Report on the 2011 Geochemical Program
Sky Lake Property, Pickle Lake, Ontario

Patricia Mining Division, Ontario

51° 14' N, 90° 39' W

NTS 52O07SE, 52O02NE, 52O02NW

FOR

TRI ORIGIN EXPLORATION LTD.

125 Don Hillock Dr., Unit 18
Aurora, Ontario
L4G 0H8

Frank R. Kendle, BSc

November 21, 2011

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1.0 INTRODUCTION AND PROPERTY DESCRIPTION

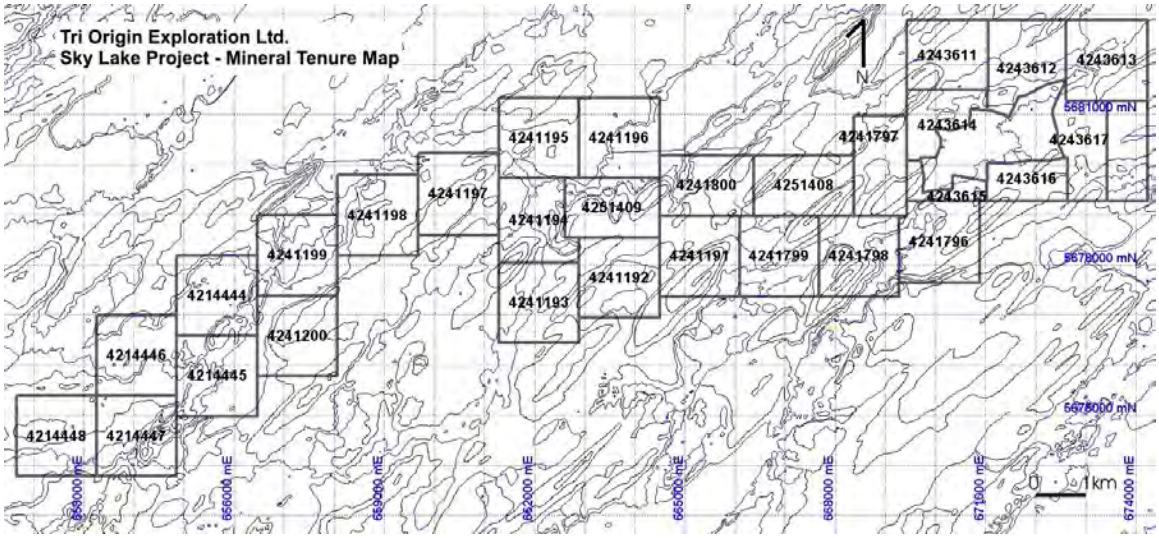
This report presents the processes and results of the summer 2011 humus and mineral soil sampling programme on two claims (4251408 and 4251409) optioned from Manicouagan Minerals Inc. which are contiguous to Tri Origin's Sky Lake property. Five days were spent collecting 109 humus and 292 mineral soil samples by two geologists and a helper.

The Sky Lake property lies within three mapping districts of Duffell Lake, Caley Lake, and Matapesatakun Bay Area in the Patricia Mining Division in northern Ontario. The property is located approximately 20 kilometres southwest of the town of Pickle Lake.

FIGURE 1: Property Location

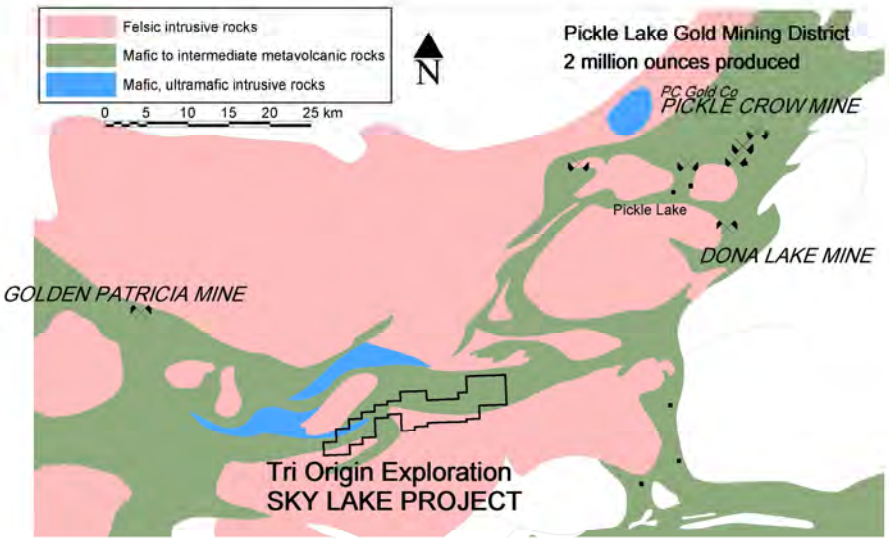
The Sky Lake property consists of 30 unpatented mining claims comprised of 290 units and covering a nominal 6,928 ha (Figure 2). All of the claims are in one contiguous block with 20 owned 100% by Tri Origin Exploration Ltd., 8 held under an option agreement with Kitrinor Metals Inc. and 2 held under option agreement with Manicouagan Minerals Inc. The claims are listed in Appendix A.

FIGURE 2: Mineral Tenure Map



2.0 REGIONAL GEOLOGY

FIGURE 3: Regional Geology



2.1 PHYSIOGRAPHY AND VEGETATION

Drainage of the property area is southward via Matapesatakun Creek from Bancroft Lake to Lake St. Joseph, 1,227ft. (374 m) above sea level. Maximum relief is in the order of 115ft. (35m) with the highest elevations on southwest trending drumlins in the southwestern portions of the property. Most of the area is overburden covered with low swamps and boulder tills which probably average less than 20 feet in thickness. Outcrop is more common in the central portion of the property.

2.2 REGIONAL GEOLOGY AND ECONOMIC MINERALIZATION (Jolliffe, 1996)

The property is located within the Uchi Subprovince, a part of the Superior Province in the Canadian Shield. The area is characterized by several arcuate, highly deformed and coalescing greenstone belts, consisting of predominantly mafic to intermediate volcanic flows, which have been intruded by numerous granitic to ultramafic intrusive bodies. The metamorphic grade ranges from greenschist to amphibolite facies. The volcanics host subordinate amounts of felsic to mafic pyroclastics, sediments and iron formation. Felsic quartz-feldspar porphyry dykes are commonly found in all lithologies.

Historically, gold production in the Pickle Lake area has been from structurally controlled vein type deposits or sulphide replacement bodies spatially associated with, or contained within, bands of Algoman (chert-magnetite) iron formation. The most important of these were the former producing Pickle Crow and Central Patricia mines (operated from 1935 to 1966 and 1934 to 1951, respectively) which collectively producing 2,068,020 ounces of gold from 4,966,820 tons of ore for an average grade of 0.416 ounces of gold per ton.

The Golden Patricia Mine of Barrick Gold Inc. (approx. 70,000 ounces gold per year) is located about 25 miles west-northwest of the property. The gold mineralization occurs in a quartz vein in a shear zone which cuts through a mafic metavolcanic succession.

Ultramafic rocks host copper-nickel mineralization at the former producing Thierry Mine, seven miles northwest of Pickle Lake, with mined ore and mineral reserves totaling 14,000,000 tons grading 1.6 % copper and 0.2% nickel.

3.0 PROPERTY GEOLOGY

The central portion of the property in proximity to the Koval claims is the area of most abundant outcrop. The area is underlain by a west-southwest trending, vertical to steeply south-dipping assemblage of metavolcanic and metasediments with minor intrusive rocks. The northern 1/3 is dominated by mafic volcanics, mainly massive flows with some pillowed flows and tuffs, along with minor chemical sediments (oxide facies iron formation) and felsic volcanics. A diabase intrusive in the north-central area has been roughly outlined by limited outcrop exposure and previous magnetometer survey. Feldspar porphyry dykes and sills outcrop locally and granitic intrusives have been intersected in drilling. South of the thick northern mafic volcanic unit are intermittently exposed fine clastic metasediments (mainly argillite, siltstone) and felsic volcanics. The central area is underlain by the 'Central Intermediate-Mafic Volcanic1 (CIMV) assemblage comprising intermediate volcaniclastic rocks), enclosed by mafic volcanics to the north (massive flows and tuffs) and south (massive and pillowed flows with pillow breccia) as well as minor intercalated fine clastic metasediments and felsic volcanics. The intermediate volcanic rocks and the iron formation host several historical significant gold zones on the property. On surface the intermediate volcanics hosting the gold zones are characterized by a biotite-calcite matrix and a scalloped weathering pattern. Primary textures are unclear but possible lapilli have been noted locally.

4.0 PREVIOUS WORK

Previous work completed on the claims optioned from Manicouagan Minerals Inc. involved limited geological mapping which returned grab samples containing 1.03g/t Au in an iron formation and 1.37g/t Au in silicified mafic metavocanics (MDI52O02NE00005) on Claim group 4251408. Several short diamond drill holes as indicated by Ontario assessment files were also completed on the claim groups. Four diamond drill holes were completed on claim group 4251409 highlighted by an intersection of 1.4g/t Au in magnetic ironstone (MDI52O02NE00007) by Bond Gold in 1990.

Previous work on the remainder of the Sky Lake Property involved numerous phases of exploration activity as described below.

The first recorded discovery of gold in the Dempster-Pickle Lake belt was made in 1954 by prospector Ben Ohman near Bancroft Lake (Scratch, 1984) on the property now held by Norcanex Ltd.

During 1953-54 the property was optioned to Hasaga Gold Mines Ltd., who performed geological mapping, trenching and diamond drilling. The diamond drill program consisted of 87 drill holes combining to a total length of 6365.8 m. The drill program outlined numerous interesting gold intersections.

In 1960, 28 claims were surveyed and patented over the deposit. They are referred to as the Koval claims and were held by Lac Minerals and have since passed to Barrick Gold Corporation. Lac completed line cutting, geological mapping and magnetic and IP geophysical surveys. In 1996, Moss Resources drilled a total of 808.3m in eight BQ diamond drill holes.

During 1969, Newconex Canadian Exploration conducted ground electromagnetic and geological surveys on their “Ed” claim block at the western end of Tri Origin’s present-day claim block. They delineated zones of pyrite.

Other companies have carried out exploration work on the ground immediately adjacent to the Koval claims on the east side:

- Union Minerie Exploration and Mining Corporation Ltd. conducted extensive airborne and ground geophysical surveys and 4465 m of diamond drilling in 1971-1972. One of these holes was collared on the Norcanex property, but all the rest of the work was done to the north and east of the claims which are the subject of the present report. There is no record of any samples having been assayed from that hole.

- In 1983-84 Moss Resources Ltd. conducted geological mapping and magnetic, VLF-em and IP geophysical surveys as well as rock and humus geochemistry. This was followed by a 20 hole, 1522.78 m diamond drill program.

- From July 1 – August 22, 1984 Golden Maverick Resources conducted reconnaissance geological mapping and rock and humus geochemistry. A total of 53 rock samples and 572 humus samples were collected and analyzed for Au, Ag, As, Sb, Mo and Ba. They also carried out limited diamond drilling between 1984 and 1988.

- In September 1988 Bond Gold mapped the area they referred to as the Caley Lake claim block, to the west of the patented Koval claims, and drilled three holes in October of that year. No assay results were reported.

- In November and December of 2009 Tri Origin Exploration contracted Aeroquest to complete 1303.38 line-km of helicopter time domain electromagnetic and magnetics on the Sky Lake property.

- In July 2010 Tri Origin Exploration Ltd. completed a mineral soil and humus survey over sections of the claim group which were determined by interpreting the VTEM data from the Aeroquest survey flown in 2009.

- In July 2010 Tri Origin Exploration Ltd. completed a small mapping and rock geochemistry programme over selected areas of the property as determined by interpreting he VTEM data from the Aeroquest survey flown in 2009.

5.0 2011 EXPLORATION WORK CONDUCTED BY TRI ORIGIN EXPLORATION LTD.

5.1 2011 HUMUS AND MINERAL SOIL SAMPLING PROGRAM

A mineral soil and humus sample survey was completed on the two claims optioned from Manicouagan Minerals Inc. in 2011. B-horizon mineral soil samples were collected where a well developed B horizon was present. In areas where a proper B horizon was not evident a humus sample was collected. At sample sites where humus and B horizon material was not present no material was collected. The primary objective of the surveys was to collect a well developed B horizon soil sample where possible.

Surveys were completed on 100m spaced transects determined by known geology and interpretation of geophysical surveys. Navigation was facilitated by using a combination of GPS, compass and pace. Samples were collected at 25 m intervals along these transect lines. All sample collection points were marked with labelled flagging tape and a metal tag which were marked with the corresponding sample number.

