholith composed of quartz diorite, tonalite and granodiorite with lesser amount of diorite, gabbro and granite. The Rhyolite Creek Volcano-Plutonic Complex being the

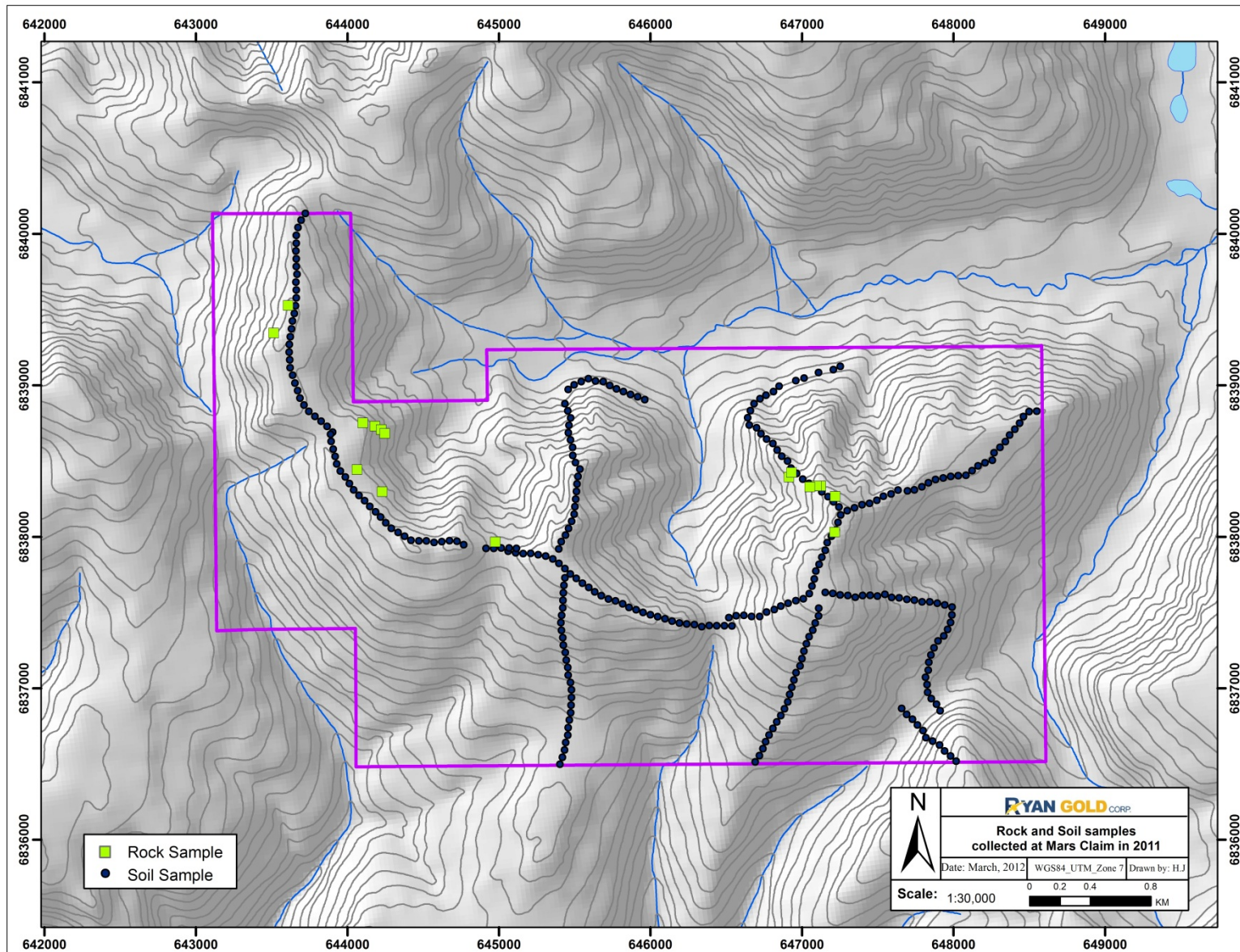


Figure 3. Location of rock and soil samples collected at Mars Claim in 2011

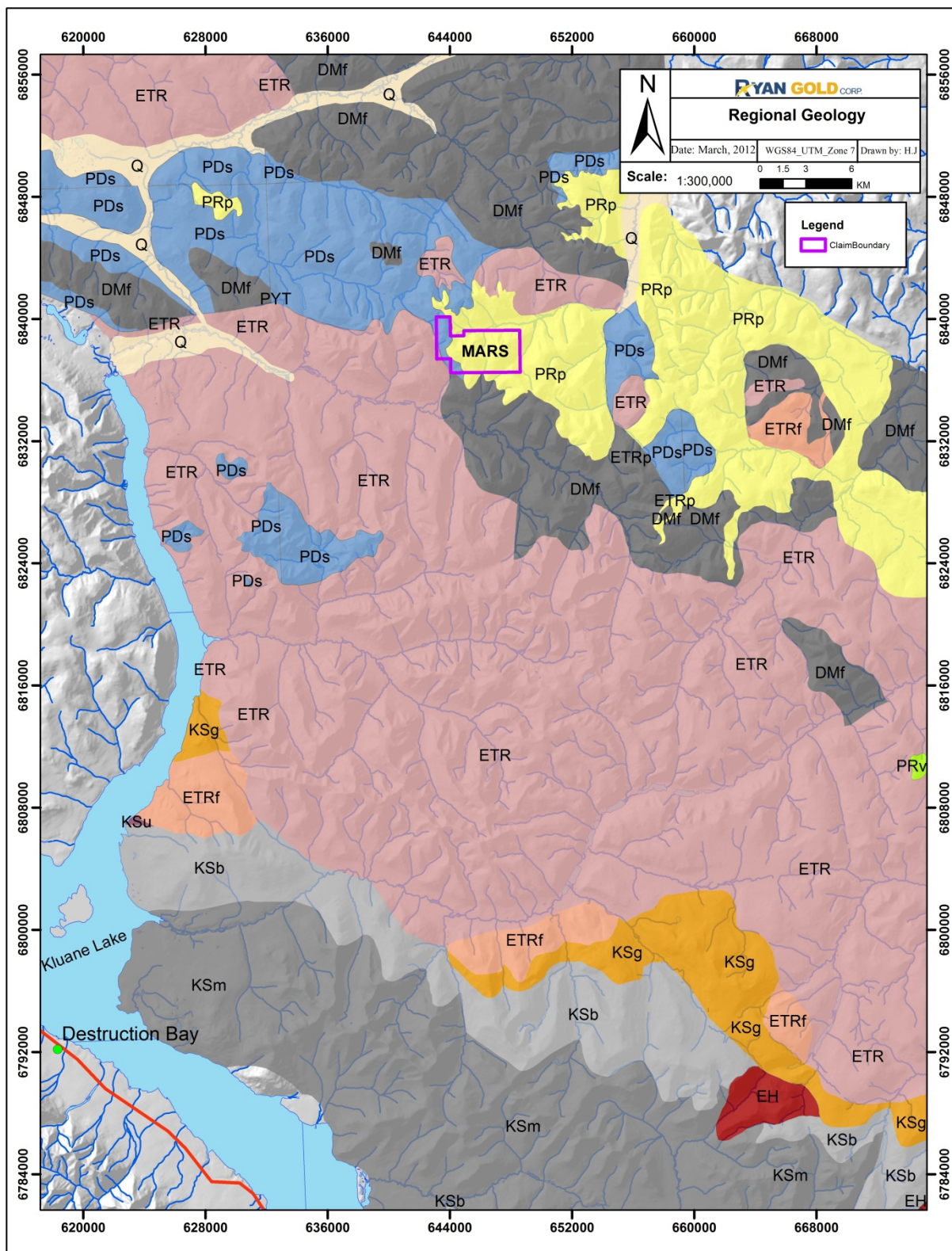


Figure 4. Regional Geology

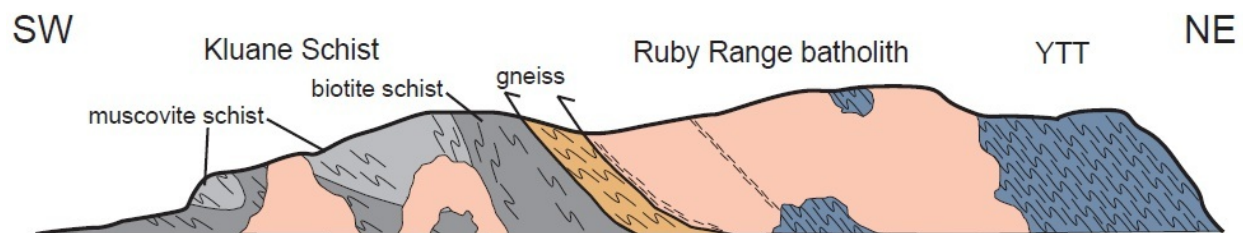


Figure 5. Schematic cross section drawn from southwest to northeast, through the middle of the Coast Belt project area (Israel, 2010)

youngest, porphyritic phase of the Ruby Range Batholith, comprises intermediate volcanic flow, breccia and tuff, flow banded Rhyolite and felsic tuff and rare mafic flow, tuff and breccia.

4.2 Property Geology and Mineralization

Two dominant rock types, namely metasedimentary rock and felsic volcanic rock, were identified within the claim block during the course of rock sampling and prospecting within Mars claim in 2011.

Metasediments comprise quartz-biotite-muscovite schist, quartzite, psammite and biotite hornfels while felsic volcanic in the property consisted of rhyolite, volcanic tuff, quartz (or feldspar) porphyry, flow banded rhyolite. The main contact between the metasediments and felsic volcanic appear to be relatively coinciding with the regional bedrock geology carried out by Israel et al. (2010). A small body of felsic volcanic rock intruding quartz-biotite-muscovite schist was mapped in the northwestern portion of claim and a roof pendant of metasediments consisted of quartzite, biotite hornfels and psammite was identified in the northeastern part of the claim block (Fig. 6).

Dominant mineralization present in rhyolite and metasediments is disseminated and/or stringer pyrite locally up to 5% with minor pyrrhotite (less than 1%), trace chalcopyrite and sphalerite. Oxidation and rusty weathering is common in tan coloured rhyolite and dark brown micaceous quartzite and biotite hornfels. Weak clay alteration was identified in rhyolite and weak to moderate silicification was also noted in rhyolite and metasediments. Main foliation present in the schist is dipping towards north and relatively shallow dipping (15° to 17°).

A total of twenty rock samples were collected from various types of rock, mostly from quartzite where relatively higher concentration of mineralization was identified. The best Cu assay values are 1179.7 ppm and 1638.7 ppm from moderate to strongly silicified and oxidized metasediment and quartzite outcrop, respectively. The metasediment and quartzite are reddish and dark brown in colour and contain up to 5% of pyrite and minor chalcopyrite.

The best Zn assay values are 2200 ppm and 1595 ppm from weakly clay altered, fractured rhyolite outcrop and fractured, oxidized quartzite outcrop, respectively. Minor sphalerite was

identified in the rhyolite, but most of them appear to be strongly oxidized to chocolate brown colour oxides filling fractures and throughout the rhyolite. The quartzite appeared to be moderately rusty with crosscutting fractures filled with red-yellow-orange limonite.

The best Pb assay values are 3760.9 ppm and 2180.5 ppm both from quartzite outcrop characterized by crosscutting fractures filled with red-yellow-orange limonite. The best Mo results are 185.2 ppm, 92.5 ppm, 61.9ppm from rhyolite outcrop which is filled with quartz vein/veinlets stringers and/or stockwork drusy quartz veins and trace amount of pyrrhotite and pyrite present in fractures and quartz veins.

The aforementioned rock samples with significant assay results are shown on Figure 7 and the coordinates, sample location and description of all the rock samples appear in Appendix IV. The rock samples were sent to ACME Analytical Lab Ltd., Vancouver for analysis. Samples were crushed and pulverized to 200 mesh followed by Aqua Regia digestion ICP-MS analysis for 36 geochem elements with additional 50g fire assay fusion gold by ICP-ES. The rock sample assay certificates are listed in Appendix V.

5. Soil geochemistry

The 2011 soil geochemistry survey at Mars claim was carried out from July 2nd to 3rd by soil samplers from the GroundTruth Exploration Inc. A total of 320 soil samples were collected from the ridge and spur traverse lines at the claim. The detailed soil sample description is listed in Appendix III.

5.1 Soil sampling method and analysis

This following section is directly taken from the Chant 2010 soil geochemistry assessment report (Jin, 2010) as the method of collecting soil samples was standardized throughout the properties that GroundTruth samplers worked on.

“Soil samples were taken with one meter soil auger and a prospector pick where necessary. Soil samples were gathered from an average depth of approximately 60 centimeter ranging from 20cm to 110cm from B or C horizon soil. Soil sample locations were clearly marked in the field with pink flagging and aluminum tags. The sample number was inscribed on the aluminum tag and tied to a tree or shrub at shoulder height above sample site. The coordinates of sample location was collected by a Garmin Map76 GPS in UTM NAD 83. Sample description including color, depth, slope, sample quality, ground vegetation, tree cover and GPS coordinates were recorded in a Palm PDA data recorder.

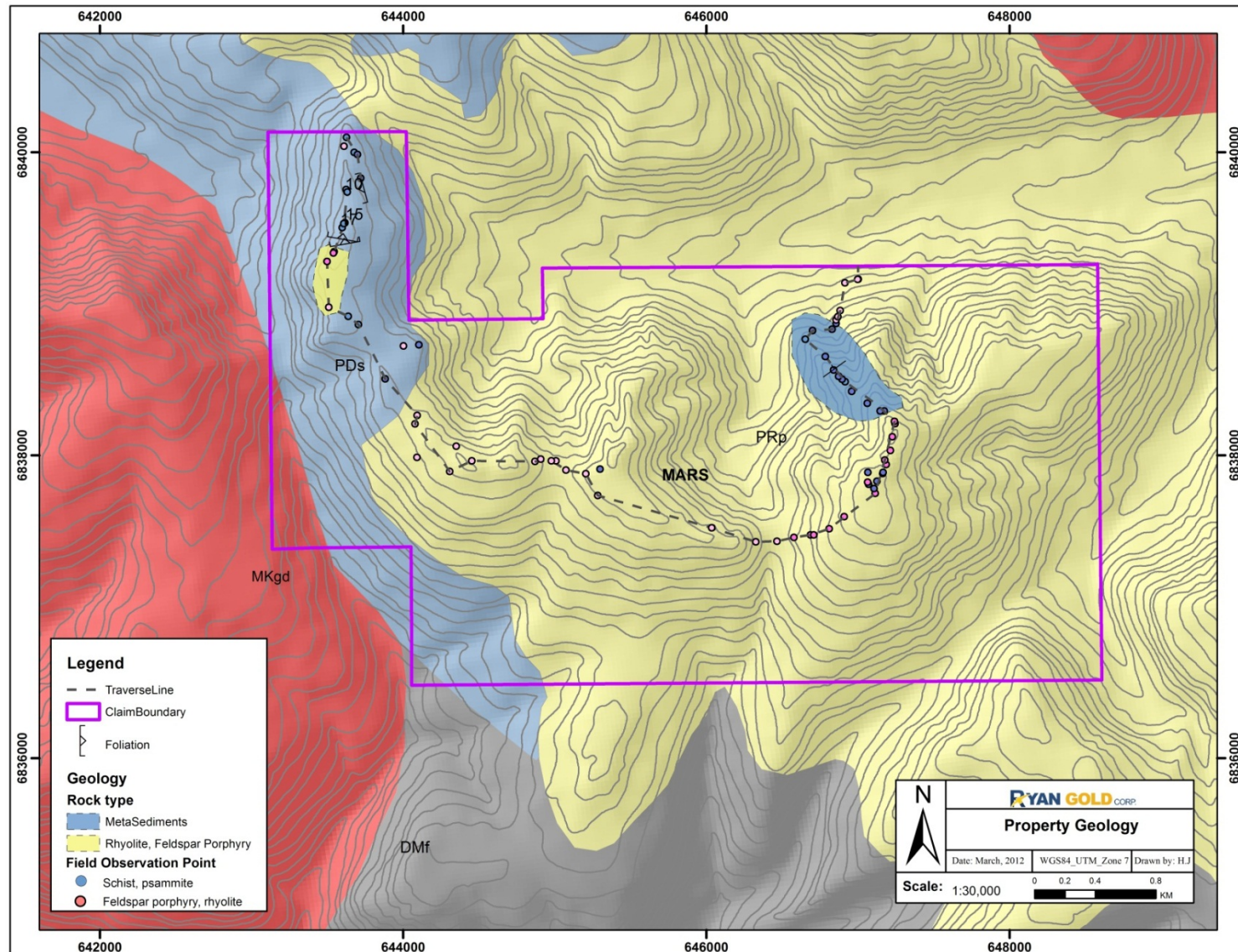


Figure 6. Property Geology

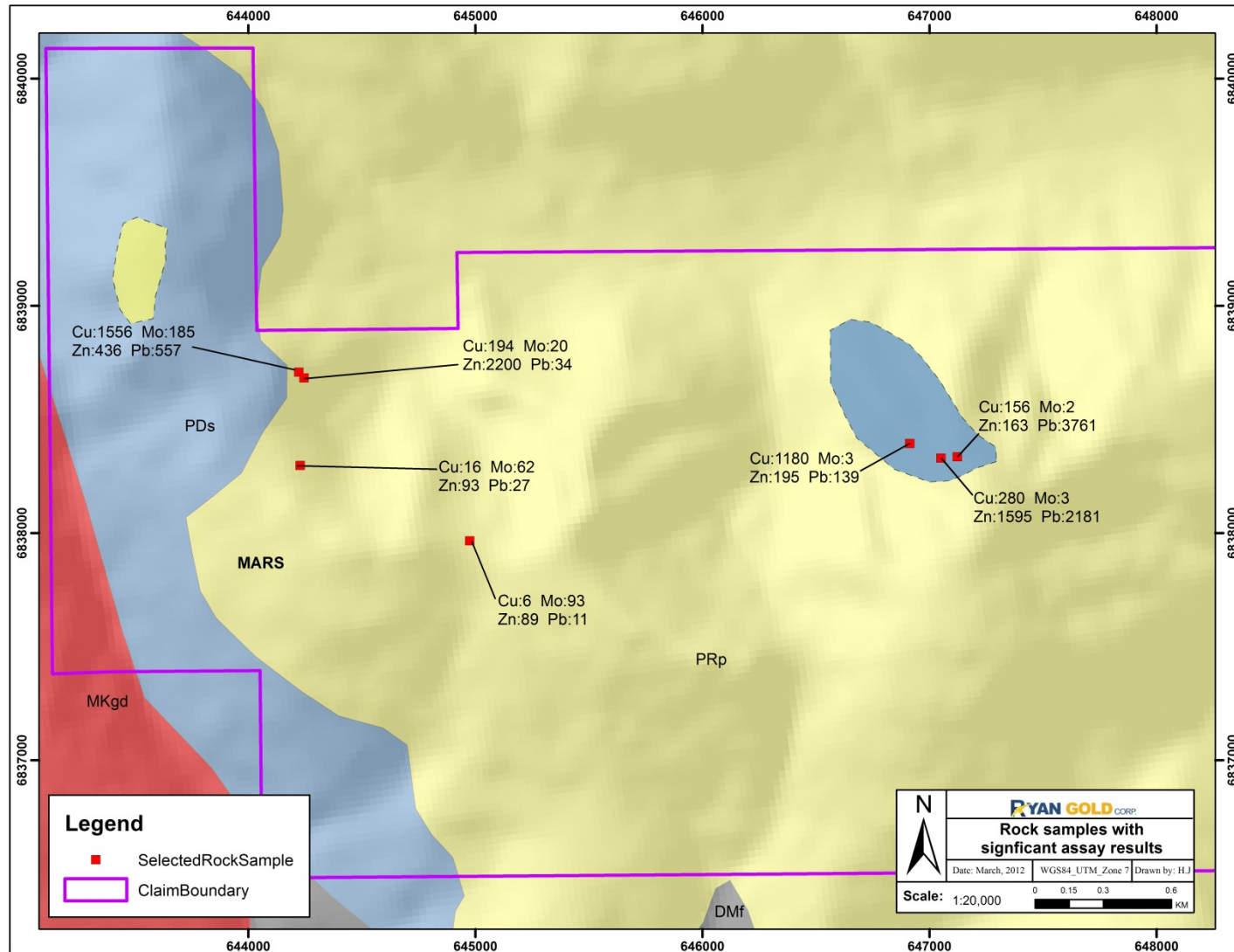


Figure 7. Rock Samples with significant assay results

Approximately 400-500 grams of soil was collected from every station spaced 50m apart on the traverse line and stored in kraft soil bags. All samples were brought back to Dawson City and air dried, repacked in rice bags and sent to ACME labs in Vancouver. Samples are analyzed by Aqua Regia ICP-MS for 36 element (Acme Labs 1DX-15 gram)."

5.2 Results and Interpretation

In order to identify the background values of gold, arsenic, copper, lead, zinc and molybdenum in soil and further establish the threshold values for anomaly, histogram analysis was performed on the assay values of major elements of all soil samples collected in Kluane West region. The histogram analysis between grade and count of samples as well as between cumulative percentages of total samples (red curve in figures) versus grade is shown from Figure 8 to Figure 10.

Review of previous assessment reports (Dean, 1972 & Saracoglu, 1973) has indicated that the background values for copper in soil was around 20-35 ppm with anomalous threshold of 50-70 ppm and the background values for zinc in soil was around 90 – 144 ppm with anomalous threshold between 200 ppm and 322 ppm. The background value of molybdenum in soil was around 3 ppm with anomalous value of 13 ppm (Saracoglu, 1973) and the background value for lead in soil ranged between 15 and 30 ppm with threshold value of 40 ppm (Dean, 1972).

Based on the histogram analysis and the historical geochem values in soil, a series of cut-off values as well as anomalous values of the gold and base metal elements in soil have been determined (Table 2) and was utilized to illustrate the spatial distribution of anomalies of those elements, which are shown on Figure 11 to Figure 16.

Element	Background	Anomalous
Au (ppb)	3 - 8	100
As (ppm)	8 - 30	100
Cu (ppm)	10 - 40	100
Mo (ppm)	1 - 3	10
Pb (ppm)	30	200
Zn (ppm)	100	500

Table 2. Background and anomalous values for geochem elements in soil

The relatively anomalous gold values in soil delineated from the soil geochemistry survey in 2011 are 53 ppb and 63 ppb from the northern central part of the claim, near valley bottom and 75 ppb from a slope adjacent to ridge top in the southwestern part of the claim. The Au in soil values over regional geology and regional mag are shown in Figure 11 and figure 12. Not surprisingly, relatively elevated arsenic values ranging between 111 ppm and 714 ppm were also identified from the similar location as the Au in soil anomalies (Figure 13).

Elevated Cu values in soil ranging from 207 ppm to 446 ppm was discovered from the northern flank of the central ridge and near the contact between felsic volcanic mapped in 2011 and metasediments in the west (Figure 14). Anomalous molybdenum in soil up to 28 ppm was delineated in the central part of the claim (Figure 15) and four Pb anomalies in soil above 500 ppm, namely 526 ppm, 557 ppm, 963 ppm and 966p ppm were delineated from the hilltop in the eastern central and the north facing slope (Figure 16). Clusters of zinc in soil anomalies with maximum value of 2598 ppm were outlined in northern slope of central ridge and eastern central hill top and its northern flanks (Figure 17).

6. CONCLUSIONS and RECOMMENDATIONS

Exploration program at Mars Claim in 2011 consisted of ridge-and-spur soil sampling as well as a couple days of prospecting, reconnaissance style mapping and rock sampling. A total of 320 soil samples and additional 20 rock samples were collected from the campaign.

The soil geochemistry survey indicated that the Mars claim is likely characterized by a gold poor but rich in base metal system with Au in soil generally less than 10 ppb with best Au in soil up to 75 ppb and anomalous lead and zinc content locally up to 966 ppm, 963 ppm Pb and 2598 ppm, 2263 ppm Zn in soil. Elevated copper with best result of 446 ppm and up to 28 ppm Molybdenum in soil was also discovered from the survey.

Significant assay results of base metals from rock samples include 3761 ppm Pb, 2181 ppm Pb, 1556 ppm Cu, 1180 ppm Cu, 2200 ppm Zn, 1595 ppm Zn and 185 ppm Mo. These samples of enriched base metal composition appear to occur near the contact between felsic volcanic and quartz-mica schist in the northwestern part of the claim and within the roof pendants of meta sediments composed of quartzite, biotite hornfels and psammite. However, the extent of mineralized zone doesn't appear to be extensive enough to have the potential for an economically viable deposit.

Small scale prospecting and reconnaissance mapping is recommended to follow up the base metal anomalies in soil at Mars Claim to gain further understanding of the control of mineralization as well as the extent of the mineralized zone.

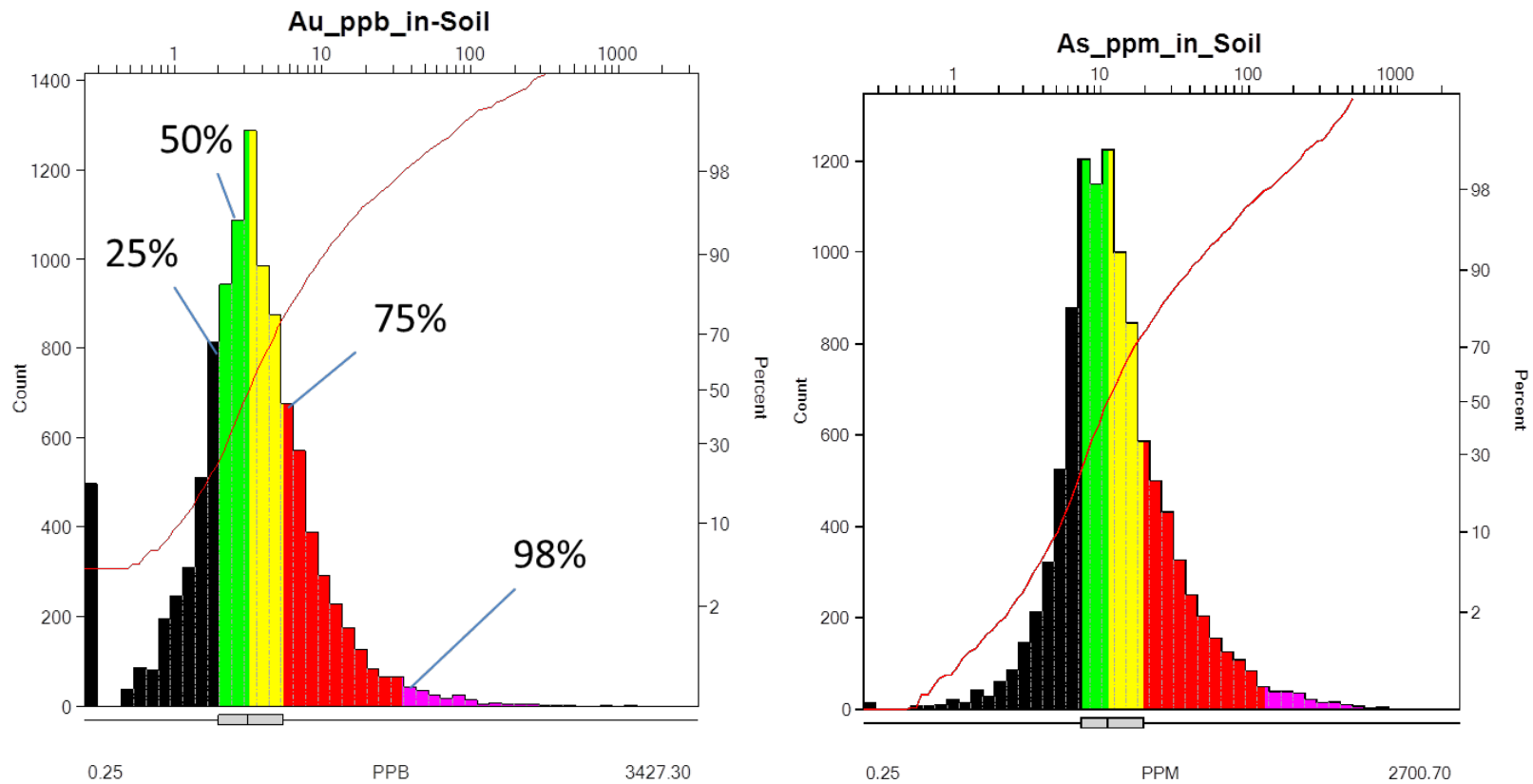


Figure 8. Histogram analysis Au (and As) grade Vs. Count of samples and Cumulative percentage (red curve) Vs. grade

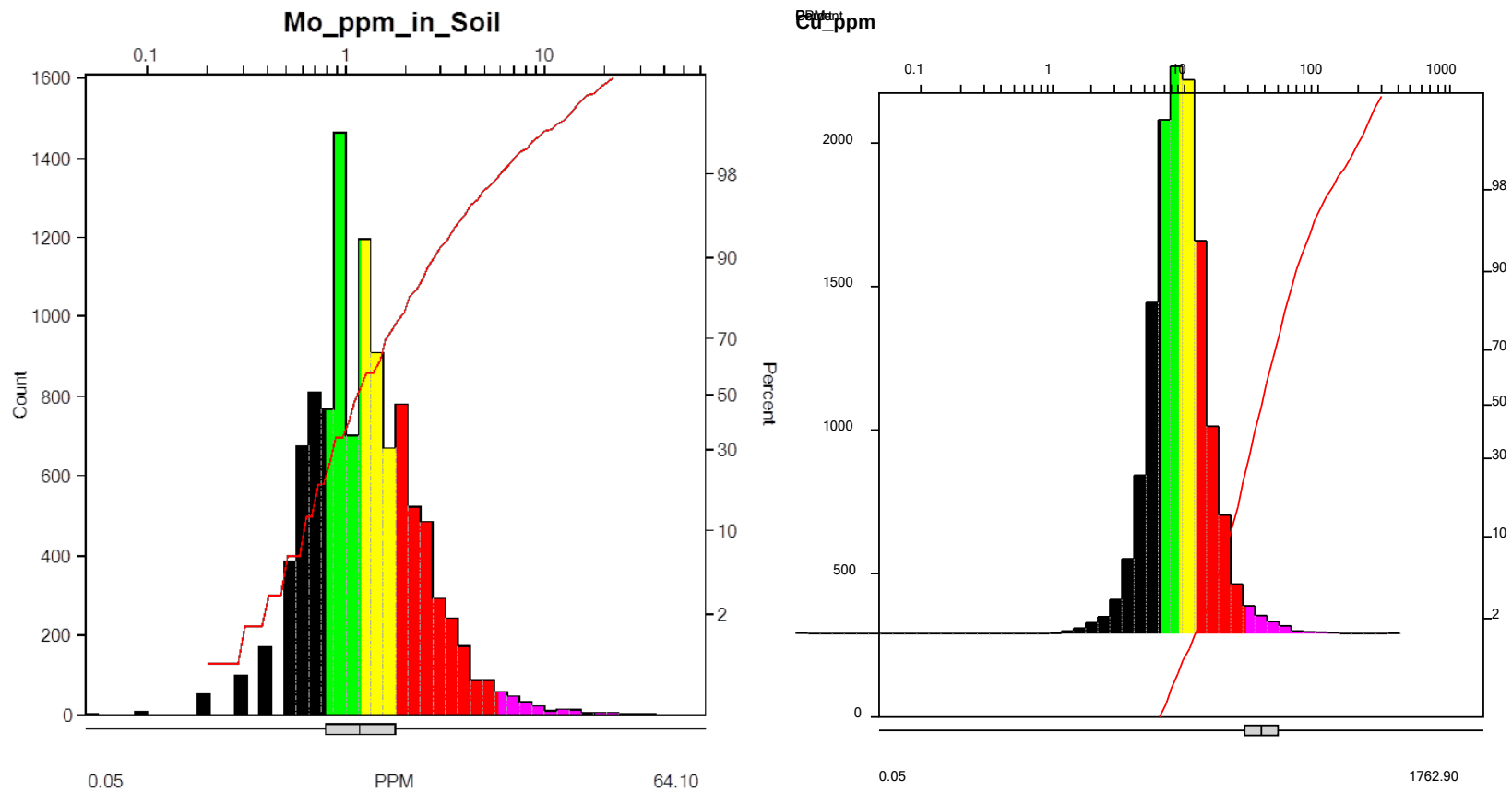


Figure 9. Histogram analysis Mo (and Cu) grade Vs. Count of samples and Cumulative percentage (red curve) Vs. grade

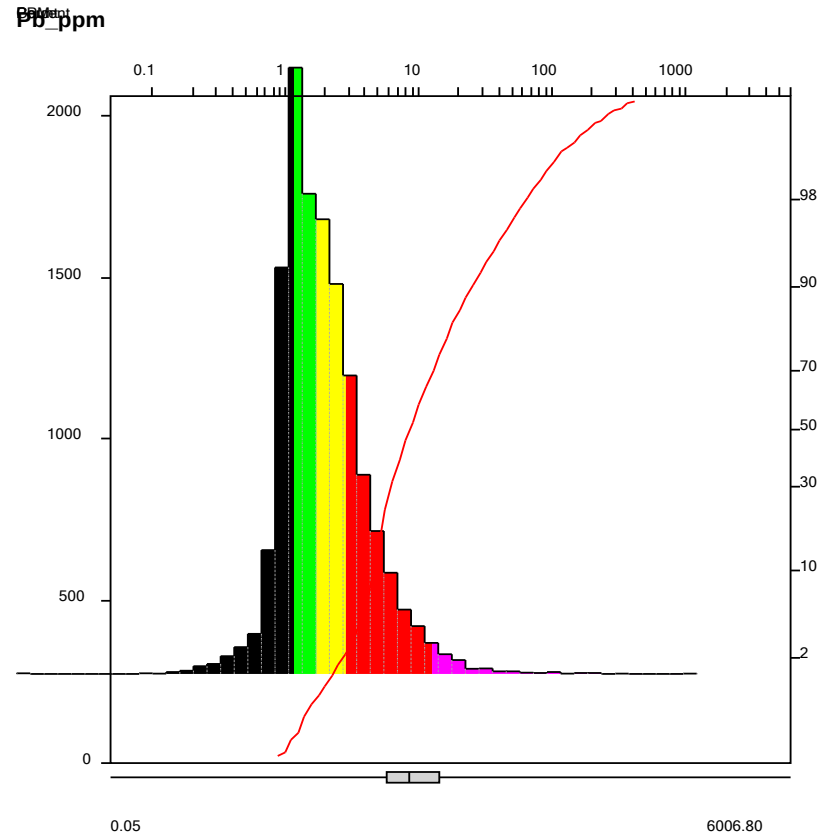
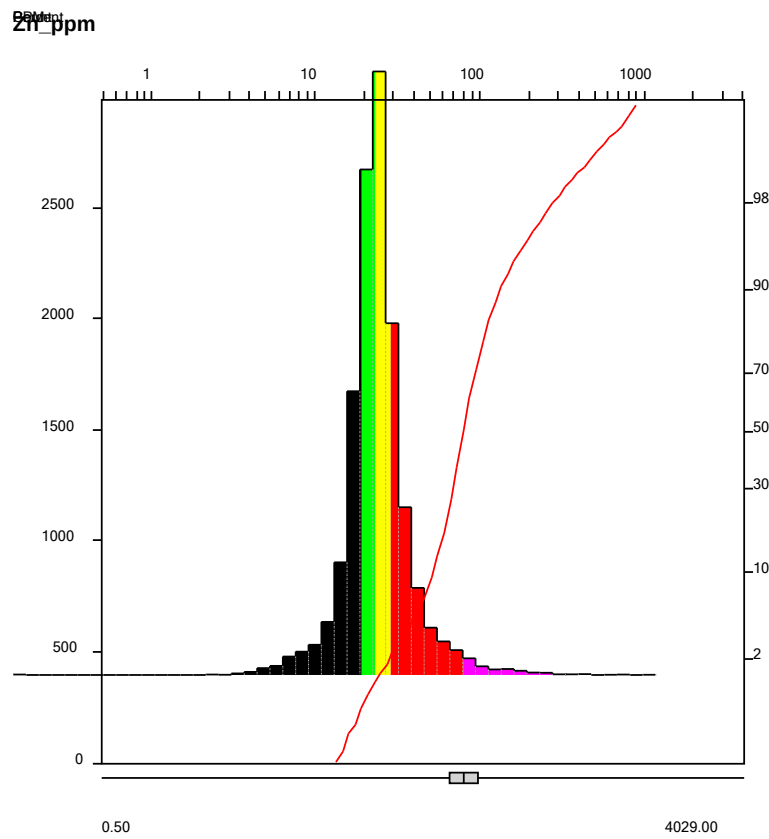


Figure 10. Histogram analysis Zn (and Pb) grade Vs. Count of samples and Cumulative percentage (red curve) Vs. grade