The surveys were completed using a 1.25m long 5cm “Eijkelkamp” Dutch hand held soil auger. Samples were placed in Kraft sample bags, which were identified by with a sample number.

UTM (NAD 83 datum Zone 15) co-ordinates were recorded at each sample site with a hand held Garmin GPS Map60Csx or a Garmin GPS 520Hcx. A sample description recorded the colour, vegetation (in the vicinity of the sample site), slope and any other relevant comments at each sample site. This information was then transferred to computer (MapInfo) at the end of each day. Appendix B and C presents the soil sample descriptions and humus sample descriptions respectively. A duplicate sample was

collected every twenty-fifth sample over the course of the survey. The duplicate sample was generally collected within 1 metre of the original sample.

At the end of each day a portion of the samples were analysed by Tri Origin staff to determine the pH level of each sample. The analysis of pH was conducted using a Hanna pH Tester 30 handheld pH tester. All pH testers were calibrated using a two point slope calibration prior to analysis everyday or every 100 samples. A small portion of each sample was mixed with distilled water, agitated slightly and the pH test was then taken and recorded. The results are included with the sample descriptions Appendix B and C.

Upon completion of the pH analysis, the samples were then dried by hanging in a dry secure area. Once the samples were dry they were packaged for transport. Samples were then dropped off at Activation Laboratories Thunder Bay facility for preparation and analysis of gold and multielement content.

The method of analysis utilised was dependant on the sample matrix, humus samples were analysed using the instrumental neutron activation analysis (INAA) method while mineral soil samples were analysed using the fire assay/atomic absorption (FA-AA) method for gold content and the base metal content was determined using the argon inductively coupled plasma (AR-ICP) method.

Activation Laboratories sample preparation and procedures are appended in Appendix D. Activation Laboratories Certificate of Analysis for the soil and humus samples are appended in Appendix E and F respectively.

In total, 109 humus and 292 mineral soil samples were collected over a 4 day period from August 11-15 2011 on the two claim groups 4251408 (Figure 4) and 4251409 (Figure 5) optioned from Manicouagan Minerals Inc.

5.2 INTERPRETATION AND GEOCHEMICAL ANALYTICAL RESULTS

The analytical results obtained through field analysis of pH levels were compiled in a database and displayed graphically (Figure 6). The pH values were used to identify areas with anomalously low pH in humus/soil. Areas with low pH are thought to correspond to sulphide mineralization in bedrock. Recorded values for pH of the humus samples ranged from a low of 4.59 to a high of 7.26. Recorded values for pH of the soil samples ranged from a low of 5.02 to a high of 7.33.

Gold values for the mineral soils and humus samples collected are displayed graphically (Figure 7).

6.0 GEOCHEMICAL RESULTS

The 2011 exploration program was conducted on the two claim groups (4251408 and 4251409) recently joint ventured from Manicouagan Minerals Inc.

All pH results are shown in Appendix B and C and on Figure 6. The preliminary results of the pH analyses of the mineral soils and humus indicate numerous trends with lower pH values. On the eastern most claim group (4251408) these pH lows are associated with a large drumlin which strikes NE-SW. On the western claim group (4251409) the pH values are more varied making it difficult to interpret them. Elevated gold values obtained from the soil sample survey appear to correlate with the higher pH values.

Assay results for the soil samples are appended (Appendix E) and gold values are shown graphically on Figure 7. Gold values ranged from less that the detection limit (5ppb) to a maximum of 195 ppb. A total of 203 samples were below the detection limit. Four samples were above 100ppb. Six samples assayed between 20 and 50 ppb Au.

Assay results for the humus samples are appended (Appendix F) and gold values are shown graphically on Figure 7. Gold values ranged from less that the detection limit (1ppb) to a maximum of 5 ppb. A total of 103 samples were below the detection limit. One sample assayed 2 ppb, four samples assayed 3ppb and one sample assayed 5 ppb Au.

Two anomalous areas in gold were identified by the Geochemical sample survey, one on each of the claims. On the western claim (4251409) an anomaly was detected around easting 663000E in the center of the claim. This anomaly is interesting in that two soil samples 272014 (123 ppb Au) and 272057 (127ppb Au) are located within close proximity (120m) of each other on the south side of a small hill. The highest value detected in the humus, sample 281002 (5ppb Au) was also located in close proximity to the anomolus soil samples. These samples are also located on the south edge of a magnetic high, which is indicated in historic work to be a favourable target area. During the course of the survey it was observed that numerous outcrops were located in this area. Also noted was the potential for bedrock to be uncovered due to a small amount of overburden.

On the eastern claims there appears to be an east west trending anomaly, this however is not conclusive as there is limited data. The anomaly appears to strike to the west onto a section of the survey that was primarily covered by black spruce swamp. Although humus sample 281035 (3ppb Au) appears to be along strike to this soil anomaly there still needs to be more sample points collected to verify if this anomaly.

7.0 RECOMMENDATIONS AND CONCLUSIONS

The geochemical survey completed on the two claims indicates that this type of survey is very useful in identifying prospective target areas for future work on the property.

It is recommended that line cutting and ground geophysical (IP) surveys be completed on the eastern Claim group (4251408) due to the lack of outcrop noted during the geochemical survey. Particular attention should be noted if the IP anomalies correspond with the geochemical anomalies On the western claim group (4251409) numerous outcrops were observed during the course of the geochemical survey and it is recommended that a detailed mapping and sampling program be undertaken during the next field season, with extra attention paid to the geochemical anomaly located around UTM coordinate 663000 east located in the central part of the claim.

8.0 PERSONNEL

Camille Spencer	Geoscientist Consultant	Richmond Hill, Ontario
Ash Mantashi	Geotechnician Tri Origin Exploration Ltd.	Aurora, Ontario
Frank Kendle	Contract Geologist Tri Origin Exploration Ltd.	Queensville, Ontario
Brad Redden	Contract Geologist Tri Origin Exploration Ltd	Halifax, Nova Scotia
Philip Arlos	Field Assistant (Student) Tri Origin Exploration Ltd	Mississauga, Ontario

9.0 STATEMENT OF QUALIFICATIONS

I, **Frank Kendle,** of 20648 Leslie St., Queensville, Ontario, L0G 1R0, do hereby certify that:

1. I am a consulting geologist.
2. I graduated with a Bachelor of Science (Geology), from Mount Allison University, in 1988.
3. I have worked as a geologist for a total of 23 years since my graduation from university.
4. I am responsible for the technical report titled "Report on the 2011 Geochemical Program Sky Lake Property, Pickle Lake, Ontario"
5. My knowledge of the property as described herein was obtained by fieldwork.
6. I have no direct interest, nor do I expect to receive any interest in the mining claims that comprise the Sky Lake Property within the townships of Duffell Lake, Caley Lake and Matapesatakun Bay in the Patricia Mining division.
7. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
8. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this 21st day of September, 2011.

FRANK KENDLE

10.0 REFERENCES

Jolliffe, T.S. 1996. Report on Diamond Drilling, Koval Property, Patricia Mining Division, Northwestern Ontario for Moss Resources, Inc. 90pp. AFRI 52O02NE001.

Scratch, R, 1984. Report on Reconnaissance Geologic Mapping and Humus Sampling of the Golden Maverick Resources Corporation – Bancroft Lake Project currently under option to Kennco Explorations (Canada) Ltd. 87pp. AFRI 52O08SW0019.

FIGURES

Tri Origin Exploration

Figure 4
2011 Sky Lake
Geochem Sample Location
Claim # 4251408

Date:12/10/2011
Author:
Office: Aurora
Drawing:
Scale: 1:5000
Projection: UTM Zone 15, Northern Hemisphere (WGS 84)

Claim # 4251409

663,000 mE

663,500 mE

664,000 mE

664,500 mE

Caley Lake

5,679,500 mN

5,679,000 mN

5,678,500 mN

Legend

- Soil Sample Site
- Humus Sample Site

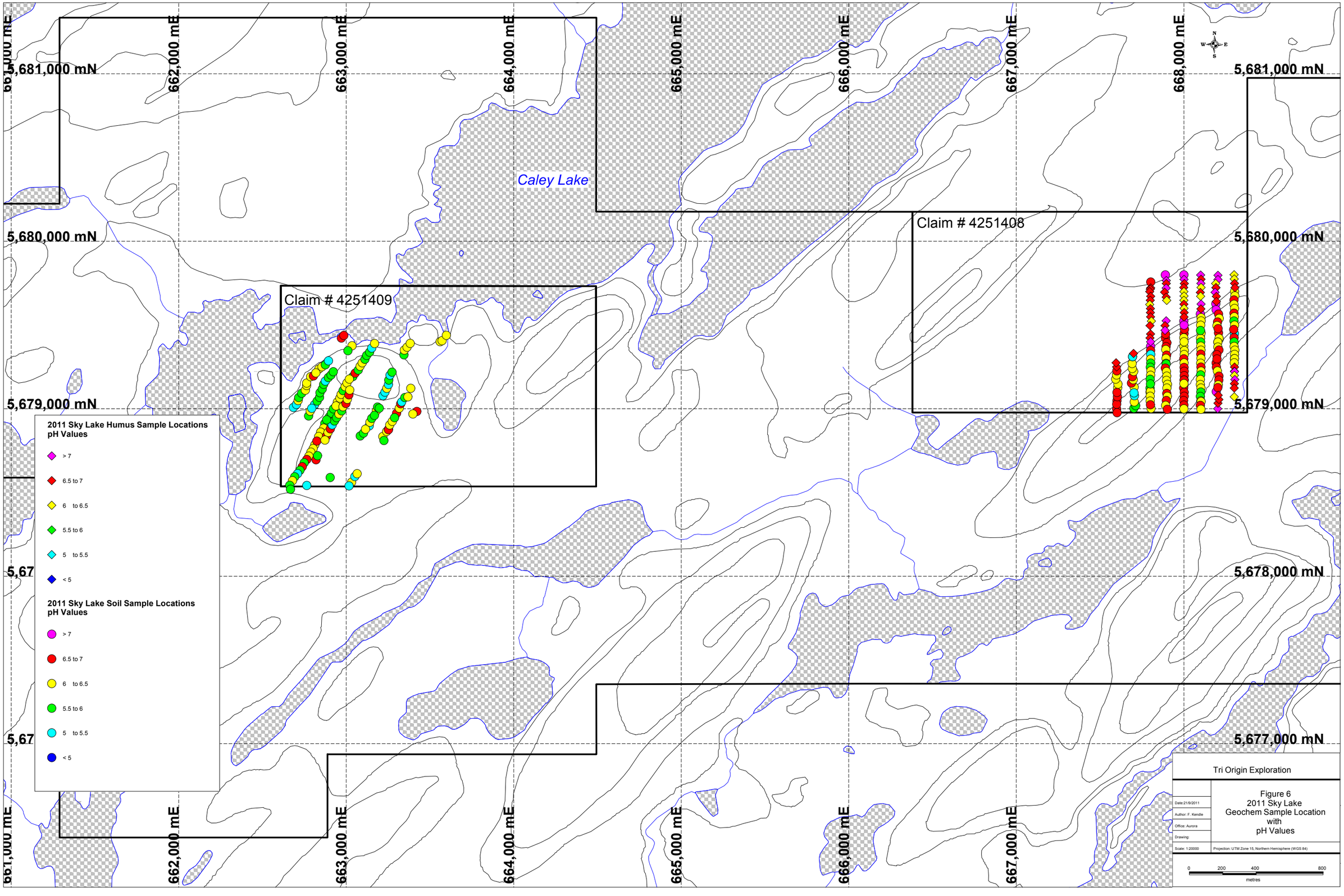
292017 292016 291007 281009 281008 282015 281007 282014 281006 281005 281004 281003 281002 282013 281001 282012 282011 282010 282009 282008 282007 282006 282005 282004 282003 282002 282001 291005 291004 292015 292014 292013 292012 292011 292010 292009 292008 292007 292006 292005 291003 292004 292003 292002 291002 292001 291001 272024 272023 272022 272021 272020 272019 272018 272017 272016 272015 272014 272013 272012 272011 272010 272009 272008 272007 272006 271001 272005 272004 272003 272002 272001 272026 272025 272027 272028 272029 272030 272031 272032 272033 272034 272035 272036 272037 272038 272039 272040 272042 272041 272059 272058 272057 272056 272055 272054 272053 272052 272050 272051 272049 272048 272047 272046 272045 271009 271008 271007 272044 272043 271006 271005 271004 271003 271002 272042 282016 281010 281011 281012 281013 281014 281015 281016 281017 281018 281019 281020 282017 282018 282020 282019 282021 282022 282023 282024 282026 282025 281022 281021 282027 282028 282029 282030 282031 282032 282033 281023 281024 282034 282035 282036 282037 292039 292038 292037 292036 291008 291009 292035 292034 292033 292032 292031 292030 292041 292040 292029 292028 292027 292025 292026 292024 292022 292023 292021 292020 292019 292018