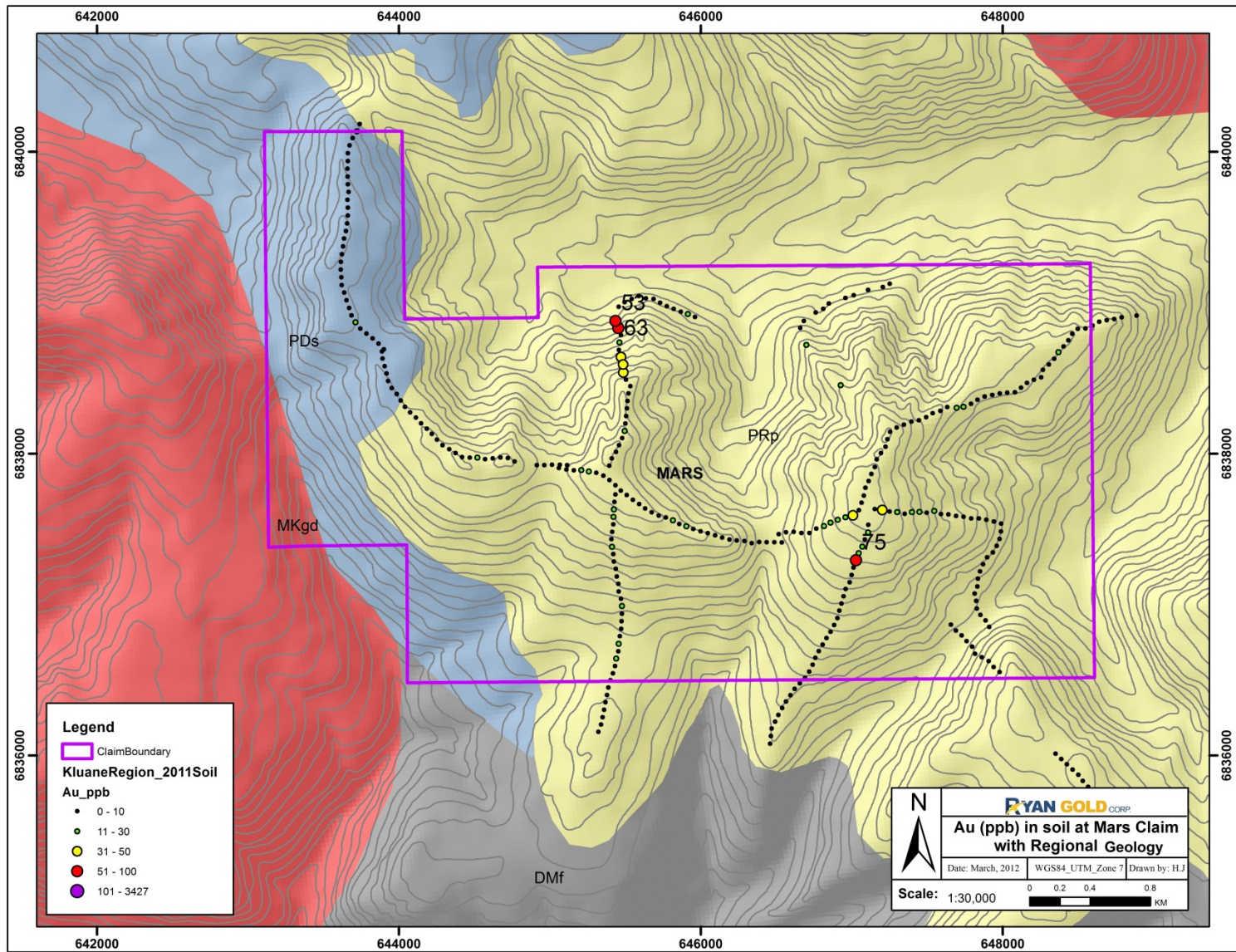


Figure 11. Au (ppb) in soil with Regional Geology at Mars Claim

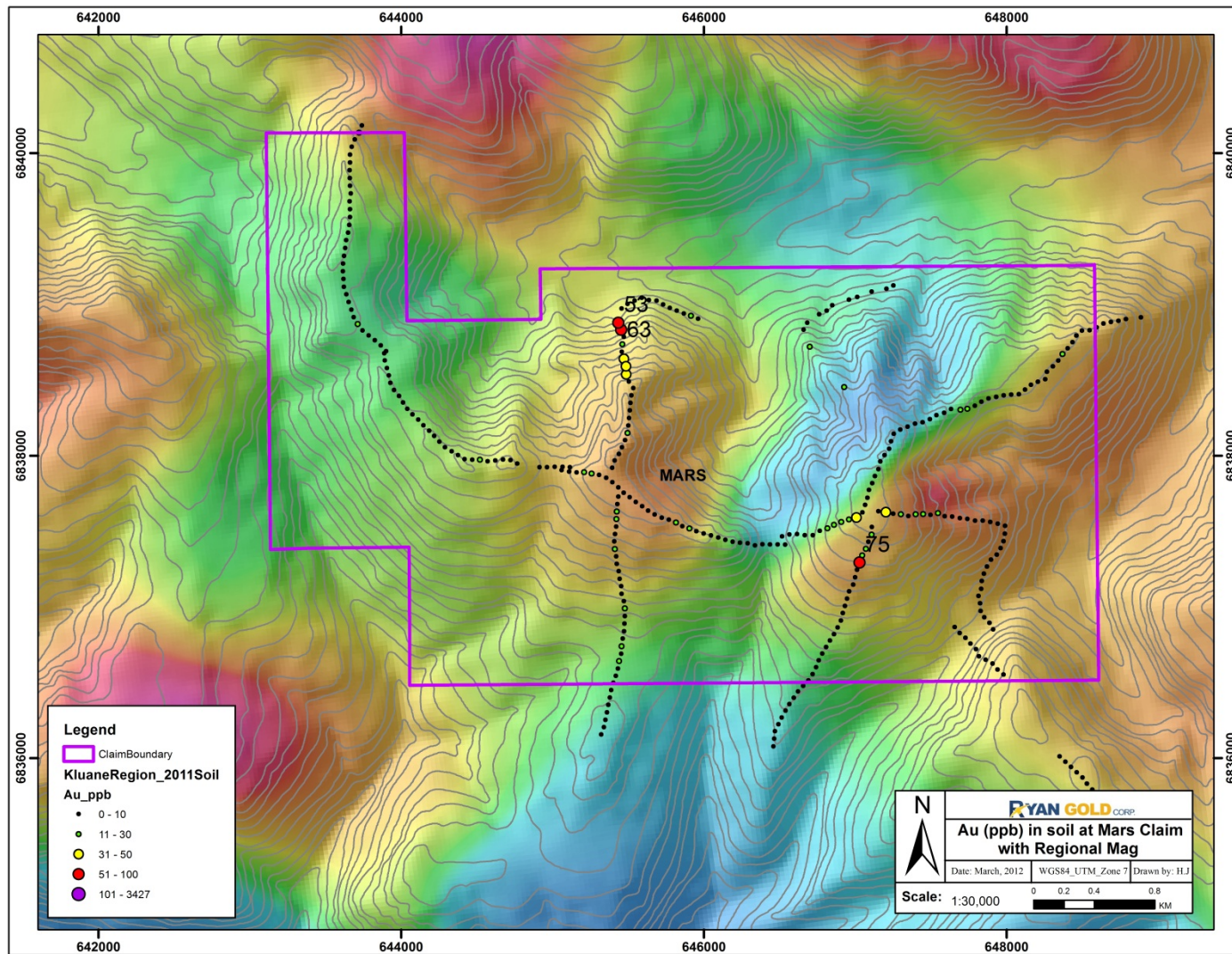


Figure 12. Au (ppm) in soil with Regional Mag at Mars Claim

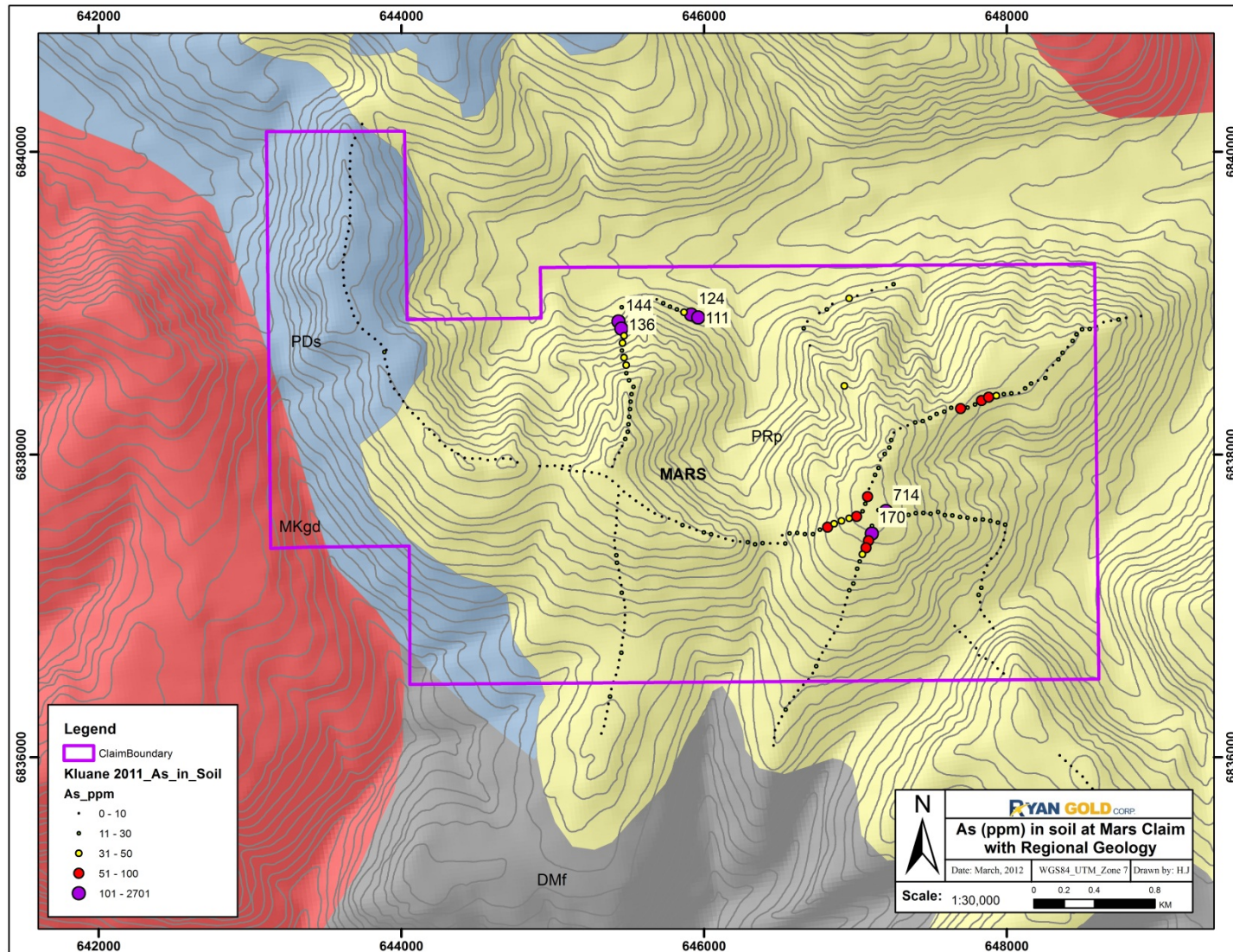


Figure 13. As (ppm) in soil with Regional Geology at Mars Claim

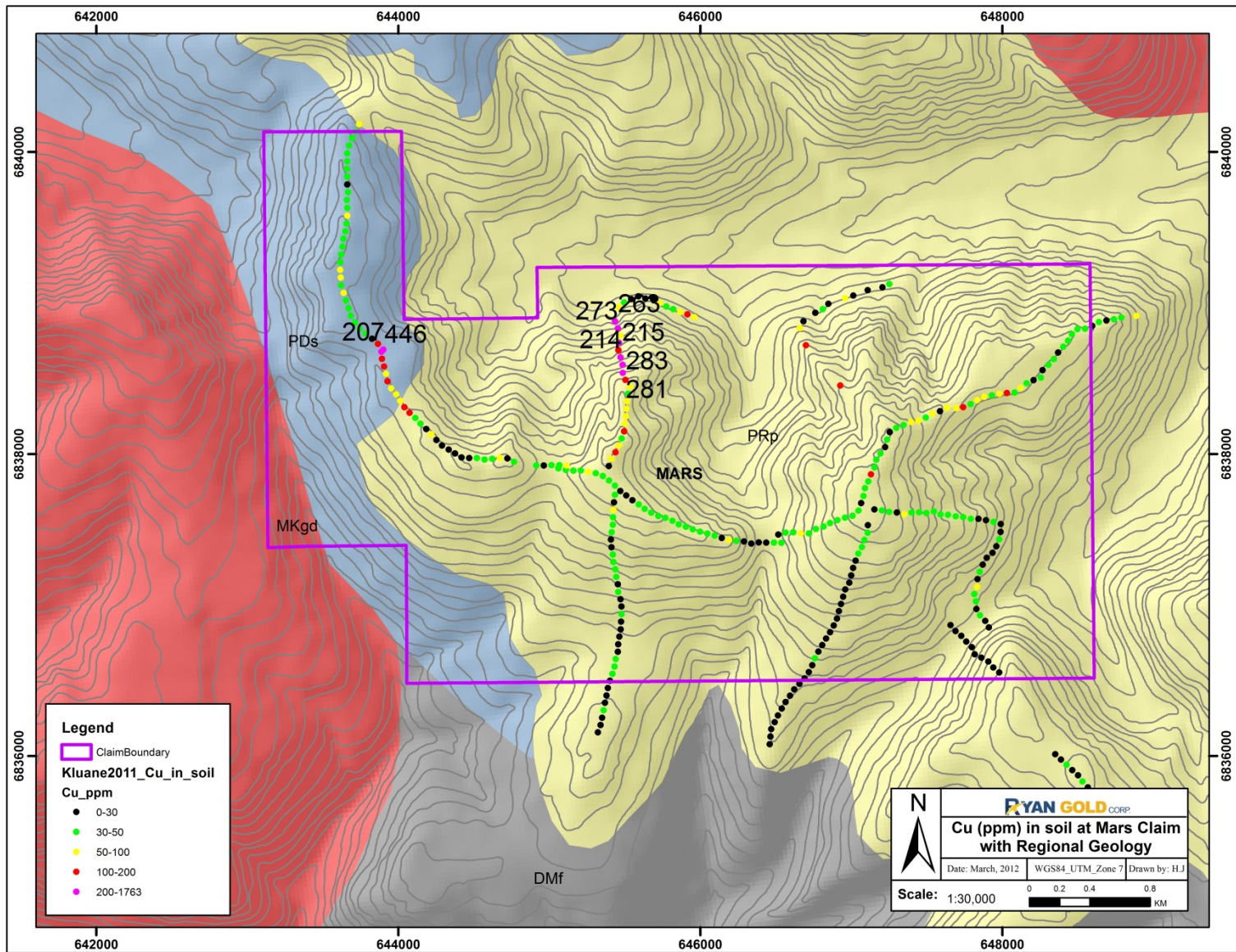


Figure 14. Cu (ppm) in soil with Regional Geology at Mars Claim

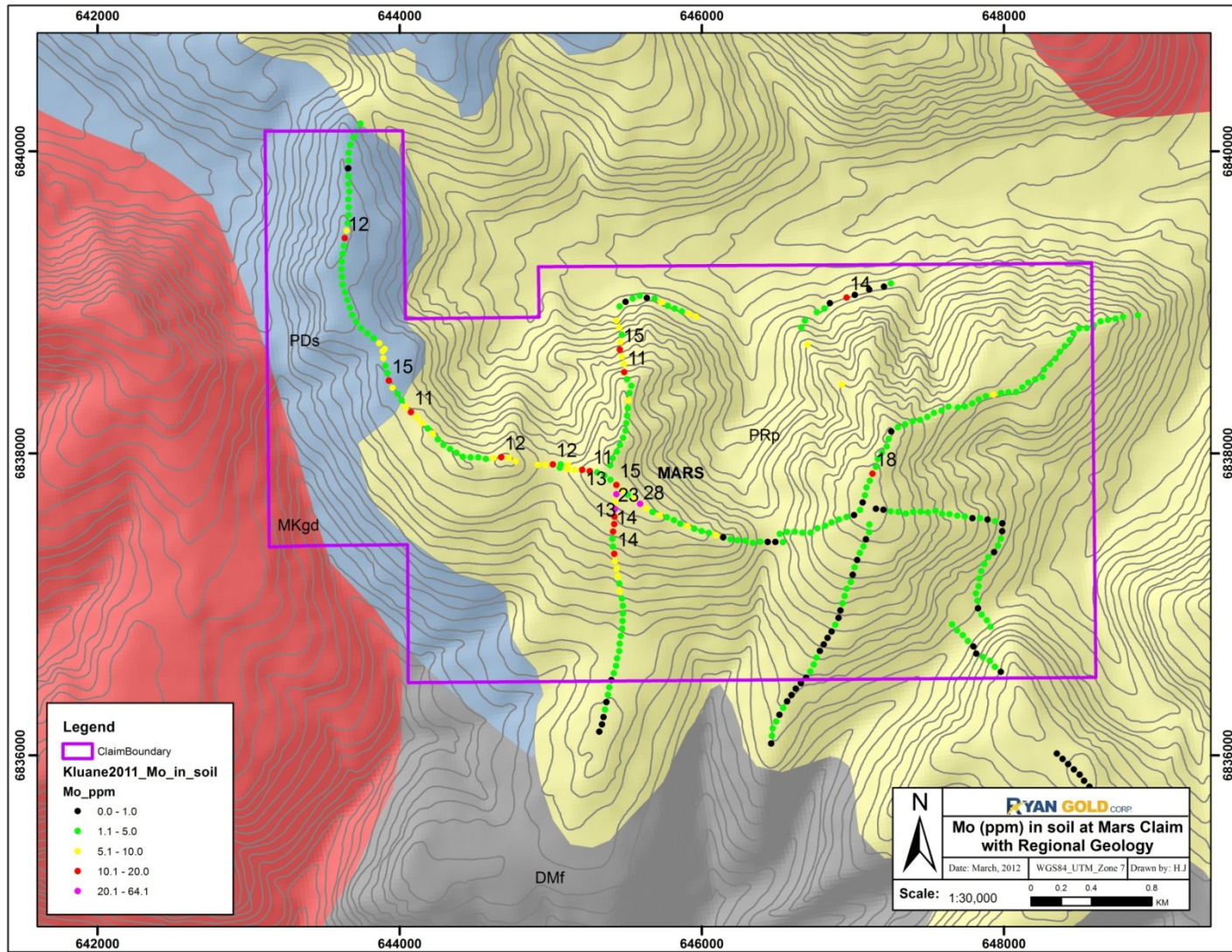


Figure 15. Mo (ppm) in soil with Regional Geology at Mars Claim

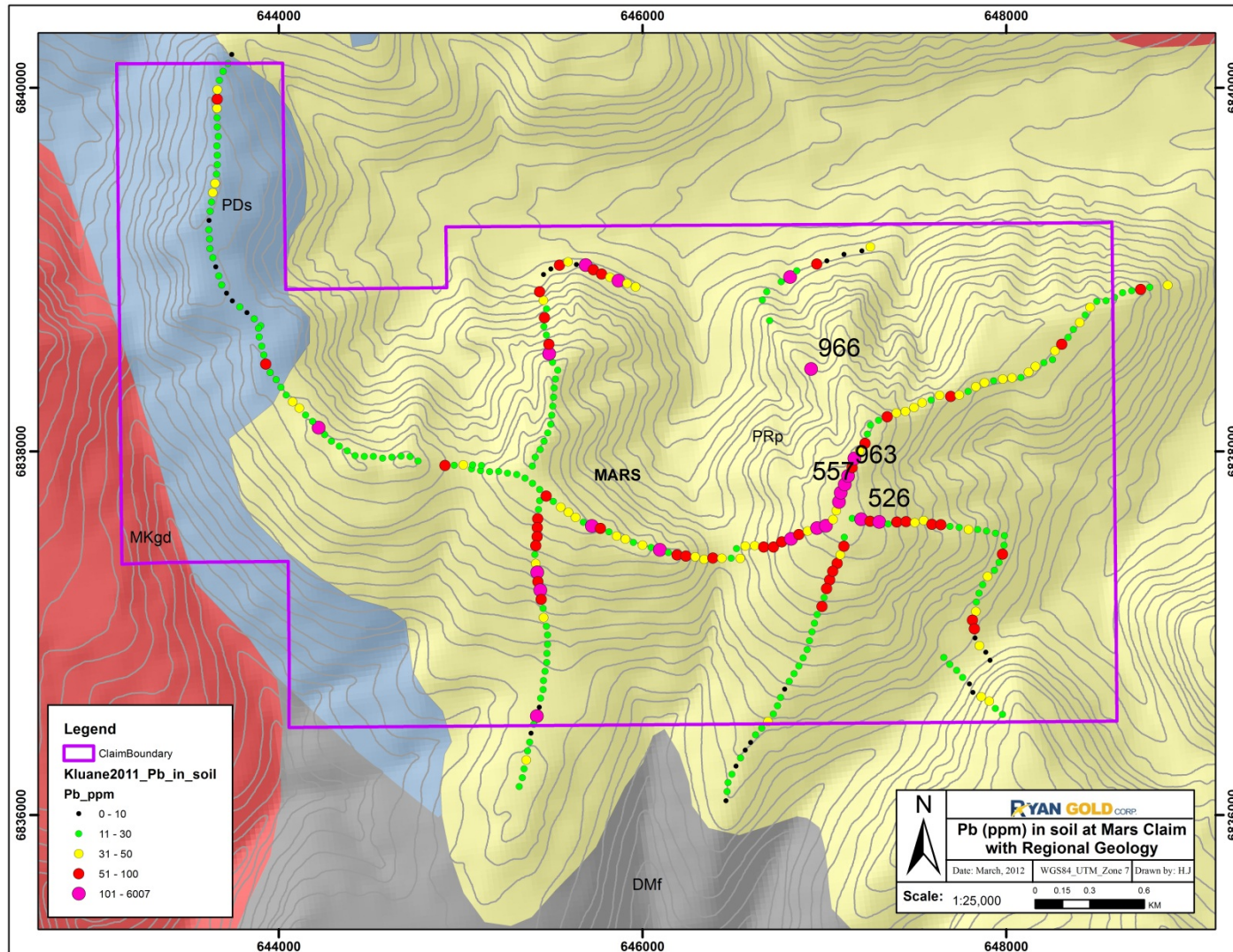


Figure 16. Pb (ppm) in soil with Regional Geology at Mars Claim

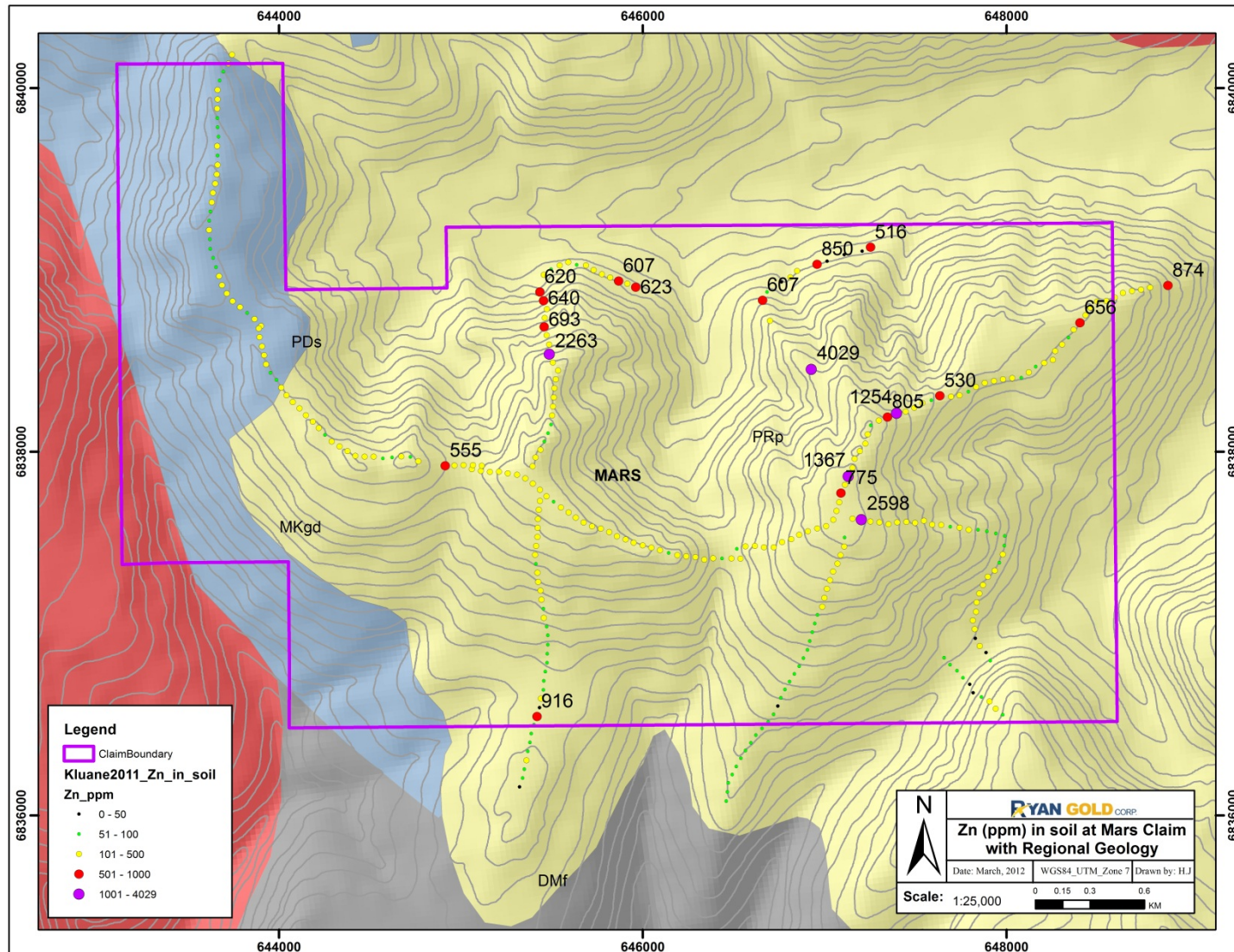


Figure 17. Zn (ppm) in soil with Regional Geology at Mars Claim

7. REFERENCES

Dean, P., 1972. Geological and geochemical evaluation Blue “L” mineral claims, Dynasty Explorations Ltd., Assessment Report #060997

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Jin, 2011. Geological and geochemical report on the Garnet/Topaz Claim.

Israel, S., Murphy, D., Bennett, V., Mortensen, J. and Crowley, J., 2011. New insights into the geology and mineral potential of the Coast Belt in southwestern Yukon.

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Saracoglu, N., 1973. Geology, geochemistry and ground magnetometry of the Rib Claim, Canadian Occidental Petroleum Ltd., Assessment Report #060105

Winfield, W.D.B. and Gleeson, F.C., 1972. Geology and geochemistry of the Bir claim group, Canadian Occidental Petroleum Ltd., Assessment Report #062034

APPENDIX I

Statement of expenditure

I, Robin Sudo
Land Manager/Ryan Gold Corp.
of #600 - 666 Burrard St., Vancouver, B.C. V6C 2X8
Phone 250-421-0939
make oath and say that:

Office Date Stamp

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work, on the following mineral claim(s): (Here list claims on which work was actually done by number and name)

See Schedule A attached

MARS Property

situated at north of Talbot Creek Claim sheet No. 115G09
in the Whitehorse Mining District, to the value of at least \$28,750 dollars,
since the 22nd day of June to the 6th day of July 20 11,
to represent the following mineral claims under the authority of Grouping Certificate No. _____.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

See Schedule B attached

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).

See Schedule C - Soil Sampling & Schedule C - Mapping & Rock Sampling

TOTAL EXPENDITURES = \$29,252.10

Report to Follow

Sworn before me at Cranbrook BC this 7 day of December 20 11.

Donald Paolini
Barrister & Solicitor

Notary Public

Owner or Authorized Agent

2nd Floor, 610-10th Ave S
Cranbrook, BC V1C 2W8

Schedule A

Mapsheet: 115G09

CLAIMS WORK WAS PERFORMED ON:

GRANT #	CLAIM NAME	CLAIM#	OWNER_NAME	DISTRICT
YC60078	MARS	1	Shawn Ryan - 100%	Whitehorse
YC60079	MARS	2	Shawn Ryan - 100%	Whitehorse
YC60080	MARS	3	Shawn Ryan - 100%	Whitehorse
YC60082	MARS	5	Shawn Ryan - 100%	Whitehorse
YC60084	MARS	7	Shawn Ryan - 100%	Whitehorse
YC60086	MARS	9	Shawn Ryan - 100%	Whitehorse
YD132721	MARS	11	Shawn Ryan - 100%	Whitehorse
YD132723	MARS	13	Shawn Ryan - 100%	Whitehorse
YD132724	MARS	14	Shawn Ryan - 100%	Whitehorse
YD132725	MARS	15	Shawn Ryan - 100%	Whitehorse
YD132726	MARS	16	Shawn Ryan - 100%	Whitehorse
YD132727	MARS	17	Shawn Ryan - 100%	Whitehorse
YD132730	MARS	20	Shawn Ryan - 100%	Whitehorse
YD132731	MARS	21	Shawn Ryan - 100%	Whitehorse
YD132732	MARS	22	Shawn Ryan - 100%	Whitehorse
YD132733	MARS	23	Shawn Ryan - 100%	Whitehorse
YD132734	MARS	24	Shawn Ryan - 100%	Whitehorse
YD132735	MARS	25	Shawn Ryan - 100%	Whitehorse
YD132736	MARS	26	Shawn Ryan - 100%	Whitehorse
YD132741	MARS	31	Shawn Ryan - 100%	Whitehorse
YD132742	MARS	32	Shawn Ryan - 100%	Whitehorse
YD132743	MARS	33	Shawn Ryan - 100%	Whitehorse
YD132744	MARS	34	Shawn Ryan - 100%	Whitehorse
YD132746	MARS	36	Shawn Ryan - 100%	Whitehorse
YD132747	MARS	37	Shawn Ryan - 100%	Whitehorse
YD132748	MARS	38	Shawn Ryan - 100%	Whitehorse
YD132751	MARS	41	Shawn Ryan - 100%	Whitehorse
YD132753	MARS	43	Shawn Ryan - 100%	Whitehorse
YD132755	MARS	45	Shawn Ryan - 100%	Whitehorse
YD132756	MARS	46	Shawn Ryan - 100%	Whitehorse
YD132757	MARS	47	Shawn Ryan - 100%	Whitehorse
YD132758	MARS	48	Shawn Ryan - 100%	Whitehorse
YD132759	MARS	49	Shawn Ryan - 100%	Whitehorse
YD132761	MARS	51	Shawn Ryan - 100%	Whitehorse
YD132762	MARS	52	Shawn Ryan - 100%	Whitehorse
YD132763	MARS	53	Shawn Ryan - 100%	Whitehorse
YD132764	MARS	54	Shawn Ryan - 100%	Whitehorse
YD132771	MARS	61	Shawn Ryan - 100%	Whitehorse
YD132773	MARS	63	Shawn Ryan - 100%	Whitehorse
YD132774	MARS	64	Shawn Ryan - 100%	Whitehorse
YD132775	MARS	65	Shawn Ryan - 100%	Whitehorse
YD132777	MARS	67	Shawn Ryan - 100%	Whitehorse

Ryan Gold Corp.

Schedule B
MARS Property

Claims to be renewed:

CLAIM NAME & #	GRANT #	EXPIRY DATE	# Of Claims	# Of Years	\$100/yr	\$5/Yr Fee	NEW EXPIRY DATE
Mars 1 - 10	YC60078 - YC60087	April 2, 2013	10	2.75	\$ 2,750.00	\$ 137.50	December 6, 2016
Mars 11 - 22	YD132721 - YD132732	December 6, 2011	12	5	\$ 6,000.00	\$ 300.00	December 6, 2016
Mars 23 - 28	YD132733 - YD132738	December 9, 2011	6	4	\$ 2,400.00	\$ 120.00	December 6, 2015
Mars 29 - 40	YD132739 - YD132750	December 6, 2011	12	4	\$ 4,800.00	\$ 240.00	December 6, 2015
Mars 41 - 50	YD132751 - YD132760	December 9, 2011	10	4	\$ 4,000.00	\$ 200.00	December 6, 2015
Mars 51 - 72	YD132761 - YD132782	December 9, 2011	22	4	\$ 8,800.00	\$ 440.00	December 6, 2015
					\$ -	\$ -	
72					\$ 28,750.00	\$ 1,437.50	
					Work Required	Fees	

CERTIFICATE OF WORK

Schedule C

MARS Claims

SOIL SAMPLING PROGRAM:

A total of 11 man days were required to collect a total of 370 soil samples from July 2 to 3, 2011

Description		Rate	Unit	Total
WAGES:				
Soil Samplers	per day	\$ 350.00	9	\$ 3,150.00
Project Forman	per day	\$ 400.00	2	\$ 800.00
Travel Rate: Soil Sampler	per day	\$ 250.00	0	\$ -
Packing & Prep	per day	\$ 250.00	0	\$ -
Weather Rate: Soil Sampler	per day	\$ 250.00	0	\$ -
Stat Holiday				\$ -
DATA MANAGEMENT & PROCESSING SERVICES:				
GIS/Job Layout/Mapping/Results Plotting	per hour	\$ 75.00	2	\$ 150.00
Data Processing: In the field	per hour	\$ 60.00	2	\$ 120.00
Database Management/Chain of Custody, Barcoded Samples	\$0.50/sample	\$ 0.50	370	\$ 185.00
Georeferenced In situ Sample & Sample Site Photos	per sample	\$ 0.50	526	\$ 263.00
CONSUMABLE SAMPLING SUPPLIES:				
Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	\$ 1.00	370	\$ 370.00
EQUIPMENT RENTAL (per unit, per day):				
Truck Rental: Fuel extra	per day	\$ 150.00	0	\$ -
Fuel	per km	\$ 0.25	0	\$ -
Flat Deck Trailer: 10,000 lbs., 20 ft.	per day	\$ 100.00	0	\$ -
Chainsaw drop kit: 1 per helicopter load, or as required	per day	\$ 35.00	2	\$ 70.00
Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	\$ 35.00	2	\$ 70.00
Radio: ICOM Handheld: 1 per person	per day	\$ 5.00	11	\$ 55.00
Computer/Software: 1 per camp nightly data download	per day	\$ 50.00	2	\$ 100.00
Handheld GPS/Barcode Scanner/Camera/Data Recorder	per day	\$ 15.00	11	\$ 165.00
Camp Satellite Internet	per day	\$ 20.00	0	\$ -
ACCOMODATION and FOOD:				
Remote Camp Fee: full fly camp/kitchen/generator	per man day	\$ 35.00	11	\$ 385.00
Dawson Accomodation Fee: Samplers based in Dawson	per man day	\$ 35.00	0	\$ -
Food	per man day	\$ 50.00	11	\$ 550.00
MOBILIZATION/OPERATIONAL CHARGES				
				\$ 1,825.72
HELICOPTER SUPPORT:				
Trans North Helicopter/3.3 hours + FUEL	per hour	\$ 1,575.00		\$6,200.51
ANALYTICAL ANALYSIS COSTS:				
Acme Laboratories, Vancouver, B.C./SOILS	per sample	\$ 22.00	370	\$ 8,140.00
REPORT WRITING:				
				\$ 500.00
SOIL SAMPLING PROGRAM =				\$ 23,099.23

divided by 370=

\$ 62.43
PER SAMPLE

320 soils samples were taken within the claim boundaries of the MARS Property**320 soil samples X \$62.43/sample =****\$ 19,977.60**

PROGRAM TOTAL
SOIL SAMPLING

CERTIFICATE OF WORK

Schedule C - MAPPING & ROCK SAMPLING
MARS Claims

MAPPING & ROCK SAMPLING PROGRAM:

A total of 5.5 man days were required to do geological mapping & collect a total of 23 rock samples from June 22 to July 6, 2011

			Rate	Unit	Total
CONTRACTOR:					
	JP Exploration Services, Whitehorse, YK	per day	\$ 850.00	1.5	\$ 1,275.00
	- Mapping/Rock Sampling/June 24&25/11				
WAGES:					
	Senior Geologist	per day	\$ 550.00	2	\$ 1,100.00
	Jr. Geologist	per day	\$ 275.00	1	\$ 275.00
	Geo Tech	per day	\$ 230.00	1	\$ 230.00
CONSUMABLE SAMPLING SUPPLIES:					
	Flagging, Metal ID Tags, Sample Bags, Ore Bags, Rice Bags, etc.	per sample	\$ 1.00	23	\$ 23.00
EQUIPMENT RENTAL (per unit, per day):					
	Iridium Satellite Phone: 1 per crew, charge 10 min/day	per day&min	\$ 35.00	2	\$ 70.00
	Radio: ICOM Handheld: 1 per person	per day	\$ 5.00	4	\$ 20.00
	Computer/Software: 1 per camp nightly data download	per day	\$ 50.00	2	\$ 100.00
	Handheld GPS/Camera/Data Recorder	per day	\$ 15.00	4	\$ 60.00
ACCOMODATION and FOOD:					
	Remote Camp Fee: full fly camp/kitchen/generator	per man day	\$ 35.00	4	\$ 140.00
	Food	per man day	\$ 50.00	4	\$ 200.00
HELICOPTER SUPPORT:					
	Trans North /3.7 hours + FUEL	per hour	\$ 1,575.00		\$6,823.68
ANALYTICAL ANALYSIS COSTS:					
	Acme Laboratories, Vancouver, B.C./ROCK	per sample	\$ 38.00	23	\$ 874.00
REPORT WRITING:					\$ 750.00
GEOLOGICAL MAPPING & ROCK SAMPLING PROGRAM =					\$ 10,665.68
DIVIDED BY 23 SAMPLES =					\$463.73 COST PER SAMPLE

20 ROCK SAMPLES TAKEN WITHIN THE BOUNDARIES OF THE VENUS PROPERTY:

20 SAMPLES @ \$463.73 PER SAMPLE = \$9,274.50

PROGRAM TOTAL
MAPPING & ROCK SAMPLING

6840000

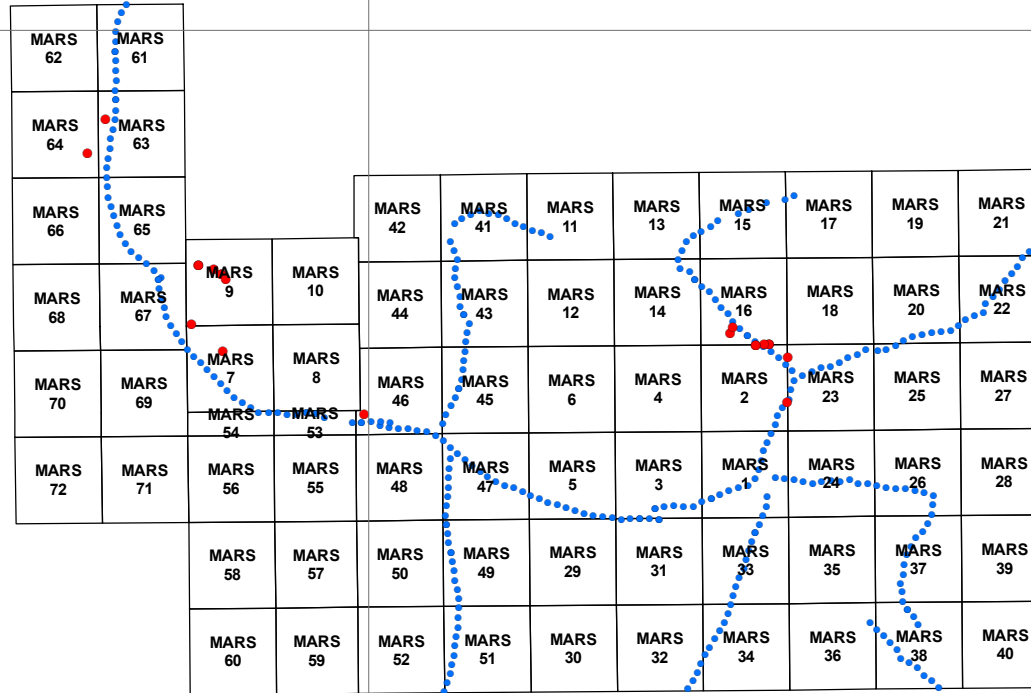
6835000

645000

650000

6840000

6835000



Legend

- Rock Samples
- Soil Samples



RYAN GOLD CORP.