Tri Origin Exploration

Figure 5
2011 Sky Lake
Geochem Sample Location
Claim # 4251409

Date: 12/10/2011
Author:
Office: Aurora
Drawing:
Scale: 1:5000
Projection: UTM Zone 15, Northern Hemisphere (WGS 84)

0 50 100 200
metres


661,000 mE
662,000 mE
663,000 mE
664,000 mE
665,000 mE
666,000 mE
667,000 mE
668,000 mE
5,681,000 mN
5,680,000 mN
5,679,000 mN
5,678,000 mN
5,677,000 mN
Caley Lake
Claim # 4251408
Claim # 4251409
2011 Sky Lake Humus Sample Locations
pH Values
> 7
6.5 to 7
6 to 6.5
5.5 to 6
5 to 5.5
< 5
2011 Sky Lake Soil Sample Locations
pH Values
> 7
6.5 to 7
6 to 6.5
5.5 to 6
5 to 5.5
< 5
N
W
E
S
Tri Origin Exploration
Figure 6
2011 Sky Lake
Geochem Sample Location
with
pH Values
Date:21/9/2011
Author: F. Kendle
Office: Aurora
Drawing:
Scale: 1:20000
Projection: UTM Zone 15, Northern Hemisphere (WGS 84)
0
200
400
800
metres

661,000 mE
662,000 mE
663,000 mE
664,000 mE
665,000 mE
666,000 mE
667,000 mE
668,000 mE
5,681,000 mN
5,680,000 mN
5,679,000 mN
5,678,000 mN
5,677,000 mN

Caley Lake

Claim # 4251408

Claim # 4251409

Sky Lake Project
Humus Sample Survey Au (ppb)

- > 3ppb Au
- 2 to 3
- 1 to 2
- < 1ppb Au

Sky Lake Project
Soil Sample Survey Au (ppb)

- >50 ppb Au
- 20 to 50 ppb Au
- 10 to 20 ppb Au
- 5 to 10 ppb Au
- <5 ppb Au

Tri Origin Exploration

Figure 7
2011 Sky Lake
Geochem Sample Location
with
Au Values

Date: 21/9/2011
Author: F. Kendle
Office: Aurora
Drawing:
Scale: 1:20000
Projection: UTM Zone 15, Northern Hemisphere (WGS 84)

0 200 400 800
metres

APPENDIX A
LIST OF CLAIMS

APPENDIX A – LIST OF CLAIMS

Claim Number	Township/Area	Ownership
4214444	Duffell Lake	Tri Origin Exploration Ltd.
4214445	Duffell Lake	Tri Origin Exploration Ltd.
4214446	Duffell Lake	Tri Origin Exploration Ltd.
4214447	Duffell Lake	Tri Origin Exploration Ltd.
4214448	Duffell Lake	Tri Origin Exploration Ltd.
4241191	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241192	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241193	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241194	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241195	Caley Lake	Tri Origin Exploration Ltd.
4241196	Caley Lake	Tri Origin Exploration Ltd.
4241197	Caley Lake	Tri Origin Exploration Ltd.
4241198	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241199	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241200	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241796	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241797	Caley Lake	Tri Origin Exploration Ltd.
4241798	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241799	Matapesatakun Bay	Tri Origin Exploration Ltd.
4241800	Matapesatakun Bay	Tri Origin Exploration Ltd.
4243611	Caley Lake	Kitrinor Metals Inc.
4243612	Caley Lake	Kitrinor Metals Inc.
4243613	Caley Lake	Kitrinor Metals Inc.
4243614	Caley Lake	Kitrinor Metals Inc.
4243615	Matapesatakun Bay	Kitrinor Metals Inc.
4243616	Caley Lake	Kitrinor Metals Inc.
4243617	Caley Lake	Kitrinor Metals Inc.
4243618	Matapesatakun Bay	Kitrinor Metals Inc.
4251408	Matapesatakun Bay	Manicouagan Minerals Inc.
4251409	Matapesatakun Bay	Manicouagan Minerals Inc.

** Work undertaken this field program was completed on Manicouagan claims 4251408 and 4251409. **

APPENDIX B
SOIL SAMPLE DESCRIPTION with Ph VALUES and ASSAY RESULTS
(UTM Co-ordinates are in NAD83 Zone 15)

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

Sample #	Easting	Northing	Altitude	Description	pH
272001	662866	5678884	388	Good orange sandy B. Flat mature black spruce.	6.21
272002	662872	5678912	389	Good orange sandy B. Flat mature black spruce.	5.86
272003	662883	5678934	392	Good orange sandy B. Flat mature black spruce.	5.81
272004	662900	5678953	393	Good orange sandy B. Flat mature black spruce.	5.80
272005	662912	5678974	393	Very good red-brown B. Flat mature black spruce.	5.56
272006	662924	5678999	397	Very good orange-red B. Flat mature black spruce.	5.64
272007	662940	5679017	397	Very good orange B. Flat mature black spruce.	6.39
272008	662948	5679041	399	Very good orange sandy B. Flat mature black spruce.	6.41
272009	662962	5679063	401	Very good orange sandy B. Flat mature black spruce.	6.10
272010	662969	5679086	400	Very good orange sandy B. Flat mature black spruce.	6.48
272011	662981	5679108	399	Good orange brown sandy B. Slight slope to the N, mature black spruce.	5.50
272012	662993	5679132	401	Good orange sandy B. Slight slope to the N, mature black spruce with alders.	6.31
272013	663005	5679154	401	Good orange sandy B. Slight slope to the N, mature black spruce.	6.06
272014	663018	5679177	401	Good orange sandy B. Slight slope to the SW, mature black spruce.	6.27
272015	663040	5679192	395	Good orange sandy B. Slight slope to the W, mature black spruce.	5.56
272016	663054	5679212	398	Good light orange sandy B. Flat mature birch and black spruce.	6.59
272017	663072	5679231	397	Good light orange sandy B. Slight slope to the SW, mature birch and black spruce.	5.77
272018	663083	5679254	396	Good light orange sandy B. Slight slope to the SW, mature birch and black spruce.	6.34
272019	663096	5679275	399	Very light orange slighty sandy B. Flat, mature black spruce.	6.05
272020	663112	5679295	399	Dark brown, slightly gritty. Slight slope to N, mature black spruce.	5.65
272021	663122	5679319	395	Medium brown, slightly gritty. Flat mature black spruce and alders.	5.66
272022	663140	5679338	393	Poorly developed greyish brown B on steep north slope. Lots of boulders on slope. Mature black spruce.	5.56
272023	663152	5679363	388	Flat terrace on north face of hill towards lake. Dark brown, slightly gritty.	5.48
272024	663169	5679389	384	Slight slope to N towards the lake. 5m from lake. Good orange sandy B.	6.27
272025	662849	5678859	385	Good orange to dark brown sandy B. Slight slope to the SW. Mature black spruce and birch.	5.85
272026	662848	5678861	385	Duplicate of 272025	6.45
272027	662836	5678834	387	Good orange sandy B. Flat mature black spruce and birch.	6.27
272028	662825	5678807	388	Orange brown sandy B. Flat mature black spruce and Labrador Tea.	6.63
272029	662813	5678785	388	Medium brown, sandy B. Flat and wet, mature black spruce.	6.42
272030	662802	5678762	389	Good sandy orange to brown B. flat and wet, mature black spruce.	6.05
272031	662789	5678741	388	Good sandy B. Many boulders in the area. Flat, mixed young bush.	6.41
272032	662777	5678717	389	Brown to orange-brown, sandy B. Flat alders and black spruce.	6.17
272033	662764	5678697	391	Good sandy orange B. Flat mixed bush.	6.85
272034	662750	5678677	390	Good sandy orange to brown B Flat mixed bush.	5.80
272035	662738	5678654	392	Good sandy brown B. Slight slope to the NE, mature black spruce.	6.77
272036	662724	5678633	396	Good medium brown B. Slight slope to the NE, mature black spruce and Labrador tea.	5.79
272037	662710	5678612	395	Brown sandy on top of lots of boulders. Slight slope to the NE, mature black spruce, alders and Labrador Tea.	5.34
272038	662693	5678594	398	Brown sandy on top of lots of boulders. Slight slope to the NE, jack pine.	5.84
272039	662679	5678570	399	Good orange sandy B on top of boulders. Flat, young black spruce.	6.07
272040	662663	5678543	398	Good orange sandy B on top of boulders. Flat, young black spruce.	5.86
272041	662668	5678519	394	Good orange sandy B. Slight slope to the W, jack pine.	5.97
272042	662765	5678542	390	Good orange gritty B. Flat, mature black spruce.	5.47
272043	662820	5678695	398	Good orange brown sandy B. Flat, with lots of boulders, mature black spruce.	6.78
272044	662829	5678719	397	Good orange brown sandy B. Flat, with lots of boulders, mature black spruce.	5.86
272045	662873	5678813	396	Poorly developed green-brown slightly sandy. 50cm deep. Flat with lots of boulders, mature black spruce and moss.	6.24

Sample #	Easting	Northing	Altitude	Description	pH
272046	662883	5678838	393	Good sandy orange B. Flat mature black spruce, moss, slightly wet.	6.96
272047	662892	5678858	393	Good sandy orange brown B. Slight slope to the S, mixed bush.	6.20
272048	662905	5678880	394	Good orange sandy B. Slight slope to the S, mixed bush.	6.63
272049	662916	5678903	393	Poorly developed, orange to light brown B. Flat, mixed bush.	5.33
272050	662930	5678928	394	Good sandy orange B. Slight slope to the S, mixed bush.	5.33
272051	662930	5678927	393	Duplicate of 272050 (2m away)	5.72
272052	662943	5678947	395	Good orange B. Slight slope to the SE, mixed bush.	5.65
272053	662957	5678969	393	Very good orange B. Slight slope to the SE, alders.	6.18
272054	662973	5678987	394	Very good orange B. Slight slope to the SE, mature black spruce.	5.85
272055	662981	5679012	394	Very good light orange B. Flat, mixed bush.	6.37
272056	662999	5679031	396	Very good sandy orange B. Flat, mature black spruce.	6.54
272057	663007	5679057	396	Very good sandy orange B. Slight slope to the SE, mature balck spruce.	6.16
272058	663016	5679083	398	Very good sandy orange B. Slight slope to the NE, mature balck spruce.	6.56
272059	663021	5679112	396	Very good sandy orange B. Flat, mature black spruce.	6.34
272060	668000	5679799	393	Poorly developed, medium brown, slightly pebbly B. Flat, mature black spruce and moss.	7.15
272061	668000	5679524	393	Poorly developed, light green to brown, slightly sandy B. on north edge of a gentle slope to the N. Mature black spruce and moss.	7.33
272062	668001	5679500	396	Medium brown sandy B. Slight slope to the N, mature black spruce and moss.	7.31
272063	668004	5679474	401	Good orange sandy B. Slight slope to the N, mature mixed bush.	6.96
272064	668001	5679448	407	Good orange sandy B. Moderate slope to the N, mature mixed bush.	6.84
272065	668000	5679423	411	Good orange sandy B. Moderate slope to the N, mature mixed bush.	6.42
272066	668001	5679400	407	Good orange sandy B. Moderate slope to the N, mature mixed bush.	6.32
272067	668000	5679374	414	Good orange sandy B. Moderate slope to the NNW, mature mixed bush.	6.34
272068	668003	5679347	416	Good orange sandy B. Moderate slope to the NNW, mature mixed bush.	6.01
272069	668002	5679324	418	Good orange sandy B. Gentle slope to the NNW, mature mixed bush.	6.23
272070	667999	5679298	420	Good orange sandy B. Gentle slope to the NNW, mature mixed bush.	6.69
272071	668001	5679273	416	Good orange sandy B. Steep slope to the SSE, mature mixed bush.	6.47
272072	668001	5679246	412	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.72
272073	668002	5679224	413	Good orange sandy B. Flat, mature mixed bush.	6.56
272074	668002	5679197	413	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.79
272075	668002	5679172	415	Good orange sandy B. Flat, mature mixed bush.	6.20
272076	668001	5679171	411	Duplicate of 272075 (1m apart)	6.73
272077	668000	5679150	412	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.38
272078	667999	5679124	411	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.82
272079	668002	5679099	410	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.81
272080	668002	5679075	409	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.75
272081	667998	5679049	406	Good orange sandy B. Gentle slope to the SSE, mature mixed bush.	6.82
272082	668000	5679022	405	Good orange sandy B. Flat, mature mixed bush.	6.74
272083	668000	5678999	403	Good orange sandy B. Flat, mature mixed bush.	6.30
272084	668303	5679700	396	Sandy medium browm B. Slight slope to the N. Mature black spruce and moss.	6.31
272085	668304	5679674	400	Good sandy orange B. Moderate slope to the N. Mature black spruce and moss.	6.07
272086	668299	5679649	407	Good sandy orange B. Moderate slope to the N. Mature black spruce and moss on boulders.	6.50
272087	668300	5679623	413	Good sandy orange B. Moderate slope to the N. Mixed bush.	6.23
272088	668303	5679599	417	Good sandy orange B. Moderate slope to the NNE. Mixed bush.	6.22
272089	668300	5679571	421	Good sandy orange B. Slight slope to the NNE. Mixed bush.	6.55
272090	668301	5679549	419	Good sandy orange B. Moderate slope to the ESE. Mixed bush.	6.36

Sample #	Easting	Northing	Altitude	Description	pH
272091	668299	5679524	415	Good sandy orange B. Slight slope to the SE. Norway Maple.	5.72
272092	668302	5679499	415	Good sandy orange B. Slight slope to the SE. Norway Maple.	6.16
272093	668298	5679474	412	Good sandy orange B. Slight slope to the SE. Norway Maple.	6.53
272094	668302	5679448	410	Good sandy orange B. Slight slope to the SE. Norway Maple.	5.46
272095	668300	5679424	410	Good sandy orange B. Slight slope to the SE. Norway Maple.	6.56
272096	668300	5679399	409	Good sandy orange B. Slight slope to the SE. Norway Maple with some mixed bush.	5.76
272097	668300	5679372	409	Good sandy orange B. Slight slope to the SE. Norway Maple with some mixed bush.	6.38
272098	668304	5679349	409	Good sandy orange B. Slight slope to the SE. Mixed bush with Norway Maple.	6.07
272099	668303	5679325	404	Good sandy orange B. Slight slope to the SE. Mixed bush with Norway Maple.	6.47
272100	668302	5679299	403	Good sandy orange B. Moderate slope to the SSE. Mixed bush with Norway Maple.	5.78
272101	668303	5679299	402	Duplicate of 272100 (1m away)	6.35
272102	668301	5679274	400	Good sandy orange B. Gentle slope to the S. Mixed bush.	6.09
282001	662775	5678957	392	Flat, woods, Good B-Horizon	5.87
282002	662785	5678985	391	Flat, woods, Good B-Horizon	6.18
282003	662794	5679002	395	Flat, Woods, Good B-Horizon, Dark red	5.49
282004	662811	5679025	392	Sloping to W, Sandy, Dark red, woods	5.02
282005	662826	5679046	387	Flat, Woods, Good B-Horizon, Orange	5.91
282006	662841	5679068	386	Gentle slope to NW, Good B-Horizon, Orange, Woods	5.85
282007	662844	5679095	388	Gentle slope to NW, Good B-Horizon, Orange, Woods	5.81
282008	662857	5679117	376	Woods, Gentle Slope to N, Good B-Horizon, orange	5.59
282009	662865	5679146	383	Woods, Flat, Good B-Horizon, Dark Red	5.74
282010	662875	5679165	378	Woods, Gentle Slope to NW, Good B-Horizon Orange	5.47
282011	662893	5679187	383	Woods, Gentle Slope to NW, Good B-Horizon Orange	5.96
282012	662910	5679201	382	Woods, Flat, Good B-Horizon, Dark Red	5.96
282013	662923	5679221	386	Woods, Very gentle slope to NE, Good B-Horizon	5.80
282014	663010	5679346	384	Flat, Woods, Good B- Horizon, Brown	5.90
282015	663035	5679376	382	Flat, Woods, not a good B-Horizon	6.28
282016	662905	5678589	388	Gentle Slope to SE, Woods, Okay B-Horizon, Dark Red	5.54
282017	663084	5678837	395	Sloping to SW, Woods, Good B-Horizon, Sandy Orange	5.88
282018	663103	5678855	389	Gentle Slope to SW, Woods, Good B, red	5.77
282019	663137	5678898	396	Gentle Slope to SW, Woods, Good B, Orange	5.46
282020	663115	5678878	392	Flat, Woods, Good B-Horizon, Orange	6.22
282021	663142	5678920	396	Sloping to E, Woods, Good B-Horizon, Red	6.09
282022	663153	5678942	390	Sloping to E, Woods, Good B-Horizon, Red	5.61
282023	663169	5678960	392	Flat, Woods, Good B-Horizon, Dark red	5.65
282024	663181	5678988	390	Flat, Woods, Good B-Horizon, Orange	6.14
282025	663188	5679011	389	Flat, Woods, Okay B	5.62
282026	663197	5679003	395	Flat, Woods, Okay B	5.91
282027	663220	5679078	389	Very gentle slope to E, Woods, Good B-Horizon, Orange	5.30
282028	663231	5679099	386	Very gentle slope to SE, Woods, Good B-Horizon, Orange	5.28
282029	663242	5679122	380	Flat, Woods, Good B-Horizon, Orange	6.08
282030	663252	5679145	390	Sloping to SE, Woods, Good B-Horizon, Red/Orange	5.34
282031	663254	5679171	390	Sloping to SE, Woods, Boulders, Red	5.98
282032	663262	5679200	399	Sloping To E, woods, Boulders, Red	5.30
282033	663273	5679218	390	Sloping to NE, Woods, Boulders, Red	5.59

Sample #	Easting	Northing	Altitude	Description	pH
282034	663344	5679322	380	Gentle Slope to E, Woods, Good B-Horizon, Orange	5.92
282035	663348	5679351	388	Sloping To NW, Woods, Good B-Horizon, Orange	6.22
282036	663363	5679368	393	Sloping To NW, Woods, Good B-Horizon, Orange	6.29
282037	663382	5679391	378	Sloping To NW, Woods, Good B-Horizon, Orange	6.15
282038	667802	5679757	384	Flat, Woods, not a good B-Horizon	6.91
282039	667801	5679373	398	gentle slope to NW, Woods, Red, Okay B	7.00
282040	667801	5679348	388	Sloping To NW, Woods, Good B-Horizon, Red	6.72
282041	667802	5679324	393	Sloping To NW, Woods, Good B-Horizon, Red	5.28
282042	667801	5679296	405	Sloping To NW, Woods, Good B-Horizon, Red	6.49
282043	667802	5679273	407	Sloping To NW, Woods, Good B-Horizon, Red	5.67
282044	667800	5679248	411	Sloping To NW, Woods, Good B-Horizon, Red	5.94
282045	667803	5679226	417	Sloping to NW, Woods, Orange, Good B-Horizon	6.02
282046	667802	5679199	420	Sloping to NW, Woods, Orange, Good B-Horizon	6.27
282047	667799	5679176	424	Sloping to NW, Woods, Orange, Good B-Horizon	5.89
282048	667801	5679149	416	Sloping to W, Woods, Orange, Good B-Horizon	5.79
282049	667798	5679124	419	Sloping to SE, Woods, Good B-Horizon, Red/Orange	5.67
282050	667798	5679099	420	Steep Slope to SE, Woods, Good B-Horizon, Orange	6.20
282051	667801	5679104	429	Steep Slope to SE, Woods, Good B-Horizon, Orange	6.04
282052	667799	5679074	410	Gentle Slope to SE, Woods, Good B-Horizon, Red	6.05
282053	667799	5679045	414	Gentle Slope to SE, Woods, Good B-Horizon, Red	6.23
282054	668099	5679566	404	Gentle slope to NW, Woods, Good B-horizon Red	7.22
282055	668103	5679543	401	Steep Slope to NW, Woods, Good B-Horizon, Red	6.25
282056	668103	5679524	400	Steep Slope to NW, Woods Good B-horizon, Orange	6.08
282057	668100	5679499	401	Steep Slope to W, Woods, Good B-Horizon, Orange	6.10
282058	668100	5679468	410	Steep Slope to W, Woods, Good B-Horizon, Orange	5.92
282059	668103	5679452	411	Steep Slope to W, Woods, Good B-Horizon, Orange	6.23
282060	668100	5679420	408	Gentle Slope to NW, Woods, Good B-Horizon, Orange	6.44
282061	668101	5679399	407	Flat, Woods, Good B-Horizon, Red/Orange	5.85
282062	668101	5679374	406	Steeply Sloping to Se, Woods, Good B, Red	6.21
282063	668102	5679349	408	Steeply Sloping to Se, Woods, Good B, Red	6.13
282064	668101	5679326	411	Very gentle slope to SE, Woods, Good B-Horizon, Orange	6.61
282065	668102	5679301	409	Very gentle slope to SE, Woods, Good B-Horizon, Orange	6.21
282066	668101	5679272	401	Flat, Woods, Good B, Red/Orange	6.15
282067	668102	5679249	401	Flat, Woods, Good B, Orange	6.74
282068	668103	5679224	417	Flat, Woods, Good B, Red	6.25
282069	668100	5679202	414	Flat, Woods, Good B, Orange	5.98
282070	668098	5679174	412	Flat, Woods, Good B, Orange	6.29
282071	668098	5679145	399	Sloping to SE, Woods, Good B-Horizon, Red	6.32
282072	668102	5679124	409	Sloping to SE, Woods, Good B, Orange	6.40
282073	668101	5679100	388	Sloping to SE, Woods, Good B, Orange	5.86
282074	668098	5679074	402	Sloping to SE, Woods, Good B, Orange	5.92
282075	668101	5679047	395	Sloping to SE, Woods, Good B, Orange	6.24
282076	668103	5679043	405	Sloping to SE, Woods, Good B, Orange	6.37
282077	668099	5679021	393	gentle slope to SE, Woods, Good B, Orange	6.53
282078	668102	5678997	396	gentle slope to SE, Woods, Good B, Orange	6.48

Sample #	Easting	Northing	Altitude	Description	pH
282079	667599	5678998	396	Steep Slope to NW, Woods, Good B, Orange	6.55
282080	667599	5679027	406	Sloping to NW, Woods Good B, Orange	6.89
282081	667600	5679048	409	Sloping to NW, Woods Good B, Orange	6.70
282082	667603	5679072	398	Sloping to NW, Woods Good B, Orange	6.66
282083	667601	5679097	392	Sloping to NW, Woods Good B, Orange	6.55
282084	667605	5679125	397	Sloping to NW, Woods Good B, Orange	6.18
282085	667606	5679148	392	Sloping to NW, Woods Good B, Orange	6.34
282086	667593	5679177	393	Sloping to NW, Woods Good B, Orange	6.48
282087	667598	5679202	389	Sloping to NW, Woods Good B, Orange	6.41
282088	667600	5679226	392	Edge Swamp, Sloping gentle to NW, Good B	6.82
282089	667601	5678977	414	Sloping to NW, Woods, Good B, Orange	6.61
292001	662685	5679008		Orange Sandy, Flat, Black Spruce and Alders	5.15
292002	662703	5679026	385	Brown Sandy, Flat, Black Spruce and Alders, rocky	5.45
292003	662713	5679049	385	Orange Gentle slope to SW, Alders	6.01
292004	662716	5679067	389	Orange Flat top of hill, Black Spruce , moss	5.80
292005	662734	5679092	384	Dark Orange Gentle Slope N, Alders	5.92
292006	662756	5679111	380	Orange, Flat moss and Lab tea, Some Yummy Blueberries	6.31
292007	662764	5679139	376	Dark Orange, Flat Brirch, alders and black Spruce	6.28
292008	662764	5679153		Orange Gentle Slope N, Alders	6.22
292009	662788	5679191	388	Brown, Flat B.Spruce and Alders	6.26
292010	662804	5679196	381	Dark Orange, Flat, Alders, Lab. Tea	6.83
292011	662819	5679214	385	Orange, Flat B.Spruce	6.33
292012	662837	5679237	388	Dark Orange, Flat, Alders, Lab. Tea	6.15
292013	662855	5679251	387	Dark Orange, Flat, Alders, B.Spruce	6.45
292014	662876	5679262	386	Orange, Wet Hollow, Alders and Lab. Tea	5.98
292015	662894	5679286	383	Dark Orange Flat Alders and Birch	5.37
292016	662971	5679422	382	Orange Flat, B.Spruce and Alders	6.83
292017	662985	5679438	380	D.Orange, Flat, B.Spruce and rocky	6.80
292018	663017	5678539	387	D.Orange, Gentle slope E, B.Spruce and Lab.tea	5.48
292019	663033	5678562	386	D.Orange, Gentle slope E, B.Spruce and Lab.tea	6.26
292020	663051	5678595	386	D.Orange, Gentle slope E, B.Spruce and Lab.tea	5.23
292021	663065	5678612	383	D.Orange, Flat base of hill, B.Spruce	6.10
292022	663219	5678834	399	Brown, Flat wet, B.Spruce	6.24
292023	663225	5678810	384	D.Orange, Flat Wet B.Spruce	5.64
292024	663242	5678864	403	D.Orange, Flat Wet B.Spruce	6.49
292025	663252	5678877	392	D.Orange, Flat Wet B.Spruce	6.04
292026	663253	5678875	394	D.Orange, Flat Wet B.Spruce (Duplicate, <1m away)	6.59
292027	663260	5678903	388	Brown, Flat wet, B.Spruce	6.00
292028	663275	5678924	394	D.Orange, Flat Wet B.Spruce	6.37
292029	663289	5678946	384	D.Orange, Flat Wet B.Spruce	5.99
292030	663301	5678973	391	Brown, Flat, B.Spruce, Bouldery Till	6.52
292031	663317	5679004	398	Orange, Flat, B.Spruce, Bouldery Till	6.25
292032	663325	5679030	412	D.Orange, Flat, B.Spruce, Bouldery Till	6.70
292033	663332	5679040	398	D.Orange, Flat, B.Spruce, Bouldery Till	5.09
292034	663350	5679067	399	Brown, Flat, B.Spruce, Bouldery Till	5.88