Mars Claim Work

Nov. 30, 2011

WGS84_UTM_Zn7

By: C.W.

1:40,000

0 500 1,000 2,000 Meters

645000

650000

Claim Status Report

22 November 2011

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
MARS 1 - 10	YC60078 - YC60087	2013/04/02	Ryan Gold Corp. 45127 Yukon Inc	70.00 30.00	115G09
MARS 11 - 22	YD132721 - YD132732	2011/12/06	Ryan Gold Corp. 45127 Yukon Inc	70.00 30.00	115G09
MARS 23 - 28	YD132733 - YD132738	2011/12/09	Ryan Gold Corp. 45127 Yukon Inc	70.00 30.00	115G09
MARS 29 - 40	YD132739 - YD132750	2011/12/06	Ryan Gold Corp. 45127 Yukon Inc	70.00 30.00	115G09
MARS 41 - 72	YD132751 - YD132782	2011/12/09	Ryan Gold Corp. 45127 Yukon Inc	70.00 30.00	115G09

Criteria(s) used for search:

CLAIM DISTRICT: 1000004 CLAIM NAME: MARS CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 72

Left column indicator legend:

- R - Indicates the claim is on one or more pending renewal(s).
- P - Indicates the claim is pending.

Right column indicator legend:

- L - Indicates the Quartz Lease.
- F - Indicates Full Quartz fraction (25+ acres)
- P - Indicates Partial Quartz fraction (<25 acres)

- D - Indicates Placer Discovery
- C - Indicates Placer Codiscovery
- B - Indicates Placer Fraction

APPENDIX II

Statement of qualification

STATEMENT OF QUALIFICATIONS

I, Hua Jin, do hereby declare that:

1. I am currently employed as Senior Project Geologist for Ryan Gold Corp. of Suite 600 – 666 Burrard Street, Vancouver, British Columbia V6C 2X8.
2. I am a graduate of the Peking University with a Bachelor of Science Degree (2003) in Earth Science and Master of Science Degree (2005) in Earth Science from the Western University (formerly known as the University of Western Ontario).
3. From 2006 to present, I have practised my profession as a geologist continuously in Nunavut and Yukon Territory in Canada, Niamey in Niger and Nevada in United States for over six years.

APPENDIX III

Soil sample description and location data

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_D eeph	Groundcover	Colour	Hori zon	Terrain	Texture	Samp_Comment	
1003951	646906	6836910	GPS_NAD83_Z07N	20	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003952	646919	6836959	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003953	646933	6837007	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003954	646947	6837055	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003955	646961	6837103	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003956	647000	6837196	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003957	646988	6837147	GPS_NAD83_Z07N	50	Rock Cover	Chocolate Brown	B	Pronounced Slope	Clay	Note1: Coarse	Note2:
1003958	647030	6837293	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003959	646884	6836864	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Clay	Note1: Clay	Note2:
1003960	646783	6836692	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003961	647071	6837384	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1003962	646760	6836647	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003963	646808	6836735	GPS_NAD83_Z07N	50	Bare Soil	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003964	646743	6836601	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Clay	Note1: Clay	Note2:
1003965	646720	6836555	GPS_NAD83_Z07N	40	Thin Moss Cover	Reddish Yellow	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003966	646691	6836514	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003967	646657	6836478	GPS_NAD83_Z07N	90	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Fine	Note2:
1003968	646540	6836314	GPS_NAD83_Z07N	30	Bare Soil	Chocolate Brown	B	Flat	Sand	Note1: Coarse	Note2:
1003969	646566	6836357	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Fine	Note2:
1003970	646623	6836441	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Coarse	Note2:
1003971	646595	6836399	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Small Sample
1003973	647088	6837431	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Coarse	Note2:
1003974	647109	6837478	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Top Layer	Note2: Coarse
1003975	647111	6837528	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Fine	Note2:
1003976	648499	6838826	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1003977	648550	6838829	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1003978	648597	6838848	GPS_NAD83_Z07N	10	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1003979	648462	6838793	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1003980	648436	6838750	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1003982	646515	6836269	GPS_NAD83_Z07N	20	Thin Moss Cover	Chocolate Brown	B	Flat	Sand	Note1: Coarse	Note2:
1003983	647013	6837245	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1003984	647047	6837341	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Fine	Note2:
1003985	646493	6836224	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Flat	Sand	Note1: Coarse	Note2:
1003986	646471	6836179	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Silt	Note1: Fine	Note2:
1003987	646861	6836820	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Clay	Note1: Coarse	Note2:
1003988	646466	6836129	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1003989	646460	6836078	GPS_NAD83_Z07N	20	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1003990	646834	6836778	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1004377	647299	6838172	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Top Layer	Note2: Talus
1004378	646518	6837466	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Talus	Note2:
1004382	647588	6838283	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Rusty Rock Chip	Note2:

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_Dept	Groundcover	Colour	Horizon	Terrain	Texture	Samp_Comment	
1004383	647634	6838308	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rocky Terrain	Note2:
1006752	647244	6838196	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Rocky Sample	Note2: Rocky Terrain
1006753	647208	6838231	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006754	647171	6838265	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006755	647131	6838297	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Steep	Sand	Note1: Talus	Note2: Top Layer
1006756	647090	6838326	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Steep	Sand	Note1: Top Layer	Note2: Talus
1006757	647047	6838353	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Top Layer	Note2: Talus
1006758	647005	6838381	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1006760	646965	6838417	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Steep	Sand	Note1: Talus	Note2: Top Layer
1006761	646928	6838453	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006762	646905	6838500	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006763	646867	6838532	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006764	646836	6838573	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006765	646808	6838615	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Top Layer	Note2: Talus
1006766	646767	6838645	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1006767	646730	6838680	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2:
1006769	646700	6838720	GPS_NAD83_Z07N	40	Grass Cover	Reddish Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2:
1006770	646652	6838737	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Talus
1006771	646642	6838786	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Steep	Sand	Note1: Coarse	Note2: Talus
1006772	646660	6838833	GPS_NAD83_Z07N	10	Rock Cover	Dark Brown	C	Steep	Sand	Note1: Talus	Note2: Top Layer
1006773	646684	6838878	GPS_NAD83_Z07N	5	Rock Cover	Chocolate Brown	B	Steep	Sand	Note1: Top Layer	Note2: Talus
1006774	646723	6838912	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	A	Steep	Sand	Note1: Top Layer	Note2: Talus
1006775	646763	6838934	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	A	Steep	Sand	Note1: Top Layer	Note2: Talus
1006776	646812	6838959	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2:
1006777	646849	6838994	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Top Layer	Note2: Talus
1006778	646959	6839031	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Steep	Sand	Note1: Fine	Note2: Talus
1006779	647014	6839048	GPS_NAD83_Z07N	30	Thin Moss Cover	Light Brown	B	Steep	Sand	Note1: Talus	Note2: Top Layer
1006780	647109	6839084	GPS_NAD83_Z07N	10	Rock Cover	Dark Brown	A	Steep	Sand	Note1: Top Layer	Note2: Talus
1006781	647207	6839103	GPS_NAD83_Z07N	30	Thin Moss Cover	Light Brown	B	Steep	Sand	Note1: Top Layer	Note2: Talus
1006782	647253	6839125	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Talus
1045605	645962	6838905	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1080472	646566	6837479	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Steep	Clay	Note1: Rusty Rock Chip	Note2: Quartz Chips
1080473	646617	6837482	GPS_NAD83_Z07N	50	Sphagnum Moss < 30	Dark Brown	B	Steep	Silt	Note1: Sandy	Note2:
1080474	646667	6837474	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Grey Black	B	Steep	Silt	Note1: Top Layer	Note2: Rusty Rock Chip
1080475	646721	6837474	GPS_NAD83_Z07N	20	Bare Soil	Dark Brown	B	Steep	Silt	Note1: Quartz Chips	Note2: Top Layer
1080476	646767	6837503	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Top Layer	Note2: Talus
1080477	646817	6837519	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Silt	Note1: Rusty Rock Chip	Note2:
1080479	646861	6837543	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Rusty Rock Chip	Note2:
1080480	646909	6837562	GPS_NAD83_Z07N	30	Bare Soil	Reddish Brown	B	Pronounced Slope	Silt	Note1: Dull Red Rust	Note2: Top Layer
1080481	646960	6837578	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Outcrop Nearby	Note2:
1080482	647009	6837591	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Silt	Note1: Rusty Rock Chip	Note2:

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_Dept	Groundcover	Colour	Horizon	Terrain	Texture	Samp_Comment	
1080483	647048	6837625	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Flat	Clay	Note1: Dull Red Rust	Note2: Rusty Rock Chip
1080484	647066	6837674	GPS_NAD83_Z07N	60	Grass Cover	Chocolate Brown	B	Flat	Clay	Note1: Rusty Rock Chip	Note2:
1080485	647081	6837722	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rusty Rock Chip	Note2:
1080486	647091	6837773	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Organic 10%	Note2: Top Layer
1080487	647113	6837818	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Flat	Clay	Note1: Rocky Terrain	Note2:
1080488	647131	6837865	GPS_NAD83_Z07N	40	Thin Moss Cover	Grey	B	Pronounced Slope	Silt	Note1: Talus	Note2:
1080489	647154	6837911	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Rocky Terrain	Note2:
1080490	647166	6837961	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Rocky Terrain	Note2:
1080491	647194	6838003	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Flat	Silt	Note1: Rusty Rock Chip	Note2:
1080492	647225	6838045	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rocky Sample	Note2:
1080493	647238	6838095	GPS_NAD83_Z07N	30	Thin Moss Cover	Reddish Brown	B	Subtle Slope	Silt	Note1: Rusty Rock Chip	Note2:
1080494	647255	6838145	GPS_NAD83_Z07N	30	Sphagnum Moss < 30	Dark Brown	B	Flat	Silt	Note1: Top Layer	Note2: Talus
1080496	647347	6838191	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Rusty Rock Chip	Note2:
1080497	647396	6838212	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Rusty Rock Chip	Note2: Rocky Sample
1080498	647446	6838220	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Clay	Note1: Rocky Sample	Note2:
1080499	647494	6838241	GPS_NAD83_Z07N	30	Bare Soil	Chocolate Brown	B	Steep	Clay	Note1: Rusty Rock Chip	Note2: Top Layer
1080500	647538	6838268	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Steep	Clay	Note1: Rocky Sample	Note2:
1081370	643902	6838691	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081371	643866	6838729	GPS_NAD83_Z07N	50	Grass Cover	Grey	B	Flat	Clay	Note1: Fine	Note2:
1081372	643826	6838763	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Flat	Clay	Note1: Dull Red Rust	Note2:
1081373	643786	6838795	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Quartz Chips	Note2:
1081374	643745	6838828	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2: Quartz Chips
1081375	643713	6838870	GPS_NAD83_Z07N	50	Leaf Cover	Chocolate Brown	B	Subtle Slope	Silt	Note1: Rocky	Note2:
1081376	643687	6838915	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1081377	643671	6838965	GPS_NAD83_Z07N	30	Leaf Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081378	643654	6839015	GPS_NAD83_Z07N	70	Leaf Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Volcanic Ash	Note2:
1081379	643638	6839066	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081380	643622	6839116	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1081381	643620	6839168	GPS_NAD83_Z07N	40	Leaf Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081382	643616	6839219	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Partially Frozen	Note2: Rocky
1081384	643617	6839270	GPS_NAD83_Z07N	60	Leaf Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky
1081385	643623	6839321	GPS_NAD83_Z07N	40	Leaf Cover	Dark Grey Black	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1081386	643631	6839372	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Organic 10%	Note2: Rocky
1081387	643637	6839424	GPS_NAD83_Z07N	50	Leaf Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1081388	643650	6839474	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1081389	643658	6839525	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081390	643663	6839577	GPS_NAD83_Z07N	40	Leaf Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky
1081391	643663	6839629	GPS_NAD83_Z07N	60	Leaf Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2:
1081392	643663	6839629	GPS_NAD83_Z07N	60	Leaf Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2:
1081393	643660	6839681	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Rocky	Note2:
1081394	643668	6839733	GPS_NAD83_Z07N	60	Leaf Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Fine	Note2:

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_Dept	Groundcover	Colour	Horizon	Terrain	Texture	Samp_Comment	
1081395	643663	6839784	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Flat	Silt	Note1: Fine	Note2: Rocky
1081396	643662	6839835	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rocky	Note2:
1081397	643660	6839887	GPS_NAD83_Z07N	70	Leaf Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Coarse	Note2:
1081399	643663	6839938	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rocky	Note2:
1081400	643663	6839990	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Rocky	Note2:
1081551	645435	6837729	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Top Layer	Note2: Talus
1081552	645429	6837680	GPS_NAD83_Z07N	20	Rock Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Top Layer	Note2: Talus
1081553	645425	6837630	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Bright Orange Rust	Note2: Quartz Chips
1081554	645423	6837581	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Organic 10%	Note2: Bright Orange Rust
1081555	645422	6837531	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Bright Orange Rust	Note2: Rusty Rock Chip
1081556	645414	6837482	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Talus	Note2:
1081557	645409	6837433	GPS_NAD83_Z07N	50	Grass Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Rusty Rock Chip	Note2: Talus
1081558	645413	6837383	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Organic 10%	Note2: Talus
1081560	645422	6837334	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	B	Pronounced Slope	Clay	Note1: Rusty Rock Chip	Note2: Bright Orange Rust
1081561	645426	6837284	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Organic 10%	Note2: Rusty Rock Chip
1081562	645438	6837236	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rusty Rock Chip	Note2: Coarse
1081564	645444	6837186	GPS_NAD83_Z07N	50	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Quartz Chips	Note2: Rusty Rock Chip
1081565	645454	6837137	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Organic 10%	Note2:
1081566	645457	6837086	GPS_NAD83_Z07N	70	Grass Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Organic 10%	Note2: Rusty Rock Chip
1081567	645472	6837038	GPS_NAD83_Z07N	50	Grass Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Organic 10%	Note2:
1081568	645479	6836990	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Quartz Chips
1081569	645479	6836939	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Silt	Note1: Rusty Rock Chip	Note2: Quartz Chips
1081570	645476	6836889	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Quartz Chips	Note2:
1081571	645474	6836839	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Bright Orange Rust	Note2: Quartz Chips
1081572	645465	6836790	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Quartz Chips	Note2: Rusty Rock Chip
1081573	645457	6836740	GPS_NAD83_Z07N	80	Grass Cover	Reddish Yellow	C	Flat	Sand	Note1: Wet Soil	Note2:
1081574	645454	6836690	GPS_NAD83_Z07N	30	Grass Cover	Dark Brown	B	Flat	Silt	Note1: Organic 25%	Note2: Volcanic Ash
1081575	645441	6836642	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Quartz Chips	Note2: Rusty Rock Chip
1081576	645433	6836592	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Organic 25%	Note2: Volcanic Ash
1081577	645419	6836544	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Quartz Chips
1081578	645402	6836498	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Quartz Chips
1081579	645388	6836450	GPS_NAD83_Z07N	30	Thin Moss Cover	Grey	C	Subtle Slope	Sand	Note1: Coarse	Note2: Quartz Chips
1081580	645380	6836401	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Quartz Chips	Note2: Bright Orange Rust
1081581	645369	6836352	GPS_NAD83_Z07N	40	Thin Moss Cover	Reddish Brown	C	Subtle Slope	Sand	Note1: Rusty Rock Chip	Note2: Quartz Chips
1081582	645361	6836303	GPS_NAD83_Z07N	50	Thin Moss Cover	Reddish Yellow	C	Subtle Slope	Sand	Note1: Bright Orange Rust	Note2: Quartz Chips
1081584	645350	6836254	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Quartz Chips	Note2: Rusty Rock Chip
1081585	645340	6836205	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Flat	Sand	Note1: Quartz Chips	Note2: Rusty Rock Chip
1081586	645323	6836157	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Flat	Sand	Note1: Organic 10%	Note2: Quartz Chips
1081701	645061	6837904	GPS_NAD83_Z07N	30	Grass Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1081702	645110	6837894	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081703	645160	6837889	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_D epth	Groundcover	Colour	Hori zon	Terrain	Texture	Samp_Comment	
1081704	645210	6837890	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Sandy
1081705	645259	6837881	GPS_NAD83_Z07N	30	Grass Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081706	645309	6837873	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky Sample	Note2: Coarse
1081707	645355	6837853	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081708	645396	6837824	GPS_NAD83_Z07N	30	Grass Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081709	645435	6837790	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081710	645471	6837755	GPS_NAD83_Z07N	50	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081711	645511	6837725	GPS_NAD83_Z07N	40	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081712	645551	6837693	GPS_NAD83_Z07N	40	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081713	645593	6837666	GPS_NAD83_Z07N	40	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081714	645632	6837637	GPS_NAD83_Z07N	40	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081715	645676	6837611	GPS_NAD83_Z07N	40	Rock Cover	Reddish Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081716	645722	6837589	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Organic 10%
1081717	645770	6837577	GPS_NAD83_Z07N	50	Grass Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081718	645816	6837558	GPS_NAD83_Z07N	30	Grass Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081719	645859	6837534	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky Sample	Note2: Coarse
1081720	645906	6837518	GPS_NAD83_Z07N	30	Rock Cover	Reddish Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081721	645951	6837500	GPS_NAD83_Z07N	30	Rock Cover	Reddish Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081722	646000	6837485	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Rocky Sample	Note2: Organic 25%
1081723	646048	6837472	GPS_NAD83_Z07N	50	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081724	646096	6837458	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081725	646143	6837443	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081726	646191	6837431	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Talus
1081727	646240	6837424	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Small Sample
1081728	646290	6837420	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Talus
1081729	646339	6837406	GPS_NAD83_Z07N	50	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Top Layer
1081730	646388	6837414	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Talus
1081731	646437	6837413	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Sandy
1081733	646488	6837413	GPS_NAD83_Z07N	30	Rock Cover	Reddish Yellow	B	Subtle Slope	Sand	Note1: Sandy	Note2: Coarse
1081734	646538	6837412	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1081851	648701	6835641	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2:
1081852	648672	6835685	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1081853	648639	6835721	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081854	648602	6835757	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081855	648567	6835793	GPS_NAD83_Z07N	60	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081857	648532	6835832	GPS_NAD83_Z07N	60	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081858	648502	6835872	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081859	648465	6835907	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081860	648427	6835942	GPS_NAD83_Z07N	70	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081861	648389	6835977	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Fine	Note2: Rocky Terrain
1081862	648352	6836012	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_Dept	Groundcover	Colour	Horizon	Terrain	Texture	Samp_Comment	
1081863	648314	6836046	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Fine	Note2: Rocky Terrain
1081864	648281	6836086	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081865	648252	6836127	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Rocky Terrain	Note2:
1081866	648228	6836171	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081867	648200	6836213	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky Terrain	Note2:
1081868	648166	6836254	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Terrain
1081869	648136	6836295	GPS_NAD83_Z07N	60	Thin Moss Cover	Reddish Brown	C	Subtle Slope	Sand	Note1: Fine	Note2:
1081870	648107	6836337	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky Sample	Note2: Rocky Terrain
1081871	648087	6836383	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky Terrain	Note2:
1081872	648064	6836428	GPS_NAD83_Z07N	60	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky Terrain	Note2:
1081873	648038	6836472	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky Terrain	Note2:
1081874	648018	6836519	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Rocky Terrain	Note2:
1081875	647981	6836553	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	C	Steep	Sand	Note1: Talus	Note2:
1081876	647941	6836586	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Rocky Sample	Note2: Talus
1081877	647908	6836626	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Coarse	Note2: Talus
1081878	647863	6836651	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Steep	Sand	Note1: Talus	Note2: Top Layer
1081879	647818	6836674	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1081880	647799	6836721	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Talus	Note2: Top Layer
1081881	647762	6836757	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2:
1081882	647729	6836796	GPS_NAD83_Z07N	60	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Fine	Note2:
1081883	647691	6836828	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Fine	Note2:
1081884	647658	6836867	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Fine	Note2: Rocky Terrain
1083037	647154	6837632	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Flat	Silt	Note1: Mud	Note2: Rocky Sample
1083038	647203	6837626	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	B	Subtle Slope	Silt	Note1: Mud	Note2: Rocky Sample
1083039	647252	6837616	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Silt	Note1: Mud	Note2: Rocky Sample
1083040	647302	6837612	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Mud	Note2: Rocky Sample
1083041	647352	6837601	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Steep	Sand	Note1: Talus	Note2: Top Layer
1083042	647400	6837612	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Steep	Sand	Note1: Top Layer	Note2: Talus
1083043	647450	6837614	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Rocky Sample	Note2: Mud
1083044	647498	6837608	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Mud	Note2: Rocky Sample
1083045	647547	6837620	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083046	647592	6837599	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Mud	Note2:
1083047	647642	6837597	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083048	647692	6837587	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Mud	Note2: Rocky
1083049	647742	6837582	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083050	647793	6837570	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083051	647844	6837570	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Mud	Note2: Rocky Sample
1083052	647893	6837562	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083053	647942	6837550	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Mud	Note2:
1083054	647991	6837536	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Steep	Silt	Note1: Mud	Note2:
1083055	647989	6837484	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Steep	Sand	Note1: Rocky Sample	Note2: Rocky Terrain

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_D eeph	Groundcover	Colour	Hori zon	Terrain	Texture	Samp_Comment	
1083056	647981	6837435	GPS_NAD83_Z07N	5	Rock Cover	Reddish Yellow	C	Steep	Sand	Note1: Top Layer	Note2: Talus
1083057	647962	6837389	GPS_NAD83_Z07N	5	Rock Cover	Reddish Yellow	C	Steep	Sand	Note1: Top Layer	Note2: Talus
1083058	647936	6837346	GPS_NAD83_Z07N	40	Thin Moss Cover	Reddish Yellow	C	Steep	Sand	Note1: Rocky Sample	Note2:
1083059	647898	6837312	GPS_NAD83_Z07N	50	Grass Cover	Dark Brown	C	Steep	Sand	Note1: Mud	Note2: Rocky Sample
1083060	647872	6837267	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Rocky Sample	Note2: Rocky Terrain
1083061	647851	6837220	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Rocky Sample	Note2: Rocky Terrain
1083062	647837	6837171	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Mud	Note2: Rocky Sample
1083063	647833	6837120	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Silt	Note1: Mud	Note2: Rocky Terrain
1083064	647816	6837072	GPS_NAD83_Z07N	30	Bare Soil	Dark Brown	C	Pronounced Slope	Sand	Note1: Rocky Terrain	Note2: Mud
1083065	647826	6837024	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Mud	Note2: Rocky Terrain
1083066	647829	6836974	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Fine	Note2: Talus
1083067	647854	6836931	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	C	Pronounced Slope	Sand	Note1: Mud	Note2: Rocky Sample
1083069	647888	6836895	GPS_NAD83_Z07N	30	Thin Moss Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Fine	Note2:
1083070	647912	6836851	GPS_NAD83_Z07N	5	Rock Cover	Dark Brown	B	Steep	Silt	Note1: Top Layer	Note2: Talus
1083161	645116	6837923	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Clay	Note2: Rocky
1083162	645067	6837926	GPS_NAD83_Z07N	30	Rock Cover	Grey	B	Flat	Clay	Note1: Coarse	Note2: Partially Frozen
1083163	645015	6837926	GPS_NAD83_Z07N	40	Rock Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Coarse	Note2: Rocky
1083164	644965	6837924	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083166	644915	6837923	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083167	644767	6837947	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083168	644723	6837971	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	C	Subtle Slope	Clay	Note1: Coarse	Note2: Rocky
1083169	644673	6837974	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083171	644623	6837968	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2: Sandy
1083172	644572	6837963	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky Terrain	Note2: Rocky
1083173	644521	6837973	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Talus	Note2: Rocky
1083174	644471	6837973	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Flat	Clay	Note1: Rocky	Note2:
1083175	644420	6837977	GPS_NAD83_Z07N	50	Grass Cover	Grey	B	Flat	Clay	Note1: Rocky	Note2: Partially Frozen
1083176	644377	6838003	GPS_NAD83_Z07N	60	Grass Cover	Chocolate Brown	B	Flat	Clay	Note1: Coarse	Note2: Rocky
1083177	644334	6838029	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Flat	Clay	Note1: Rocky	Note2:
1083178	644290	6838056	GPS_NAD83_Z07N	50	Grass Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Coarse	Note2: Rocky
1083179	644253	6838092	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	B	Flat	Clay	Note1: Rocky	Note2:
1083180	644219	6838130	GPS_NAD83_Z07N	40	Grass Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Clay	Note2: Rocky
1083181	644186	6838165	GPS_NAD83_Z07N	30	Rock Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083182	644148	6838200	GPS_NAD83_Z07N	20	Rock Cover	Dark Brown	A	Pronounced Slope	Clay	Note1: Rocky	Note2: Talus
1083183	644114	6838238	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rusty Rock Chip
1083184	644076	6838273	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Partially Frozen	Note2: Rusty Rock Chip
1083185	644041	6838310	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2: Sandy
1083186	644013	6838352	GPS_NAD83_Z07N	40	Grass Cover	Grey	B	Subtle Slope	Clay	Note1: Partially Frozen	Note2: Coarse
1083187	643986	6838395	GPS_NAD83_Z07N	40	Grass Cover	Grey	B	Flat	Clay	Note1: Partially Frozen	Note2: Rocky
1083188	643954	6838434	GPS_NAD83_Z07N	30	Grass Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2:
1083189	643929	6838481	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Coarse	Note2: Rocky

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_D epth	Groundcover	Colour	Hori zon	Terrain	Texture	Samp_Comment	
1083190	643919	6838530	GPS_NAD83_Z07N	30	Grass Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Clay	Note2: Rocky
1083191	643907	6838579	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Rocky	Note2: Sandy
1083192	643893	6838630	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Partially Frozen	Note2: Mud
1083193	643889	6838677	GPS_NAD83_Z07N	40	Grass Cover	Chocolate Brown	B	Subtle Slope	Clay	Note1: Partially Frozen	Note2: Rocky Terrain
1083551	647696	6838303	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083552	647742	6838310	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083553	647791	6838330	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083554	647834	6838356	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083555	647881	6838378	GPS_NAD83_Z07N	20	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083556	647932	6838388	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083557	647982	6838398	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083558	648032	6838404	GPS_NAD83_Z07N	80	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083559	648082	6838406	GPS_NAD83_Z07N	60	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083560	648123	6838436	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083561	648162	6838468	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083562	648208	6838488	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083563	648256	6838505	GPS_NAD83_Z07N	30	Grass Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1083564	648268	6838554	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1083565	648307	6838590	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1083566	648342	6838628	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1083567	648370	6838671	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1083568	648405	6838709	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1085493	648641	6838873	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1085494	648691	6838884	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Rocky	Note2:
1085495	648740	6838891	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1085496	648790	6838903	GPS_NAD83_Z07N	10	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Rocky	Note2:
1085497	648889	6838914	GPS_NAD83_Z07N	10	Rock Cover	Chocolate Brown	C	Steep	Sand	Note1: Rocky	Note2:
1086167	645395	6837920	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086168	645411	6837968	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086169	645439	6838011	GPS_NAD83_Z07N	30	Thin Moss Cover	Grey	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086170	645460	6838056	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086171	645480	6838102	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086173	645497	6838149	GPS_NAD83_Z07N	50	Thin Moss Cover	Chocolate Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086174	645502	6838199	GPS_NAD83_Z07N	50	Thin Moss Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Fine	Note2: Rocky Sample
1086175	645507	6838249	GPS_NAD83_Z07N	40	Thin Moss Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Fine	Note2: Rocky Sample
1086176	645512	6838299	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2:
1086177	645515	6838349	GPS_NAD83_Z07N	40	Leaf Cover	Chocolate Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086178	645522	6838398	GPS_NAD83_Z07N	30	Leaf Cover	Dark Brown	C	Flat	Sand	Note1: Coarse	Note2: Rocky Sample
1086179	645535	6838447	GPS_NAD83_Z07N	30	Leaf Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086180	645506	6838490	GPS_NAD83_Z07N	50	Leaf Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086182	645487	6838537	GPS_NAD83_Z07N	20	Rock Cover	Light Brown	C	Steep	Sand	Note1: Rocky	Note2: Talus

SAMPLEID	EASTING	NORTHING	Coord_Name	Samp_Depth	Groundcover	Colour	Horizon	Terrain	Texture	Samp_Comment	
1086183	645486	6838590	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Top Layer
1086184	645472	6838640	GPS_NAD83_Z07N	10	Rock Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Top Layer
1086185	645459	6838687	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	B	Steep	Sand	Note1: Coarse	Note2: Top Layer
1086186	645462	6838736	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Rocky Sample
1086187	645473	6838784	GPS_NAD83_Z07N	40	Thin Moss Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2:
1086188	645455	6838831	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	C	Steep	Sand	Note1: Coarse	Note2: Rocky Sample
1086189	645435	6838879	GPS_NAD83_Z07N	10	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Top Layer
1086190	645457	6838973	GPS_NAD83_Z07N	20	Thin Moss Cover	Chocolate Brown	B	Flat	Sand	Note1: Fine	Note2:
1086191	645497	6839003	GPS_NAD83_Z07N	20	Thin Moss Cover	Dark Brown	B	Subtle Slope	Sand	Note1: Fine	Note2:
1086192	645544	6839025	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086193	645591	6839043	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	B	Subtle Slope	Sand	Note1: Coarse	Note2: Top Layer
1086194	645637	6839028	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	B	Pronounced Slope	Sand	Note1: Fine	Note2: Small Sample
1086195	645688	6839025	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky
1086196	645731	6838999	GPS_NAD83_Z07N	30	Thin Moss Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086197	645776	6838976	GPS_NAD83_Z07N	40	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086198	645822	6838958	GPS_NAD83_Z07N	30	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086199	645868	6838939	GPS_NAD83_Z07N	60	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086200	645916	6838924	GPS_NAD83_Z07N	20	Rock Cover	Chocolate Brown	C	Pronounced Slope	Sand	Note1: Coarse	Note2: Rocky Sample
1086751	643674	6840042	GPS_NAD83_Z07N	40	Leaf Cover	Dark Brown	C	Subtle Slope	Sand	Note1: Coarse	Note2: Rocky
1086752	643694	6840090	GPS_NAD83_Z07N	50	Leaf Cover	Dark Brown	B	Subtle Slope	Clay	Note1: Sandy	Note2:
1086753	643722	6840134	GPS_NAD83_Z07N	50	Leaf Cover	Chocolate Brown	B	Pronounced Slope	Silt	Note1: Rocky	Note2:
1086754	643742	6840183	GPS_NAD83_Z07N	30	Leaf Cover	Dark Brown	B	Pronounced Slope	Sand	Note1: Rocky Sample	Note2: Rocky

APPENDIX IV

Rock sample description and location Data

SampleNum	Easting	Northing	EastNorthDatum	R_SampleType	R_Lithology	R_LithModifier	R_LithModifier2	R_Colour	R_Oxidation	R_AltType	R_AltStyle
41301	647215.415	6838031.16	UTMZ7N_WGS84	TalusGrab	Volcanic	Felsic		Grey			
41302	647218.685	6838268.74	UTMZ7N_WGS84	TalusGrab	Volcanic	Felsic		Grey			
41303	646914.455	6838394.16	UTMZ7N_WGS84	TrenchHighGrade	Metasediment			BrownDark	PartlyOxidized	Silicification	Pervasive
40057	643608.568	6839527.68	UTMZ7N_WGS84	OutcropChip	Schist	Biotite	Quartz	GreenLight	Oxidized	IronStained	Pervasive
40613	643513.386	6839346.17	UTMZ7N_WGS84	OutcropGrab	Tuff	Quartz	Veined	Green			
40614	644976.859	6837966.92	UTMZ7N_WGS84	OutcropGrab	Rhyolite	Brecciated	Veined				
45013	644101	6838753	UTMZ7N_WGS84	TalusGrab	Quartzite	Biotite				Hornfels	Pervasive
45014	644101	6838753	UTMZ7N_WGS84	OutcropGrab	Quartzite			Orange		Silicification	Pervasive
45015	622081	6838767	UTMZ7N_WGS84	OutcropGrab	Quartzite			Red		Hornfels	Pervasive
45016	644063	6838444	UTMZ7N_WGS84	FloatGrab	VeinQuartz	Fractured		Orange			
45017	644229	6838298	UTMZ7N_WGS84	OutcropGrab	Rhyolite	Quartz	Veined		Oxidized		
45018	644181	6838731	UTMZ7N_WGS84	OutcropGrab	Rhyolite	Quartz	Veined				
45019	644223	6838708	UTMZ7N_WGS84	OutcropGrab	Quartzite	Quartz	Veined		Oxidized		
45020	644223	6838708	UTMZ7N_WGS84	OutcropGrab	Rhyolite				Oxidized	Argillic	Replacement
45021	644246	6838683	UTMZ7N_WGS84	OutcropGrab	Rhyolite	Fractured				Argillic	
45025	647123	6838336	UTMZ7N_WGS84	OutcropGrab	Hornfels				Oxidized	Hornfels	Pervasive
45026	647123	6838336	UTMZ7N_WGS84	OutcropGrab	Quartzite	Fractured			Oxidized		
45027	647095	6838336	UTMZ7N_WGS84	OutcropGrab	Breccia				Oxidized		
45028	647051	6838330	UTMZ7N_WGS84	OutcropGrab	VeinQuartz	Fractured			Oxidized		
45029	647051	6838330	UTMZ7N_WGS84	OutcropGrab	Quartzite	Fractured			Oxidized		
45030	646930	6838425	UTMZ7N_WGS84	OutcropGrab	Quartzite	Quartz	Veined		Oxidized		

[illegible]

SampleNum	R_Comments
41301	py as disseminated or stringers
41302	py as disseminated
41303	disseminated py or stringers; metapelite subcrop nearby with little to tr pyrite; maybe soil anomaly related to locally increased py composition?
40057	
40613	veinlets throughout rocks, vuggy quartz
40614	hairline fractures infilled with mineralization or along veinlets
45013	dark rusty weathering local boulders of purplish biotite, pyrrhotite hornfels micaceous quartzite with chalcopyrite stringers (few mm) and clots associated with pyroxene
45014	yellow to orange weathering silicified micaceous quartzite with dusty greenish coating in places, vuggy texture
45015	dark rusty to black weathering hornfelsed micaceous quartzite with pyrite clots to 2 cm, trace chalcopyrite as stringers and clots
45016	local float of whitish quartz vein with yellow-orange-rusty limonite coated druses and fracture fillings
45017	intrusion with quartz stringer stockwork, +/- drusy and limonitic, and crosscutting limonite fracture fillings
45018	weak clay altered intrusion with fine crosscutting quartz stringers, weak stockwork, +/- limonitic
45019	micaceous quartzite with quartz veinlets, +/- drusy and limonitic in talus
45020	weak clay and weak limonite altered intrusion with clots of pyrite up to 1.5 cm
45021	weak clay altered and moderate silicified intrusion with chocolate brown fracture fillings and specks throughout (after sphalerite?)
45025	dark rusty weathering biotite-pyrrhotite hornfels
45026	quartzite-micaceous quartzite with crosscutting yellow-orange limonitic fractures
45027	clast supported breccia with metasedimentary fragments in clay altered matrix; some crosscutting limonite and weakMn fracture fillings
45028	white quartz vein cutting metasedimentary unit with rusty ribbons and crosscutting fractures
45029	rusty quartzite-micaceous quartzite with crosscutting red-yellow-orange limonitic fractures
45030	quartzite-micaceous quartzite with crosscutting quartz-limonitic veinlets up to 7mm wide

APPENDIX V

Soil sample assay certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client:

Ryan Gold Corp.

600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Submitted By: Mike Skead

Receiving Lab: Canada-Whitehorse

Received: July 15, 2011

Report Date: August 09, 2011

Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000619.1

CLIENT JOB INFORMATION

Project: MRS
Shipment ID:
P.O. Number
Number of Samples: 180

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	180	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	180	Dry at 60C			VAN
1DX2	180	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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Client:

Ryan Gold Corp.

600 - 666 Burrard St.
Vancouver BC V6C 1H2 Canada

Project:

MRS

Report Date:

August 09, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000619.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1083056	Soil	2.5	34.4	53.7	409	0.2	35.3	11.7	899	3.26	9.6	6.7	8.3	16.8	39	1.1	0.6	1.4	55	0.29	0.075
1083057	Soil	1.6	22.9	25.3	98	0.2	33.9	11.4	731	3.05	9.3	3.3	6.7	10.6	39	0.5	0.5	1.3	58	0.29	0.070
1083059	Soil	1.1	29.4	30.8	101	0.2	46.7	15.5	685	3.50	8.7	2.6	3.2	6.1	55	0.6	0.4	2.4	77	0.55	0.058
1083058	Soil	0.9	12.8	25.1	110	<0.1	14.1	4.6	643	2.04	4.2	5.6	1.5	9.8	75	0.4	0.2	0.9	27	0.25	0.040
1083060	Soil	1.5	27.1	13.4	127	<0.1	22.0	8.0	531	2.67	8.4	0.9	2.2	2.0	30	0.3	0.6	0.9	53	0.26	0.056
1083051	Soil	2.9	29.9	13.3	69	0.2	21.3	7.5	220	2.99	14.3	0.7	8.2	1.5	16	0.3	1.1	0.5	74	0.12	0.043
1083052	Soil	1.0	24.5	17.4	78	0.2	26.0	11.3	383	2.96	11.6	0.9	3.5	3.6	20	0.4	0.4	0.6	60	0.22	0.049
1083053	Soil	2.0	34.2	26.1	92	0.5	25.2	12.1	638	3.51	15.4	1.5	6.3	2.0	48	0.3	0.6	0.8	72	0.28	0.080
1083054	Soil	1.0	23.2	14.1	59	0.2	17.2	9.0	357	1.88	10.4	1.0	2.7	1.3	27	1.3	0.4	0.5	40	0.21	0.061
1083055	Soil	1.0	20.8	26.4	83	0.1	19.3	8.3	588	2.29	5.5	1.6	2.1	3.7	108	0.5	0.3	0.4	47	0.32	0.077
1083061	Soil	1.1	31.5	24.6	142	0.2	28.1	10.1	576	2.75	6.8	2.6	2.9	7.6	33	0.7	0.4	0.8	52	0.42	0.096
1083062	Soil	1.1	29.7	23.9	107	0.2	26.0	9.6	406	2.83	8.1	1.0	5.7	3.5	21	0.5	0.5	0.6	58	0.25	0.048
1083070	Soil	1.7	27.3	10.0	65	<0.1	20.5	8.0	320	2.19	8.4	1.1	2.3	0.9	23	0.3	0.7	0.3	41	0.26	0.061
1083049	Soil	1.2	36.5	29.8	105	0.2	35.2	12.5	445	3.05	12.0	1.1	5.6	2.7	19	0.8	0.5	0.9	63	0.25	0.053
1083050	Soil	1.0	35.4	31.1	120	0.5	33.4	12.6	533	3.09	17.1	1.4	7.9	4.8	26	0.9	0.5	1.2	62	0.38	0.094
1083069	Soil	1.3	26.6	9.8	48	0.1	13.5	6.4	286	1.78	3.9	1.6	2.4	0.2	23	0.3	0.4	0.2	39	0.21	0.074
1083067	Soil	1.1	30.2	47.9	219	0.3	22.3	7.7	447	2.17	6.1	2.5	5.0	7.3	24	1.5	0.3	0.6	44	0.29	0.060
1083068	Soil	1.0	32.1	47.2	219	0.3	25.1	8.5	454	2.40	6.4	2.8	3.4	7.9	26	1.6	0.3	0.6	50	0.33	0.069
1083066	Soil	0.2	14.0	1.5	17	<0.1	3.4	2.7	65	0.88	1.0	0.2	0.6	0.2	10	<0.1	<0.1	<0.1	26	0.14	0.052
1083065	Soil	1.8	34.1	51.2	192	0.2	29.4	10.7	471	2.97	9.1	1.2	6.4	4.2	20	0.8	0.6	0.6	61	0.22	0.034
1083064	Soil	2.6	40.7	63.0	219	0.2	29.2	10.4	684	3.02	11.3	3.1	4.2	6.3	17	0.9	0.6	1.4	49	0.19	0.039
1083063	Soil	1.7	50.3	37.7	146	0.2	31.3	10.7	532	3.09	10.8	2.1	3.6	4.9	23	0.9	0.7	0.5	61	0.27	0.052
1083048	Soil	1.4	35.6	24.7	97	0.2	31.9	12.1	405	3.00	10.3	0.9	2.1	2.3	20	0.7	0.4	0.7	71	0.31	0.046
1083047	Soil	2.0	43.9	67.7	222	1.0	44.6	16.7	695	3.65	13.2	1.0	6.0	2.1	38	1.2	0.8	0.9	71	0.73	0.052
1083046	Soil	1.3	35.7	53.0	154	0.2	30.9	13.4	539	3.41	12.4	0.8	2.6	1.1	20	0.8	0.6	1.2	79	0.23	0.064
1083045	Soil	1.4	40.3	49.2	136	0.4	39.8	13.5	521	3.10	20.6	1.3	17.5	3.7	28	0.7	0.4	0.6	65	0.45	0.093
1083044	Soil	1.2	40.7	45.1	148	0.6	46.2	14.5	577	3.18	29.9	1.0	6.9	2.8	25	1.0	0.4	0.8	63	0.45	0.088
1083043	Soil	1.2	31.1	58.2	164	0.2	31.1	13.0	630	3.02	25.2	1.0	12.3	3.6	22	1.0	0.5	0.6	62	0.32	0.078
1083042	Soil	1.2	33.1	93.3	223	0.4	22.0	10.0	513	2.47	29.9	1.1	11.8	2.6	26	1.3	0.5	0.5	43	0.38	0.082
1083041	Soil	1.1	55.8	28.6	174	0.4	20.9	10.7	654	2.36	27.1	1.2	4.3	0.6	37	4.5	0.7	0.4	36	1.01	0.094



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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
		La	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	ppm
		1	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
1083056	Soil	76	35	0.78	80	0.071	<1	2.19	0.018	0.12	0.5	0.04	2.9	0.2	0.05	7	0.6	<0.2
1083057	Soil	32	40	0.84	96	0.123	2	1.87	0.013	0.18	0.4	0.04	3.0	0.2	<0.05	7	0.6	<0.2
1083059	Soil	26	56	1.27	147	0.180	1	2.39	0.020	0.28	0.4	0.01	3.9	0.5	<0.05	10	<0.5	<0.2
1083058	Soil	66	16	0.42	61	0.038	<1	1.40	0.010	0.11	1.0	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
1083060	Soil	9	27	0.50	139	0.085	1	1.60	0.017	0.07	0.4	0.02	1.8	0.2	<0.05	7	0.6	<0.2
1083051	Soil	9	25	0.37	64	0.075	1	1.79	0.008	0.05	0.3	0.04	1.8	0.2	<0.05	8	0.6	<0.2
1083052	Soil	10	32	0.60	106	0.111	1	2.08	0.013	0.09	0.6	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
1083053	Soil	13	34	0.62	127	0.085	1	2.12	0.013	0.11	0.4	0.06	2.8	0.2	0.06	8	<0.5	<0.2
1083054	Soil	13	25	0.43	81	0.065	<1	1.41	0.022	0.10	0.4	0.04	1.5	0.1	0.05	5	<0.5	<0.2
1083055	Soil	15	24	0.53	105	0.085	1	1.45	0.018	0.14	0.4	0.02	1.9	0.2	<0.05	6	<0.5	<0.2
1083061	Soil	41	40	0.76	119	0.112	<1	1.66	0.016	0.15	0.5	0.02	3.3	0.2	<0.05	6	0.6	<0.2
1083062	Soil	10	29	0.56	123	0.112	2	2.48	0.017	0.06	0.2	0.02	2.6	0.1	<0.05	7	<0.5	<0.2
1083070	Soil	12	23	0.42	68	0.044	2	1.12	0.020	0.06	0.2	0.09	1.7	0.1	0.09	4	<0.5	<0.2
1083049	Soil	15	40	0.74	105	0.107	2	2.14	0.016	0.12	0.6	0.04	3.0	0.2	<0.05	6	<0.5	<0.2
1083050	Soil	21	39	0.68	142	0.109	2	1.97	0.017	0.15	0.8	0.02	3.5	0.2	<0.05	6	0.8	<0.2
1083069	Soil	8	16	0.29	79	0.037	1	0.99	0.021	0.05	0.1	0.05	0.8	<0.1	0.08	4	0.5	<0.2
1083067	Soil	19	26	0.56	106	0.086	2	1.30	0.012	0.08	0.4	0.01	2.0	0.2	<0.05	5	<0.5	<0.2
1083068	Soil	19	29	0.63	109	0.098	1	1.45	0.014	0.09	0.5	0.01	2.4	0.2	<0.05	5	<0.5	<0.2
1083066	Soil	3	4	0.09	28	0.039	<1	0.39	0.023	0.04	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
1083065	Soil	11	30	0.57	111	0.080	1	1.85	0.012	0.05	0.3	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
1083064	Soil	15	30	0.53	90	0.062	2	1.74	0.011	0.06	0.4	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
1083063	Soil	27	32	0.57	137	0.084	2	2.03	0.014	0.07	0.2	0.06	2.5	0.1	<0.05	7	0.5	<0.2
1083048	Soil	12	42	0.75	101	0.122	1	1.61	0.015	0.10	0.5	0.03	2.7	0.2	<0.05	7	<0.5	<0.2
1083047	Soil	13	67	1.04	138	0.116	1	2.41	0.018	0.18	0.7	0.05	3.7	0.3	<0.05	9	<0.5	<0.2
1083046	Soil	8	46	0.80	100	0.106	1	1.68	0.013	0.07	0.3	0.04	2.3	0.2	0.05	8	<0.5	<0.2
1083045	Soil	15	49	0.89	125	0.119	1	1.89	0.024	0.17	0.6	0.03	3.7	0.4	<0.05	7	<0.5	<0.2
1083044	Soil	13	59	0.94	138	0.118	<1	1.90	0.023	0.16	0.6	0.03	3.5	0.4	<0.05	7	<0.5	<0.2
1083043	Soil	11	33	0.68	136	0.091	<1	1.71	0.014	0.08	0.7	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
1083042	Soil	12	23	0.65	99	0.065	2	1.40	0.018	0.09	0.6	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
1083041	Soil	11	19	1.44	97	0.047	3	1.22	0.028	0.06	2.1	0.08	1.8	0.1	0.11	4	<0.5	<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 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	U ppm 0.1	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
1083040	Soil	1.4	29.5	130.9	276	0.5	20.4	10.4	782	3.03	28.3	1.5	13.6	5.5	22	2.2	0.4	0.8	59	0.32	0.095
1083039	Soil	1.4	38.6	73.6	232	0.7	27.4	9.9	441	2.73	44.2	1.1	6.1	1.8	19	1.5	0.5	1.2	65	0.24	0.081
1083038	Soil	0.9	43.6	526.1	2598	2.0	26.7	11.6	1189	3.23	713.8	1.0	32.1	5.0	38	30.1	1.5	3.6	52	0.45	0.074
1083037	Soil	1.0	28.9	14.3	111	<0.1	28.9	10.7	392	2.99	17.4	0.7	4.0	2.8	19	0.5	0.5	0.3	60	0.24	0.052
1004382	Soil	2.0	26.8	14.6	98	0.5	14.8	6.8	404	2.17	14.3	1.4	1.3	0.2	11	0.8	0.5	0.2	103	0.10	0.055
1080498	Soil	1.6	69.8	31.1	253	0.8	52.5	13.9	672	3.91	10.2	2.0	3.1	3.3	19	3.7	0.6	0.6	107	0.26	0.064
1080499	Soil	1.8	46.3	35.8	341	0.4	41.1	13.3	1269	3.62	12.8	1.6	<0.5	1.1	16	3.5	0.8	1.2	112	0.37	0.125
1004383	Soil	1.2	80.6	37.7	530	0.8	106.0	13.2	763	2.94	14.4	1.8	1.6	3.6	26	3.2	0.7	0.9	151	0.91	0.381
1080500	Soil	2.1	59.8	33.7	406	0.3	103.3	14.2	867	3.15	18.5	1.7	2.2	2.1	14	2.4	1.2	0.4	192	0.21	0.051
1080496	Soil	1.1	39.1	71.2	805	0.8	41.4	14.1	1802	3.46	8.8	2.3	5.0	4.5	29	9.2	0.5	1.8	80	0.66	0.179
1080497	Soil	1.7	61.6	49.2	1254	0.8	51.9	19.5	1742	4.72	14.7	2.7	1.9	4.2	23	8.5	0.6	2.0	95	0.45	0.109
1004377	Soil	2.7	34.4	23.1	110	0.2	22.2	13.4	831	4.08	9.1	0.9	<0.5	2.4	26	0.4	0.5	0.4	74	0.24	0.077
1080494	Soil	1.0	29.1	16.1	70	<0.1	24.4	11.4	411	3.00	8.4	0.7	2.3	1.3	16	0.2	0.4	0.2	63	0.25	0.072
1080471	Soil	1.4	27.4	23.2	87	0.2	27.7	10.4	410	2.95	11.1	1.1	1.9	5.1	14	0.5	0.4	0.4	63	0.19	0.036
1004378	Soil	1.2	26.3	21.5	85	0.2	25.9	10.1	388	2.75	9.9	1.1	2.9	4.8	13	0.5	0.3	0.4	59	0.19	0.032
1080473	Soil	1.6	48.7	45.9	175	0.4	17.7	8.0	520	2.21	15.3	2.9	3.9	9.4	14	0.6	0.4	0.8	48	0.20	0.068
1080472	Soil	2.0	47.2	45.4	177	0.4	27.9	9.9	463	2.97	16.8	2.7	7.8	9.9	13	0.7	0.5	1.0	55	0.18	0.046
1080474	Soil	2.1	56.6	61.6	317	0.5	24.3	9.0	572	2.79	22.5	2.4	3.1	4.7	13	1.4	0.5	1.3	54	0.17	0.064
1080475	Soil	2.0	48.2	65.2	201	0.3	27.8	11.3	649	2.97	21.9	2.1	5.0	5.9	16	1.2	0.5	1.4	61	0.21	0.060
1080476	Soil	2.7	41.2	50.3	171	0.3	25.2	10.1	543	3.00	21.0	1.4	7.3	2.4	16	0.7	0.6	1.5	69	0.19	0.064
1080477	Soil	1.9	43.4	107.8	264	0.6	31.3	12.5	538	3.03	70.1	1.0	18.6	1.5	15	1.3	0.5	1.3	72	0.16	0.063
1080478	Soil	2.3	50.9	131.5	320	0.5	37.5	14.5	650	3.61	90.7	1.1	17.9	1.9	16	1.8	0.6	1.7	84	0.17	0.066
1080479	Soil	1.2	43.8	65.0	208	0.8	29.8	10.2	402	2.65	43.8	1.0	12.8	3.2	14	1.5	0.3	1.5	61	0.18	0.041
1080480	Soil	1.2	45.4	48.2	218	1.0	34.9	12.6	415	2.80	42.3	1.0	16.9	3.2	13	1.0	0.4	6.2	74	0.16	0.036
1080481	Soil	1.2	38.8	117.0	253	0.6	31.2	12.2	452	2.96	49.6	1.1	14.4	3.2	16	2.1	0.5	0.9	66	0.25	0.067
1080482	Soil	0.8	34.0	144.6	493	0.9	26.3	10.4	420	2.49	87.0	0.9	33.9	4.2	18	3.2	0.5	1.2	54	0.31	0.063
1080483	Soil	1.4	44.2	49.9	283	0.5	30.0	12.9	411	2.97	24.8	1.5	7.1	4.7	30	2.2	0.3	0.8	60	0.29	0.077
1080484	Soil	1.0	26.6	36.4	104	0.1	22.9	10.0	302	2.34	21.3	1.3	2.2	4.6	17	0.8	0.3	0.3	49	0.26	0.072
1080485	Soil	1.4	43.6	268.2	390	1.3	34.2	10.2	642	2.49	52.0	1.2	7.5	3.3	22	1.9	0.7	1.2	113	0.47	0.106
1080486	Soil	1.8	38.3	556.7	775	2.0	45.8	12.3	2587	2.80	9.0	1.4	<0.5	1.4	38	9.8	0.5	1.3	197	0.79	0.137



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Part 2

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		La	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	ppm
		1	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
1083040	Soil	17	24	0.49	109	0.080	<1	1.61	0.013	0.08	0.6	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
1083039	Soil	14	38	0.61	119	0.067	1	1.80	0.012	0.09	0.4	0.03	2.6	0.2	<0.05	6	<0.5	<0.2
1083038	Soil	13	28	1.48	831	0.091	2	2.21	0.017	0.23	0.7	0.04	3.4	0.4	<0.05	7	0.6	<0.2
1083037	Soil	10	36	0.66	97	0.102	2	1.94	0.012	0.09	0.3	0.03	2.9	0.2	<0.05	6	<0.5	<0.2
1004382	Soil	5	14	0.17	91	0.038	<1	0.58	0.009	0.03	0.2	0.05	0.8	<0.1	<0.05	4	<0.5	<0.2
1080498	Soil	17	65	1.05	499	0.128	2	3.43	0.019	0.14	0.4	0.04	5.1	0.3	<0.05	12	1.2	<0.2
1080499	Soil	23	42	0.67	380	0.031	1	2.00	0.011	0.07	0.6	0.03	2.0	0.2	0.05	8	0.7	<0.2
1004383	Soil	14	52	0.78	154	0.075	1	2.03	0.010	0.08	0.9	0.07	3.3	0.2	<0.05	8	0.7	<0.2
1080500	Soil	10	38	0.66	140	0.081	1	1.54	0.010	0.06	1.1	0.05	2.4	0.2	<0.05	6	<0.5	<0.2
1080496	Soil	26	47	0.88	427	0.087	<1	2.00	0.019	0.16	0.6	0.03	3.8	0.3	<0.05	8	<0.5	<0.2
1080497	Soil	31	62	1.14	621	0.087	1	3.06	0.013	0.25	0.5	0.09	5.5	0.4	<0.05	11	0.8	<0.2
1004377	Soil	13	27	0.71	131	0.101	<1	2.26	0.017	0.14	0.4	0.05	3.3	0.3	<0.05	9	0.6	<0.2
1080494	Soil	8	35	0.63	89	0.092	2	1.72	0.011	0.08	0.2	0.04	2.5	0.1	<0.05	7	<0.5	<0.2
1080471	Soil	11	32	0.57	100	0.076	3	1.82	0.013	0.06	0.3	0.04	2.4	0.1	<0.05	6	<0.5	<0.2
1004378	Soil	10	30	0.55	93	0.075	2	1.70	0.013	0.06	0.4	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
1080473	Soil	51	19	0.37	77	0.046	1	1.13	0.018	0.08	0.3	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
1080472	Soil	41	30	0.53	99	0.027	<1	1.68	0.010	0.08	0.4	0.04	2.3	0.2	<0.05	6	<0.5	<0.2
1080474	Soil	29	27	0.46	98	0.031	<1	1.44	0.012	0.07	0.4	0.07	1.7	0.2	<0.05	5	<0.5	<0.2
1080475	Soil	21	33	0.54	103	0.047	<1	1.58	0.014	0.08	0.4	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
1080476	Soil	11	33	0.50	93	0.053	2	1.45	0.011	0.07	0.4	0.06	1.7	0.2	<0.05	6	<0.5	<0.2
1080477	Soil	9	37	0.55	112	0.069	2	1.71	0.013	0.10	0.4	0.05	2.1	0.2	<0.05	7	<0.5	<0.2
1080478	Soil	11	45	0.66	124	0.074	1	2.03	0.012	0.11	0.4	0.06	2.6	0.3	<0.05	8	0.6	<0.2
1080479	Soil	10	30	0.51	103	0.079	1	1.57	0.011	0.09	0.5	0.05	2.2	0.2	<0.05	5	<0.5	<0.2
1080480	Soil	10	34	0.56	109	0.092	<1	1.51	0.009	0.13	0.6	0.05	2.5	0.2	<0.05	5	<0.5	<0.2
1080481	Soil	11	37	0.64	95	0.094	2	1.79	0.012	0.10	0.7	0.05	2.6	0.2	<0.05	6	<0.5	<0.2
1080482	Soil	11	30	0.62	108	0.090	1	1.58	0.014	0.10	1.5	0.04	2.3	0.2	<0.05	5	<0.5	<0.2
1080483	Soil	13	34	0.66	97	0.104	<1	2.02	0.018	0.17	0.4	0.04	3.3	0.3	<0.05	6	<0.5	<0.2
1080484	Soil	13	29	0.56	104	0.091	<1	1.70	0.014	0.15	0.3	0.03	2.6	0.2	<0.05	5	<0.5	<0.2
1080485	Soil	11	34	0.82	725	0.071	2	1.59	0.015	0.09	0.7	0.04	2.2	0.3	<0.05	5	<0.5	<0.2
1080486	Soil	12	40	1.53	2240	0.049	2	2.14	0.019	0.09	0.7	0.09	2.6	0.5	<0.05	6	<0.5	<0.2



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Part 1

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 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	U ppm 0.1	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
1080487	Soil	2.0	32.6	132.9	342	0.6	45.7	13.0	583	3.03	9.9	1.0	5.2	2.2	19	1.5	0.6	0.6	118	0.36	0.092
1080488	Soil	18.0	176.1	963.2	1367	1.3	96.4	16.4	516	2.71	13.2	5.0	5.1	4.7	25	3.9	0.7	1.0	172	0.45	0.166
1080489	Soil	3.5	36.9	79.8	275	0.1	40.3	9.6	327	2.54	10.1	1.5	7.7	2.3	23	1.1	0.6	0.3	116	0.37	0.136
1080490	Soil	2.6	48.9	415.3	498	0.6	31.8	9.5	406	2.40	8.6	1.7	0.9	4.4	34	2.3	0.4	0.5	94	0.50	0.179
1080491	Soil	4.2	35.1	46.9	301	0.4	39.9	10.3	302	2.96	20.4	2.1	2.3	1.8	17	0.8	0.9	0.2	110	0.23	0.080
1080492	Soil	1.5	29.4	89.8	115	0.3	24.3	9.9	403	2.62	22.6	0.8	1.5	0.9	19	0.7	0.8	0.7	69	0.32	0.055
1080493	Soil	1.7	34.2	15.6	130	0.3	27.6	10.7	409	3.46	10.2	0.9	4.2	0.9	14	0.7	0.5	0.3	86	0.15	0.048
1081552	Soil	6.6	26.8	19.8	128	0.2	22.2	9.2	462	2.82	7.7	1.4	7.4	2.8	13	1.0	0.6	0.6	59	0.16	0.052
1081559	Soil	4.4	26.5	37.4	115	0.2	22.6	9.0	429	2.69	7.1	2.0	1.0	6.9	14	0.5	0.3	0.6	57	0.20	0.036
1081557	Soil	3.9	27.4	20.2	109	<0.1	23.0	8.8	417	3.00	8.1	1.4	2.2	4.1	13	0.4	0.5	0.4	62	0.14	0.032
1081560	Soil	13.8	47.0	100.7	216	0.3	30.7	12.5	660	3.43	11.0	5.2	7.6	10.5	15	0.7	0.5	1.2	65	0.19	0.040
1081564	Soil	8.7	32.2	51.2	218	0.2	14.5	5.4	355	2.17	5.1	3.6	4.0	13.2	9	0.9	0.2	1.0	36	0.17	0.043
1081565	Soil	2.5	23.8	27.9	93	0.2	20.7	8.3	305	2.67	7.7	1.6	2.5	6.3	13	0.5	0.4	0.7	53	0.17	0.047
1081554	Soil	11.4	33.7	63.4	269	0.3	19.4	7.5	463	2.81	8.6	2.7	11.2	3.8	13	0.6	0.6	1.3	53	0.14	0.062
1081568	Soil	3.1	27.5	26.5	99	0.1	19.3	8.3	479	2.39	5.6	2.4	19.9	11.3	16	0.7	0.3	0.9	53	0.29	0.099
1081551	Soil	31.9	35.5	18.3	195	<0.1	12.8	5.0	255	1.88	4.2	2.9	7.9	7.6	7	0.5	0.3	0.5	30	0.08	0.021
1081553	Soil	22.6	55.7	65.5	398	0.2	17.3	6.7	690	2.77	6.9	5.9	16.8	19.0	11	1.7	0.3	1.2	48	0.19	0.062
1081558	Soil	3.8	22.3	31.1	90	0.1	15.9	6.8	362	2.23	6.8	1.8	10.1	6.0	13	0.4	0.3	0.5	43	0.16	0.029
1081566	Soil	8.1	32.3	32.2	118	0.1	22.9	9.2	412	3.01	10.3	1.9	2.1	7.2	15	0.9	0.5	0.9	65	0.17	0.045
1081574	Soil	5.0	29.9	19.1	65	0.1	17.3	7.0	418	2.69	10.5	1.2	1.4	2.2	18	0.2	0.5	0.7	60	0.18	0.051
1081556	Soil	13.8	45.5	72.2	365	0.3	22.5	9.2	608	2.91	9.7	8.8	7.1	12.4	15	1.1	0.5	1.4	51	0.14	0.040
1081570	Soil	1.8	22.6	12.7	71	<0.1	14.5	6.9	298	1.88	4.2	1.7	5.1	7.7	12	0.4	0.3	0.5	40	0.20	0.067
1081572	Soil	2.2	25.2	14.7	75	<0.1	18.7	7.8	319	2.22	6.3	2.3	4.0	8.4	18	0.2	0.3	0.5	49	0.22	0.062
1081573	Soil	2.9	25.2	18.7	79	0.2	16.7	6.0	166	1.88	4.4	2.8	15.8	9.2	16	0.3	0.3	0.6	43	0.25	0.072
1081571	Soil	1.6	19.9	13.9	80	<0.1	16.5	6.6	284	1.68	3.8	1.4	<0.5	7.3	15	0.3	0.2	0.5	34	0.24	0.074
1081569	Soil	2.9	30.4	21.7	100	0.1	18.2	7.3	418	1.93	5.9	3.3	1.2	8.8	13	0.5	0.3	0.6	36	0.21	0.067
1081561	Soil	6.8	32.9	61.7	140	0.1	26.8	11.3	560	2.86	10.1	1.8	3.2	6.5	15	0.6	0.5	1.0	56	0.16	0.047
1081555	Soil	13.0	47.3	62.9	312	0.2	20.5	8.4	616	2.60	9.0	7.4	5.5	11.4	13	1.0	0.5	0.9	44	0.17	0.061
1081567	Soil	2.4	24.4	15.2	70	<0.1	19.8	8.2	275	2.55	9.1	0.9	2.5	3.1	15	0.4	0.6	0.5	56	0.14	0.029
1081563	Soil	10.1	55.6	114.2	303	0.5	20.8	8.8	780	2.66	10.1	8.0	6.4	23.2	13	1.7	0.6	1.8	34	0.17	0.042



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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	1DX15
		La	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	ppm
		1	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
1080487	Soil	9	40	0.76	307	0.095	1	1.98	0.014	0.08	0.2	0.06	2.9	0.2	<0.05	7	<0.5	<0.2
1080488	Soil	16	39	0.62	470	0.074	1	1.55	0.014	0.09	0.7	0.04	3.1	0.2	<0.05	5	0.9	<0.2
1080489	Soil	11	34	0.48	358	0.068	<1	1.39	0.011	0.05	0.4	0.06	1.8	0.1	<0.05	6	0.8	<0.2
1080490	Soil	12	29	0.48	362	0.079	<1	1.51	0.013	0.07	0.6	0.04	2.3	0.2	<0.05	5	0.7	<0.2
1080491	Soil	10	32	0.57	139	0.074	1	1.99	0.012	0.05	0.5	0.06	2.1	0.2	<0.05	6	0.6	<0.2
1080492	Soil	7	26	0.42	139	0.069	<1	1.39	0.015	0.04	0.6	0.05	1.7	0.1	<0.05	6	<0.5	<0.2
1080493	Soil	10	36	0.57	209	0.076	<1	1.92	0.009	0.06	0.3	0.05	1.8	0.1	<0.05	8	<0.5	<0.2
1081552	Soil	9	28	0.47	68	0.054	<1	1.40	0.009	0.07	0.4	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2
1081559	Soil	19	27	0.47	83	0.042	<1	1.55	0.011	0.07	0.5	0.04	1.7	0.1	<0.05	5	<0.5	<0.2
1081557	Soil	12	28	0.45	86	0.066	<1	1.54	0.008	0.05	0.3	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
1081560	Soil	48	38	0.61	123	0.048	<1	2.38	0.010	0.07	0.3	0.04	3.1	0.2	<0.05	7	<0.5	<0.2
1081564	Soil	41	19	0.29	56	0.037	<1	0.94	0.007	0.08	0.7	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1081565	Soil	12	27	0.43	64	0.076	1	1.52	0.009	0.05	0.6	0.02	1.9	<0.1	0.06	5	<0.5	<0.2
1081554	Soil	15	27	0.37	57	0.047	2	1.32	0.008	0.05	0.4	0.03	1.3	0.1	0.09	5	0.6	<0.2
1081568	Soil	21	29	0.42	97	0.086	1	1.31	0.010	0.07	1.6	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
1081551	Soil	9	15	0.22	43	0.024	1	1.01	0.005	0.04	0.3	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
1081553	Soil	45	23	0.30	74	0.066	1	1.22	0.007	0.06	0.8	0.01	1.7	0.1	<0.05	4	1.1	<0.2
1081558	Soil	16	22	0.34	67	0.040	<1	1.15	0.008	0.05	0.4	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
1081566	Soil	17	31	0.41	83	0.070	1	1.55	0.008	0.05	0.7	0.02	1.9	0.1	<0.05	6	0.6	<0.2
1081574	Soil	12	26	0.38	132	0.074	<1	1.59	0.011	0.05	0.6	0.02	1.8	0.1	<0.05	7	<0.5	<0.2
1081556	Soil	122	29	0.44	87	0.042	1	1.78	0.007	0.06	0.4	0.04	3.2	0.1	<0.05	6	2.5	<0.2
1081570	Soil	14	20	0.31	60	0.069	<1	0.92	0.008	0.05	0.9	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1081572	Soil	20	28	0.41	93	0.085	<1	1.34	0.011	0.06	0.9	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1081573	Soil	24	28	0.42	103	0.094	<1	1.39	0.008	0.06	0.8	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
1081571	Soil	15	22	0.36	101	0.077	1	1.09	0.009	0.07	0.6	<0.01	1.6	0.1	<0.05	3	<0.5	<0.2
1081569	Soil	31	22	0.36	86	0.059	<1	1.12	0.008	0.06	0.8	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1081561	Soil	16	33	0.57	101	0.072	1	2.21	0.010	0.07	0.2	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
1081555	Soil	78	26	0.41	61	0.036	1	1.34	0.009	0.06	0.3	0.01	2.2	0.1	<0.05	5	1.6	<0.2
1081567	Soil	8	25	0.37	88	0.078	2	1.53	0.010	0.04	0.3	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
1081563	Soil	72	22	0.40	80	0.044	<1	1.24	0.009	0.10	0.4	0.03	2.7	0.1	<0.05	4	1.3	<0.2



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Part 1

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	U	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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1081562	Soil	9.5	47.7	105.8	266	0.4	17.8	7.5	719	2.35	8.5	7.7	4.8	21.1	12	1.8	0.5	1.5	34	0.13	0.039
1081578	Soil	1.0	25.7	12.1	71	<0.1	29.7	11.5	278	2.29	4.7	1.1	1.8	7.9	18	0.3	0.2	0.9	45	0.25	0.061
1081580	Soil	2.8	27.3	11.3	60	<0.1	19.8	6.9	180	2.80	10.7	0.7	4.4	2.2	13	0.1	1.0	0.5	74	0.13	0.026
1081586	Soil	0.9	23.1	12.0	49	<0.1	24.4	9.7	279	2.41	6.0	1.5	<0.5	6.4	17	0.2	0.3	0.3	52	0.23	0.063
1081583	Soil	1.1	41.5	36.7	92	0.1	28.5	13.9	794	2.48	2.9	2.3	0.9	14.0	31	1.0	0.1	9.2	44	0.43	0.103
1081581	Soil	0.5	22.7	28.7	80	<0.1	37.2	16.1	877	3.51	4.6	2.6	<0.5	13.3	18	0.8	0.2	1.0	51	0.32	0.106
1081576	Soil	1.8	48.9	9.8	50	<0.1	17.7	7.9	234	2.71	9.6	0.8	<0.5	1.6	19	0.1	0.7	0.3	62	0.17	0.054
1081584	Soil	0.7	20.2	16.4	57	<0.1	23.1	9.9	404	2.36	5.0	1.2	<0.5	7.1	15	0.2	0.2	0.4	43	0.21	0.056
1081575	Soil	1.6	35.4	25.6	105	0.1	33.0	13.1	533	3.25	8.3	2.0	11.8	6.7	36	0.3	0.3	1.2	66	0.20	0.054
1081582	Soil	1.2	42.3	38.0	103	<0.1	30.7	14.0	847	2.62	2.7	2.2	1.6	13.5	33	1.0	0.2	9.0	47	0.45	0.115
1081577	Soil	1.2	39.0	167.2	916	0.2	25.9	10.3	469	2.38	5.7	1.2	1.6	7.9	19	1.1	0.3	1.3	62	0.30	0.086
1081585	Soil	0.8	19.4	18.0	61	<0.1	24.5	12.9	591	2.68	5.7	1.7	1.1	10.6	17	0.3	0.2	0.8	49	0.23	0.082
1081579	Soil	1.3	25.9	9.9	58	<0.1	24.1	9.2	318	2.08	3.4	1.8	<0.5	9.5	23	0.3	0.2	0.8	47	0.33	0.088
1083554	Soil	2.0	52.2	39.2	132	0.3	34.0	14.0	379	3.50	81.6	1.2	4.0	3.6	16	0.6	0.6	0.6	76	0.11	0.049
1083562	Soil	1.9	25.5	26.3	112	<0.1	22.3	8.6	321	2.82	8.9	1.0	3.1	2.7	14	0.4	0.6	0.3	63	0.16	0.036
1083553	Soil	1.9	34.9	21.8	96	0.3	23.1	9.8	324	2.91	14.6	0.8	3.2	1.0	15	0.5	0.6	0.4	64	0.14	0.059
1044938	Soil	4.6	45.5	42.0	850	0.1	14.8	6.3	596	2.55	3.6	12.4	0.8	23.6	13	5.5	0.2	1.1	24	0.22	0.059
1085497	Soil	4.4	51.4	42.0	874	0.1	15.8	6.6	638	2.81	3.6	14.4	<0.5	26.5	14	5.8	0.3	1.0	22	0.24	0.062
1083556	Soil	7.5	39.7	22.7	106	0.1	23.4	15.7	1089	3.34	33.7	<0.1	4.2	0.3	23	0.9	1.0	0.3	169	0.32	0.131
1083557	Soil	1.5	71.3	31.9	273	0.4	40.0	14.6	469	3.47	29.5	<0.1	7.4	2.6	18	2.2	0.4	0.4	157	0.39	0.096
1083567	Soil	2.7	28.3	20.8	173	<0.1	20.7	8.6	417	3.14	22.0	<0.1	12.4	1.3	14	0.6	0.7	0.3	108	0.16	0.050
1003977	Soil	2.8	39.0	24.9	152	0.2	27.3	11.5	621	2.97	19.4	0.3	5.0	6.6	15	0.7	0.4	0.2	100	0.24	0.055
1003980	Soil	2.1	36.0	22.4	143	<0.1	27.7	10.2	409	3.75	19.8	0.4	0.9	2.6	14	0.6	0.6	0.2	111	0.18	0.042
1083566	Soil	2.4	32.3	18.1	86	<0.1	17.0	8.4	365	3.09	15.2	0.4	3.1	1.0	14	0.2	0.6	0.2	105	0.13	0.057
1083555	Soil	2.1	58.1	35.2	161	0.2	35.4	12.8	571	4.33	69.8	0.7	8.0	0.7	16	0.7	0.8	0.5	145	0.14	0.078
1003976	Soil	3.0	30.9	24.8	183	0.1	26.5	11.8	595	3.16	13.7	1.4	3.1	4.1	20	0.7	0.5	0.2	87	0.26	0.037
1003979	Soil	4.0	32.8	33.3	229	<0.1	24.4	9.6	446	3.71	13.6	0.9	1.8	3.1	14	0.3	0.6	0.3	90	0.16	0.034
1083558	Soil	2.5	114.2	42.7	240	1.3	35.9	11.5	577	2.87	11.8	2.5	5.2	0.6	28	3.7	0.5	0.5	142	0.59	0.121
1083568	Soil	2.1	31.9	44.4	656	0.1	31.0	11.0	480	3.27	8.3	1.3	3.2	4.1	13	1.2	0.4	0.4	69	0.16	0.036
1083561	Soil	1.2	34.0	30.3	100	<0.1	27.1	10.9	403	2.67	10.4	0.8	1.9	3.8	16	0.5	0.3	0.3	75	0.21	0.041