Sample #	Easting	Northing	Altitude	Description	pH
292035	663368	5679072	387	D.Orange, Gentle Slope N, B.Spruce and Alders	6.09
292036	663386	5679122	380	D.Orange, Flat, B.Spruce, alders, Birch	6.37
292037	663561	5679401	383	D.Orange, Flat, B.Spruce,Birch Fir	6.20
292038	663572	5679407	387	Orange, Flat, B.Spruce,Birch Fir	6.45
292039	663597	5679438	400	Brown, Flat, B.Spruce,Birch Fir	6.26
292040	663422	5678984	385	D.Orange, Flat, B.Spruce	6.64
292041	663398	5678968	389	Orange, Flat, B.Spruce	6.07
292042	667889	5679799	397	Orange, Flat, B.Spruce, swamp with boulders underneath	7.21
292043	667891	5679446	385	Orange, Flat, B.Spruce	6.60
292044	667890	5679422	394	Orange, Gentle slope N, B.Spruce	6.67
292045	667899	5679393	389	Orange, Gentle Slope N, Birch,Alders	6.77
292046	667894	5679371	400	Orange, Gentle Slope N, Mature Fire, Maple	6.69
292047	667892	5679353	399	Orange, Gentle Slope N, Birch, Maple	6.03
292048	667897	5679320	422	Orange, Gentle Slope N, Birch, Maple	6.67
292049	667893	5679300	416	Orange, Gentle Slope N, Maple	6.06
292050	667893	5679271	410	Orange, Gentle Slope N, Fir Maple	6.23
292051	667895	5679267	410	Orange, Gentle Slope N, Fir Maple (Duplicate <1m away)	5.68
292052	667889	5679243	417	Orange, Flat, Maple	6.58
292053	667896	5679221	417	Orange, Flat, Maple	6.28
292054	667898	5679195	427	Orange, Top of steep NW slope, Maple	6.04
292055	667896	5679169	412	Orange, Base of steep NW slope, Maple	6.10
292056	667902	5679145	411	Orange, Gentle slope NW, Maple	6.49
292057	667899	5679123	410	Orange, Flat, Maple, Alder	6.42
292058	667898	5679091	408	Orange, Flat Maple, Birch	6.75
292059	667901	5679074	411	Orange Flat Maple	6.45
292060	667895	5679049	412	Orange Flat Maple	6.51
292061	667891	5679020	406	Orange, Fla, Maple, Fir	6.18
292062	667901	5678997	406	Orange, Flat Maple, Alder	6.64
292063	667804	5679002	407	Orange, Flat, Maple, Fir, Birch	6.34
292064	667801	5679024	413	Orange, flat, Alder, maple, birch, fir	6.78
292065	668193	5679102	401	Orange, flat, B.Spruce, Birch, Pine	7.20
292066	668191	5679627	397	Orange, Flat, B.Spruce, Rocky	7.14
292067	668192	5679591	409	Orange, Steep Slope N, B.Spruce, Birch	7.00
292068	668207	5679566	409	Orange, Steep slope N, B.Spruce, Maple	6.52
292069	668211	5679539	418	Orange, Gentle Slope N, B.Spruce, Maple	6.35
292070	668201	5679518	413	Orange, Gentle slope N, Maple	6.62
292071	668198	5679497	417	Orange, Flat, Maple, B.Spruce, Fir	6.16
292072	668204	5679478	418	Orange, Steep slope SE, Maple Popalur	6.71
292073	668207	5679453	399	Orange, Gentle Slope SE, Maple	6.52
292074	668211	5679421	407	Orange, Gentle Slope SE, Maple	6.49
292075	668202	5679398	409	Orange, Gentle Slope SE, Maple	6.25
292076	668203	5679398	406	Orange, Gentle Slope SE, Maple, (Duplicate, <1m away)	6.49
292077	668203	5679368	407	Orange, Gentle Slope SE, Maple	6.27
292078	668209	5679351	403	Orange, Gentle Slope SE, Maple	6.61
292079	668196	5679323	405	Orange, Gentle Slope SE, Maple	6.76

Sample #	Easting	Northing	Altitude	Description	pH
292080	668197	5679298	403	Orange, Gentle Slope SE, Maple	6.77
292081	668192	5679273	409	Orange, Gentle Slope SE, Maple	6.85
292082	668194	5679248	394	Orange, Gentle Slope SE, Maple	6.54
292083	668200	5679225	402	Orange, Gentle Slope SE, Maple	6.25
292084	668209	5679195	399	Orange, Gentle Slope SE, Maple	6.75
292085	668209	5679171	407	Orange, Gentle Slope SE, Maple, B.Spruce	6.88
292086	668206	5679142	397	Orange, Flat, B.Spruce, Alders	6.29
292087	668202	5679126	396	Orange, Flat, B.Spruce, Alders	6.77
292088	667701	5679002	425	Orange, Base of steepe SE slope, Maple Fir	5.66
292089	667713	5679019	416	Orange, Steep hill SE, Maple	5.52
292090	667704	5679040	419	Orange, Flat, Maple, Fir	6.37
292091	667705	5679078	415	Orange, Slope N, Maple, Fir, Popular	5.29
292092	667702	5679095	409	Orange, Slope N, Maple, Fir, Popular	5.39
292093	667703	5679129	403	Orange, Slope N, Maple, Fir, Popular	6.15
292094	667687	5679153	400	Orange, Slope N, Maple, Fir, Popular	6.50
292095	667698	5679174	412	Orange, Slope N, Maple, Fir, Popular	6.24
292096	667693	5679192	396	Orange, Slope N, Maple, Fir, Popular	6.60
292097	667701	5679223	396	Orange, Slope N, Fir	6.31
292098	667692	5679240	392	Orange, Slope N, Birch, B.Spruce	6.08
292099	667691	5679270	394	Orange, Slope N, Birch, B.Spruce	6.37
292100	667694	5679311	394	D.Orange, Flat. B.Spruce,Birch	5.21
292101	667694	5679311	393	D.Orange, Flat. B.Spruce,Birch (Duplicate <1m away)	5.39

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
272001	A11-8837Final	< 5	21	0.2	< 1	0.023	0.35	1.5	0.05	0.16	0.18	2.4	61	49.8	166	3.12	9.8	22.1	14.8	17.5	5.95
272002	A11-8837Final	< 5	10.9	0.2	< 1	0.038	0.34	1.39	0.03	0.09	0.23	1.9	42	43.9	132	2.02	7.1	20.4	13.5	13.5	3.69
272003	A11-8837Final	< 5	16.2	0.2	< 1	0.047	0.29	1.43	0.03	0.11	0.23	3	57	41.1	132	1.87	5.3	17	13.5	21.9	5.16
272004	A11-8837Final	< 5	11.4	0.1	< 1	0.035	0.17	0.64	0.03	0.09	0.24	2.5	46	20.5	100	1.28	4	11.2	10.5	562	4.13
272005	A11-8837Final	< 5	6	0.2	< 1	0.023	0.11	1.15	0.03	0.07	0.26	2.1	37	18.8	77	1.96	3.5	9.7	5.33	5.1	2.27
272006	A11-8837Final	7	3.8	0.1	< 1	0.024	0.07	0.97	0.02	0.07	0.1	1	21	13.3	42	0.6	0.9	2.4	2.97	1.7	3.58
272007	A11-8837Final	< 5	13.8	0.3	1	0.037	0.25	1.43	0.03	0.08	0.2	2.4	56	47.1	126	2.17	6.7	16.4	7.4	13.3	4.05
272008	A11-8837Final	< 5	11.6	0.2	1	0.033	0.17	0.85	0.04	0.08	0.26	2.6	53	28.4	117	1.74	5.7	15.5	10.1	14.2	4.89
272009	A11-8837Final	< 5	11.8	0.2	< 1	0.024	0.14	0.66	0.04	0.09	0.24	1.9	38	18.5	113	2.07	5.1	11.5	5.42	8.6	3.1
272010	A11-8837Final	< 5	8.4	0.2	< 1	0.029	0.2	1.1	0.04	0.09	0.25	2.2	32	23.8	135	1.67	6.9	13.6	4.63	8.7	2.6
272011	A11-8837Final	< 5	15.9	0.2	1	0.036	0.33	1.42	0.04	0.21	0.17	2.6	88	41	164	2.59	8	17.2	13.1	25.3	8.33
272012	A11-8837Final	< 5	12	0.2	1	0.04	0.25	0.79	0.06	0.06	0.32	2.9	49	27.3	134	1.6	6.1	13.8	8.09	14.8	3.51
272013	A11-8837Final	5	10.1	0.2	< 1	0.032	0.23	0.87	0.06	0.09	0.35	2.5	37	25.6	126	1.83	7.3	18.1	9.53	13.1	2.65
272014	A11-8837Final	123	18.2	0.2	1	0.047	0.39	1.73	0.05	0.11	0.21	2.4	61	38.1	148	2.42	8.1	18.3	9.88	21.9	6.52
272015	A11-8837Final	< 5	12.7	0.2	1	0.042	0.28	0.82	0.05	0.11	0.26	2.9	84	37.3	143	2.14	5.6	12.8	8.19	23.3	6.45
272016	A11-8837Final	< 5	13.5	0.3	< 1	0.037	0.21	1.01	0.06	0.07	0.35	3.5	58	23.5	142	2.12	9.1	15.4	10.2	19.3	3.9
272017	A11-8837Final	19	8.2	0.1	< 1	0.033	0.22	0.8	0.07	0.11	0.3	2.7	81	21.5	144	3.21	7.4	11.5	11.5	14.9	4.68
272018	A11-8837Final	< 5	42.4	0.2	< 1	0.072	1.03	2.55	0.15	0.34	0.25	2.7	69	97.3	245	2.98	16.8	26	18	34.4	7.23
272019	A11-8837Final	< 5	32.7	0.2	< 1	0.165	0.83	2.23	0.12	0.05	0.73	11.7	232	7.6	407	5.78	23.5	14.6	60.2	80.4	9.85
272020	A11-8837Final	< 5	7.2	0.1	< 1	0.048	0.14	1.06	0.04	0.17	0.29	4.8	199	15.5	106	5.29	4.7	5.6	19.2	19	10.1
272021	A11-8837Final	< 5	21.4	0.1	< 1	0.04	0.31	1.03	0.05	0.09	0.4	3.9	56	19	182	1.86	9.5	14.9	11.9	23.4	4.39
272022	A11-8837Final	< 5	1.2	0.1	< 1	0.107	0.24	0.83	0.05	0.1	0.62	6	95	7.7	372	2.51	6.3	3.7	7.4	19.7	6.87
272023	A11-8837Final	< 5	26.5	0.4	2	0.066	0.57	2.06	0.06	0.13	0.39	6.2	93	43	305	3.77	16.7	23.3	69.6	57.2	7.78
272024	A11-8837Final	5	4.8	< 0.1	1	0.027	0.11	0.46	0.02	0.07	0.15	1.8	70	19.9	63	1.32	2.2	5.2	4.07	4.1	4.82
272025	A11-8837Final	< 5	16	0.1	< 1	0.032	0.29	0.92	0.05	0.09	0.3	2.9	75	40.9	194	3.25	7.5	17.8	9.02	21.3	5.23
272026	A11-8837Final	< 5	12.3	0.2	< 1	0.029	0.34	1.18	0.04	0.09	0.27	2.7	41	29	166	2.12	8.5	19.1	12.7	36.7	3.31
272027	A11-8837Final	< 5	11.8	0.2	< 1	0.039	0.24	1.29	0.03	0.08	0.21	2.4	49	34.8	109	1.62	4.2	11.1	6.58	12.3	4.41
272028	A11-8837Final	< 5	8.4	0.2	< 1	0.029	0.13	0.65	0.05	0.07	0.29	2.4	28	17	96	0.95	4.2	9.8	6	7.8	3.22
272029	A11-8837Final	5	15.3	0.1	< 1	0.033	0.38	0.86	0.08	0.09	0.44	2.6	36	24	234	1.69	7.5	15.3	5.54	19.7	3.41
272030	A11-8837Final	< 5	11.7	0.2	< 1	0.034	0.28	1.25	0.03	0.17	0.17	1.9	75	36	131	3.09	4.7	11.9	8.65	149	8.07
272031	A11-8837Final	< 5	10.7	0.2	< 1	0.036	0.21	1.11	0.03	0.13	0.19	2.5	77	34.7	103	2.09	3.4	10	9.58	15	7.46
272032	A11-8837Final	5	8.3	0.1	< 1	0.032	0.17	0.7	0.04	0.14	0.29	1.9	26	17	110	1.27	5.8	13.3	5.7	12.7	2.45
272033	A11-8837Final	< 5	10.1	0.1	< 1	0.035	0.28	0.74	0.05	0.09	0.37	2.1	31	24.5	214	1.48	5.4	13.3	6.61	14.8	2.73
272034	A11-8837Final	7	13.2	0.1	< 1	0.044	0.33	1.01	0.03	0.12	0.25	2.3	46	33.2	139	1.41	4.9	13.5	8.9	22.5	4.84
272035	A11-8837Final	< 5	18.5	0.3	< 1	0.041	0.37	1.17	0.04	0.09	0.31	3.8	64	46.5	182	2.26	10.2	27	19.8	22.7	4.88
272036	A11-8837Final	< 5	5.2	< 0.1	< 1	0.027	0.25	0.58	0.22	0.32	0.14	3.2	37	21.4	92	1.04	2.7	6	3.22	65.7	7.32
272037	A11-8837Final	< 5	4.2	< 0.1	< 1	0.025	0.14	0.92	0.03	0.22	0.12	1.4	43	18.1	61	0.84	1.6	6.7	6.06	12.2	8.66
272038	A11-8837Final	< 5	5.8	< 0.1	< 1	0.043	0.38	0.92	0.06	0.15	0.12	2	50	20.3	127	1.16	3.1	8	4.74	15.3	11.3
272039	A11-8837Final	14	21.8	0.3	2	0.038	0.29	1.63	0.04	0.16	0.26	3.1	74	40.5	125	2.45	6.2	17.3	14.8	23.6	7.25
272040	A11-8837Final	12	16.3	0.1	2	0.032	0.44	1.52	0.07	0.22	0.14	2.4	54	23	88	2.11	4.6	13.7	10.1	34.5	12.5
272041	A11-8837Final	12	5.7	< 0.1	1	0.034	0.2	0.73	0.03	0.15	0.17	2	68	28	93	1.39	2.8	7.8	6.19	10.9	7.16
272042	A11-8837Final	< 5	21.4	0.2	2	0.031	0.32	1.07	0.04	0.13	0.27	3.1	71	35.2	150	2.39	8.4	19.7	13.5	26.1	6.07
272043	A11-8837Final	< 5	11.6	0.2	< 1	0.028	0.29	1.02	0.07	0.15	0.6	3.4	49	28.2	400	2.94	13	20.1	18.8	19.9	3.09
272044	A11-8837Final	5	5.5	0.1	< 1	0.028	0.17	0.72	0.03	0.18	0.18	1.4	24	21.3	114	0.97	3.2	8.7	8.39	23.2	3.19
272045	A11-8837Final	< 5	7.3	0.2	< 1	0.048	0.28	0.92	0.03	0.06	0.31	2.2	33	27.9	132	1	4.8	15	8.57	14.4	2.9