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	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
1081562	Soil	65	19	0.35	70	0.036	<1	1.07	0.008	0.08	0.2	0.02	2.6	<0.1	<0.05	4	1.4
1081578	Soil	11	37	0.66	68	0.104	<1	1.77	0.011	0.07	2.5	<0.01	2.1	0.2	<0.05	5	<0.5
1081580	Soil	8	24	0.33	60	0.085	<1	1.30	0.007	0.04	0.3	0.02	1.7	0.1	<0.05	8	<0.5
1081586	Soil	11	35	0.53	66	0.098	<1	1.60	0.010	0.05	0.7	0.02	2.0	0.1	<0.05	6	<0.5
1081583	Soil	32	32	0.83	72	0.066	<1	1.37	0.010	0.14	7.3	<0.01	3.3	0.2	<0.05	5	<0.5
1081581	Soil	26	33	0.65	98	0.023	1	1.62	0.007	0.09	5.5	<0.01	3.7	0.2	<0.05	5	<0.5
1081576	Soil	7	27	0.34	78	0.087	1	1.68	0.013	0.04	0.4	0.02	1.8	0.1	0.06	6	<0.5
1081584	Soil	14	30	0.56	74	0.075	<1	1.46	0.009	0.09	1.1	<0.01	2.3	0.2	<0.05	5	0.5
1081575	Soil	14	50	0.84	109	0.119	<1	2.33	0.008	0.12	1.0	0.02	3.0	0.2	<0.05	9	<0.5
1081582	Soil	33	33	0.84	75	0.061	<1	1.41	0.014	0.14	8.0	<0.01	3.4	0.2	<0.05	5	<0.5
1081577	Soil	13	34	0.67	65	0.092	1	1.58	0.012	0.08	1.5	0.02	2.2	0.1	<0.05	6	<0.5
1081585	Soil	15	35	0.61	69	0.082	1	1.73	0.008	0.10	1.9	0.02	2.3	0.2	<0.05	6	<0.5
1081579	Soil	18	35	0.69	79	0.121	2	1.25	0.011	0.12	1.2	<0.01	2.2	0.2	<0.05	6	<0.5
1083554	Soil	15	34	0.74	140	0.093	<1	2.34	0.010	0.16	0.6	0.03	3.3	0.4	0.05	9	0.6
1083562	Soil	9	30	0.41	62	0.066	1	1.57	0.008	0.05	0.3	0.02	1.8	0.1	<0.05	6	<0.5
1083553	Soil	9	28	0.48	84	0.050	1	1.47	0.009	0.10	0.3	0.04	1.7	0.2	0.06	7	<0.5
1044938	Soil	30	16	0.22	110	0.024	1	0.84	0.009	0.06	0.4	0.02	1.7	0.1	<0.05	4	2.1
1085497	Soil	32	15	0.23	117	0.024	1	0.88	0.009	0.06	0.4	0.01	2.0	0.1	<0.05	4	2.4
1083556	Soil	9	31	0.36	192	0.034	<1	1.23	0.010	0.09	0.2	0.04	2.6	0.1	0.09	7	0.7
1083557	Soil	15	41	0.81	150	0.104	1	2.10	0.010	0.16	0.5	0.03	4.9	0.2	<0.05	7	1.2
1083567	Soil	9	26	0.32	87	0.058	<1	1.28	0.009	0.06	0.3	0.03	2.9	<0.1	<0.05	6	<0.5
1003977	Soil	23	32	0.49	71	0.082	<1	1.65	0.010	0.06	0.5	0.06	3.5	<0.1	<0.05	4	1.3
1003980	Soil	10	35	0.49	79	0.090	1	1.96	0.009	0.05	0.3	0.05	3.6	<0.1	<0.05	7	0.5
1083566	Soil	7	23	0.34	64	0.068	<1	1.12	0.010	0.05	0.2	0.04	2.5	<0.1	0.05	6	<0.5
1083555	Soil	10	49	0.82	184	0.089	2	2.39	0.010	0.14	0.7	0.04	3.5	0.4	<0.05	10	0.7
1003976	Soil	13	30	0.49	115	0.076	1	1.77	0.010	0.06	0.2	0.04	3.3	<0.1	<0.05	5	0.5
1003979	Soil	9	34	0.44	85	0.074	1	1.70	0.009	0.05	0.3	0.03	3.2	<0.1	<0.05	7	0.9
1083558	Soil	23	36	0.54	125	0.058	3	1.86	0.015	0.08	0.3	0.04	3.1	0.2	0.08	6	1.4
1083568	Soil	11	28	0.47	88	0.066	2	1.85	0.011	0.06	0.2	0.04	3.1	0.1	<0.05	5	0.8
1083561	Soil	10	29	0.49	83	0.102	1	1.83	0.013	0.08	0.3	0.03	3.4	0.1	<0.05	4	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1083564	Soil	2.0	27.9	30.8	163	<0.1	17.3	7.0	369	2.42	7.6	1.9	1.7	5.2	13	1.1	0.3	0.3	61	0.17	0.048
1044939	Soil	1.6	37.7	27.0	482	<0.1	31.5	11.2	483	3.04	10.4	2.4	3.9	4.8	18	2.0	0.4	0.2	74	0.25	0.034
1083565	Soil	2.8	33.9	66.4	247	<0.1	20.4	6.6	310	2.59	6.9	1.8	6.7	4.8	11	0.5	0.3	0.4	58	0.13	0.025
1085494	Soil	2.3	25.1	21.4	130	<0.1	21.4	8.5	287	2.69	8.2	1.5	3.6	6.6	13	0.6	0.4	0.2	62	0.15	0.033
1083559	Soil	1.2	43.6	16.0	86	<0.1	24.0	9.5	304	2.70	8.4	0.9	4.8	1.5	19	0.5	0.3	0.2	83	0.42	0.070
1083560	Soil	1.8	50.7	44.9	170	0.3	31.4	10.8	503	2.96	16.3	1.4	1.2	2.4	17	1.1	0.4	0.3	100	0.27	0.086
1083563	Soil	3.5	37.2	18.4	108	<0.1	26.1	10.2	951	3.87	13.6	0.9	2.2	1.6	16	0.3	1.1	0.3	98	0.13	0.058
1085496	Soil	1.5	38.8	26.4	489	<0.1	33.2	11.5	452	3.10	9.2	2.6	<0.5	5.4	18	2.1	0.4	0.3	68	0.23	0.032
1083551	Soil	1.6	56.8	74.0	285	0.7	47.8	14.8	585	3.95	55.0	1.2	19.5	1.4	14	1.2	0.7	0.4	157	0.18	0.088
1085493	Soil	2.1	36.2	15.7	125	0.1	23.2	10.5	395	3.03	8.4	1.2	<0.5	2.4	19	0.3	0.5	0.3	74	0.23	0.036
1003978	Soil	1.6	24.4	27.2	180	<0.1	22.6	9.8	460	2.63	6.2	2.0	<0.5	6.5	13	0.4	0.3	0.3	56	0.15	0.039
1085495	Soil	2.1	33.4	66.0	370	0.1	33.8	14.4	697	3.79	10.2	2.5	2.6	2.9	19	0.9	0.6	0.4	74	0.19	0.038
1083552	Soil	1.9	169.7	46.4	262	5.0	33.1	22.2	362	3.31	29.4	1.3	27.0	2.1	82	1.8	0.5	1.0	62	0.27	0.087
1083161	Soil	8.0	51.5	20.3	172	0.2	20.3	7.7	384	2.76	8.4	2.3	5.6	4.0	12	1.0	0.5	0.8	62	0.12	0.054
1083162	Soil	3.4	41.3	13.1	166	0.1	23.6	9.8	377	2.82	6.6	2.0	5.4	6.1	28	1.2	0.3	0.4	66	0.44	0.088
1083163	Soil	11.8	33.2	33.2	201	<0.1	21.7	9.4	498	2.75	9.5	2.3	6.8	6.7	13	0.4	0.7	0.5	54	0.12	0.053
1083164	Soil	5.1	20.2	23.7	232	<0.1	19.1	6.5	338	2.80	6.7	1.5	8.1	2.5	11	0.5	0.4	0.6	56	0.10	0.030
1083165	Soil	5.0	20.0	23.8	236	<0.1	18.5	6.8	323	2.78	6.4	1.7	<0.5	2.4	12	0.4	0.5	0.7	54	0.11	0.030
1083166	Soil	7.8	36.1	70.0	555	0.5	18.5	9.0	834	3.33	3.9	3.3	9.6	6.9	23	2.1	0.3	1.1	62	0.20	0.043
1083167	Soil	7.5	33.5	25.1	162	0.3	22.8	10.5	579	3.01	6.5	1.4	10.0	4.4	14	0.4	0.5	0.7	65	0.15	0.041
1083168	Soil	9.0	23.9	14.3	77	0.1	8.3	4.2	308	1.65	2.3	2.1	3.4	2.6	10	0.5	0.2	0.6	40	0.12	0.039
1083169	Soil	11.5	54.0	17.0	195	0.2	18.3	8.0	622	2.52	3.7	6.1	9.5	9.6	15	0.8	0.3	0.8	51	0.23	0.072
1083170	Soil	10.8	52.3	16.1	183	0.2	16.3	8.2	619	2.40	3.0	5.9	8.6	9.2	15	0.9	0.3	0.6	53	0.23	0.065
1083171	Soil	5.4	48.3	13.9	99	0.2	13.5	7.2	351	2.07	3.8	3.2	4.0	2.6	14	0.3	0.3	0.5	48	0.16	0.045
1083172	Soil	3.0	41.7	14.4	95	<0.1	24.5	9.7	443	2.82	8.1	1.6	3.4	3.9	18	0.3	0.5	0.9	62	0.22	0.049
1083173	Soil	4.7	43.8	26.1	173	0.1	17.2	8.1	586	2.46	5.2	4.1	10.6	8.0	20	1.1	0.3	0.6	51	0.30	0.071
1083174	Soil	2.1	23.4	10.7	113	<0.1	16.5	8.4	387	2.20	4.1	2.9	7.6	5.5	21	0.5	0.3	0.6	48	0.31	0.076
1083175	Soil	2.0	29.1	12.3	149	0.1	18.6	11.3	521	3.14	4.4	2.9	5.9	5.5	49	0.5	0.3	0.4	68	0.56	0.116
1083176	Soil	2.2	24.4	13.6	179	<0.1	16.5	8.1	478	2.27	4.1	3.6	4.6	6.2	19	0.8	0.3	0.3	49	0.28	0.085
1083177	Soil	2.3	29.9	25.1	238	0.1	15.8	7.5	513	2.19	3.9	3.0	3.1	8.2	19	0.8	0.3	0.4	48	0.26	0.060



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		La	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	ppm
		1	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
1083564	Soil	19	23	0.35	62	0.060	1	1.21	0.009	0.06	0.3	0.03	2.4	<0.1	<0.05	4	1.1	<0.2
1044939	Soil	12	33	0.53	89	0.067	2	1.84	0.010	0.05	0.2	0.03	3.1	<0.1	<0.05	6	1.3	<0.2
1083565	Soil	12	22	0.30	69	0.054	<1	1.36	0.007	0.04	0.3	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
1085494	Soil	11	25	0.37	74	0.056	<1	1.69	0.008	0.05	0.2	0.03	2.5	<0.1	<0.05	5	1.1	0.3
1083559	Soil	10	31	0.48	89	0.088	<1	1.29	0.012	0.08	0.2	0.04	2.7	0.1	<0.05	5	0.6	<0.2
1083560	Soil	18	35	0.62	115	0.088	2	1.88	0.010	0.11	0.2	0.05	3.8	0.2	<0.05	6	<0.5	<0.2
1083563	Soil	9	31	0.36	86	0.083	1	1.34	0.009	0.06	0.2	0.05	2.6	<0.1	<0.05	8	<0.5	<0.2
1085496	Soil	13	32	0.54	93	0.075	1	1.86	0.010	0.05	0.2	0.03	2.9	0.1	<0.05	6	<0.5	0.2
1083551	Soil	12	53	0.83	211	0.079	<1	2.55	0.007	0.12	0.9	0.07	3.7	0.3	<0.05	9	<0.5	0.3
1085493	Soil	11	27	0.44	122	0.063	<1	1.55	0.011	0.05	0.2	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
1003978	Soil	13	25	0.41	88	0.068	<1	1.49	0.010	0.06	0.3	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
1085495	Soil	13	36	0.54	114	0.059	2	2.19	0.010	0.06	0.2	0.03	3.2	0.2	<0.05	7	0.7	<0.2
1083552	Soil	11	28	0.64	118	0.061	<1	2.20	0.014	0.15	2.1	0.08	3.0	0.2	<0.05	6	1.4	1.6
1083161	Soil	23	26	0.38	114	0.042	<1	1.36	0.008	0.07	0.4	0.05	2.1	0.1	<0.05	5	<0.5	0.2
1083162	Soil	24	33	0.51	155	0.100	1	1.41	0.021	0.09	0.3	0.02	4.4	0.1	<0.05	5	<0.5	<0.2
1083163	Soil	15	24	0.41	70	0.018	2	1.49	0.009	0.08	0.3	0.04	1.7	0.1	<0.05	5	1.0	<0.2
1083164	Soil	10	22	0.32	69	0.019	<1	1.35	0.006	0.06	0.4	0.02	1.5	<0.1	<0.05	5	0.7	<0.2
1083165	Soil	10	23	0.32	73	0.020	1	1.36	0.006	0.06	0.4	0.03	1.5	0.1	<0.05	5	<0.5	0.2
1083166	Soil	24	25	0.36	184	0.042	<1	1.62	0.014	0.06	0.4	0.05	3.1	<0.1	<0.05	5	1.1	<0.2
1083167	Soil	16	29	0.46	68	0.070	2	1.60	0.008	0.06	0.3	0.03	2.2	0.1	<0.05	5	<0.5	<0.2
1083168	Soil	17	10	0.17	52	0.022	<1	0.65	0.006	0.06	1.0	0.02	1.0	0.1	<0.05	3	<0.5	<0.2
1083169	Soil	59	24	0.37	73	0.089	<1	1.45	0.010	0.06	0.4	0.03	3.1	0.1	<0.05	4	0.9	<0.2
1083170	Soil	60	24	0.36	76	0.083	<1	1.43	0.010	0.05	0.4	0.02	3.2	<0.1	<0.05	4	<0.5	0.3
1083171	Soil	27	19	0.31	70	0.059	<1	0.98	0.013	0.03	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1083172	Soil	18	32	0.55	74	0.078	1	1.66	0.012	0.05	0.3	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
1083173	Soil	48	25	0.41	89	0.095	<1	1.35	0.015	0.05	0.4	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
1083174	Soil	28	25	0.41	85	0.088	<1	1.29	0.014	0.06	0.3	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1083175	Soil	29	38	0.73	199	0.112	1	1.79	0.038	0.11	0.2	0.01	5.5	0.1	<0.05	6	<0.5	<0.2
1083176	Soil	33	24	0.40	101	0.083	<1	1.39	0.017	0.06	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
1083177	Soil	39	25	0.41	81	0.087	<1	1.34	0.013	0.06	0.3	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2



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Part 1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1083179	Soil	1.2	26.4	12.3	96	<0.1	24.0	9.1	426	2.57	5.3	1.1	5.0	3.3	21	0.2	0.4	0.5	55	0.26	0.060
1083180	Soil	6.3	59.3	252.5	261	1.5	15.3	7.2	948	2.30	4.7	3.4	2.0	8.1	17	0.8	0.3	5.5	44	0.23	0.053
1083181	Soil	3.4	29.7	24.3	145	0.2	24.5	9.2	466	2.92	7.9	1.4	2.9	3.7	14	0.3	0.6	4.2	58	0.15	0.047
1083182	Soil	5.8	30.9	19.6	151	<0.1	23.3	9.7	611	2.77	6.6	2.9	5.9	8.9	17	0.7	0.4	2.0	56	0.24	0.074
1083183	Soil	7.3	42.8	47.2	226	0.2	17.4	8.1	693	2.76	5.6	7.0	8.2	12.8	18	2.8	0.3	3.3	49	0.27	0.077
1083184	Soil	11.1	103.4	34.0	175	0.1	13.3	5.7	522	2.62	5.7	9.0	6.1	11.6	14	1.1	0.2	2.1	44	0.20	0.058
1083178	Soil	2.3	28.3	24.0	165	<0.1	22.0	9.1	484	2.92	7.4	1.3	6.0	1.4	16	0.5	0.5	0.6	57	0.17	0.060
1083185	Soil	7.1	126.7	14.7	244	0.3	20.6	9.0	325	2.46	5.0	2.8	2.6	4.4	14	1.8	0.3	1.5	52	0.19	0.061
1083186	Soil	4.2	91.5	13.5	125	0.1	26.4	10.2	328	2.37	4.6	1.9	2.9	4.6	24	0.6	0.3	0.7	57	0.34	0.081
1083187	Soil	4.1	82.5	21.6	82	<0.1	23.9	7.4	237	1.96	3.9	1.3	4.7	4.1	21	0.4	0.2	0.7	46	0.31	0.078
1083188	Soil	7.2	71.5	17.1	98	<0.1	28.8	8.6	249	2.59	5.8	1.1	1.5	2.0	15	0.2	0.4	0.4	66	0.19	0.053
1083189	Soil	14.7	125.7	51.2	164	0.2	33.1	11.9	381	2.49	5.5	1.6	0.9	3.6	16	0.8	0.2	0.6	55	0.26	0.083
1083190	Soil	4.5	60.9	12.0	108	<0.1	21.7	9.0	312	2.94	7.0	0.7	1.1	1.2	13	0.3	0.5	0.4	64	0.15	0.052
1083191	Soil	4.3	118.2	15.5	124	0.1	30.1	11.9	323	2.79	5.9	0.9	3.5	2.0	14	0.4	0.4	0.5	68	0.23	0.086
1083192	Soil	5.3	106.5	16.5	135	0.2	31.0	10.0	298	2.39	5.2	1.2	2.1	3.9	18	0.4	0.3	0.9	63	0.28	0.076
1083194	Soil	8.1	421.2	24.2	170	0.4	44.0	12.2	293	3.75	11.9	2.4	4.0	4.9	23	0.7	0.3	7.7	95	0.27	0.137
1083193	Soil	8.6	446.0	25.3	179	0.4	47.2	12.8	307	4.05	13.2	2.5	7.7	4.8	24	0.8	0.3	8.1	102	0.30	0.143
1081854	Soil	1.3	25.5	14.2	76	<0.1	26.2	9.7	378	2.86	7.1	0.9	1.4	2.9	14	0.1	0.5	0.2	61	0.16	0.039
1081855	Soil	0.6	23.2	18.1	65	<0.1	27.4	10.0	401	2.30	4.7	1.0	0.9	4.9	16	0.2	0.2	0.2	49	0.19	0.032
1081851	Soil	1.2	29.0	17.5	103	0.1	30.1	11.3	470	2.59	4.4	1.5	1.0	8.8	23	0.7	0.2	0.4	59	0.40	0.101
1081856	Soil	0.6	24.0	20.2	67	<0.1	30.2	10.8	434	2.41	5.8	1.0	1.9	5.3	17	0.3	0.3	0.3	51	0.18	0.036
1081852	Soil	0.9	23.1	5.3	43	<0.1	12.6	6.3	196	1.80	3.6	0.5	1.1	0.5	15	0.2	0.3	0.1	45	0.15	0.052
1081857	Soil	1.0	42.6	51.4	117	0.3	38.3	15.6	711	3.46	9.4	4.9	4.3	11.3	27	0.6	0.5	1.2	74	0.27	0.075
1081858	Soil	0.6	30.0	84.1	114	0.4	28.1	10.1	341	2.11	4.4	1.2	2.2	6.7	17	1.7	0.2	1.6	49	0.21	0.046
1081861	Soil	0.6	21.7	5.7	40	<0.1	10.0	6.2	175	1.89	2.3	0.4	1.3	0.6	13	0.1	0.2	0.1	56	0.14	0.051
1081862	Soil	0.9	20.2	9.0	48	<0.1	13.1	6.4	200	1.89	3.0	0.5	1.2	0.9	14	0.3	0.3	0.2	53	0.11	0.049
1081859	Soil	0.8	29.2	32.2	93	0.2	34.7	12.2	414	2.61	5.6	0.9	1.3	3.3	23	0.5	0.3	0.4	60	0.28	0.049
1081853	Soil	1.2	30.5	16.1	74	<0.1	29.9	11.5	470	2.71	7.0	1.1	2.3	4.3	16	0.2	0.4	0.3	60	0.16	0.043
1081860	Soil	0.8	33.8	33.2	78	0.4	35.0	12.5	435	2.53	5.3	1.5	1.5	5.2	20	0.4	0.3	0.3	59	0.24	0.046
1081877	Soil	1.3	28.6	42.7	115	0.1	52.0	18.4	925	3.80	7.4	2.2	2.7	9.3	35	0.5	0.5	0.6	78	0.46	0.102



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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	1DX15
		La	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	ppm
		1	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
1083179	Soil	13	31	0.52	156	0.083	<1	1.74	0.013	0.06	0.2	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
1083180	Soil	42	21	0.35	68	0.061	<1	1.10	0.012	0.08	0.2	0.04	2.2	0.1	<0.05	4	<0.5	<0.2
1083181	Soil	12	28	0.44	72	0.064	<1	1.51	0.010	0.04	0.5	0.03	2.0	0.1	<0.05	6	<0.5	<0.2
1083182	Soil	26	28	0.45	92	0.079	1	1.65	0.012	0.05	0.6	0.05	2.3	<0.1	<0.05	5	<0.5	<0.2
1083183	Soil	53	23	0.38	82	0.077	1	1.30	0.013	0.07	0.8	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
1083184	Soil	50	18	0.26	73	0.068	<1	1.10	0.010	0.05	0.7	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1083178	Soil	13	29	0.41	90	0.050	<1	1.46	0.010	0.05	0.2	0.03	1.8	0.1	<0.05	6	<0.5	<0.2
1083185	Soil	19	21	0.33	68	0.053	<1	1.19	0.012	0.07	0.8	0.02	2.0	0.2	<0.05	4	<0.5	<0.2
1083186	Soil	15	29	0.54	81	0.095	<1	1.27	0.015	0.13	0.4	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
1083187	Soil	14	22	0.34	62	0.079	<1	0.95	0.013	0.07	0.3	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
1083188	Soil	10	30	0.48	113	0.074	<1	1.31	0.011	0.10	0.3	0.03	2.6	0.3	<0.05	6	<0.5	<0.2
1083189	Soil	10	26	0.42	130	0.069	<1	1.07	0.012	0.11	0.5	0.02	2.9	0.2	<0.05	4	<0.5	<0.2
1083190	Soil	7	26	0.34	80	0.054	<1	1.06	0.010	0.05	0.3	0.04	1.7	<0.1	<0.05	6	0.5	<0.2
1083191	Soil	9	25	0.41	84	0.078	<1	1.18	0.016	0.07	0.6	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
1083192	Soil	12	31	0.46	94	0.082	<1	1.33	0.012	0.10	0.9	0.02	3.0	0.1	<0.05	5	0.5	<0.2
1083194	Soil	12	39	0.50	148	0.080	<1	1.65	0.016	0.13	3.9	0.01	3.2	0.2	<0.05	5	1.5	0.6
1083193	Soil	13	42	0.53	150	0.087	<1	1.74	0.017	0.14	3.9	0.02	3.7	0.2	<0.05	6	1.8	0.8
1081854	Soil	11	34	0.55	78	0.071	<1	1.82	0.011	0.05	0.2	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
1081855	Soil	11	32	0.68	80	0.094	2	1.89	0.014	0.06	0.3	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
1081851	Soil	18	41	0.92	79	0.108	2	1.74	0.018	0.12	0.3	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
1081856	Soil	11	35	0.70	89	0.102	5	1.89	0.014	0.06	0.4	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
1081852	Soil	5	16	0.29	49	0.054	3	0.75	0.015	0.04	0.2	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
1081857	Soil	55	50	0.97	136	0.124	<1	2.91	0.017	0.10	0.9	0.04	4.7	0.2	<0.05	8	<0.5	<0.2
1081858	Soil	11	33	0.74	70	0.098	2	1.86	0.015	0.08	0.7	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
1081861	Soil	5	15	0.27	37	0.072	1	0.72	0.015	0.03	0.2	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
1081862	Soil	6	17	0.32	41	0.060	3	0.83	0.014	0.03	0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
1081859	Soil	11	47	0.79	74	0.138	1	1.95	0.018	0.10	0.4	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
1081853	Soil	16	35	0.67	89	0.086	3	2.07	0.011	0.06	0.3	0.03	2.5	0.1	<0.05	6	<0.5	<0.2
1081860	Soil	14	39	0.78	100	0.119	1	1.88	0.016	0.07	0.3	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
1081877	Soil	25	65	1.46	106	0.138	1	2.39	0.015	0.24	0.2	0.02	3.5	0.3	<0.05	11	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000619.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1083058	Soil	0.9	12.8	25.1	110	<0.1	14.1	4.6	643	2.04	4.2	5.6	1.5	9.8	75	0.4	0.2	0.9	27	0.25	0.040
REP 1083058	QC	1.0	12.9	25.4	111	<0.1	14.0	4.8	651	2.01	4.1	5.4	1.0	9.3	75	0.4	0.2	0.8	28	0.25	0.041
1083065	Soil	1.8	34.1	51.2	192	0.2	29.4	10.7	471	2.97	9.1	1.2	6.4	4.2	20	0.8	0.6	0.6	61	0.22	0.034
REP 1083065	QC	1.8	33.8	51.6	189	0.2	30.3	10.5	469	2.99	9.2	1.2	2.1	4.2	20	0.9	0.6	0.6	62	0.22	0.033
1004378	Soil	1.2	26.3	21.5	85	0.2	25.9	10.1	388	2.75	9.9	1.1	2.9	4.8	13	0.5	0.3	0.4	59	0.19	0.032
REP 1004378	QC	1.2	25.8	21.6	86	0.2	25.6	9.7	380	2.69	9.6	1.2	0.5	5.5	13	0.5	0.4	0.5	57	0.18	0.030
1080486	Soil	1.8	38.3	556.7	775	2.0	45.8	12.3	2587	2.80	9.0	1.4	<0.5	1.4	38	9.8	0.5	1.3	197	0.79	0.137
REP 1080486	QC	1.8	37.3	556.9	766	2.1	43.6	11.9	2551	2.72	8.7	1.4	1.9	1.3	37	9.8	0.4	1.3	194	0.77	0.135
1081574	Soil	5.0	29.9	19.1	65	0.1	17.3	7.0	418	2.69	10.5	1.2	1.4	2.2	18	0.2	0.5	0.7	60	0.18	0.051
REP 1081574	QC	4.7	29.7	18.4	65	0.1	18.3	6.9	416	2.73	9.9	1.2	1.8	2.1	17	0.3	0.5	0.6	58	0.16	0.052
1081584	Soil	0.7	20.2	16.4	57	<0.1	23.1	9.9	404	2.36	5.0	1.2	<0.5	7.1	15	0.2	0.2	0.4	43	0.21	0.056
REP 1081584	QC	0.5	20.0	15.9	56	<0.1	22.9	10.0	420	2.44	4.8	1.4	2.2	8.1	14	0.3	0.2	0.4	47	0.21	0.056
1003979	Soil	4.0	32.8	33.3	229	<0.1	24.4	9.6	446	3.71	13.6	0.9	1.8	3.1	14	0.3	0.6	0.3	90	0.16	0.034
REP 1003979	QC	4.0	32.2	32.0	220	<0.1	24.0	9.8	441	3.62	12.9	1.0	1.1	3.5	13	0.6	0.6	0.3	87	0.15	0.035
1083170	Soil	10.8	52.3	16.1	183	0.2	16.3	8.2	619	2.40	3.0	5.9	8.6	9.2	15	0.9	0.3	0.6	53	0.23	0.065
REP 1083170	QC	11.7	53.5	16.0	186	0.1	17.4	8.3	628	2.43	3.1	6.1	13.2	9.6	15	0.9	0.3	0.6	53	0.23	0.067
1083171	Soil	5.4	48.3	13.9	99	0.2	13.5	7.2	351	2.07	3.8	3.2	4.0	2.6	14	0.3	0.3	0.5	48	0.16	0.045
REP 1083171	QC	5.2	48.8	14.0	102	0.2	14.0	7.6	364	2.15	3.8	3.3	2.8	2.9	15	0.3	0.3	0.5	50	0.17	0.048
1083176	Soil	2.2	24.4	13.6	179	<0.1	16.5	8.1	478	2.27	4.1	3.6	4.6	6.2	19	0.8	0.3	0.3	49	0.28	0.085
REP 1083176	QC	2.3	24.8	13.9	186	<0.1	18.0	8.5	495	2.35	4.3	3.8	6.5	6.4	19	0.8	0.3	0.3	51	0.30	0.086
1083185	Soil	7.1	126.7	14.7	244	0.3	20.6	9.0	325	2.46	5.0	2.8	2.6	4.4	14	1.8	0.3	1.5	52	0.19	0.061
REP 1083185	QC	7.1	126.0	14.3	238	0.3	20.1	8.8	324	2.41	4.6	2.7	5.7	4.5	14	1.7	0.3	1.1	51	0.19	0.061
1081854	Soil	1.3	25.5	14.2	76	<0.1	26.2	9.7	378	2.86	7.1	0.9	1.4	2.9	14	0.1	0.5	0.2	61	0.16	0.039
REP 1081854	QC	1.4	25.5	14.0	78	<0.1	26.1	9.7	390	2.95	7.4	0.9	1.4	3.0	15	0.2	0.4	0.2	61	0.17	0.040
1081856	Soil	0.6	24.0	20.2	67	<0.1	30.2	10.8	434	2.41	5.8	1.0	1.9	5.3	17	0.3	0.3	0.3	51	0.18	0.036
REP 1081856	QC	0.7	23.9	20.5	67	<0.1	30.4	11.2	442	2.41	5.8	1.0	2.0	5.3	17	0.3	0.3	0.3	53	0.18	0.036
Reference Materials																					
STD DS8	Standard	13.5	107.4	124.4	308	1.8	36.5	7.6	596	2.42	26.6	2.8	117.1	7.0	58	2.4	4.9	5.5	42	0.69	0.080



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Project:

MRS

Report Date:

August 09, 2011

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Part 2

QUALITY CONTROL REPORT

WHI11000619.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	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	ppm
		1	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																		
1083058	Soil	66	16	0.42	61	0.038	<1	1.40	0.010	0.11	1.0	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
REP 1083058	QC	66	17	0.41	60	0.038	<1	1.37	0.010	0.10	1.1	0.01	1.8	0.2	<0.05	5	<0.5	<0.2
1083065	Soil	11	30	0.57	111	0.080	1	1.85	0.012	0.05	0.3	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
REP 1083065	QC	11	31	0.58	115	0.083	1	1.88	0.012	0.05	0.3	0.03	2.4	0.1	<0.05	7	<0.5	<0.2
1004378	Soil	10	30	0.55	93	0.075	2	1.70	0.013	0.06	0.4	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
REP 1004378	QC	10	29	0.51	92	0.070	<1	1.62	0.011	0.05	0.3	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
1080486	Soil	12	40	1.53	2240	0.049	2	2.14	0.019	0.09	0.7	0.09	2.6	0.5	<0.05	6	<0.5	<0.2
REP 1080486	QC	12	39	1.51	2203	0.050	2	2.11	0.019	0.09	0.6	0.11	2.6	0.5	<0.05	6	<0.5	<0.2
1081574	Soil	12	26	0.38	132	0.074	<1	1.59	0.011	0.05	0.6	0.02	1.8	0.1	<0.05	7	<0.5	<0.2
REP 1081574	QC	12	26	0.37	126	0.070	1	1.56	0.011	0.05	0.6	0.01	1.7	0.1	<0.05	7	<0.5	<0.2
1081584	Soil	14	30	0.56	74	0.075	<1	1.46	0.009	0.09	1.1	<0.01	2.3	0.2	<0.05	5	0.5	<0.2
REP 1081584	QC	13	31	0.56	70	0.078	2	1.47	0.009	0.09	1.2	<0.01	2.3	0.1	<0.05	5	<0.5	<0.2
1003979	Soil	9	34	0.44	85	0.074	1	1.70	0.009	0.05	0.3	0.03	3.2	<0.1	<0.05	7	0.9	<0.2
REP 1003979	QC	9	32	0.44	82	0.070	<1	1.68	0.008	0.05	0.2	0.04	3.0	<0.1	<0.05	7	0.6	<0.2
1083170	Soil	60	24	0.36	76	0.083	<1	1.43	0.010	0.05	0.4	0.02	3.2	<0.1	<0.05	4	<0.5	0.3
REP 1083170	QC	60	23	0.36	74	0.084	<1	1.49	0.010	0.05	0.4	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
1083171	Soil	27	19	0.31	70	0.059	<1	0.98	0.013	0.03	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1083171	QC	27	20	0.33	69	0.064	<1	1.02	0.013	0.03	0.2	0.05	1.7	<0.1	<0.05	4	<0.5	<0.2
1083176	Soil	33	24	0.40	101	0.083	<1	1.39	0.017	0.06	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
REP 1083176	QC	35	25	0.42	104	0.086	<1	1.41	0.013	0.06	0.3	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
1083185	Soil	19	21	0.33	68	0.053	<1	1.19	0.012	0.07	0.8	0.02	2.0	0.2	<0.05	4	<0.5	<0.2
REP 1083185	QC	19	20	0.32	66	0.050	<1	1.16	0.011	0.07	0.8	0.03	1.9	0.2	<0.05	4	<0.5	<0.2
1081854	Soil	11	34	0.55	78	0.071	<1	1.82	0.011	0.05	0.2	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
REP 1081854	QC	11	34	0.56	81	0.073	1	1.87	0.011	0.05	0.2	0.05	2.2	<0.1	<0.05	7	<0.5	<0.2
1081856	Soil	11	35	0.70	89	0.102	5	1.89	0.014	0.06	0.4	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
REP 1081856	QC	11	35	0.71	87	0.105	5	1.83	0.012	0.06	0.4	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	113	0.61	278	0.107	3	0.91	0.088	0.41	3.1	0.20	2.0	5.5	0.13	5	6.0	5.0



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Part 1

QUALITY CONTROL REPORT

WHI11000619.1

		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 U ppm 0.1	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	1DX15 P % 0.001
STD DS8	Standard	12.9	106.5	119.4	299	1.7	37.0	7.7	573	2.37	24.7	2.7	105.5	7.1	63	2.2	5.3	6.6	42	0.66	0.081
STD DS8	Standard	13.0	105.0	123.3	311	1.7	35.9	7.2	600	2.41	25.4	2.8	123.0	7.1	66	2.2	5.4	6.6	42	0.70	0.078
STD DS8	Standard	12.5	101.5	122.0	294	1.6	35.9	7.6	560	2.25	24.6	2.7	100.3	6.8	63	2.3	5.1	6.3	38	0.63	0.073
STD DS8	Standard	12.5	108.0	122.7	314	1.8	36.6	7.3	613	2.48	27.4	2.7	110.1	6.7	64	2.5	5.6	6.8	41	0.68	0.082
STD DS8	Standard	13.5	110.5	126.0	318	1.8	38.3	7.7	613	2.46	26.7	2.8	110.5	7.0	57	2.5	4.5	5.5	43	0.70	0.085
STD DS8	Standard	12.9	112.9	130.6	322	1.9	40.0	7.8	600	2.59	27.0	2.6	118.0	6.8	67	2.2	5.4	6.0	48	0.73	0.082
STD DS8	Standard	13.6	105.5	131.4	311	1.9	37.5	7.5	637	2.48	25.6	2.7	105.4	6.9	70	2.3	5.6	6.4	45	0.68	0.081
STD DS8	Standard	11.0	109.4	119.0	296	1.6	37.6	7.4	564	2.33	23.5	2.6	103.1	6.2	62	2.2	5.7	6.3	39	0.61	0.074
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	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	<0.1	<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	<0.1	<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	<0.1	<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	0.03	<0.5	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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

WHI11000619.1

		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 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS8	Standard	14	112	0.58	271	0.109	2	0.89	0.087	0.40	2.9	0.20	2.2	5.2	0.15	4	5.1	4.7
STD DS8	Standard	15	117	0.60	272	0.115	2	0.91	0.090	0.42	2.8	0.19	2.4	5.5	0.12	5	4.9	5.2
STD DS8	Standard	14	110	0.56	252	0.113	2	0.85	0.078	0.39	2.9	0.19	1.9	5.3	0.14	4	5.5	4.6
STD DS8	Standard	14	113	0.61	280	0.113	3	0.90	0.082	0.41	3.1	0.19	2.2	5.4	0.14	5	5.7	4.9
STD DS8	Standard	14	118	0.62	284	0.107	3	0.92	0.091	0.42	3.2	0.22	2.0	5.3	0.14	5	5.0	4.9
STD DS8	Standard	15	117	0.55	281	0.118	3	0.97	0.089	0.42	3.1	0.21	2.4	5.5	0.13	5	4.7	5.0
STD DS8	Standard	14	117	0.62	289	0.111	2	0.91	0.099	0.42	3.1	0.21	2.0	5.5	0.18	5	5.5	4.8
STD DS8	Standard	12	115	0.56	241	0.113	2	0.83	0.077	0.38	2.6	0.18	1.9	5.0	0.16	4	4.7	4.9
STD DS8 Expected		14.6	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	<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	<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	<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	<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	<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	<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	<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	<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	<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: Mike Skead

Receiving Lab: Canada-Whitehorse

Received: July 15, 2011

Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

WHI11000704.1

CLIENT JOB INFORMATION

Project: MRS
Shipment ID:
P.O. Number
Number of Samples: 190

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Ian Gendall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	190	Dry at 60C			VAN
SS80	190	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	190	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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Part 1

CERTIFICATE OF ANALYSIS

WHI11000704.1

	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	U	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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1081876	Soil	1.1	28.3	28.1	101	0.3	40.2	15.6	700	3.30	7.3	1.5	2.5	3.7	32	0.3	0.3	0.4	68	0.42	0.079
1081878	Soil	1.1	28.6	31.6	85	0.3	28.1	11.6	640	2.41	6.3	1.8	2.6	2.8	34	0.5	0.4	0.4	47	0.50	0.079
1081875	Soil	0.9	22.7	18.9	88	0.2	38.6	12.2	480	2.86	6.1	1.2	5.2	5.4	20	0.6	0.3	0.2	61	0.31	0.076
1081879	Soil	0.7	17.7	6.0	35	0.1	8.8	4.4	114	1.18	3.1	0.5	2.2	0.5	14	0.4	0.2	0.1	35	0.22	0.052
1081880	Soil	0.4	20.3	5.0	23	<0.1	8.9	4.1	119	0.75	2.5	1.3	2.0	0.7	19	<0.1	0.1	<0.1	19	0.21	0.041
1081882	Soil	1.2	27.4	11.2	64	<0.1	26.9	10.1	382	2.89	7.3	0.8	2.2	2.6	16	0.2	0.4	0.2	62	0.22	0.065
1081881	Soil	1.7	22.9	12.9	67	0.1	22.9	8.5	319	2.50	6.9	1.6	3.1	1.5	18	0.4	0.4	0.2	58	0.20	0.061
1081883	Soil	1.5	24.1	16.7	57	<0.1	26.9	9.5	211	2.77	7.4	0.9	3.2	5.0	13	0.3	0.3	0.2	63	0.20	0.052
1081884	Soil	1.1	23.5	21.6	80	0.1	26.2	9.4	340	2.42	5.6	1.0	1.6	3.2	17	0.3	0.3	0.2	60	0.27	0.064
1081866	Soil	2.5	36.6	21.8	97	<0.1	30.1	11.9	550	3.73	11.4	0.8	3.7	1.4	15	0.2	0.8	0.3	78	0.14	0.047
1081864	Soil	1.8	26.8	29.2	78	0.2	25.6	9.6	390	2.86	7.9	0.9	3.2	1.0	16	0.3	0.6	0.4	65	0.16	0.052
1081863	Soil	0.9	24.6	20.8	69	0.1	34.7	12.4	427	2.90	7.4	0.9	1.4	4.7	16	0.4	0.3	0.3	61	0.23	0.053
1081867	Soil	0.8	24.0	50.4	74	0.1	36.6	12.0	529	2.83	6.3	0.8	1.9	4.6	15	0.2	0.3	0.5	64	0.21	0.036
1081865	Soil	0.5	13.6	4.0	25	<0.1	6.5	3.9	106	1.11	2.0	0.3	0.6	0.3	9	<0.1	0.2	<0.1	38	0.09	0.034
1081868	Soil	2.4	34.9	18.9	98	<0.1	31.3	11.9	634	3.78	12.7	0.9	3.6	1.5	17	0.1	0.8	0.4	73	0.18	0.068
1081869	Soil	0.7	14.5	39.8	92	0.1	48.7	15.5	667	3.45	7.6	1.7	1.7	10.4	21	0.6	0.2	0.5	61	0.35	0.098
1081871	Soil	0.8	19.9	48.4	103	0.4	19.7	8.0	356	2.34	4.8	1.6	1.1	2.1	20	1.1	0.3	0.6	51	0.30	0.079
1081874	Soil	0.3	11.5	13.5	25	0.4	4.9	3.4	109	0.91	1.2	0.5	<0.5	0.5	10	0.3	0.1	0.2	32	0.13	0.039
1081870	Soil	1.4	22.6	20.6	76	<0.1	30.3	10.2	369	2.93	7.8	0.9	1.6	3.0	15	0.3	0.4	0.3	64	0.21	0.053
1081872	Soil	0.9	25.5	169.0	173	1.3	37.5	13.4	674	3.23	7.2	1.8	1.7	6.7	22	1.8	0.3	1.8	69	0.33	0.082
1081873	Soil	0.5	18.9	48.2	58	0.5	11.3	6.0	239	1.37	3.3	0.8	1.4	1.1	13	0.3	0.2	0.4	41	0.18	0.063
1006753	Soil	6.5	101.7	35.9	213	2.5	103.6	18.6	944	3.40	49.1	4.7	4.5	0.5	32	1.2	1.0	0.3	323	0.38	0.219
1006752	Soil	2.5	38.2	21.7	109	0.2	31.1	13.3	625	3.60	13.9	0.8	2.6	1.0	16	0.5	0.7	0.3	80	0.19	0.087
1006763	Soil	1.7	26.5	28.0	45	0.3	10.2	4.2	70	1.27	4.8	0.6	0.8	<0.1	10	0.4	0.4	0.2	45	0.10	0.056
1006766	Soil	6.5	43.9	17.4	71	0.4	23.3	5.9	131	2.33	19.7	1.8	2.7	0.1	15	0.6	0.9	0.3	107	0.16	0.099
1006765	Soil	2.7	42.0	15.8	47	0.5	15.8	4.6	81	1.56	17.2	0.9	3.1	0.1	16	0.2	0.8	0.2	49	0.16	0.109
1006755	Soil	4.0	47.4	38.3	117	0.3	36.9	13.9	670	3.47	33.4	1.6	4.7	0.9	23	0.7	1.1	0.3	86	0.14	0.081
1006756	Soil	1.8	95.8	1478	1177	3.1	47.9	15.9	820	3.48	1699	1.7	11.6	4.8	26	8.7	1.5	1.3	63	0.23	0.079
1006757	Soil	2.8	49.5	586.3	206	1.2	22.8	11.0	815	2.75	63.0	1.0	1.3	0.9	28	2.2	1.1	0.6	56	0.17	0.091
1006764	Soil	0.1	8.2	2.9	19	0.1	2.3	2.9	53	0.97	2.0	<0.1	1.1	<0.1	7	<0.1	<0.1	<0.1	39	0.08	0.028



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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
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	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
1081876	Soil	17	51	1.14	97	0.108	2	2.13	0.019	0.16	0.2	0.04	2.7	0.3	<0.05	9	<0.5
1081878	Soil	32	34	0.64	97	0.064	3	1.60	0.022	0.10	0.2	0.04	2.0	0.2	<0.05	7	<0.5
1081875	Soil	14	44	0.90	90	0.111	3	1.92	0.013	0.14	0.2	0.06	2.3	0.2	<0.05	8	<0.5
1081879	Soil	9	12	0.17	40	0.045	2	0.65	0.019	0.04	<0.1	0.06	0.6	<0.1	<0.05	3	<0.5
1081880	Soil	10	10	0.22	56	0.032	1	0.88	0.027	0.03	0.1	0.01	0.7	<0.1	<0.05	3	<0.5
1081882	Soil	11	30	0.50	98	0.104	3	1.91	0.012	0.07	0.3	0.03	2.2	0.1	<0.05	7	<0.5
1081881	Soil	12	29	0.46	74	0.072	2	1.39	0.011	0.07	0.3	0.03	1.5	0.1	<0.05	6	0.5
1081883	Soil	10	35	0.49	67	0.134	<1	2.10	0.010	0.06	0.4	0.04	2.3	0.1	<0.05	7	<0.5
1081884	Soil	10	31	0.54	80	0.119	1	1.42	0.013	0.09	0.2	0.02	1.9	0.1	<0.05	7	<0.5
1081866	Soil	10	37	0.53	86	0.080	2	1.79	0.009	0.06	0.2	0.04	2.0	0.2	<0.05	8	<0.5
1081864	Soil	9	32	0.46	78	0.061	2	1.56	0.010	0.04	0.2	0.03	1.5	0.1	<0.05	7	<0.5
1081863	Soil	12	42	0.82	83	0.114	3	2.23	0.011	0.07	0.3	0.02	2.7	0.2	<0.05	7	<0.5
1081867	Soil	11	39	0.74	104	0.122	1	2.08	0.015	0.10	0.2	0.02	2.9	0.2	<0.05	7	<0.5
1081865	Soil	3	8	0.15	26	0.055	<1	0.52	0.013	0.02	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5
1081868	Soil	11	37	0.54	93	0.052	1	1.73	0.009	0.08	0.2	0.04	2.0	0.2	<0.05	8	0.6
1081869	Soil	33	53	1.33	98	0.120	1	2.14	0.012	0.24	0.2	<0.01	3.4	0.3	<0.05	9	<0.5
1081871	Soil	21	24	0.42	54	0.056	<1	1.24	0.016	0.05	0.2	0.03	2.1	0.1	0.06	5	<0.5
1081874	Soil	10	7	0.14	24	0.052	1	0.46	0.017	0.03	<0.1	0.01	0.5	<0.1	<0.05	2	<0.5
1081870	Soil	11	37	0.58	70	0.089	1	1.61	0.010	0.07	0.2	0.02	2.2	0.1	<0.05	8	<0.5
1081872	Soil	20	46	1.01	94	0.110	2	2.21	0.014	0.11	0.3	0.05	3.6	0.2	<0.05	8	<0.5
1081873	Soil	13	14	0.25	37	0.056	<1	0.85	0.015	0.03	0.1	0.03	1.1	<0.1	<0.05	4	<0.5
1006753	Soil	11	96	0.47	204	0.034	<1	1.67	0.012	0.18	0.4	0.14	1.5	0.3	0.12	8	1.9
1006752	Soil	9	38	0.68	168	0.084	<1	1.90	0.013	0.12	0.3	0.06	2.3	0.3	0.05	8	0.6
1006763	Soil	4	12	0.12	48	0.033	<1	0.62	0.011	0.03	0.2	0.05	0.6	<0.1	<0.05	3	0.7
1006766	Soil	7	26	0.19	131	0.027	<1	0.82	0.010	0.06	0.3	0.09	0.6	0.1	0.09	5	1.1
1006765	Soil	6	17	0.12	83	0.026	<1	0.74	0.008	0.05	0.4	0.10	0.7	<0.1	0.13	4	0.9
1006755	Soil	10	38	0.57	326	0.049	<1	1.95	0.012	0.08	0.3	0.06	1.9	0.3	0.07	7	1.0
1006756	Soil	13	28	0.48	2912	0.065	<1	1.70	0.016	0.11	0.9	0.03	2.6	0.1	0.06	5	3.5
1006757	Soil	8	24	0.30	>10000	0.042	1	1.57	0.016	0.14	0.2	0.08	1.6	0.1	<0.05	5	1.8
1006764	Soil	1	4	0.07	12	0.058	<1	0.21	0.015	0.01	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5



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Part 1

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	U	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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1006760	Soil	2.9	66.9	71.6	390	1.3	39.1	18.8	1412	3.13	33.6	1.6	3.4	1.0	36	9.6	0.8	0.3	79	0.62	0.126
1006762	Soil	3.1	40.3	394.1	379	0.7	19.1	9.0	542	2.66	14.3	0.7	4.3	0.3	17	1.4	0.8	1.0	62	0.21	0.096
1006754	Soil	2.9	40.7	26.3	96	0.2	27.8	13.6	847	3.85	23.9	1.1	4.6	0.4	21	0.4	1.1	0.3	87	0.23	0.127
1006770	Soil	2.8	96.7	19.3	167	0.5	54.8	24.3	623	3.75	22.2	2.5	10.7	1.6	23	1.1	0.4	0.2	77	0.22	0.070
1006771	Soil	1.7	67.6	15.3	107	0.5	40.4	14.7	438	3.28	20.9	1.4	5.7	2.6	30	0.7	0.4	0.2	73	0.33	0.070
1006774	Soil	2.0	26.1	12.6	45	0.2	13.4	4.6	75	1.84	5.9	0.7	1.6	0.3	14	0.3	0.6	0.2	55	0.15	0.058
1006758	Soil	2.1	63.2	235.1	428	0.5	33.7	14.6	777	3.30	37.9	1.3	4.4	3.1	19	1.6	0.7	0.5	74	0.24	0.071
1006759	Soil	2.2	59.4	236.9	415	0.5	31.9	14.3	750	3.20	36.6	1.3	2.3	2.8	19	1.5	0.6	0.5	73	0.24	0.069
1006767	Soil	4.1	111.8	19.4	129	0.6	34.6	9.8	448	4.25	15.6	2.5	7.9	1.6	18	0.5	0.4	0.3	139	0.18	0.070
1006768	Soil	4.2	107.2	20.3	124	0.5	32.9	9.4	430	4.29	15.3	2.5	7.6	1.8	17	0.6	0.4	0.3	144	0.15	0.068
1006773	Soil	1.3	28.6	16.3	83	0.1	18.9	8.7	322	2.02	8.8	0.7	3.4	0.5	23	0.5	0.5	0.2	49	0.38	0.058
1006772	Soil	1.7	92.8	21.7	607	0.6	48.1	18.7	913	3.72	28.7	3.0	7.6	4.3	57	2.8	0.4	1.0	91	1.63	0.165
1006761	Soil	5.9	127.4	966.3	4029	1.8	29.3	17.2	878	4.09	30.1	1.2	10.1	2.1	22	10.7	1.3	1.8	82	0.36	0.106
1006775	Soil	1.5	26.2	17.7	46	0.1	10.5	5.7	109	2.38	5.3	0.6	1.1	0.3	11	0.2	0.3	0.2	73	0.13	0.044
1006769	Soil	9.5	148.6	22.2	139	1.5	29.0	7.7	190	8.52	8.0	2.9	16.1	2.6	41	0.5	0.3	0.2	125	0.13	0.121
1006776	Soil	4.7	45.0	117.3	182	0.5	21.7	7.7	267	3.13	18.8	1.2	7.2	0.6	18	1.0	1.1	0.8	105	0.18	0.077
1006778	Soil	14.1	64.1	96.5	850	0.5	37.6	8.4	621	2.70	41.2	6.4	5.2	11.2	21	3.8	0.7	1.3	94	0.38	0.091
1006781	Soil	0.2	11.3	1.8	23	<0.1	2.9	3.4	71	1.34	0.5	0.1	<0.5	<0.1	11	<0.1	<0.1	<0.1	46	0.15	0.048
1006780	Soil	0.5	13.3	6.1	38	0.1	4.2	4.3	81	1.72	1.3	0.5	2.7	0.5	11	0.2	<0.1	0.1	58	0.14	0.045
1006779	Soil	0.2	17.9	1.8	24	<0.1	3.0	3.9	92	1.28	0.7	0.1	<0.5	0.3	12	<0.1	<0.1	<0.1	43	0.17	0.056
1006782	Soil	3.9	42.0	34.1	516	0.7	5.6	2.2	532	2.02	15.0	10.1	3.0	31.5	9	1.1	0.2	30.9	25	0.14	0.018
1006777	Soil	0.7	20.9	13.1	192	0.1	7.3	4.0	194	0.85	4.0	1.4	0.7	1.3	14	0.6	0.1	0.2	25	0.19	0.045
1081378	Soil	4.5	46.8	8.3	83	<0.1	21.4	8.5	282	2.73	3.0	1.5	1.3	6.6	13	0.2	0.2	0.7	50	0.17	0.041
1081374	Soil	1.7	34.6	7.0	114	<0.1	24.8	10.3	401	2.75	5.5	1.3	2.3	5.1	16	0.3	0.3	0.3	59	0.24	0.037
1081376	Soil	3.3	47.3	11.4	195	<0.1	21.8	10.5	475	2.82	6.2	1.3	5.4	6.4	14	0.7	0.3	0.5	46	0.23	0.059
1081377	Soil	3.8	48.7	12.1	152	<0.1	27.3	12.7	502	3.28	6.3	1.4	1.9	5.0	15	0.5	0.3	0.4	63	0.18	0.058
1081372	Soil	1.4	29.8	8.7	97	<0.1	17.0	7.1	252	2.20	4.6	3.3	3.7	5.6	21	0.3	0.2	1.0	53	0.30	0.065
1081375	Soil	1.6	37.6	6.7	134	<0.1	23.8	10.2	399	2.73	5.3	0.9	21.6	5.5	15	0.6	0.3	0.3	59	0.23	0.033
1081371	Soil	8.5	198.5	16.8	118	1.3	25.3	8.7	199	3.78	7.3	4.0	6.6	4.1	28	0.4	0.3	24.3	120	0.34	0.165
1081373	Soil	3.8	35.6	13.6	179	<0.1	12.0	4.9	270	1.89	6.1	3.4	2.2	10.5	15	1.3	0.2	0.3	38	0.24	0.049



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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	1DX15
		La	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	ppm
		1	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
1006760	Soil	12	32	0.63	434	0.042	<1	1.57	0.020	0.08	1.5	0.08	2.4	0.2	0.08	6	0.8	<0.2
1006762	Soil	6	22	0.38	201	0.046	1	1.30	0.015	0.06	0.5	0.07	1.2	0.2	0.06	6	0.9	<0.2
1006754	Soil	9	29	0.55	181	0.061	<1	2.52	0.010	0.08	0.5	0.11	1.6	0.5	0.09	9	1.3	<0.2
1006770	Soil	15	41	0.77	105	0.087	<1	2.24	0.016	0.12	0.5	0.05	2.9	0.3	0.06	7	1.0	<0.2
1006771	Soil	13	39	0.66	152	0.115	1	1.96	0.018	0.13	0.5	0.04	3.6	0.2	0.05	7	0.7	<0.2
1006774	Soil	5	17	0.17	68	0.043	<1	0.76	0.011	0.03	0.2	0.07	1.0	<0.1	0.05	4	0.7	<0.2
1006758	Soil	15	34	0.63	2091	0.077	1	1.73	0.014	0.10	0.5	0.02	2.9	0.2	0.06	6	0.8	<0.2
1006759	Soil	14	33	0.60	1951	0.078	<1	1.71	0.014	0.10	0.4	0.04	2.8	0.2	0.06	6	0.6	<0.2
1006767	Soil	13	38	0.63	179	0.082	1	1.99	0.010	0.15	0.4	0.05	2.3	0.2	0.16	8	1.4	0.3
1006768	Soil	12	38	0.62	176	0.080	1	1.92	0.010	0.15	0.4	0.06	2.3	0.2	0.14	8	0.7	<0.2
1006773	Soil	7	25	0.33	101	0.049	<1	1.07	0.025	0.06	0.3	0.15	1.6	0.1	0.09	4	<0.5	<0.2
1006772	Soil	15	45	0.93	173	0.148	3	2.20	0.071	0.22	0.6	0.08	4.2	0.4	0.11	8	1.3	<0.2
1006761	Soil	12	28	0.69	344	0.081	2	2.59	0.015	0.09	2.0	0.08	3.7	0.3	0.09	6	2.8	0.5
1006775	Soil	4	15	0.16	39	0.066	<1	0.69	0.015	0.03	0.1	0.04	0.9	<0.1	0.06	4	<0.5	<0.2
1006769	Soil	9	62	1.06	137	0.115	<1	3.50	0.030	0.29	0.5	0.06	14.0	0.4	0.28	12	5.8	0.4
1006776	Soil	8	31	0.33	552	0.064	1	1.30	0.011	0.08	0.5	0.08	1.9	0.2	0.11	8	1.1	<0.2
1006778	Soil	19	24	0.54	150	0.049	<1	1.08	0.014	0.11	3.2	0.04	2.1	0.2	<0.05	5	1.2	<0.2
1006781	Soil	3	4	0.09	26	0.056	<1	0.27	0.022	0.03	<0.1	0.01	0.3	<0.1	<0.05	2	<0.5	<0.2
1006780	Soil	3	7	0.10	22	0.066	<1	0.33	0.020	0.02	0.1	0.03	0.5	<0.1	<0.05	3	<0.5	<0.2
1006779	Soil	6	4	0.08	34	0.055	<1	0.35	0.037	0.05	<0.1	0.02	0.4	<0.1	<0.05	2	<0.5	<0.2
1006782	Soil	40	7	0.11	61	0.012	<1	0.59	0.009	0.07	0.9	0.01	0.8	<0.1	<0.05	3	1.0	2.3
1006777	Soil	8	7	0.14	70	0.038	<1	0.66	0.039	0.05	0.1	0.02	0.7	<0.1	<0.05	2	<0.5	<0.2
1081378	Soil	24	30	0.37	65	0.068	<1	1.74	0.011	0.16	0.5	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
1081374	Soil	16	32	0.55	88	0.107	1	1.96	0.016	0.12	0.4	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
1081376	Soil	18	26	0.37	72	0.063	<1	1.40	0.012	0.16	0.5	0.02	3.0	0.2	<0.05	5	<0.5	<0.2
1081377	Soil	21	39	0.59	90	0.089	1	2.28	0.014	0.18	0.4	0.04	4.0	0.3	<0.05	8	0.6	<0.2
1081372	Soil	18	27	0.35	92	0.094	<1	1.53	0.014	0.06	0.4	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
1081375	Soil	13	32	0.47	86	0.107	3	1.86	0.016	0.12	0.5	0.02	3.1	0.2	<0.05	6	0.6	<0.2
1081371	Soil	14	55	0.64	268	0.110	1	1.71	0.019	0.24	2.3	<0.01	4.8	0.5	0.08	6	1.5	1.5
1081373	Soil	32	21	0.28	53	0.076	<1	1.03	0.011	0.14	0.5	<0.01	2.6	0.3	<0.05	4	<0.5	<0.2



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Part 1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1081370	Soil	5.9	206.6	15.7	127	0.5	36.1	9.0	188	3.06	9.3	1.9	5.4	3.5	24	0.4	0.3	8.1	116	0.37	0.155
1081379	Soil	4.9	50.4	12.2	83	0.1	24.4	10.4	359	3.09	5.0	1.4	3.7	4.2	14	0.2	0.3	1.0	59	0.15	0.053
1081380	Soil	2.8	35.0	10.6	81	0.1	24.2	9.3	346	3.01	6.5	1.0	4.4	3.0	13	0.2	0.5	0.5	61	0.17	0.045
1081381	Soil	4.7	80.2	16.7	88	0.2	26.7	11.4	476	3.24	5.5	1.4	4.1	5.9	15	0.3	0.3	3.5	57	0.21	0.062
1081382	Soil	2.5	58.7	27.9	119	0.1	29.4	13.3	409	3.20	5.3	1.5	2.6	8.4	15	0.4	0.3	0.8	64	0.26	0.067
1081390	Soil	4.7	51.2	13.0	103	<0.1	26.2	14.0	457	3.04	4.7	1.4	2.8	5.0	17	0.4	0.3	0.5	53	0.19	0.053
1081387	Soil	12.1	46.5	49.3	158	0.2	29.6	14.5	715	3.58	5.6	2.1	3.4	9.9	15	0.5	0.3	0.7	57	0.22	0.066
1081385	Soil	2.6	34.3	16.3	97	0.1	25.4	10.2	525	3.26	8.2	1.0	2.1	1.5	16	0.4	0.7	0.5	60	0.17	0.073
1081388	Soil	7.3	37.0	35.3	146	0.2	26.8	11.9	500	3.00	5.5	1.5	2.7	8.3	15	0.4	0.2	0.9	54	0.24	0.055
1081389	Soil	4.5	41.0	21.5	124	<0.1	28.7	12.8	513	3.12	6.1	1.2	2.4	6.1	14	0.4	0.3	0.7	55	0.21	0.055
1081391	Soil	2.9	40.1	12.3	98	<0.1	28.4	13.2	449	3.29	5.4	1.5	2.4	7.5	13	0.3	0.3	0.5	53	0.16	0.046
1081392	Soil	2.9	40.8	13.2	99	<0.1	28.4	13.3	462	3.40	5.7	1.6	2.4	7.4	13	0.3	0.4	0.6	54	0.15	0.046
1081386	Soil	3.3	44.8	27.5	101	0.2	29.4	13.8	556	3.18	8.5	1.2	3.2	3.4	12	0.4	0.7	0.7	56	0.14	0.058
1081384	Soil	1.3	35.3	9.8	71	<0.1	25.5	11.0	355	2.78	6.2	1.0	<0.5	4.4	14	0.3	0.4	0.3	53	0.17	0.039
1081393	Soil	2.5	41.5	21.8	115	0.1	26.9	9.7	465	2.93	8.2	1.0	3.5	1.6	15	0.5	0.8	2.5	49	0.09	0.059
1081395	Soil	1.1	29.2	14.8	83	<0.1	26.6	11.2	391	2.62	5.6	0.7	1.3	4.9	12	0.3	0.3	0.6	52	0.16	0.039
1081398	Soil	1.0	40.3	43.4	119	0.1	27.5	12.3	405	2.71	4.9	1.3	2.8	6.5	16	0.4	0.3	2.0	56	0.22	0.068
1081394	Soil	1.8	43.2	15.5	95	<0.1	31.8	12.9	394	3.25	7.8	1.0	8.7	3.0	13	0.2	0.5	0.9	61	0.14	0.049
1081397	Soil	1.0	42.9	46.9	122	0.2	28.6	12.7	419	2.79	5.2	1.3	1.1	6.3	16	0.4	0.3	2.1	57	0.21	0.065
1081396	Soil	1.8	34.9	15.4	97	<0.1	25.1	9.4	353	2.87	7.5	0.7	<0.5	2.3	14	0.3	0.6	0.6	59	0.15	0.045
1081399	Soil	1.5	47.5	54.0	144	0.1	20.6	9.6	430	2.52	6.1	2.0	2.7	6.6	12	0.6	0.3	1.5	46	0.16	0.055
1086751	Soil	1.3	39.0	25.8	99	<0.1	19.7	9.6	356	2.46	4.6	1.1	1.5	6.0	12	0.4	0.2	1.0	42	0.14	0.043
1086753	Soil	3.7	49.9	21.8	109	<0.1	28.0	12.9	529	3.31	8.9	1.7	17.4	6.0	13	0.4	0.4	1.2	57	0.15	0.055
1081400	Soil	1.5	41.0	44.0	134	<0.1	25.9	11.9	382	2.84	5.9	1.1	1.2	5.1	11	0.4	0.3	2.3	49	0.12	0.039
1086752	Soil	2.2	45.2	18.2	87	0.1	23.0	10.1	374	2.66	6.4	1.3	<0.5	5.1	14	0.3	0.4	0.9	49	0.17	0.058
1086754	Soil	2.9	51.4	9.9	123	<0.1	24.0	11.4	395	2.98	7.7	0.9	7.8	2.5	13	0.4	0.5	2.4	56	0.18	0.059
1086171	Soil	2.5	42.8	11.1	84	<0.1	28.1	9.7	350	2.89	10.3	0.9	2.3	0.8	16	0.3	0.9	0.4	88	0.13	0.064
1086178	Soil	3.4	43.4	13.6	121	0.2	26.9	12.3	677	3.43	17.5	0.9	3.0	0.9	17	0.5	1.2	0.5	76	0.13	0.062
1086173	Soil	1.3	105.9	13.7	97	0.3	18.6	12.5	304	2.54	13.7	0.8	11.0	3.2	20	0.4	0.3	1.1	44	0.12	0.045
1086176	Soil	3.2	93.6	26.1	213	1.4	45.2	37.7	1307	3.32	28.8	1.1	4.7	3.3	27	0.7	0.4	1.0	57	0.15	0.068



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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	1DX15
		La	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	ppm
		1	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
1081370	Soil	13	44	0.62	201	0.095	1	1.72	0.015	0.16	4.8	0.03	4.0	0.3	<0.05	6	1.1	0.6
1081379	Soil	23	36	0.46	85	0.072	1	2.00	0.011	0.15	0.5	0.03	3.1	0.3	<0.05	7	<0.5	<0.2
1081380	Soil	16	35	0.53	69	0.084	1	1.95	0.010	0.12	0.3	0.04	3.0	0.2	<0.05	7	<0.5	<0.2
1081381	Soil	20	34	0.52	92	0.064	<1	2.08	0.011	0.14	0.4	0.02	3.6	0.3	<0.05	7	<0.5	<0.2
1081382	Soil	22	36	0.63	88	0.099	<1	2.11	0.012	0.16	0.5	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
1081390	Soil	20	29	0.51	58	0.063	1	1.73	0.013	0.15	0.4	0.03	3.0	0.3	<0.05	6	<0.5	<0.2
1081387	Soil	26	34	0.61	100	0.084	<1	2.12	0.013	0.25	0.6	0.03	4.9	0.4	<0.05	7	<0.5	<0.2
1081385	Soil	13	34	0.49	77	0.040	2	1.69	0.013	0.12	0.1	0.04	1.9	0.2	0.06	7	<0.5	<0.2
1081388	Soil	24	33	0.59	86	0.085	1	2.01	0.013	0.22	0.6	0.03	3.9	0.4	<0.05	7	0.5	<0.2
1081389	Soil	17	32	0.58	92	0.063	<1	2.10	0.013	0.12	1.1	0.03	3.1	0.3	<0.05	7	0.5	<0.2
1081391	Soil	24	35	0.62	80	0.066	<1	2.05	0.010	0.19	0.3	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
1081392	Soil	24	35	0.64	80	0.063	<1	2.08	0.010	0.19	0.3	0.01	3.7	0.4	<0.05	7	1.0	<0.2
1081386	Soil	14	36	0.61	65	0.066	2	1.89	0.009	0.14	0.3	0.08	2.6	0.2	0.09	7	<0.5	<0.2
1081384	Soil	12	30	0.54	79	0.086	2	1.71	0.013	0.10	0.3	0.03	2.7	0.1	0.05	6	<0.5	<0.2
1081393	Soil	12	29	0.42	66	0.034	1	1.44	0.008	0.09	0.3	0.05	1.7	0.1	0.07	6	<0.5	<0.2
1081395	Soil	11	35	0.55	70	0.092	2	1.69	0.011	0.12	0.3	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
1081398	Soil	18	37	0.59	67	0.110	<1	1.96	0.012	0.20	0.5	0.02	3.5	0.3	<0.05	7	<0.5	<0.2
1081394	Soil	12	34	0.50	94	0.066	<1	1.97	0.010	0.11	0.3	0.03	2.6	0.2	<0.05	7	<0.5	<0.2
1081397	Soil	18	38	0.62	69	0.112	1	2.00	0.012	0.21	0.5	0.02	3.9	0.3	<0.05	7	<0.5	<0.2
1081396	Soil	10	32	0.47	70	0.078	1	1.55	0.009	0.08	0.3	0.02	2.1	<0.1	<0.05	6	0.6	<0.2
1081399	Soil	23	26	0.39	68	0.070	1	1.48	0.010	0.11	0.6	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
1086751	Soil	17	25	0.37	57	0.069	<1	1.33	0.007	0.13	0.3	0.01	2.5	0.2	<0.05	5	<0.5	<0.2
1086753	Soil	22	36	0.55	102	0.063	2	2.17	0.010	0.17	0.6	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
1081400	Soil	15	32	0.47	67	0.077	2	1.70	0.009	0.18	0.4	0.03	2.8	0.2	<0.05	6	<0.5	0.3
1086752	Soil	17	30	0.44	67	0.067	<1	1.62	0.011	0.15	0.4	0.02	3.0	0.3	<0.05	5	<0.5	<0.2
1086754	Soil	11	27	0.47	74	0.089	2	1.61	0.011	0.08	1.0	0.05	2.5	0.1	<0.05	6	<0.5	<0.2
1086171	Soil	8	34	0.43	362	0.050	2	1.53	0.008	0.06	0.3	0.03	1.6	0.1	0.05	6	<0.5	<0.2
1086178	Soil	8	32	0.45	160	0.054	1	1.35	0.009	0.06	0.2	0.05	1.9	<0.1	0.08	7	0.6	<0.2
1086173	Soil	10	20	0.34	105	0.078	<1	1.51	0.020	0.09	0.4	0.02	2.1	0.1	0.06	4	<0.5	<0.2
1086176	Soil	14	29	0.45	212	0.063	1	1.67	0.022	0.07	1.0	0.04	2.4	<0.1	0.09	6	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
1086169	Soil	1.3	121.1	14.5	244	0.2	31.0	18.7	418	2.54	4.4	1.1	3.7	2.7	26	2.2	0.2	0.9	74	0.42	0.098
1086167	Soil	1.8	28.9	22.1	170	<0.1	20.4	7.9	404	2.30	6.5	0.7	2.2	1.3	15	0.5	0.5	0.3	50	0.16	0.042
1086172	Soil	2.3	43.4	10.8	83	<0.1	27.7	9.5	340	2.82	10.1	0.9	3.5	0.7	16	0.4	0.9	0.3	88	0.13	0.063
1086170	Soil	1.6	56.0	10.2	97	0.1	30.7	10.0	397	2.54	8.0	1.3	0.8	2.1	14	0.5	0.3	0.5	87	0.21	0.084
1086168	Soil	3.5	57.3	13.2	142	0.1	33.1	10.2	461	2.63	9.3	1.1	6.7	1.6	13	0.4	0.5	0.5	90	0.20	0.082
1086174	Soil	2.0	57.4	13.1	131	0.1	31.9	10.9	410	3.16	16.8	1.0	4.6	1.7	18	0.5	0.5	3.8	72	0.17	0.055
1086177	Soil	5.9	63.0	12.4	109	0.3	26.1	9.9	344	3.18	17.5	1.9	1.7	2.0	20	0.5	0.7	0.6	83	0.18	0.080
1086175	Soil	4.4	72.0	25.6	132	0.2	26.5	9.8	382	3.51	27.2	1.4	0.9	1.3	29	0.7	0.8	1.0	83	0.12	0.068
1086189	Soil	8.2	262.7	51.0	620	3.4	31.5	17.1	637	6.32	144.4	3.2	53.0	4.2	36	2.9	0.7	15.9	90	0.13	0.138
1086184	Soil	5.5	214.2	19.4	354	0.5	53.3	30.9	614	4.18	34.8	2.2	33.6	2.5	39	1.1	0.8	3.2	68	0.27	0.108
1086187	Soil	4.9	83.0	26.7	194	1.1	14.3	8.8	288	2.73	49.1	1.9	10.0	1.5	18	0.9	0.4	6.0	50	0.14	0.064
1086188	Soil	8.9	273.1	48.1	640	3.0	32.2	23.4	785	6.14	136.3	3.3	62.5	4.0	37	3.4	0.5	15.2	85	0.09	0.130
1086192	Soil	4.5	26.2	73.5	250	0.4	11.9	6.2	593	1.72	8.2	11.2	<0.5	20.0	15	0.9	0.3	0.8	21	0.19	0.043
1086179	Soil	4.1	50.3	15.5	142	0.4	26.7	11.1	507	3.63	17.5	1.2	3.3	1.1	18	0.9	0.8	1.5	87	0.12	0.070
1086183	Soil	6.0	283.3	80.8	438	2.3	33.2	19.1	538	5.89	41.5	2.7	32.3	3.7	32	1.1	0.7	6.3	79	0.20	0.145
1086182	Soil	11.2	281.3	349.5	2263	4.5	60.7	37.3	1732	5.77	28.1	2.4	48.7	4.0	17	18.0	0.3	12.4	60	0.20	0.100
1086186	Soil	9.8	214.6	58.9	314	1.4	27.5	14.9	400	4.36	35.4	2.8	29.1	3.2	30	0.8	0.8	6.4	71	0.21	0.104
1086181	Soil	4.0	121.3	22.1	346	0.4	37.3	15.8	616	4.09	23.9	1.6	4.6	1.8	19	1.0	0.8	3.8	81	0.10	0.076
1086185	Soil	15.0	105.4	22.3	693	0.3	29.3	21.0	573	4.11	25.6	2.2	8.3	2.4	22	3.1	0.6	8.4	65	0.19	0.072
1086198	Soil	1.6	41.8	41.6	208	0.5	11.8	6.0	458	1.70	12.2	9.0	<0.5	11.4	13	0.6	0.2	1.0	36	0.20	0.063
1086191	Soil	0.6	32.7	4.8	76	0.3	9.2	6.3	175	1.49	6.4	0.9	3.8	0.8	20	1.1	0.1	0.3	39	0.29	0.047
1086180	Soil	4.2	113.3	22.1	322	0.5	35.5	14.1	563	4.53	24.8	1.6	2.4	1.5	18	1.0	0.8	3.7	82	0.10	0.078
1086197	Soil	2.9	45.4	89.6	317	0.8	9.8	3.7	757	1.72	13.4	12.6	<0.5	20.9	10	0.6	0.1	2.1	23	0.17	0.037
1086194	Soil	0.8	19.3	9.4	53	0.2	8.6	4.8	251	1.11	5.1	2.5	<0.5	5.0	15	0.3	0.2	0.2	27	0.22	0.062
1086200	Soil	6.7	136.6	31.3	407	1.7	28.1	12.3	696	3.27	124.0	5.8	11.6	8.1	18	2.1	0.4	3.9	56	0.21	0.079
1086196	Soil	5.1	72.9	84.4	360	1.1	16.1	5.5	1158	2.21	27.9	13.9	6.4	25.6	12	1.6	0.3	2.2	23	0.16	0.038
1045605	Soil	6.2	52.1	36.8	623	0.5	22.2	10.5	1101	3.65	111.4	27.7	6.5	27.0	16	1.8	0.3	1.1	30	0.28	0.075
1086193	Soil	3.5	27.1	37.2	117	0.2	11.2	5.5	579	2.02	10.0	4.1	0.5	2.8	13	0.4	0.4	0.6	38	0.13	0.049
1086199	Soil	4.2	92.6	127.9	607	1.4	22.8	8.1	1034	2.54	36.9	16.0	3.2	22.9	15	2.8	0.3	3.8	34	0.21	0.054
1086190	Soil	1.4	61.6	9.9	226	0.6	16.3	8.6	309	1.55	23.1	1.1	7.2	0.8	23	2.1	0.2	1.2	30	0.18	0.046