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
272046	A11-8837Final	< 5	11.5	0.2	< 1	0.031	0.22	0.98	0.05	0.09	0.24	2.6	54	31.7	109	1.67	5.1	13.2	7.7	15.4	5.02
272047	A11-8837Final	< 5	18.1	0.2	< 1	0.023	0.24	1.13	0.05	0.09	0.27	2.7	45	29	120	1.96	7.8	21.3	11.3	18.5	4.37
272048	A11-8837Final	< 5	11.2	0.2	< 1	0.03	0.22	1.48	0.04	0.07	0.24	2.3	32	23.9	112	1.73	6.5	15	8.05	9.6	3.02
272049	A11-8837Final	16	3.3	< 0.1	< 1	0.029	0.14	0.55	0.03	0.1	0.16	1.4	36	18	81	0.76	1.9	4.9	2.52	5.2	4.58
272050	A11-8837Final	< 5	10.1	< 0.1	< 1	0.036	0.36	0.85	0.03	0.1	0.2	2.3	65	36.3	124	1.58	5.3	24.3	9.76	18.6	7.27
272051	A11-8837Final	< 5	7.8	0.1	< 1	0.027	0.22	0.63	0.04	0.08	0.25	2.2	54	19.5	104	1.49	4.3	11.1	6.38	13.5	5.42
272052	A11-8837Final	< 5	10.9	0.1	< 1	0.019	0.19	1.06	0.04	0.1	0.16	1.7	42	25.5	101	2.18	4.2	11.5	6.08	9.9	4.15
272053	A11-8837Final	16	18.5	0.2	< 1	0.034	0.36	1.59	0.05	0.11	0.22	2.1	46	44.4	161	2.41	8.5	19.6	10.4	19.3	4.15
272054	A11-8837Final	< 5	18.3	0.3	2	0.039	0.27	1.34	0.05	0.08	0.29	2.9	57	40.1	193	2.12	8.4	18.3	9.82	20.1	4.5
272055	A11-8837Final	< 5	11.6	0.2	< 1	0.028	0.17	0.99	0.06	0.1	0.23	2.3	35	19.5	368	1.53	5.3	9.3	3.87	21	4.17
272056	A11-8837Final	< 5	9.3	0.1	< 1	0.027	0.21	0.92	0.03	0.09	0.17	1.6	38	24.8	128	1.93	4.6	10.4	5.01	11.9	3.65
272057	A11-8837Final	127	11.6	0.3	2	0.032	0.23	1.39	0.04	0.1	0.16	2.1	51	31	117	1.88	5	11.9	5.97	17.4	4.95
272058	A11-8837Final	5	9.4	0.3	1	0.025	0.17	0.83	0.04	0.07	0.24	2.3	43	28	157	1.37	5	12.7	5.92	19.1	3.72
272059	A11-8837Final	< 5	8.7	0.2	< 1	0.033	0.17	0.98	0.04	0.05	0.35	2.7	27	20	108	1.33	7.7	16.5	6.44	18	2.02
272060	A11-8837Final	< 5	8	0.2	2	0.027	0.24	0.56	0.07	0.06	0.62	2.1	22	19.3	133	1.15	4	9.9	7.74	11.1	1.8
272061	A11-8837Final	< 5	7.2	0.1	2	0.036	0.5	0.57	0.04	0.05	0.96	2	27	24.7	138	1.02	4.3	10.3	7.84	19.1	2.29
272062	A11-8837Final	7	8.3	0.2	2	0.041	0.3	0.59	0.05	0.05	0.62	3.1	36	32.7	131	1.29	6.4	16.5	12.8	45.2	2.69
272063	A11-8837Final	12	15.2	0.3	< 1	0.025	0.17	1.38	0.04	0.06	0.26	2.4	34	29	114	1.86	6.7	16.7	6.55	11.6	3.15
272064	A11-8837Final	7	13.5	0.2	< 1	0.03	0.26	1.35	0.06	0.12	0.28	2.5	45	32.8	156	2.31	8.2	19.9	8.86	15.9	4.52
272065	A11-8837Final	< 5	10.7	0.2	2	0.038	0.27	0.92	0.04	0.08	0.35	2.5	37	31.7	125	1.33	6.2	17.7	8.16	16	3.08
272066	A11-8837Final	< 5	16.7	0.2	< 1	0.024	0.22	0.98	0.05	0.11	0.25	2.2	41	23	123	1.81	5.3	12.1	4.07	22.4	4.85
272067	A11-8837Final	10	13.4	0.2	< 1	0.02	0.26	1.29	0.05	0.45	0.23	1.7	35	27.1	132	2.1	6.3	17.4	6.2	18.9	3.85
272068	A11-8837Final	< 5	12.5	0.2	< 1	0.037	0.41	1.15	0.05	0.09	0.3	2	41	41.9	142	1.87	7.1	21.1	8.59	20.4	3.9
272069	A11-8837Final	< 5	15.7	0.2	3	0.038	0.29	1.08	0.05	0.1	0.25	2.5	58	38.4	132	2.18	5.5	16.3	6.53	21.6	5.18
272070	A11-8837Final	< 5	14.8	0.2	2	0.028	0.22	0.84	0.07	0.09	0.37	2.7	37	25.9	117	1.73	5.4	14	5.14	25.3	4.56
272071	A11-8837Final	6	8.7	0.2	< 1	0.021	0.24	1.04	0.06	0.07	0.26	1.9	26	29.7	112	1.45	6	17.6	5.69	16	2.79
272072	A11-8837Final	10	9.4	0.2	1	0.031	0.27	1.21	0.05	0.09	0.24	1.7	32	29.2	123	1.58	6	15.5	6.14	15	3.42
272073	A11-8837Final	11	8.7	0.3	2	0.035	0.27	1.28	0.04	0.08	0.28	2.4	38	34.4	149	1.45	7.6	18.8	9.33	22.3	3.33
272074	A11-8837Final	7	17.4	0.2	2	0.031	0.27	1.03	0.05	0.11	0.32	2.8	54	34.3	157	2.2	6.6	16.1	9.45	22.7	5.87
272075	A11-8837Final	< 5	11.6	0.2	< 1	0.027	0.2	1.14	0.05	0.08	0.24	2.2	35	23.5	106	1.81	6.2	16.2	6	14.9	3.6
272076	A11-8837Final	< 5	8.3	0.1	< 1	0.028	0.16	0.97	0.04	0.08	0.17	1.5	29	20.9	90	1.38	2.7	6.7	2.92	11	4.05
272077	A11-8837Final	11	11.8	0.3	3	0.025	0.25	1.07	0.05	0.05	0.27	2.2	30	24.3	126	1.59	6	17	8.62	18.9	3.28
272078	A11-8837Final	< 5	9.1	0.2	< 1	0.028	0.22	1	0.05	0.05	0.29	2.2	27	25.4	133	1.44	6.9	17.7	10.6	13	2.2
272079	A11-8837Final	7	8.7	0.3	< 1	0.029	0.21	1.21	0.04	0.06	0.28	1.9	24	23.8	113	1.41	7.1	17.5	11	11.5	2.19
272080	A11-8837Final	< 5	11.7	0.2	1	0.028	0.29	1.41	0.03	0.12	0.19	1.9	42	32.7	133	1.84	5.8	13.7	9.83	19.7	4.7
272081	A11-8837Final	15	14.2	0.3	1	0.032	0.34	1.25	0.04	0.1	0.3	2.8	50	60.9	136	1.85	8.9	30.4	15.2	22	4.56
272082	A11-8837Final	7	14	0.2	< 1	0.023	0.17	0.89	0.04	0.07	0.21	2	33	22.3	101	1.65	4.9	13.6	7.72	15.4	3.47
272083	A11-8837Final	< 5	13.7	0.2	< 1	0.031	0.29	1.46	0.04	0.08	0.27	2.2	34	35.1	152	2.01	10.1	23.3	14.7	18.6	3.32
272084	A11-8837Final	12	9.5	0.2	1	0.034	0.33	0.96	0.05	0.07	0.47	1.9	31	30.9	141	1.32	5.4	12.3	8.24	19.2	3.32
272085	A11-8837Final	< 5	6.8	0.1	1	0.028	0.16	0.54	0.03	0.07	0.15	1.4	45	28.7	75	1.91	2.9	8.1	3.31	11.2	4.09
272086	A11-8837Final	22	19.3	0.3	2	0.031	0.3	1.16	0.06	0.09	0.26	2.4	53	41.4	129	2.34	7.3	22	9.27	22.9	5.45
272087	A11-8837Final	7	17.8	0.2	< 1	0.038	0.25	1.14	0.06	0.08	0.37	2.2	32	23.4	122	1.79	5.8	16.9	5.31	130	3.55
272088	A11-8837Final	6	9.6	0.2	< 1	0.021	0.24	1.04	0.05	0.07	0.21	1.5	27	23.1	109	1.44	5	11.7	3.23	17.4	3.23
272089	A11-8837Final	8	24.7	0.3	1	0.035	0.92	2.06	0.05	0.09	0.31	2.4	56	75.2	227	2.55	11.3	41.6	11.5	41.6	6.98
272090	A11-8837Final	8	14.4	0.3	2	0.03	0.31	1.12	0.05	0.07	0.27	2.6	39	32.5	124	1.63	5.8	18	6.37	38.8	4.72