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	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
1086169	Soil	9	31	0.62	385	0.099	<1	1.47	0.024	0.20	0.4	<0.01	3.5	0.4	<0.05	5	<0.5
1086167	Soil	8	26	0.40	79	0.061	1	1.46	0.011	0.05	0.3	0.02	1.5	<0.1	<0.05	5	<0.5
1086172	Soil	8	33	0.42	344	0.053	1	1.48	0.009	0.07	0.2	0.02	1.7	0.1	<0.05	6	<0.5
1086170	Soil	10	38	0.53	170	0.074	<1	1.64	0.011	0.12	0.3	0.03	2.7	0.2	<0.05	6	<0.5
1086168	Soil	9	37	0.46	166	0.063	3	1.34	0.009	0.11	0.5	0.03	2.4	0.1	<0.05	6	<0.5
1086174	Soil	9	34	0.52	113	0.071	2	1.53	0.009	0.05	0.5	0.03	2.0	0.1	<0.05	6	<0.5
1086177	Soil	10	30	0.38	195	0.060	1	1.20	0.009	0.05	0.4	0.03	1.8	<0.1	0.06	6	<0.5
1086175	Soil	9	33	0.37	398	0.061	<1	1.30	0.014	0.06	0.5	0.03	1.9	<0.1	0.10	7	0.8
1086189	Soil	12	32	0.62	497	0.047	<1	1.45	0.022	0.25	2.4	0.02	3.5	0.4	0.26	7	2.9
1086184	Soil	13	33	0.64	369	0.061	<1	1.76	0.019	0.11	1.9	0.07	2.9	0.2	0.11	6	1.8
1086187	Soil	9	17	0.27	225	0.040	1	1.04	0.018	0.08	1.2	0.03	1.4	0.1	0.10	5	1.3
1086188	Soil	12	28	0.53	446	0.044	<1	1.37	0.015	0.22	2.3	<0.01	3.4	0.4	0.26	6	3.4
1086192	Soil	38	13	0.20	90	0.013	<1	0.81	0.019	0.11	0.5	0.03	1.5	<0.1	<0.05	3	1.2
1086179	Soil	9	39	0.49	160	0.059	2	1.59	0.017	0.09	0.4	0.04	2.0	0.1	0.12	7	0.8
1086183	Soil	11	34	0.70	233	0.071	1	1.60	0.018	0.19	3.2	0.07	4.1	0.4	0.17	7	3.4
1086182	Soil	17	21	0.35	950	0.004	<1	0.95	0.006	0.08	0.7	0.03	4.3	0.2	<0.05	5	1.5
1086186	Soil	11	27	0.57	301	0.075	1	1.43	0.018	0.18	4.2	0.05	3.1	0.3	0.10	6	2.3
1086181	Soil	12	36	0.53	181	0.045	1	1.59	0.009	0.10	0.3	0.03	2.4	0.1	0.12	7	<0.5
1086185	Soil	11	23	0.46	168	0.096	3	1.50	0.014	0.11	3.6	0.03	2.7	0.5	0.06	7	0.7
1086198	Soil	29	10	0.16	73	0.031	3	0.59	0.013	0.07	0.4	0.03	0.7	<0.1	<0.05	2	<0.5
1086191	Soil	9	13	0.22	100	0.055	2	0.63	0.020	0.04	0.1	0.02	0.9	<0.1	0.05	3	<0.5
1086180	Soil	11	35	0.50	192	0.044	2	1.52	0.010	0.10	0.3	0.04	2.1	0.2	0.09	7	<0.5
1086197	Soil	39	8	0.14	132	0.014	2	0.55	0.011	0.09	0.7	<0.01	0.9	0.1	<0.05	2	1.2
1086194	Soil	18	10	0.15	48	0.037	3	0.59	0.023	0.05	<0.1	0.13	0.9	<0.1	0.06	2	0.7
1086200	Soil	31	21	0.32	246	0.034	<1	1.02	0.017	0.09	0.7	0.05	2.1	0.2	<0.05	4	1.3
1086196	Soil	43	10	0.18	269	0.008	<1	0.71	0.010	0.09	0.7	0.01	1.3	0.1	<0.05	3	<0.5
1045605	Soil	51	21	0.32	120	0.013	<1	1.08	0.009	0.10	0.8	0.03	2.3	0.2	<0.05	5	2.0
1086193	Soil	11	15	0.18	91	0.020	2	0.87	0.011	0.05	0.3	0.05	0.7	0.1	<0.05	4	1.7
1086199	Soil	36	16	0.27	238	0.022	2	0.78	0.007	0.11	1.0	<0.01	1.9	0.2	<0.05	3	<0.5
1086190	Soil	11	13	0.30	190	0.033	2	0.95	0.029	0.06	0.2	<0.01	1.3	<0.1	<0.05	3	1.0



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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
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
1086195	Soil	3.8	23.8	150.2	263	0.5	6.4	2.0	939	1.51	6.6	10.3	<0.5	21.2	7	0.8	0.2	1.5	11	0.10
1003986	Soil	1.5	19.8	10.4	59	<0.1	23.5	9.0	304	3.39	9.0	0.7	<0.5	3.4	15	0.2	0.5	0.3	62	0.14
1003968	Soil	1.6	20.5	11.9	60	<0.1	24.7	9.1	305	3.49	10.3	0.7	1.3	3.8	15	0.3	0.6	0.4	70	0.15
1003985	Soil	1.4	20.1	10.3	59	<0.1	25.8	9.5	274	3.00	7.8	0.9	<0.5	4.2	14	<0.1	0.5	0.3	57	0.15
1003982	Soil	0.6	23.6	8.2	55	<0.1	34.6	11.5	253	2.50	6.4	0.9	<0.5	5.9	17	0.2	0.3	0.2	55	0.23
1003951	Soil	0.7	20.9	18.8	70	0.2	23.2	8.8	360	2.39	8.3	1.0	2.5	3.5	17	0.2	0.3	0.4	56	0.19
1003964	Soil	2.3	19.1	12.4	48	<0.1	16.1	6.2	191	3.49	10.7	0.5	2.9	2.6	10	0.1	0.8	0.3	82	0.09
1003988	Soil	1.6	23.9	11.6	62	0.1	27.4	10.2	288	3.05	8.2	1.0	<0.5	5.1	17	0.4	0.5	0.3	60	0.18
1003966	Soil	1.0	22.3	34.5	65	<0.1	24.1	8.7	370	2.25	5.6	1.4	1.9	7.2	16	0.3	0.3	0.2	47	0.22
1003989	Soil	0.7	19.2	9.7	51	<0.1	24.7	9.8	255	2.21	5.6	0.8	<0.5	5.1	15	0.3	0.3	0.3	45	0.18
1003971	Soil	0.6	20.0	8.4	56	0.1	33.0	11.7	317	2.38	4.6	1.2	1.7	9.4	20	0.2	0.2	0.2	53	0.30
1003956	Soil	0.7	20.5	25.1	109	0.2	20.9	7.3	299	2.00	7.9	1.0	0.5	5.0	12	0.5	0.3	0.4	45	0.16
1003973	Soil	1.0	38.5	47.4	124	0.5	29.5	9.5	302	2.38	91.2	0.9	8.7	3.8	15	0.9	0.3	1.2	57	0.20
1003953	Soil	1.2	23.3	18.4	78	0.1	20.3	7.2	299	2.53	9.2	1.1	3.8	2.3	14	0.3	0.4	0.4	56	0.15
1003974	Soil	1.4	49.9	80.3	161	1.4	38.4	13.6	422	3.46	169.8	1.2	17.2	1.6	18	1.2	0.6	1.8	71	0.15
1003981	Soil	1.6	31.9	71.4	149	0.7	23.3	8.0	354	2.70	43.0	1.5	7.6	3.4	12	0.6	0.4	1.2	58	0.15
1003983	Soil	1.9	26.1	57.5	151	0.5	19.3	7.4	431	2.52	17.6	1.7	3.3	3.9	12	0.9	0.5	0.9	50	0.13
1003957	Soil	1.3	23.4	58.1	157	0.3	21.2	7.9	437	2.36	18.7	1.9	<0.5	8.2	15	1.3	0.4	1.0	46	0.16
1003984	Soil	1.6	31.6	68.1	149	0.7	23.9	8.7	383	2.77	40.0	1.4	10.8	3.3	13	0.7	0.5	1.2	59	0.14
1003975	Soil	1.2	29.2	14.1	73	0.2	17.3	7.9	274	2.24	18.4	0.6	3.5	0.7	13	0.4	0.3	0.4	61	0.12
1003955	Soil	1.4	25.2	25.2	87	0.1	20.6	7.9	352	2.62	12.4	0.9	5.4	1.9	14	0.5	0.5	0.5	63	0.15
1003961	Soil	1.2	45.9	54.0	144	1.2	29.8	10.1	368	2.95	78.3	1.0	14.4	2.7	18	1.2	0.4	1.4	64	0.22
1003954	Soil	2.1	23.6	20.1	79	<0.1	14.2	5.5	248	2.33	8.7	0.9	2.2	1.2	13	0.4	0.5	0.5	57	0.10
1003959	Soil	2.7	28.8	17.7	84	<0.1	23.4	8.7	371	3.56	9.7	0.8	2.3	2.1	15	0.2	1.0	0.4	75	0.14
1003958	Soil	0.8	25.4	57.0	127	0.8	20.7	6.8	401	2.17	15.8	1.7	75.4	8.1	14	0.9	0.3	1.1	45	0.15
1003960	Soil	0.9	19.5	9.7	56	<0.1	21.2	8.4	335	2.13	6.2	1.1	5.8	4.4	18	0.1	0.3	0.4	48	0.19
1003967	Soil	0.9	20.8	15.8	82	0.2	28.9	10.7	411	2.73	5.8	2.0	3.4	6.5	44	0.2	0.3	0.4	58	0.32
1003990	Soil	0.8	23.1	13.0	71	0.1	25.9	9.6	337	2.38	7.5	1.1	1.7	5.2	19	0.5	0.4	0.3	52	0.23
1003963	Soil	0.8	21.3	15.3	66	0.1	26.2	10.2	365	2.46	8.3	1.2	1.9	5.8	21	0.4	0.5	0.4	57	0.26
1003965	Soil	2.6	11.5	20.3	62	<0.1	26.9	12.2	648	2.99	5.5	2.7	<0.5	13.0	26	0.4	0.2	0.2	33	0.39



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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
		La	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	ppm
		1	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
1086195	Soil	32	6	0.08	95	0.006	2	0.49	0.009	0.08	0.5	0.02	0.6	<0.1	<0.05	2	0.9	<0.2
1003986	Soil	9	33	0.50	77	0.089	1	2.04	0.008	0.06	0.3	<0.01	2.3	0.1	<0.05	7	0.8	<0.2
1003968	Soil	9	35	0.51	74	0.104	2	1.96	0.010	0.05	0.3	0.02	2.4	0.1	<0.05	8	0.7	<0.2
1003985	Soil	8	32	0.49	79	0.095	1	1.94	0.009	0.06	0.5	<0.01	2.0	0.1	<0.05	6	<0.5	<0.2
1003982	Soil	10	41	0.60	96	0.114	<1	2.23	0.012	0.07	0.3	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
1003951	Soil	11	31	0.49	80	0.082	1	1.35	0.009	0.08	0.3	0.02	1.9	<0.1	<0.05	6	0.7	<0.2
1003964	Soil	9	24	0.29	42	0.091	<1	1.43	0.006	0.03	0.3	<0.01	1.8	0.1	<0.05	9	<0.5	<0.2
1003988	Soil	9	37	0.52	80	0.099	2	2.35	0.009	0.06	0.5	<0.01	2.5	0.1	<0.05	7	<0.5	<0.2
1003966	Soil	32	30	0.51	103	0.081	<1	1.72	0.012	0.09	0.6	<0.01	2.4	0.2	<0.05	5	0.6	<0.2
1003989	Soil	10	27	0.42	95	0.085	<1	1.88	0.012	0.06	1.0	0.01	1.8	0.1	<0.05	5	<0.5	<0.2
1003971	Soil	11	45	0.83	85	0.129	1	2.10	0.014	0.12	0.3	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
1003956	Soil	10	21	0.35	85	0.069	1	1.24	0.009	0.05	0.3	0.02	1.6	<0.1	<0.05	3	0.9	<0.2
1003973	Soil	11	28	0.39	120	0.070	1	1.26	0.010	0.10	0.2	0.01	1.8	0.1	<0.05	4	<0.5	<0.2
1003953	Soil	9	26	0.38	70	0.065	1	1.37	0.008	0.06	0.2	0.03	1.6	<0.1	<0.05	6	0.7	<0.2
1003974	Soil	12	42	0.57	111	0.073	<1	1.94	0.011	0.12	0.3	0.03	2.3	0.2	<0.05	6	0.9	<0.2
1003981	Soil	22	30	0.42	99	0.043	1	1.63	0.008	0.07	0.2	0.02	2.1	0.1	<0.05	5	<0.5	<0.2
1003983	Soil	17	24	0.35	111	0.035	<1	1.27	0.007	0.07	0.2	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
1003957	Soil	30	25	0.42	178	0.045	<1	1.62	0.008	0.08	0.3	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
1003984	Soil	22	32	0.43	104	0.051	<1	1.66	0.008	0.07	0.2	0.04	2.0	0.1	<0.05	5	<0.5	<0.2
1003975	Soil	7	25	0.34	77	0.060	<1	1.06	0.012	0.07	0.2	0.02	1.3	0.2	0.07	5	0.8	<0.2
1003955	Soil	9	28	0.39	89	0.052	<1	1.45	0.008	0.05	0.2	0.02	1.6	0.1	<0.05	5	<0.5	<0.2
1003961	Soil	13	35	0.47	105	0.068	<1	1.42	0.011	0.10	0.3	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
1003954	Soil	7	20	0.24	82	0.022	<1	1.13	0.006	0.04	0.2	0.01	1.2	0.1	<0.05	5	<0.5	<0.2
1003959	Soil	8	28	0.39	80	0.066	<1	1.38	0.007	0.05	0.2	0.03	1.5	0.2	<0.05	8	0.5	<0.2
1003958	Soil	15	21	0.42	96	0.066	2	1.35	0.011	0.07	0.3	0.02	2.1	0.1	<0.05	4	0.7	<0.2
1003960	Soil	10	25	0.51	93	0.091	2	1.47	0.013	0.06	0.4	0.02	1.9	0.1	<0.05	5	0.5	<0.2
1003967	Soil	22	40	0.80	104	0.104	1	1.83	0.016	0.10	0.7	<0.01	2.6	0.2	<0.05	7	<0.5	<0.2
1003990	Soil	12	29	0.58	83	0.098	2	1.85	0.014	0.06	0.3	0.03	2.2	0.1	<0.05	5	<0.5	<0.2
1003963	Soil	12	31	0.61	103	0.110	<1	1.88	0.015	0.08	0.3	<0.01	2.6	0.1	<0.05	6	<0.5	<0.2
1003965	Soil	31	18	0.26	132	0.006	<1	1.17	0.007	0.11	0.4	<0.01	2.9	0.2	<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	U	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	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
1003987	Soil	1.0	21.4	22.9	92	<0.1	25.8	9.5	387	2.79	9.2	1.5	2.2	5.5	20	0.5	0.5	0.5	62	0.22	0.047
1003969	Soil	0.5	17.5	9.8	72	<0.1	26.5	9.8	310	2.20	4.2	1.1	0.9	7.4	38	0.3	0.2	0.4	52	0.30	0.071
1003970	Soil	1.0	22.2	11.9	66	0.1	29.4	10.5	310	2.91	7.6	1.6	1.6	6.5	27	0.2	0.4	0.5	64	0.30	0.067
1003962	Soil	1.8	30.5	13.5	84	0.1	23.6	8.9	435	3.06	9.0	1.1	1.0	1.7	23	0.2	0.8	0.4	65	0.17	0.048
1003952	Soil	0.6	20.5	24.9	71	0.2	23.2	8.4	356	2.27	7.1	1.8	0.7	8.1	16	0.6	0.3	0.4	52	0.20	0.036
1081716	Soil	6.6	40.9	177.1	263	0.4	18.3	8.9	639	2.44	9.2	1.7	5.0	3.7	17	0.4	0.6	4.2	43	0.17	0.072
1081715	Soil	4.7	40.1	28.3	182	0.1	21.8	8.3	435	2.36	5.4	1.7	8.6	4.3	17	0.4	0.4	0.6	52	0.18	0.038
1081717	Soil	4.4	34.4	96.1	149	0.3	19.6	7.6	358	2.81	9.0	1.5	6.1	3.5	15	0.3	0.7	1.5	58	0.13	0.034
1081718	Soil	1.5	31.8	17.4	112	<0.1	28.5	9.9	409	2.67	7.6	1.2	10.6	3.7	17	0.3	0.4	0.5	59	0.18	0.030
1081735	Soil	1.8	37.6	49.9	145	0.4	20.4	7.6	414	2.65	21.4	2.7	5.3	5.6	17	0.6	0.6	1.3	52	0.15	0.042
1081713	Soil	28.0	33.6	48.5	189	0.2	13.6	5.6	290	1.88	3.8	3.1	3.8	9.4	16	0.4	0.2	1.0	43	0.20	0.049
1081733	Soil	1.0	33.0	19.5	103	0.1	21.8	7.6	355	2.19	9.7	3.4	3.9	9.2	22	0.4	0.3	0.5	49	0.31	0.077
1081731	Soil	1.0	19.5	43.0	85	0.3	17.9	7.2	412	2.27	6.4	2.2	1.7	10.4	14	0.5	0.3	0.6	49	0.16	0.024
1081732	Soil	1.0	19.8	43.3	87	0.3	18.0	7.3	406	2.30	6.3	2.4	17.3	10.7	15	0.5	0.3	0.5	49	0.17	0.024
1081734	Soil	1.7	35.6	47.4	140	0.3	20.3	7.3	400	2.65	21.4	2.6	4.2	5.4	16	0.6	0.6	1.3	51	0.15	0.041
1081714	Soil	7.1	44.6	38.7	170	0.4	19.6	7.5	462	2.24	4.8	2.8	9.0	8.7	22	0.6	0.3	0.9	47	0.25	0.043
1081730	Soil	2.3	18.0	69.1	169	0.2	12.2	7.7	750	2.64	15.1	6.8	3.1	7.1	16	0.5	0.7	0.9	51	0.13	0.037
1081722	Soil	4.7	35.5	36.0	154	0.5	26.7	14.1	901	3.29	15.5	2.7	5.4	3.4	18	0.6	1.2	0.6	60	0.15	0.081
1081728	Soil	1.7	21.9	32.3	140	0.2	17.0	14.6	777	4.36	21.0	3.6	3.4	5.5	40	0.4	1.2	0.3	102	0.26	0.048
1081724	Soil	9.3	37.9	358.4	245	4.8	22.5	8.0	401	2.31	8.9	2.4	8.5	6.6	14	0.8	0.5	8.8	44	0.17	0.043
1081727	Soil	2.6	34.1	72.0	143	0.4	17.5	8.2	972	2.46	8.7	4.5	4.5	4.4	18	1.1	0.7	0.7	42	0.19	0.074
1081723	Soil	2.7	30.9	27.7	101	0.2	21.9	8.1	420	2.46	10.9	2.3	6.2	8.4	14	0.6	0.5	0.6	50	0.15	0.034
1081729	Soil	1.9	25.3	46.4	156	0.4	20.6	8.5	586	2.66	28.9	5.4	3.0	13.0	16	0.9	1.0	0.5	45	0.15	0.033
1081725	Soil	1.0	26.7	22.6	81	0.3	20.3	7.4	471	2.25	5.6	1.7	2.4	7.5	16	0.4	0.3	0.4	50	0.18	0.028
1081726	Soil	2.8	53.2	78.1	148	0.5	20.2	9.7	952	2.64	9.2	3.6	8.3	6.0	16	0.7	0.8	0.6	50	0.14	0.080
1081720	Soil	7.3	49.1	35.3	211	<0.1	20.4	7.6	415	2.29	7.0	2.5	12.1	7.9	13	0.7	0.4	1.8	42	0.14	0.026
1081721	Soil	3.8	32.9	19.3	127	0.2	17.4	7.9	471	2.87	6.8	1.7	8.7	4.0	14	0.4	0.5	1.3	59	0.14	0.033
1081719	Soil	3.9	36.3	31.8	132	0.2	24.9	11.1	666	2.96	15.5	2.3	3.5	5.9	18	0.5	0.9	0.9	58	0.15	0.046
1081701	Soil	2.6	30.3	11.9	102	<0.1	19.2	7.1	292	2.21	5.8	2.6	4.4	6.2	19	0.4	0.4	0.5	52	0.24	0.057
1081706	Soil	4.9	45.5	16.7	147	0.2	22.6	8.2	429	2.56	7.8	1.2	9.1	2.1	14	0.3	0.7	0.7	73	0.12	0.051



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		La	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	ppm
		1	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
1003987	Soil	13	34	0.61	86	0.096	2	1.75	0.012	0.08	0.4	0.01	2.4	0.1	<0.05	6	0.6	<0.2
1003969	Soil	12	42	0.77	98	0.136	2	1.77	0.016	0.11	0.8	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
1003970	Soil	19	38	0.77	100	0.133	<1	2.13	0.015	0.09	0.4	0.01	2.6	0.2	<0.05	7	0.7	<0.2
1003962	Soil	9	32	0.55	90	0.083	1	1.63	0.010	0.06	0.3	0.03	1.4	0.1	<0.05	8	<0.5	<0.2
1003952	Soil	14	26	0.57	101	0.096	<1	1.42	0.014	0.07	0.3	0.02	2.2	0.1	<0.05	5	0.7	<0.2
1081716	Soil	11	21	0.41	89	0.010	<1	1.43	0.010	0.07	0.3	0.03	1.0	0.2	<0.05	5	<0.5	<0.2
1081715	Soil	16	25	0.51	77	0.095	<1	1.81	0.014	0.05	0.3	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
1081717	Soil	13	26	0.44	67	0.060	<1	1.60	0.011	0.07	0.3	0.03	1.6	0.1	<0.05	6	0.6	<0.2
1081718	Soil	11	30	0.55	83	0.089	2	1.59	0.012	0.05	0.3	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
1081735	Soil	21	26	0.46	89	0.039	1	1.40	0.010	0.08	0.3	0.03	1.8	0.1	<0.05	5	<0.5	<0.2
1081713	Soil	23	19	0.38	63	0.066	<1	1.17	0.013	0.06	0.2	0.01	1.6	<0.1	<0.05	4	0.7	<0.2
1081733	Soil	38	28	0.53	91	0.088	1	1.45	0.014	0.09	0.3	0.01	3.2	0.1	<0.05	4	1.1	<0.2
1081731	Soil	15	24	0.46	84	0.058	<1	1.39	0.011	0.06	0.3	0.03	1.9	<0.1	<0.05	4	0.6	<0.2
1081732	Soil	15	23	0.45	83	0.058	<1	1.37	0.011	0.06	0.4	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1081734	Soil	21	25	0.45	86	0.039	<1	1.33	0.010	0.08	0.4	0.02	1.7	0.1	<0.05	5	<0.5	<0.2
1081714	Soil	33	24	0.50	93	0.092	<1	1.61	0.016	0.07	0.3	0.02	2.4	0.1	<0.05	5	0.8	<0.2
1081730	Soil	30	31	0.39	159	0.020	<1	1.33	0.007	0.13	0.2	<0.01	2.5	0.2	<0.05	6	0.6	<0.2
1081722	Soil	17	33	0.62	81	0.051	2	1.79	0.011	0.06	0.3	0.05	1.7	0.1	0.05	7	<0.5	<0.2
1081728	Soil	46	42	1.36	90	0.075	<1	2.48	0.011	0.05	0.2	0.03	3.0	0.2	<0.05	9	<0.5	<0.2
1081724	Soil	23	23	0.49	52	0.061	1	1.57	0.012	0.06	0.3	0.04	1.9	0.2	<0.05	5	1.0	<0.2
1081727	Soil	37	20	0.40	72	0.046	<1	1.22	0.016	0.06	0.4	0.07	1.4	0.2	0.06	5	<0.5	<0.2
1081723	Soil	23	24	0.48	67	0.085	<1	1.60	0.011	0.05	0.4	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
1081729	Soil	37	23	0.51	97	0.039	<1	1.53	0.013	0.10	0.2	0.03	2.1	0.3	<0.05	5	<0.5	<0.2
1081725	Soil	19	22	0.45	77	0.094	2	1.51	0.013	0.05	0.3	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1081726	Soil	31	25	0.48	60	0.051	1	1.37	0.013	0.05	0.4	0.12	1.8	0.1	<0.05	5	0.5	<0.2
1081720	Soil	14	22	0.36	69	0.075	<1	1.42	0.009	0.05	0.4	0.01	1.7	0.1	<0.05	4	0.7	<0.2
1081721	Soil	14	27	0.47	68	0.081	<1	1.41	0.008	0.04	0.4	0.02	1.8	<0.1	<0.05	6	0.8	<0.2
1081719	Soil	19	30	0.59	83	0.065	2	1.73	0.011	0.05	0.2	0.04	2.1	0.2	<0.05	6	0.9	<0.2
1081701	Soil	24	26	0.52	84	0.083	<1	1.44	0.013	0.07	0.3	0.01	2.7	0.1	<0.05	4	<0.5	<0.2
1081706	Soil	9	31	0.50	123	0.078	<1	1.31	0.010	0.10	0.3	0.05	2.0	0.3	<0.05	6	0.9	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1081709	Soil	15.2	37.9	20.2	108	<0.1	21.0	7.9	346	2.47	6.2	1.6	4.3	5.5	13	0.3	0.4	0.6	50	0.15	0.029
1081707	Soil	4.7	44.7	13.8	128	<0.1	25.1	9.1	476	2.19	5.6	1.2	7.0	4.2	15	0.5	0.4	0.6	52	0.18	0.034
1081705	Soil	10.7	66.9	23.8	228	<0.1	15.7	5.2	371	1.83	5.1	3.4	11.1	6.5	10	1.0	0.2	1.3	39	0.14	0.041
1081711	Soil	1.9	29.7	10.6	97	0.1	26.4	10.5	352	2.51	7.0	1.4	4.1	4.8	19	0.3	0.4	0.3	56	0.21	0.033
1081704	Soil	12.7	47.6	24.0	285	0.1	15.0	5.4	439	2.22	6.2	5.4	11.7	17.1	12	1.4	0.3	2.9	40	0.19	0.049
1081712	Soil	6.7	24.8	32.8	156	0.1	15.4	7.2	316	1.96	3.7	3.1	2.7	10.9	18	0.4	0.3	0.6	44	0.27	0.057
1081710	Soil	7.1	29.2	53.2	119	0.1	18.5	7.0	338	1.97	4.2	1.6	2.3	6.8	16	0.3	0.3	0.7	42	0.22	0.049
1081708	Soil	4.4	34.9	25.4	115	0.1	23.3	9.2	364	2.40	6.4	1.4	3.6	5.7	17	0.5	0.4	0.7	54	0.19	0.036
1081702	Soil	5.6	35.5	12.3	113	0.2	16.7	6.1	258	2.41	7.0	1.9	2.8	2.1	14	0.4	0.6	0.7	54	0.12	0.055
1081703	Soil	7.6	32.3	15.5	163	<0.1	16.4	5.4	295	2.22	6.8	1.7	5.0	2.7	12	0.5	0.5	0.9	44	0.11	0.034



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		La	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	ppm
		1	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
1081709	Soil	13	26	0.44	68	0.074	1	1.39	0.009	0.04	0.3	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
1081707	Soil	13	27	0.49	106	0.087	1	1.34	0.012	0.07	0.4	0.04	2.2	0.2	<0.05	5	<0.5	<0.2
1081705	Soil	25	18	0.30	129	0.045	<1	0.89	0.008	0.08	0.6	0.02	1.6	0.2	<0.05	3	<0.5	<0.2
1081711	Soil	12	31	0.58	78	0.098	2	1.80	0.013	0.05	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
1081704	Soil	50	19	0.31	151	0.038	<1	0.90	0.008	0.09	0.9	0.03	1.9	0.1	<0.05	4	<0.5	<0.2
1081712	Soil	25	22	0.41	83	0.091	<1	1.22	0.014	0.06	0.2	0.02	2.3	0.1	<0.05	4	<0.5	<0.2
1081710	Soil	11	22	0.41	74	0.076	<1	1.23	0.012	0.06	0.2	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
1081708	Soil	13	29	0.53	84	0.093	1	1.56	0.013	0.06	0.3	0.03	2.4	0.1	<0.05	5	<0.5	<0.2
1081702	Soil	14	23	0.36	84	0.041	<1	1.13	0.012	0.06	0.4	0.05	1.3	0.1	0.06	5	<0.5	<0.2
1081703	Soil	13	21	0.33	82	0.023	<1	1.07	0.007	0.07	0.4	0.03	1.2	0.1	<0.05	5	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000704.1

	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1081880	Soil	0.4	20.3	5.0	23	<0.1	8.9	4.1	119	0.75	2.5	1.3	2.0	0.7	19	<0.1	0.1	<0.1	19	0.21	0.041
REP 1081880	QC	0.5	19.5	4.9	22	<0.1	8.5	3.7	117	0.74	2.4	1.2	1.2	0.6	19	<0.1	0.1	<0.1	19	0.19	0.041
1006764	Soil	0.1	8.2	2.9	19	0.1	2.3	2.9	53	0.97	2.0	<0.1	1.1	<0.1	7	<0.1	<0.1	<0.1	39	0.08	0.028
REP 1006764	QC	0.2	8.1	3.0	19	0.1	1.9	3.0	53	0.96	1.9	0.1	<0.5	<0.1	7	<0.1	<0.1	<0.1	39	0.08	0.027
1006768	Soil	4.2	107.2	20.3	124	0.5	32.9	9.4	430	4.29	15.3	2.5	7.6	1.8	17	0.6	0.4	0.3	144	0.15	0.068
REP 1006768	QC	4.3	110.1	19.6	129	0.6	34.1	9.6	433	4.32	15.8	2.5	7.2	1.4	17	0.6	0.4	0.3	144	0.17	0.071
1081372	Soil	1.4	29.8	8.7	97	<0.1	17.0	7.1	252	2.20	4.6	3.3	3.7	5.6	21	0.3	0.2	1.0	53	0.30	0.065
REP 1081372	QC	1.4	29.8	8.8	97	<0.1	16.9	6.9	247	2.21	4.6	3.4	3.4	5.9	21	0.3	0.2	1.0	53	0.31	0.067
1081399	Soil	1.5	47.5	54.0	144	0.1	20.6	9.6	430	2.52	6.1	2.0	2.7	6.6	12	0.6	0.3	1.5	46	0.16	0.055
REP 1081399	QC	1.6	48.1	57.8	147	0.1	21.4	9.9	427	2.61	6.1	2.1	6.5	7.4	13	0.6	0.3	1.7	47	0.16	0.057
1086183	Soil	6.0	283.3	80.8	438	2.3	33.2	19.1	538	5.89	41.5	2.7	32.3	3.7	32	1.1	0.7	6.3	79	0.20	0.145
REP 1086183	QC	6.2	286.5	83.4	445	2.3	32.5	18.8	542	5.91	41.4	2.9	35.8	4.3	33	1.1	0.8	6.2	78	0.20	0.142
1086190	Soil	1.4	61.6	9.9	226	0.6	16.3	8.6	309	1.55	23.1	1.1	7.2	0.8	23	2.1	0.2	1.2	30	0.18	0.046
REP 1086190	QC	1.6	63.1	10.7	232	0.6	16.5	8.4	321	1.55	23.2	1.1	8.4	0.8	23	2.0	0.2	1.3	31	0.17	0.045
1003971	Soil	0.6	20.0	8.4	56	0.1	33.0	11.7	317	2.38	4.6	1.2	1.7	9.4	20	0.2	0.2	0.2	53	0.30	0.083
REP 1003971	QC	0.5	21.4	8.1	59	<0.1	34.5	12.2	331	2.43	4.7	1.2	<0.5	9.1	21	0.2	0.2	0.2	56	0.32	0.087
1081717	Soil	4.4	34.4	96.1	149	0.3	19.6	7.6	358	2.81	9.0	1.5	6.1	3.5	15	0.3	0.7	1.5	58	0.13	0.034
REP 1081717	QC	4.3	34.8	95.9	147	0.3	20.3	7.8	362	2.82	9.7	1.6	5.3	3.4	15	0.2	0.7	1.5	58	0.13	0.036
1081719	Soil	3.9	36.3	31.8	132	0.2	24.9	11.1	666	2.96	15.5	2.3	3.5	5.9	18	0.5	0.9	0.9	58	0.15	0.046
REP 1081719	QC	4.0	37.1	31.9	139	0.2	26.3	11.8	694	3.04	15.4	2.4	6.9	6.1	19	0.4	0.9	1.0	58	0.15	0.047
Reference Materials																					
STD DS8	Standard	13.2	108.1	120.6	304	1.6	37.6	7.4	606	2.40	25.6	2.6	104.2	6.5	66	2.1	5.1	5.9	41	0.68	0.078
STD DS8	Standard	11.8	102.6	115.4	299	1.7	35.5	7.3	589	2.30	25.0	2.4	106.3	5.9	62	1.9	4.9	6.0	39	0.65	0.077
STD DS8	Standard	12.2	104.3	138.1	304	1.8	36.4	7.2	595	2.41	26.7	3.1	118.8	7.8	71	2.5	6.0	7.4	42	0.68	0.074
STD DS8	Standard	13.8	108.4	126.4	320	1.8	38.4	7.7	643	2.53	27.5	2.8	113.2	7.1	66	2.2	4.8	5.8	44	0.76	0.080
STD DS8	Standard	13.0	111.1	128.0	315	1.9	40.0	7.5	625	2.51	27.5	2.4	106.4	6.9	56	2.4	4.7	5.6	42	0.70	0.078
STD DS8	Standard	12.6	108.4	121.2	297	1.7	35.1	7.0	584	2.36	26.1	2.9	116.4	7.4	68	2.3	5.7	6.7	41	0.67	0.077
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08



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Part 2

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
		La	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	ppm
		1	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																		
1081880	Soil	10	10	0.22	56	0.032	1	0.88	0.027	0.03	0.1	0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
REP 1081880	QC	9	10	0.22	54	0.032	2	0.85	0.028	0.03	<0.1	<0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
1006764	Soil	1	4	0.07	12	0.058	<1	0.21	0.015	0.01	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
REP 1006764	QC	1	4	0.07	17	0.058	<1	0.20	0.015	0.01	<0.1	0.02	0.2	<0.1	<0.05	2	<0.5	<0.2
1006768	Soil	12	38	0.62	176	0.080	1	1.92	0.010	0.15	0.4	0.06	2.3	0.2	0.14	8	0.7	<0.2
REP 1006768	QC	12	39	0.62	173	0.083	<1	1.95	0.010	0.15	0.5	0.06	2.3	0.2	0.15	8	1.5	<0.2
1081372	Soil	18	27	0.35	92	0.094	<1	1.53	0.014	0.06	0.4	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 1081372	QC	18	28	0.35	93	0.095	<1	1.51	0.014	0.06	0.4	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
1081399	Soil	23	26	0.39	68	0.070	1	1.48	0.010	0.11	0.6	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
REP 1081399	QC	24	27	0.40	70	0.071	2	1.51	0.011	0.12	0.7	0.04	2.4	0.2	<0.05	5	<0.5	<0.2
1086183	Soil	11	34	0.70	233	0.071	1	1.60	0.018	0.19	3.2	0.07	4.1	0.4	0.17	7	3.4	0.4
REP 1086183	QC	12	35	0.71	241	0.074	2	1.66	0.020	0.19	3.3	0.07	4.1	0.5	0.19	7	2.6	0.3
1086190	Soil	11	13	0.30	190	0.033	2	0.95	0.029	0.06	0.2	<0.01	1.3	<0.1	<0.05	3	1.0	<0.2
REP 1086190	QC	10	14	0.30	187	0.033	<1	0.93	0.026	0.06	0.2	0.01	1.3	0.1	<0.05	3	0.6	<0.2
1003971	Soil	11	45	0.83	85	0.129	1	2.10	0.014	0.12	0.3	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
REP 1003971	QC	11	46	0.78	90	0.137	1	2.06	0.015	0.13	0.3	0.02	2.2	0.2	<0.05	7	<0.5	<0.2
1081717	Soil	13	26	0.44	67	0.060	<1	1.60	0.011	0.07	0.3	0.03	1.6	0.1	<0.05	6	0.6	<0.2
REP 1081717	QC	13	26	0.45	66	0.055	<1	1.57	0.011	0.06	0.3	0.03	1.6	0.1	<0.05	6	0.8	0.2
1081719	Soil	19	30	0.59	83	0.065	2	1.73	0.011	0.05	0.2	0.04	2.1	0.2	<0.05	6	0.9	<0.2
REP 1081719	QC	20	31	0.60	89	0.068	1	1.82	0.011	0.06	0.2	0.03	2.1	0.2	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	13	113	0.56	269	0.107	2	0.92	0.102	0.42	2.8	0.17	2.5	5.4	0.17	5	4.6	4.8
STD DS8	Standard	13	113	0.52	260	0.106	2	0.85	0.071	0.40	2.7	0.19	2.0	5.0	0.15	4	4.5	4.4
STD DS8	Standard	15	110	0.61	274	0.120	2	0.88	0.089	0.41	2.7	0.18	2.1	5.3	0.12	5	6.5	5.2
STD DS8	Standard	16	121	0.63	282	0.113	4	0.97	0.102	0.44	2.9	0.20	2.3	5.5	0.16	5	5.0	5.0
STD DS8	Standard	13	118	0.55	270	0.115	3	0.91	0.069	0.42	2.9	0.20	2.1	5.6	0.15	5	4.9	5.2
STD DS8	Standard	16	111	0.60	280	0.118	2	0.88	0.084	0.41	2.8	0.20	2.1	5.3	0.13	5	4.7	5.1
STD DS8 Expected		14.6	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