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
272091	A11-8837Final	10	10.3	0.2	< 1	0.027	0.22	1.29	0.05	0.1	0.2	1.8	31	24.8	217	1.69	6.6	13.3	4.82	49.3	3.91
272092	A11-8837Final	15	11.2	0.2	1	0.03	0.27	1.23	0.04	0.1	0.17	1.8	42	29.8	107	1.87	4.5	12.3	6.2	29.5	6.38
272093	A11-8837Final	27	8.5	0.2	< 1	0.031	0.16	0.87	0.04	0.08	0.21	2	34	22.5	144	1.25	4.1	7.8	3.96	27.6	5.03
272094	A11-8837Final	10	10.6	0.2	< 1	0.026	0.2	0.99	0.04	0.08	0.34	2.2	34	24.4	119	1.95	6.1	14.6	9.84	33.5	3.41
272095	A11-8837Final	13	13	0.2	1	0.023	0.25	1.31	0.05	0.11	0.22	1.7	36	25.8	131	2.24	6.2	16.1	6.77	19.4	4.74
272096	A11-8837Final	15	10.5	0.1	2	0.027	0.27	0.89	0.05	0.11	0.25	2.3	45	29.9	122	1.76	5	15.3	9.95	23.3	5.63
272097	A11-8837Final	7	14	0.3	1	0.026	0.26	1.31	0.05	0.06	0.3	2.4	32	31.1	114	1.74	9.6	27.2	13.1	16.7	2.86
272098	A11-8837Final	20	10.1	0.2	< 1	0.022	0.21	1.15	0.05	0.09	0.21	1.6	35	24.4	98	2.18	5.2	14.6	6.4	12.5	4.46
272099	A11-8837Final	< 5	11.9	0.2	1	0.029	0.33	1.2	0.05	0.13	0.18	1.6	45	32.1	197	2.19	5.2	13.3	7.99	23.3	6.15
272100	A11-8837Final	8	12.4	0.2	1	0.034	0.28	1.03	0.04	0.07	0.22	2	37	34.7	126	1.63	5.5	18.3	8.25	16.3	4.1
272101	A11-8837Final	5	11.8	0.2	1	0.028	0.25	0.93	0.05	0.08	0.26	2.4	41	28.1	107	1.79	5.9	18.4	9.56	14.9	4.55
272102	A11-8837Final	10	7.5	0.1	< 1	0.028	0.2	0.72	0.05	0.07	0.3	2.2	25	19.7	150	1.4	5	12.8	7.59	15.8	2.6
282001	A11-8837Final	24	13.6	0.2	< 1	0.03	0.3	1.6	0.03	0.11	0.19	1.6	33	25.2	108	1.76	4.9	12.9	12.6	16.9	3.93
282002	A11-8837Final	6	21.9	0.3	< 1	0.023	0.35	2.1	0.07	0.18	0.16	2.7	61	30.5	120	2.5	6.2	12.7	15.6	41.1	9.12
282003	A11-8837Final	5	7.4	0.2	< 1	0.019	0.13	1.19	0.02	0.06	0.18	1.5	22	17.9	54	1.41	2.7	7.8	8.06	16.2	2.8
282004	A11-8837Final	11	11.5	0.2	< 1	0.024	0.31	1.39	0.03	0.13	0.17	1.6	43	25.2	101	2.47	5.5	15.1	12.7	20.1	5.48
282005	A11-8837Final	5	14.2	0.2	< 1	0.031	0.33	1.72	0.03	0.13	0.15	1.9	48	34	107	2.1	5.1	13	11.5	21.5	5.46
282006	A11-8837Final	7	12.5	0.2	< 1	0.029	0.22	1.24	0.02	0.09	0.17	2.3	32	24.6	85	1.48	4.2	12.1	13.6	16	3.73
282007	A11-8837Final	< 5	14.7	0.2	< 1	0.022	0.22	1.12	0.05	0.24	0.19	1.9	55	24.4	84	2.47	4.8	11.6	6.69	22	7.48
282008	A11-8837Final	< 5	8.9	< 0.1	< 1	0.021	0.28	1.07	0.06	0.15	0.19	1.5	45	21.1	105	2.12	4.9	10.2	4.84	23.4	7.79
282009	A11-8837Final	< 5	13.4	0.2	1	0.029	0.26	1.13	0.04	0.09	0.18	1.3	26	20.3	100	1.36	7.9	17.8	10.8	19.8	3.49
282010	A11-8837Final	< 5	10.4	0.1	< 1	0.032	0.37	0.86	0.03	0.09	0.26	2.1	49	30.7	120	1.58	5.5	14.8	10	24.4	4.67
282011	A11-8837Final	< 5	13.4	0.4	< 1	0.026	0.24	1.82	0.02	0.09	0.21	2.5	40	27	74	2.07	4.6	11.6	11	15.1	4.59
282012	A11-8837Final	< 5	8	0.1	< 1	0.022	0.25	0.81	0.03	0.12	0.26	1.8	25	21	98	1.31	4.6	18.3	17.9	14.1	3.27
282013	A11-8837Final	< 5	8.7	0.2	< 1	0.024	0.39	1.64	0.08	0.12	0.18	1.8	41	35.3	99	2.04	5.1	12.3	8.67	17.6	6.73
282014	A11-8837Final	< 5	7.1	0.1	< 1	0.036	0.32	0.58	0.04	0.06	0.38	2.2	27	20.8	120	1.17	5.5	10.5	16.2	18.8	2.65
282015	A11-8837Final	6	11.9	0.1	< 1	0.033	0.42	1.21	0.04	0.11	0.35	3.3	72	23.9	138	1.69	6	14.3	17.3	33.5	8.8
282016	A11-8837Final	6	11.4	< 0.1	< 1	0.031	0.34	0.92	0.13	0.13	0.1	1.8	28	20.5	74	1.1	2.6	10	4.34	14.4	7.86
282017	A11-8837Final	< 5	12.5	0.2	< 1	0.03	0.29	1.46	0.03	0.13	0.21	1.7	41	30.6	103	2.1	6.5	15.7	10.3	19.8	5.35
282018	A11-8837Final	< 5	15.2	0.2	< 1	0.03	0.34	1.08	0.04	0.1	0.23	2	54	31.2	122	2.34	6.6	17.7	13.1	26.2	6.26
282019	A11-8837Final	< 5	13.5	0.2	< 1	0.037	0.3	1.32	0.03	0.1	0.25	1.9	49	31	98	2.24	6.6	21.1	9.09	21.8	5.8
282020	A11-8837Final	< 5	13	0.2	< 1	0.033	0.49	1.42	0.03	0.16	0.24	1.8	36	34	130	1.92	5.8	17.9	16.2	29.6	4.93
282021	A11-8837Final	< 5	20.4	0.3	< 1	0.032	0.55	1.59	0.03	0.12	0.28	2.9	47	35.9	178	2.35	7.8	24.3	30.5	44.7	5.94
282022	A11-8837Final	< 5	13.6	0.1	< 1	0.02	0.21	1.41	0.03	0.13	0.18	2.1	47	28.8	73	2.45	3.6	12	11.6	21.7	6.94
282023	A11-8837Final	< 5	7.7	0.1	< 1	0.021	0.21	1.09	0.03	0.09	0.17	1.2	22	16.7	79	1.53	3.4	9	4.82	11.7	2.8
282024	A11-8837Final	< 5	6.5	0.2	< 1	0.027	0.2	1.03	0.03	0.1	0.16	1.3	31	17.7	72	1.27	2.5	6.1	2.9	10.7	5.08
282025	A11-8837Final	< 5	4.6	< 0.1	< 1	0.017	0.13	0.49	0.02	0.06	0.12	0.8	16	11.4	40	0.48	1.3	3.9	3.74	10.3	3.71
282026	A11-8837Final	< 5	17.1	0.2	< 1	0.018	0.31	1.14	0.05	0.1	0.28	1.7	36	24.4	99	2.16	5.6	15.7	10.7	26.2	3.85
282027	A11-8837Final	< 5	8.2	< 0.1	< 1	0.021	0.36	0.85	0.03	0.08	0.28	1.5	22	15.3	111	1.24	5.2	13.6	10.5	16.6	3.62
282028	A11-8837Final	< 5	11.9	0.1	< 1	0.03	0.51	1.1	0.03	0.12	0.23	1.5	40	33.8	135	1.8	7	21.6	14.1	30.5	5.23
282029	A11-8837Final	< 5	11.2	0.1	< 1	0.029	0.32	0.88	0.03	0.1	0.21	1.7	49	20.8	89	1.69	4	10.7	15.3	19.3	6.89
282030	A11-8837Final	< 5	17.2	0.2	< 1	0.04	0.34	1.46	0.06	0.11	0.33	4	81	12.1	121	3.11	7.8	8.4	27.1	33.4	9.07
282031	A11-8837Final	< 5	19.2	0.2	< 1	0.024	0.33	1.58	0.05	0.18	0.26	2	55	23.2	108	3.22	7.3	16.6	20	27.9	8.63
282032	A11-8837Final	6	6.6	0.1	< 1	0.052	0.49	1.79	0.06	0.18	0.34	3.3	181	9.1	178	5.37	9.8	8	22.8	46.9	17.4
282033	A11-8837Final	< 5	15.5	0.2	5	0.083	0.66	1.7	0.07	0.11	0.64	7.3	166	41.9	242	5.94	14.2	27.8	27.9	61.9	13.7