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Part 1

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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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

WHI11000704.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	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	ppm
		1	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	<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	<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	<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	<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	<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	<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

APPENDIX VI

Rock sample assay certificates



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Submitted By: Ian Gendall

Receiving Lab: Canada-Whitehorse

Received: July 05, 2011

Report Date: July 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11000475.1

CLIENT JOB INFORMATION

Project: Kluane Agate
Shipment ID: 20110626165727
P.O. Number
Number of Samples: 36

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

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: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Hua Jin

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	34	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01+3B04	36	Fire assay fusion Au by ICP-ES	50	Completed	VAN
1DX1	36	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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Kluane Agate

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CERTIFICATE OF ANALYSIS

WHI11000475.1

	Method	WGHT	3B-50	1DX	1DX	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	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
45010	Rock	2.77	<2	0.2	21.3	3.5	74	<0.1	41.8	18.4	508	4.11	<0.5	<0.5	4.4	9	<0.1	<0.1	<0.1	88
45011	Rock	2.95	<2	0.3	4.3	2.3	58	<0.1	25.0	7.7	383	2.18	<0.5	<0.5	7.7	22	<0.1	<0.1	<0.1	43
45012	Rock	3.81	<2	<0.1	19.9	1.9	63	<0.1	43.7	17.3	433	2.29	<0.5	<0.5	12.5	16	0.1	<0.1	<0.1	56
45013	Rock	2.35	29	9.4	857.2	14.9	123	4.6	51.2	13.9	239	4.54	2.6	23.0	2.2	61	0.5	<0.1	2.1	324
45014	Rock	1.36	40	10.4	387.4	6.6	57	4.4	14.9	4.3	135	2.64	1.7	32.0	1.7	26	0.3	<0.1	2.3	151
45015	Rock	0.83	21	27.2	1639	20.2	354	5.5	154.5	31.6	159	5.44	1.8	14.6	2.7	9	7.5	<0.1	9.0	284
45016	Rock	1.92	<2	1.4	26.1	16.8	65	0.5	3.3	0.7	79	0.54	0.8	2.3	0.1	<1	0.3	<0.1	0.7	3
45017	Rock	1.25	4	61.9	15.7	26.8	93	0.8	1.6	0.3	46	0.77	1.1	4.9	14.1	2	0.3	<0.1	3.2	<2
45018	Rock	0.95	<2	20.5	15.7	27.1	176	0.4	9.3	2.4	105	1.28	2.6	<0.5	1.0	1	0.7	<0.1	0.6	8
45019	Rock	0.82	<2	11.0	107.7	21.0	188	0.5	18.9	4.9	202	1.28	8.4	0.6	1.3	2	0.7	<0.1	0.8	9
45020	Rock	1.01	<2	185.2	1556	556.9	436	6.1	0.9	0.7	357	2.53	0.9	<0.5	19.7	1	0.6	<0.1	6.7	<2
45021	Rock	1.42	<2	19.7	194.2	33.5	2200	0.5	1.3	0.6	359	3.44	2.0	1.1	21.9	1	1.0	<0.1	0.6	6
45022	Rock	2.41	36	0.2	1941	4.4	64	11.5	166.5	77.5	56	15.05	61.3	24.3	0.2	21	3.6	1.5	3.7	3
45023	Rock	2.37	9	1.6	79.9	24.4	80	0.6	4.5	8.1	346	1.57	6.2	5.2	12.3	41	0.7	0.6	0.2	47
45024	Rock	1.18	<2	1.3	25.2	4.4	68	0.2	8.6	20.1	349	4.42	7.5	<0.5	2.2	179	<0.1	0.6	0.1	127
45025	Rock	2.18	<2	2.6	178.4	847.7	695	4.5	12.6	3.7	141	2.37	11.1	1.0	1.8	45	10.6	0.8	0.3	39
45026	Rock	0.77	<2	2.1	156.3	3761	163	11.6	2.3	0.8	40	2.21	50.3	1.2	1.8	39	1.6	1.5	0.4	36
45027	Rock	2.37	3	3.6	59.7	126.7	418	0.9	27.1	7.7	699	1.97	7.9	2.2	3.4	97	2.1	0.2	0.6	59
45028	Rock	2.65	<2	0.5	127.5	136.9	154	4.9	11.8	2.7	187	0.81	9.6	<0.5	0.4	3	0.6	0.2	4.6	7
45029	Rock	1.39	3	3.3	280.4	2181	1595	6.1	32.0	5.8	664	2.73	36.9	1.4	1.3	13	15.5	0.6	0.8	127
45030	Rock	1.76	8	5.4	86.2	15.9	34	1.6	12.7	5.1	230	2.81	7.6	6.8	3.5	18	0.2	0.2	0.3	65
45031	Rock	2.59	<2	1.3	43.6	17.4	97	0.1	35.5	17.1	440	4.82	1.6	1.9	3.9	11	0.1	<0.1	<0.1	94
45032	Rock	2.97	<2	0.2	7.2	3.6	35	<0.1	1.7	1.7	219	1.20	1.1	1.5	8.8	11	<0.1	<0.1	<0.1	11
45033	Rock	2.97	<2	0.5	18.9	2.9	36	<0.1	25.3	7.9	173	1.78	0.8	<0.5	7.0	43	<0.1	<0.1	<0.1	41
45034	Rock	3.31	<2	0.3	7.3	1.9	79	<0.1	3.0	6.1	430	2.60	0.9	<0.5	8.3	30	<0.1	<0.1	<0.1	43
45036	Rock Pulp	0.11	973	1.4	22.5	42.2	46	0.3	58.8	17.1	340	4.42	3.1	955.8	1.8	111	0.3	0.3	0.3	35
45037	Rock Pulp	0.11	<2	1.2	26.6	5.2	42	<0.1	82.1	21.2	424	3.00	0.9	0.9	1.6	192	<0.1	<0.1	<0.1	53
45035	Rock	2.43	<2	<0.1	9.7	1.4	86	<0.1	3.1	15.1	545	4.16	0.6	1.2	0.5	58	<0.1	<0.1	<0.1	95
45001	Rock	2.47	<2	2.1	14.9	13.9	58	0.1	6.1	7.4	168	4.05	7.4	1.0	2.2	25	0.2	0.2	0.1	18
45002	Rock	1.38	795	1.7	64.5	5.6	110	0.4	25.5	7.4	274	5.67	2298	912.8	1.4	18	0.2	11.0	0.2	16



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Project:

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Part 2

CERTIFICATE OF ANALYSIS

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
45010	Rock	0.007	14	76	1.04	140	0.210	<20	2.98	0.043	0.97	<0.1	<0.01	8.1	0.5	<0.05	11	<0.5
45011	Rock	0.082	23	112	0.77	402	0.273	<20	1.08	0.083	0.77	<0.1	<0.01	1.8	0.2	<0.05	5	<0.5
45012	Rock	0.084	9	389	1.78	266	0.283	<20	1.33	0.065	1.13	0.1	<0.01	1.9	0.9	<0.05	5	<0.5
45013	Rock	0.289	7	118	1.25	54	0.188	<20	2.34	0.063	0.91	13.2	<0.01	5.3	1.0	1.31	10	3.4
45014	Rock	0.216	8	47	0.61	185	0.075	<20	0.81	0.013	0.39	11.3	<0.01	1.5	0.4	0.68	6	2.4
45015	Rock	0.191	4	66	0.38	73	0.019	<20	0.99	0.014	0.17	2.3	<0.01	2.7	0.3	2.56	7	8.4
45016	Rock	0.003	<1	13	<0.01	10	0.001	<20	0.04	0.011	0.01	0.5	<0.01	0.1	<0.1	<0.05	<1	<0.5
45017	Rock	0.004	31	12	<0.01	21	0.003	<20	0.35	0.061	0.16	0.3	<0.01	0.2	<0.1	<0.05	2	<0.5
45018	Rock	0.003	4	16	0.02	13	<0.001	<20	0.13	<0.001	0.08	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5
45019	Rock	0.016	4	16	0.03	17	<0.001	<20	0.19	<0.001	0.10	0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5
45020	Rock	0.002	23	10	<0.01	23	<0.001	<20	0.22	0.002	0.10	0.5	0.02	0.3	<0.1	0.07	2	1.1
45021	Rock	<0.001	13	9	<0.01	22	<0.001	<20	0.26	<0.001	0.18	0.5	0.01	0.3	0.1	<0.05	2	0.8
45022	Rock	0.056	11	8	0.06	6	0.054	<20	0.78	0.051	0.02	0.1	<0.01	<0.1	<0.1	5.61	3	31.7
45023	Rock	0.002	4	33	0.70	48	0.066	<20	1.22	0.104	0.03	0.2	<0.01	6.4	<0.1	0.09	4	<0.5
45024	Rock	0.141	10	26	1.23	265	0.225	<20	3.87	0.466	0.43	0.1	<0.01	4.5	0.2	0.91	10	<0.5
45025	Rock	0.037	4	35	0.10	5549	0.044	<20	1.33	0.018	0.31	0.3	<0.01	1.4	0.2	0.08	4	6.8
45026	Rock	0.030	5	22	0.06	269	0.059	<20	0.86	0.019	0.37	0.3	<0.01	1.2	0.2	0.25	3	18.3
45027	Rock	0.071	8	35	0.59	>10000	0.054	<20	2.01	0.030	0.36	16.0	<0.01	1.9	0.2	<0.05	8	1.0
45028	Rock	0.008	<1	21	0.08	212	0.004	<20	0.19	<0.001	0.01	0.1	<0.01	0.3	<0.1	<0.05	1	5.7
45029	Rock	0.014	6	62	0.58	1711	0.012	<20	0.92	<0.001	0.07	0.1	<0.01	2.2	<0.1	0.06	5	25.9
45030	Rock	0.092	7	32	0.45	299	0.071	<20	1.06	0.041	0.43	0.3	<0.01	3.2	0.3	0.24	5	3.3
45031	Rock	0.011	11	92	1.12	177	0.272	<20	2.72	0.047	1.31	0.2	<0.01	10.3	0.6	0.17	11	<0.5
45032	Rock	0.039	13	11	0.21	96	0.077	<20	0.52	0.062	0.34	<0.1	<0.01	2.0	0.3	<0.05	4	<0.5
45033	Rock	0.055	18	50	0.47	212	0.203	<20	1.34	0.190	0.62	<0.1	<0.01	1.2	0.2	<0.05	5	<0.5
45034	Rock	0.101	24	11	0.69	442	0.310	<20	1.25	0.100	1.09	<0.1	<0.01	3.2	0.5	<0.05	6	<0.5
45036	Rock Pulp	0.090	9	43	1.24	60	0.276	<20	1.12	0.510	0.34	<0.1	<0.01	0.5	0.5	2.63	4	0.9
45037	Rock Pulp	0.115	12	54	1.56	53	0.417	<20	1.36	0.546	0.33	<0.1	<0.01	0.3	<0.1	<0.05	5	<0.5
45035	Rock	0.230	10	7	1.33	1376	0.527	<20	2.20	0.146	1.69	<0.1	<0.01	2.6	0.4	<0.05	8	<0.5
45001	Rock	0.120	4	8	0.26	81	0.057	<20	0.86	0.038	0.16	<0.1	0.45	2.0	0.2	2.32	3	1.2
45002	Rock	0.067	5	13	0.04	72	0.002	<20	0.38	0.005	0.20	<0.1	0.02	2.2	<0.1	<0.05	1	0.8



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Project: Kluane Agate
Report Date: July 21, 2011

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CERTIFICATE OF ANALYSIS

WHI11000475.1

	Method Analyte Unit MDL	WGHT	3B-50	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
45003	Rock	1.67	3	2.5	125.7	1.8	102	<0.1	59.1	37.2	955	6.90	16.3	2.0	0.2	7	0.3	0.3	<0.1	197	0.54
45005	Rock	2.59	701	0.2	83.5	1.4	37	0.3	33.8	22.8	866	3.44	1068	698.8	<0.1	101	0.2	3.1	<0.1	84	4.54
45006	Rock	1.95	8	<0.1	31.3	0.3	20	<0.1	2.9	3.4	1795	3.24	22.8	7.0	<0.1	331	<0.1	0.2	<0.1	63	9.79
45007	Rock	2.57	<2	1.3	16.7	1.5	73	0.1	9.1	5.0	249	2.52	5.7	2.0	1.7	32	<0.1	<0.1	<0.1	73	0.21
45008	Rock	1.71	<2	0.4	12.0	2.0	64	<0.1	2.2	13.3	399	3.46	1.1	<0.5	0.7	326	0.1	<0.1	<0.1	72	2.77
45009	Rock	1.61	<2	<0.1	4.9	2.6	86	<0.1	4.4	8.0	508	2.99	0.7	<0.5	4.7	36	<0.1	<0.1	<0.1	55	0.65



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CERTIFICATE OF ANALYSIS

WHI11000475.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
45003	Rock	0.066	2	74	2.41	352	0.340	<20	2.83	0.017	0.05	<0.1	0.03	9.5	<0.1	<0.05	10	<0.5	<0.2
45005	Rock	0.024	1	50	2.24	123	0.045	<20	1.68	0.011	0.08	<0.1	0.03	12.6	<0.1	0.17	4	<0.5	<0.2
45006	Rock	0.010	<1	4	5.99	26	0.002	<20	0.17	0.016	<0.01	<0.1	0.13	13.2	<0.1	0.10	1	<0.5	<0.2
45007	Rock	0.060	6	57	0.75	774	0.283	<20	1.34	0.090	0.95	<0.1	<0.01	4.4	0.3	0.09	7	1.0	<0.2
45008	Rock	0.375	11	3	1.40	688	0.208	<20	3.77	0.532	0.67	<0.1	<0.01	4.6	0.1	<0.05	10	<0.5	<0.2
45009	Rock	0.123	13	16	0.95	564	0.309	<20	1.63	0.103	0.90	<0.1	<0.01	3.2	0.3	<0.05	8	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000475.1

	Method Analyte Unit MDL	WGHT	3B-50	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																					
45010	Rock	2.77	<2	0.2	21.3	3.5	74	<0.1	41.8	18.4	508	4.11	<0.5	<0.5	4.4	9	<0.1	<0.1	<0.1	88	0.06
REP 45010	QC			0.2	22.3	3.6	74	<0.1	43.0	18.4	491	4.13	<0.5	<0.5	4.6	10	<0.1	<0.1	<0.1	88	0.07
45003	Rock	1.67	3	2.5	125.7	1.8	102	<0.1	59.1	37.2	955	6.90	16.3	2.0	0.2	7	0.3	0.3	<0.1	197	0.54
REP 45003	QC		3																		
Core Reject Duplicates																					
45021	Rock	1.42	<2	19.7	194.2	33.5	2200	0.5	1.3	0.6	359	3.44	2.0	1.1	21.9	1	1.0	<0.1	0.6	6	0.02
DUP 45021	QC		<2	18.5	201.7	34.1	2231	0.5	1.2	0.7	355	3.45	1.7	1.0	21.5	<1	0.9	<0.1	0.6	6	0.02
Reference Materials																					
STD DS8	Standard			12.8	98.2	121.0	306	1.7	37.1	7.3	603	2.44	25.8	101.1	6.2	62	2.5	3.9	6.0	41	0.72
STD DS8	Standard			12.8	112.2	124.8	301	1.5	38.7	7.6	590	2.38	24.8	99.6	6.3	64	2.0	3.3	5.9	41	0.68
STD DS8	Standard			12.8	107.7	110.3	311	1.8	36.7	7.3	606	2.41	27.9	112.5	5.7	62	2.5	4.5	6.3	40	0.68
STD OREAS45CA	Standard			0.8	500.4	18.3	63	0.3	250.7	87.3	908	16.26	3.6	40.9	6.6	15	<0.1	<0.1	0.2	209	0.44
STD OREAS45CA	Standard			0.8	499.9	18.6	60	0.3	250.3	89.6	870	15.10	2.9	34.7	6.1	14	<0.1	<0.1	0.1	210	0.40
STD OREAS45CA	Standard			0.9	505.5	20.9	65	0.3	244.6	91.3	981	16.94	3.8	39.9	6.8	15	<0.1	0.1	0.2	212	0.43
STD OXC88	Standard		201																		
STD OXC88	Standard		200																		
STD OXC88	Standard		190																		
STD OXC88	Standard		197																		
STD OXH82	Standard		1239																		
STD OXH82	Standard		1325																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
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
BLK	Blank		<2																		
BLK	Blank		<2																		
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Part 2

QUALITY CONTROL REPORT

WHI11000475.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																			
45010	Rock		0.007	14	76	1.04	140	0.210	<20	2.98	0.043	0.97	<0.1	<0.01	8.1	0.5	<0.05	11	<0.5
REP 45010	QC		0.007	15	77	1.05	145	0.218	<20	3.01	0.042	1.00	<0.1	<0.01	8.6	0.5	<0.05	11	<0.5
45003	Rock		0.066	2	74	2.41	352	0.340	<20	2.83	0.017	0.05	<0.1	0.03	9.5	<0.1	<0.05	10	<0.5
REP 45003	QC																		
Core Reject Duplicates																			
45021	Rock		<0.001	13	9	<0.01	22	<0.001	<20	0.26	<0.001	0.18	0.5	0.01	0.3	0.1	<0.05	2	0.8
DUP 45021	QC		<0.001	12	12	<0.01	20	<0.001	<20	0.25	<0.001	0.18	0.6	0.02	0.2	0.1	0.06	2	0.6
Reference Materials																			
STD DS8	Standard		0.081	13	110	0.59	293	0.102	<20	0.89	0.087	0.41	3.0	0.18	1.9	5.4	0.17	5	5.2
STD DS8	Standard		0.073	14	114	0.58	286	0.113	<20	0.88	0.083	0.39	2.6	0.18	1.5	5.1	0.16	4	4.8
STD DS8	Standard		0.086	11	110	0.59	298	0.100	<20	0.85	0.082	0.42	2.8	0.19	1.9	5.1	0.18	4	4.8
STD OREAS45CA	Standard		0.038	15	710	0.13	169	0.116	<20	3.57	0.009	0.08	<0.1	0.03	33.9	<0.1	<0.05	20	0.7
STD OREAS45CA	Standard		0.038	14	681	0.13	155	0.131	<20	3.52	0.008	0.07	<0.1	0.03	32.9	<0.1	<0.05	18	<0.5
STD OREAS45CA	Standard		0.040	16	765	0.14	172	0.137	<20	3.62	0.009	0.08	<0.1	0.03	38.2	<0.1	<0.05	19	<0.5
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected			0.08	14.6	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
STD OREAS45CA Expected			0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		



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Project:

Kluane Agate

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Part 1

QUALITY CONTROL REPORT

WHI11000475.1

		WGHT	3B-50	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																			
BLK	Blank	<2																			
BLK	Blank	<2																			
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			<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			<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
Prep Wash																					
G1	Prep Blank		<2	0.1	2.2	3.3	46	<0.1	4.1	4.3	507	1.91	<0.5	<0.5	5.1	60	<0.1	<0.1	<0.1	34	0.67
G1	Prep Blank		<2	0.1	2.2	5.0	47	<0.1	3.9	4.4	565	1.99	<0.5	<0.5	6.0	63	<0.1	<0.1	<0.1	37	0.53



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Part 2

QUALITY CONTROL REPORT

WHI11000475.1

		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 Sc ppm	1DX Tl ppm	1DX S %	1DX Ga ppm	1DX Se 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	0.1	0.05	1	0.5	0.2
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.074	9	10	0.62	204	0.126	<20	0.97	0.092	0.45	<0.1	<0.01	1.4	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	0.074	10	16	0.55	210	0.130	<20	0.96	0.083	0.44	0.1	<0.01	1.5	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Ian Gendall
Receiving Lab: Canada-Whitehorse
Received: July 13, 2011
Report Date: July 29, 2011
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CERTIFICATE OF ANALYSIS

WHI11000572.1

CLIENT JOB INFORMATION

Project: Kluane
Shipment ID: Kluane-007
P.O. Number
Number of Samples: 33

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

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: Ryan Gold Corp.
600 - 666 Burrard St.
Vancouver BC V6C 1H2
Canada

CC: Hua Jin

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	28	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B01+3B04	32	Fire assay fusion Au by ICP-ES	50	Completed	VAN
1DX1	32	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:

Kluane

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000572.1

	Method Analyte Unit MDL	WGHT	3B-50	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
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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
40623	Rock Pulp	0.16	981	1.5	25.7	44.8	47	0.3	61.3	17.8	351	4.37	2.5	914.8	1.9	114	0.3	0.2	0.3	38
40613	Rock	2.33	<2	5.1	12.3	8.8	72	0.2	2.4	0.9	139	0.58	1.0	3.9	7.5	2	0.6	<0.1	0.6	3
40614	Rock	2.55	<2	92.5	6.4	11.3	89	0.2	0.7	0.2	68	0.80	0.6	4.3	21.2	2	0.5	<0.1	<0.1	<2
40615	Rock	2.36	<2	0.9	71.8	2.9	77	0.1	57.9	16.0	373	3.97	<0.5	2.6	2.0	13	<0.1	<0.1	0.1	156
40616	Rock	2.27	2	0.9	30.6	3.6	108	0.1	36.6	10.7	438	3.99	4.1	0.7	4.8	16	<0.1	<0.1	0.2	56
40617	Rock	2.23	3	0.7	52.2	4.6	106	<0.1	98.5	37.9	680	3.51	13.3	3.5	3.1	16	0.1	<0.1	0.1	71
40051	Rock	2.49	<2	1.2	5.6	14.1	66	0.1	2.4	1.7	274	1.49	0.8	6.0	8.7	13	0.2	0.1	0.4	5
40052	Rock	4.05	<2	0.2	7.6	19.3	67	0.2	6.3	5.1	405	1.75	0.6	2.7	5.7	40	0.3	0.2	0.4	11
41301	Rock	1.65	<2	2.7	8.3	9.3	75	0.4	1.6	7.4	371	3.26	<0.5	0.7	5.9	30	0.5	0.4	0.4	41
41303	Rock	1.23	4	2.6	1180	138.5	195	7.3	42.7	41.2	385	6.58	8.9	8.1	2.1	273	2.5	0.2	0.9	365
41911	Rock	2.32	2	11.1	14.8	9.5	40	0.8	24.8	0.5	40	0.50	56.6	2.8	1.0	3	0.1	9.1	<0.1	253
40619	Rock Pulp	0.15	<2	1.2	26.4	5.3	41	<0.1	81.4	20.9	406	2.99	<0.5	1.3	1.6	176	<0.1	<0.1	<0.1	53
41912	Rock	2.28	<2	0.5	8.2	2.0	55	0.4	12.6	0.8	100	0.57	2.5	1.7	1.9	5	0.8	0.2	<0.1	14
40604	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
40624	Rock Pulp	0.15	968	1.5	22.0	44.1	45	0.2	58.5	17.9	333	4.31	3.0	905.5	1.9	108	0.3	0.3	0.3	36
40117	Rock	1.58	8	15.0	57.3	8.0	31	1.2	7.7	3.7	32	0.90	27.3	5.3	2.5	13	0.2	4.9	0.2	84
40118	Rock	1.58	<2	1.4	3.9	35.3	79	0.3	1.8	0.9	73	0.90	2.3	0.8	9.2	<1	0.1	<0.1	0.5	<2
40119	Rock	1.42	<2	1.6	3.2	14.3	45	0.1	0.7	0.2	32	0.82	<0.5	2.1	13.0	2	0.1	<0.1	0.2	<2
40120	Rock	1.28	<2	0.6	33.9	6.0	62	0.3	33.0	16.7	125	3.43	1.0	1.6	11.3	235	0.1	<0.1	0.5	54
40088	Rock	2.50	9	1.2	38.8	8.0	58	0.4	165.6	34.1	398	3.00	839.4	7.8	7.2	85	0.3	2.8	1.0	75
40089	Rock	2.30	4	3.0	44.7	15.7	116	0.5	29.2	7.1	166	2.48	14.2	4.8	5.4	8	0.7	0.8	0.3	86
40620	Rock Pulp	0.14	<2	1.2	27.9	5.5	42	<0.1	84.8	21.4	407	3.03	<0.5	1.8	1.7	178	<0.1	<0.1	<0.1	54
41302	Rock	1.95	13	1.3	82.9	13.8	171	1.1	2.0	16.4	594	4.44	34.6	14.2	2.2	243	2.5	0.5	0.3	119
41304	Rock	1.97	18	1.0	106.2	16.0	240	4.1	37.9	10.9	330	3.08	284.9	20.1	5.1	47	5.3	3.7	0.4	70
40603	Rock	2.61	214	1.1	>10000	3.8	325	34.7	13.3	45.2	139	5.91	266.7	164.7	4.5	15	4.9	2.5	8.9	46
40751	Rock	2.35	14	0.2	111.4	16.1	27	1.4	49.8	26.6	137	3.59	10.5	16.3	0.6	461	0.3	0.2	0.3	46
40053	Rock	2.67	<2	1.1	31.1	13.6	101	<0.1	2.4	0.9	132	1.05	1.0	2.3	12.0	<1	0.1	<0.1	0.1	<2
40054	Rock	3.15	<2	0.9	3.9	12.2	73	<0.1	0.9	0.5	116	0.99	0.6	2.4	13.9	3	<0.1	<0.1	<0.1	<2
40055	Rock	2.44	<2	1.0	20.2	1.9	25	<0.1	6.7	2.0	105	1.37	1.6	3.4	4.1	6	<0.1	<0.1	0.1	39
40056	Rock	4.13	<2	0.7	25.1	1.7	27	<0.1	10.8	2.6	114	0.75	1.2	3.4	1.2	41	0.2	<0.1	<0.1	16



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Part 2

CERTIFICATE OF ANALYSIS

WHI11000572.1

	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	Sc	Tl	S	Ga	Se
		%	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	0.1	0.05	1	0.5
40623	Rock Pulp	0.080	10	47	1.28	62	0.295	<20	1.22	0.526	0.34	<0.1	<0.01	0.8	0.4	2.58	4	0.8
40613	Rock	0.006	12	10	0.01	11	0.002	<20	0.21	0.029	0.09	0.2	<0.01	0.4	<0.1	<0.05	1	<0.5
40614	Rock	<0.001	20	9	<0.01	16	0.007	<20	0.22	0.073	0.11	0.4	<0.01	0.2	<0.1	<0.05	2	<0.5
40615	Rock	0.086	7	97	1.08	505	0.270	<20	2.99	0.059	1.31	<0.1	<0.01	11.0	0.2	0.08	9	<0.5
40616	Rock	0.072	8	50	1.21	56	0.048	<20	2.08	0.019	0.17	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5
40617	Rock	0.074	8	60	1.18	63	0.055	<20	1.99	0.034	0.22	<0.1	<0.01	3.8	<0.1	<0.05	7	<0.5
40051	Rock	0.022	39	7	0.12	55	0.005	<20	0.63	0.048	0.23	<0.1	<0.01	1.3	0.2	<0.05	5	<0.5
40052	Rock	0.050	28	9	0.41	195	0.018	<20	1.09	0.045	0.32	<0.1	<0.01	1.6	0.1	<0.05	5	<0.5
41301	Rock	0.177	18	5	0.43	66	0.211	<20	0.93	0.113	0.42	0.4	<0.01	2.5	0.4	1.17	6	4.5
41303	Rock	0.281	10	55	1.44	279	0.508	<20	6.97	0.483	1.59	3.3	<0.01	14.1	2.4	1.70	23	12.5
41911	Rock	0.011	6	20	0.01	89	0.005	<20	0.12	0.001	0.09	0.6	0.01	0.5	0.1	<0.05	<1	<0.5
40619	Rock Pulp	0.100	11	53	1.54	48	0.386	<20	1.48	0.545	0.32	<0.1	<0.01	0.4	<0.1	<0.05	5	<0.5
41912	Rock	0.013	5	18	0.13	93	0.053	<20	0.36	0.005	0.06	0.1	<0.01	0.6	<0.1	<0.05	1	<0.5
40604	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
40624	Rock Pulp	0.081	9	46	1.23	60	0.282	<20	1.17	0.506	0.31	<0.1	0.01	0.7	0.4	2.59	4	0.8
40117	Rock	0.427	11	26	0.12	282	0.005	<20	0.35	0.003	0.10	0.4	<0.01	0.6	<0.1	0.36	1	7.3
40118	Rock	0.002	23	6	<0.01	14	0.001	<20	0.23	0.058	0.11	<0.1	<0.01	0.2	<0.1	<0.05	2	<0.5
40119	Rock	0.002	12	5	<0.01	46	0.004	<20	0.22	0.057	0.13	0.3	<0.01	0.6	<0.1	<0.05	2	<0.5
40120	Rock	0.043	15	74	1.62	38	0.199	<20	3.94	0.306	1.34	0.2	<0.01	7.4	0.6	1.10	13	<0.5
40088	Rock	0.058	10	73	1.35	443	0.282	<20	3.74	0.182	0.95	0.4	<0.01	5.3	0.6	0.53	11	1.4
40089	Rock	0.081	13	31	0.67	294	0.057	<20	1.42	0.026	0.50	0.2	<0.01	3.0	0.3	0.42	5	1.2
40620	Rock Pulp	0.104	12	52	1.59	49	0.420	<20	1.50	0.557	0.32	<0.1	<0.01	0.5	<0.1	<0.05	5	<0.5
41302	Rock	0.248	12	2	1.20	178	0.219	<20	5.99	0.154	1.12	3.6	<0.01	5.3	1.5	1.61	15	4.7
41304	Rock	0.072	10	56	0.86	86	0.170	<20	3.55	0.061	0.69	0.9	<0.01	6.3	0.9	0.93	12	1.0
40603	Rock	0.042	6	54	0.38	23	0.013	<20	0.61	0.005	0.09	11.4	<0.01	2.7	<0.1	3.38	5	15.5
40751	Rock	0.219	8	18	0.28	14	0.346	<20	4.87	0.225	0.05	0.4	<0.01	1.3	<0.1	2.02	12	1.0
40053	Rock	0.001	11	3	0.01	28	0.023	<20	0.40	0.062	0.12	0.4	<0.01	0.3	<0.1	<0.05	4	<0.5
40054	Rock	0.004	21	4	0.02	38	0.008	<20	0.39	0.053	0.14	0.2	<0.01	0.5	<0.1	<0.05	4	<0.5
40055	Rock	0.032	10	34	0.31	114	0.036	<20	0.77	0.012	0.31	<0.1	<0.01	1.8	0.1	<0.05	3	<0.5
40056	Rock	0.055	4	16	0.05	20	0.025	<20	0.22	0.002	0.04	0.2	<0.01	0.5	<0.1	<0.05	<1	<0.5



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Project: Kluane
Report Date: July 29, 2011

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CERTIFICATE OF ANALYSIS

WHI11000572.1

	Method Analyte Unit MDL	WGHT	3B-50	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
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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
40057	Rock	3.48	<2	0.5	26.5	11.9	57	0.1	11.7	5.1	194	1.68	1.1	2.0	18.1	5	0.4	<0.1	0.2	22
40601	Rock	2.16	<2	0.8	6.6	16.6	46	0.1	2.0	1.3	305	0.84	0.5	1.7	6.0	23	0.2	0.2	0.3	<2
40602	Rock	2.95	<2	0.9	13.2	4.5	97	<0.1	6.4	10.2	754	3.64	2.1	1.8	1.9	37	<0.1	<0.1	<0.1	44



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CERTIFICATE OF ANALYSIS

WHI11000572.1

	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	Sc	Tl	S	Ga	Se	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	0.1	0.05	1	0.5	0.2
40057	Rock	0.030	42	26	0.32	41	0.038	<20	0.97	0.029	0.35	0.1	<0.01	2.3	0.4	<0.05	4	<0.5	<0.2
40601	Rock	0.019	29	3	0.11	116	0.002	<20	0.61	0.030	0.27	<0.1	<0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
40602	Rock	0.123	10	12	0.82	136	0.114	<20	1.97	0.055	0.16	<0.1	0.10	3.4	<0.1	0.20	6	<0.5	0.4



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Part 1

QUALITY CONTROL REPORT

WHI11000572.1

	Method Analyte Unit MDL	WGHT	3B-50	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																					
40614	Rock	2.55	<2	92.5	6.4	11.3	89	0.2	0.7	0.2	68	0.80	0.6	4.3	21.2	2	0.5	<0.1	<0.1	<2	0.12
REP 40614	QC			78.4	6.6	11.6	90	0.2	0.6	0.2	70	0.80	0.7	2.2	22.4	2	0.6	<0.1	<0.1	<2	0.13
41911	Rock	2.32	2	11.1	14.8	9.5	40	0.8	24.8	0.5	40	0.50	56.6	2.8	1.0	3	0.1	9.1	<0.1	253	0.02
REP 41911	QC		2																		
40603	Rock	2.61	214	1.1	>10000	3.8	325	34.7	13.3	45.2	139	5.91	266.7	164.7	4.5	15	4.9	2.5	8.9	46	0.47
REP 40603	QC		209																		
Core Reject Duplicates																					
41303	Rock	1.23	4	2.6	1180	138.5	195	7.3	42.7	41.2	385	6.58	8.9	8.1	2.1	273	2.5	0.2	0.9	365	3.58
DUP 41303	QC		5	2.6	1171	133.1	175	7.0	37.1	37.4	351	6.29	8.9	5.8	1.8	266	2.2	0.2	0.9	348	3.45
Reference Materials																					
STD DS8	Standard			12.7	104.3	121.2	302	2.0	37.0	7.4	584	2.45	26.4	98.9	6.3	62	2.4	4.9	6.5	42	0.71
STD OREAS45CA	Standard			1.0	502.2	20.7	62	0.3	249.2	91.8	879	16.04	6.3	41.0	6.9	15	0.1	0.2	0.2	206	0.43
STD OXC88	Standard		192																		
STD OXC88	Standard		200																		
STD OXH82	Standard		1254																		
STD OXH82	Standard		1301																		
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		<2																		
BLK	Blank		<2																		
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																		
Prep Wash																					
G1	Prep Blank		<2	0.1	2.0	2.8	43	<0.1	3.2	4.1	520	1.80	<0.5	4.6	4.9	59	<0.1	<0.1	<0.1	36	0.48
G1	Prep Blank		<2	0.2	1.8	3.0	47	<0.1	3.7	4.2	543	1.89	<0.5	1.9	5.2	64	<0.1	<0.1	<0.1	36	0.49



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Report Date: July 29, 2011

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QUALITY CONTROL REPORT

WHI11000572.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																			
40614	Rock		<0.001	20	9	<0.01	16	0.007	<20	0.22	0.073	0.11	0.4	<0.01	0.2	<0.1	<0.05	2	<0.5
REP 40614	QC		<0.001	21	7	<0.01	17	0.007	<20	0.22	0.073	0.12	0.4	<0.01	0.2	<0.1	<0.05	2	<0.5
41911	Rock		0.011	6	20	0.01	89	0.005	<20	0.12	0.001	0.09	0.6	0.01	0.5	0.1	<0.05	<1	<0.5
REP 41911	QC																		
40603	Rock		0.042	6	54	0.38	23	0.013	<20	0.61	0.005	0.09	11.4	<0.01	2.7	<0.1	3.38	5	15.5
REP 40603	QC																		
Core Reject Duplicates																			
41303	Rock		0.281	10	55	1.44	279	0.508	<20	6.97	0.483	1.59	3.3	<0.01	14.1	2.4	1.70	23	12.5
DUP 41303	QC		0.271	8	48	1.36	253	0.461	<20	6.72	0.465	1.57	3.2	<0.01	13.3	2.4	1.66	21	14.1
Reference Materials																			
STD DS8	Standard		0.078	14	113	0.60	285	0.113	<20	0.90	0.082	0.41	2.5	0.18	1.8	4.8	0.16	5	4.8
STD OREAS45CA	Standard		0.039	16	727	0.13	166	0.135	<20	3.65	0.013	0.07	<0.1	0.03	35.4	<0.1	<0.05	19	0.9
STD OXC88	Standard																		
STD OXC88	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	2.3	5.4	0.1679	4.7	5.23
STD OREAS45CA Expected			0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5
STD OXC88 Expected																			
STD OXH82 Expected																			
BLK	Blank																		
BLK	Blank																		
BLK	Blank		<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank		0.075	9	8	0.55	217	0.122	<20	0.97	0.085	0.46	<0.1	<0.01	1.8	0.3	<0.05	5	<0.5
G1	Prep Blank		0.077	10	11	0.56	221	0.123	<20	0.96	0.078	0.47	<0.1	0.01	1.9	0.3	<0.05	5	<0.5