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
282034	A11-8837Final	< 5	7.2	0.2	< 1	0.019	0.14	1.28	0.04	0.11	0.16	1.7	34	19.3	64	1.75	2.2	6	4.57	19.1	6.31
282035	A11-8837Final	< 5	10.3	0.2	< 1	0.022	0.19	1.49	0.04	0.13	0.15	1.2	29	19.7	104	1.79	3.3	6.4	4.51	33.1	5.6
282036	A11-8837Final	5	9.6	0.2	< 1	0.025	0.21	1.23	0.03	0.13	0.19	1.3	41	26.3	136	1.84	3.8	7.9	6.15	39.4	5.41
282037	A11-8837Final	< 5	7.4	0.2	< 1	0.021	0.13	0.69	0.03	0.07	0.16	1.2	29	16.1	60	1.24	2.3	5.9	3.51	17.3	4.52
282038	A11-8837Final	< 5	20.3	0.2	1	0.027	0.4	1.1	0.07	0.1	0.47	2.2	30	21.3	147	1.51	6.9	16.9	12.4	39	5.45
282039	A11-8837Final	11	9.8	0.1	< 1	0.024	0.29	1.04	0.04	0.09	0.4	1.5	24	20.1	117	1.47	5.4	15.5	10.7	20.1	3.53
282040	A11-8837Final	< 5	11.4	0.3	1	0.031	0.31	1.76	0.04	0.09	0.21	1.8	34	32.3	107	1.96	5.6	16.3	7.42	18.1	4.57
282041	A11-8837Final	< 5	12.7	0.2	2	0.029	0.44	1.17	0.04	0.11	0.19	2	71	53.5	118	2.79	5.9	25.1	12.7	31.5	9.71
282042	A11-8837Final	< 5	6.8	0.1	< 1	0.02	0.15	0.61	0.04	0.08	0.2	1.5	28	13.6	111	1.25	2.7	7.8	4.16	21.4	4.41
282043	A11-8837Final	< 5	10.9	0.1	< 1	0.021	0.28	1.06	0.06	0.11	0.19	1.6	36	17	119	2.17	4.6	9.4	6.25	23	5.94
282044	A11-8837Final	6	9.4	0.2	< 1	0.025	0.27	1.16	0.04	0.12	0.16	1.5	34	25.1	160	1.68	3.8	9	3.96	19.9	6.7
282045	A11-8837Final	7	6.9	< 0.1	1	0.026	0.21	0.71	0.04	0.1	0.15	1.3	36	20.9	80	1.28	2.3	6.9	3.22	17.8	5.72
282046	A11-8837Final	< 5	10.1	0.1	< 1	0.023	0.24	0.87	0.06	0.09	0.23	1.8	32	22	108	1.77	4.6	14.2	6.57	16.9	4.27
282047	A11-8837Final	< 5	6.1	0.1	< 1	0.024	0.21	0.82	0.04	0.1	0.16	1.2	25	17.7	94	1.23	2.7	7	2.61	14.6	4.67
282048	A11-8837Final	< 5	10.5	0.3	2	0.029	0.28	1.18	0.04	0.09	0.21	1.9	40	28.5	101	1.8	4.2	11.4	4.91	24.3	6.13
282049	A11-8837Final	< 5	13.6	0.2	2	0.028	0.27	0.96	0.05	0.09	0.26	2.3	36	26.6	162	1.6	4.7	14.8	6.39	34.7	5.75
282050	A11-8837Final	< 5	8.1	< 0.1	< 1	0.019	0.18	0.7	0.05	0.09	0.23	1.6	22	13.2	88	1.05	2.7	7.8	3.42	29.2	4.93
282051	A11-8837Final	< 5	6.1	< 0.1	< 1	0.026	0.25	0.78	0.04	0.13	0.18	1.1	25	19.8	108	0.99	2.6	7.8	4.04	30.7	5.76
282052	A11-8837Final	< 5	7.9	0.1	< 1	0.026	0.33	0.79	0.04	0.1	0.23	1.6	31	38.3	83	1.12	3.6	13.4	7.39	24.2	6.93
282053	A11-8837Final	< 5	13.1	0.2	< 1	0.023	0.23	0.97	0.04	0.1	0.24	1.9	36	22.6	93	1.87	4.3	12.1	4.96	32.7	5.76
282054	A11-8837Final	< 5	7	0.2	< 1	0.025	0.23	0.77	0.04	0.07	0.38	1.7	22	17.7	115	1.4	4.8	13.8	10.3	13.2	2.29
282055	A11-8837Final	< 5	2.8	< 0.1	< 1	0.023	0.16	0.59	0.02	0.11	0.11	0.8	34	15.7	75	1.06	1.7	5	2.96	8.8	5.57
282056	A11-8837Final	10	4.9	< 0.1	< 1	0.027	0.21	0.74	0.03	0.12	0.13	1.5	65	27.2	83	1.75	2.6	7.9	4.92	12.6	8.6
282057	A11-8837Final	< 5	6.8	0.1	1	0.022	0.18	0.71	0.04	0.09	0.2	1.6	39	18.3	74	1.41	2.9	9.8	4.33	12.7	5.51
282058	A11-8837Final	< 5	9.5	0.1	< 1	0.02	0.21	0.86	0.05	0.1	0.21	1.6	31	20.4	90	1.74	3.6	11.2	3.96	17	4.82
282059	A11-8837Final	< 5	6.8	0.2	< 1	0.026	0.22	0.91	0.04	0.08	0.2	1.5	27	20	100	1.18	2.7	7.7	3.15	20.4	4.84
282060	A11-8837Final	9	14.1	0.2	2	0.025	0.28	1	0.06	0.1	0.29	2	42	26.3	129	2.03	4.6	15.3	6.31	31.9	5.51
282061	A11-8837Final	< 5	7.4	0.1	< 1	0.016	0.15	0.63	0.04	0.1	0.25	1.3	22	12.6	174	1.1	2.3	6.3	2.28	22.3	4.27
282062	A11-8837Final	< 5	12.1	0.2	< 1	0.027	0.36	1.45	0.06	0.09	0.27	1.6	30	31.9	143	1.91	6.4	22.2	9.62	25.7	4.61
282063	A11-8837Final	< 5	6	< 0.1	< 1	0.027	0.21	0.71	0.05	0.09	0.2	1.2	28	21.5	86	1.17	2.2	6.8	3.23	23	5.34
282064	A11-8837Final	< 5	9.6	0.2	1	0.026	0.21	0.91	0.05	0.07	0.25	1.9	36	23.7	101	1.54	3.9	11.5	4.94	19.4	4.65
282065	A11-8837Final	< 5	10.7	0.2	< 1	0.02	0.19	0.86	0.05	0.09	0.23	1.7	32	18	120	1.82	3.6	10.8	5.47	16.9	4.86
282066	A11-8837Final	6	8.2	0.1	< 1	0.019	0.24	1.05	0.04	0.1	0.19	1.1	29	22.4	170	1.84	4	11.4	5.79	19.8	4.91
282067	A11-8837Final	8	10.6	0.2	1	0.03	0.29	1.21	0.04	0.1	0.22	1.7	44	30.9	105	1.93	4.6	13.2	6.15	19.6	6.38
282068	A11-8837Final	< 5	9.2	0.1	< 1	0.025	0.23	0.76	0.05	0.09	0.24	1.8	34	23	374	1.33	4.2	11.2	6.78	25.8	4.95
282069	A11-8837Final	< 5	9.1	0.2	< 1	0.02	0.18	0.83	0.04	0.08	0.22	1.8	29	19.1	87	1.63	4.4	13.2	6.25	14.7	3.84
282070	A11-8837Final	< 5	6	< 0.1	< 1	0.023	0.19	0.87	0.03	0.09	0.2	1.2	26	16.5	84	1.34	2.9	7.9	3.44	36.4	4.49
282071	A11-8837Final	< 5	10.4	0.2	< 1	0.032	0.3	1.4	0.03	0.1	0.22	1.7	42	32.8	98	2.07	4.7	14.5	7.31	18.9	5.42
282072	A11-8837Final	5	12.1	0.2	< 1	0.028	0.31	0.92	0.08	0.09	0.2	1.7	49	27	106	1.82	4.1	13.3	7.03	24.1	7.07
282073	A11-8837Final	< 5	8	0.2	2	0.024	0.17	0.69	0.04	0.08	0.21	1.7	36	17.8	83	1.56	2.7	7.8	4.05	11.3	5.33
282074	A11-8837Final	6	12.1	0.2	< 1	0.028	0.33	1.3	0.04	0.11	0.23	1.5	43	34.5	157	2.2	5.5	16.5	10.1	23.2	5.99
282075	A11-8837Final	< 5	5	< 0.1	< 1	0.023	0.14	0.61	0.03	0.09	0.15	1.3	30	16.7	88	0.92	2.2	5.8	3.7	15.6	4.73
282076	A11-8837Final	< 5	5	< 0.1	< 1	0.021	0.14	0.56	0.03	0.08	0.19	1.5	28	15.8	80	1.15	2.4	7.4	5.1	10	4.3
282077	A11-8837Final	< 5	10.1	0.2	< 1	0.02	0.23	1.13	0.04	0.1	0.21	1.5	33	21.9	120	1.95	4.3	12.7	6.18	15.9	4.87
282078	A11-8837Final	< 5	11	0.2	1	0.028	0.3	1.3	0.04	0.12	0.21	1.5	46	30.4	122	2.46	5.3	12.9	6.58	19	5.26

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
282079	A11-8837Final	< 5	14.5	0.2	2	0.031	0.31	1.23	0.05	0.09	0.25	2	44	31.7	113	1.91	5.4	15.4	8.66	26.1	5.66
282080	A11-8837Final	< 5	12.4	0.2	1	0.028	0.43	0.93	0.06	0.18	0.32	2.1	51	51.6	151	2.04	6.2	26.5	10.3	33.2	6.07
282081	A11-8837Final	< 5	10.4	0.2	< 1	0.023	0.25	1.03	0.05	0.07	0.27	1.7	31	23.5	113	2.19	5.7	17.1	7.07	25	3.44
282082	A11-8837Final	< 5	6.5	0.1	< 1	0.023	0.15	0.86	0.04	0.11	0.14	1.1	33	16.6	111	1.23	2.1	4.7	2.25	14.6	5.55
282083	A11-8837Final	< 5	11.3	0.2	< 1	0.027	0.2	1.09	0.04	0.1	0.21	2	39	23	92	1.6	4	10.8	5.91	19.6	5.02
282084	A11-8837Final	9	11	0.2	< 1	0.024	0.24	1.27	0.04	0.14	0.21	1.6	43	25.7	109	2.35	5.3	12.9	7.87	19.9	5.45
282085	A11-8837Final	< 5	17.4	0.2	2	0.032	0.52	1.5	0.04	0.12	0.19	1.4	47	58	133	2.38	6.9	26.9	12	25.3	6.24
282086	A11-8837Final	< 5	24	0.3	2	0.033	0.34	1.58	0.05	0.13	0.25	2.1	51	45.2	126	2.35	8.4	26.5	13.1	23.8	5.58
282087	A11-8837Final	< 5	8.6	0.2	< 1	0.028	0.21	0.96	0.04	0.07	0.28	2	25	23.3	92	1.29	6	18.7	10.2	12.7	2.3
282088	A11-8837Final	< 5	14.3	0.2	1	0.03	0.42	1.13	0.06	0.09	0.7	2.2	31	35.8	184	1.77	6.9	21.5	18.2	26.2	3.86
282089	A11-8837Final	< 5	7.6	0.1	1	0.027	0.21	0.95	0.04	0.1	0.17	1.4	38	24.9	152	1.62	3.6	8.7	4.4	22.4	5.22
292001	A11-8837Final	< 5	15	0.1	< 1	0.04	0.42	1.04	0.04	0.12	0.27	2.2	47	33.7	128	1.87	6.3	17.6	14.5	29.4	5.16
292002	A11-8837Final	< 5	6	< 0.1	< 1	0.024	0.2	0.77	0.04	0.16	0.19	1.6	39	19	81	1.03	2.9	8	7.54	17.9	6.63
292003	A11-8837Final	< 5	17.3	0.2	< 1	0.026	0.34	1.86	0.04	0.14	0.17	2.2	51	32.9	112	2.69	7.4	17.5	10.4	25.3	6.43
292004	A11-8837Final	< 5	25.2	0.5	< 1	0.035	0.41	4.22	0.04	0.15	0.16	2.7	50	53	131	3.32	8.1	21.5	25.1	44	6.74
292005	A11-8837Final	< 5	10.1	0.2	< 1	0.034	0.3	1.34	0.03	0.12	0.19	1.8	45	34.6	97	1.6	3.8	11.8	12.7	27	5.61
292006	A11-8837Final	21	9.8	0.2	2	0.025	0.21	0.93	0.05	0.08	0.28	2	53	31.1	83	2.27	4.1	13.9	4.85	14	4.15
292007	A11-8837Final	< 5	11	0.2	< 1	0.033	0.38	1	0.05	0.08	0.29	1.8	34	26.2	162	1.87	6.3	14.5	6.06	21.4	3.69
292008	A11-8837Final	< 5	7.9	< 0.1	< 1	0.033	0.29	0.8	0.04	0.11	0.19	1.6	49	24.2	106	1.59	4	11.2	6.72	20.4	5.46
292009	A11-8837Final	< 5	14.9	0.1	< 1	0.037	0.44	1.16	0.04	0.14	0.32	3.2	79	29.7	156	2.22	7.4	17.3	12.3	40.3	8.3
292010	A11-8837Final	< 5	25.4	0.3	< 1	0.025	0.4	2.26	0.05	0.17	0.2	3.2	57	34.2	129	3.55	8.9	20.6	20.5	34.1	6.3
292011	A11-8837Final	< 5	7.2	0.2	< 1	0.032	0.21	1.86	0.03	0.23	0.19	2.5	57	23.4	105	2.28	3.1	6.6	12.3	17.6	9.11
292012	A11-8837Final	< 5	12.6	0.3	< 1	0.043	0.42	2.03	0.04	0.12	0.23	3.5	87	36.4	148	3.13	8	11.3	20.6	30.4	7.29
292013	A11-8837Final	9	23	0.3	< 1	0.034	0.29	2.22	0.03	0.15	0.21	3.8	70	40.1	108	3	5.7	16	26.7	36.7	8.01
292014	A11-8837Final	< 5	16.9	0.2	< 1	0.033	0.4	1.24	0.05	0.09	0.43	3.1	44	23	155	2.4	10.6	28.3	27.9	28	3.71
292015	A11-8837Final	< 5	19.1	0.1	< 1	0.033	0.47	1.79	0.04	0.13	0.2	2.5	72	29.1	169	3.37	6.8	15.9	10.9	28.4	10.6
292016	A11-8837Final	< 5	13.8	0.2	2	0.044	0.42	1.28	0.05	0.08	0.56	2.4	35	34.4	199	1.69	7.4	18.5	16.2	26.1	3.98
292017	A11-8837Final	< 5	14.3	0.2	1	0.036	0.26	1.09	0.04	0.09	0.3	2.4	52	24.5	92	1.63	4.6	11.4	11	17.9	5.84
292018	A11-8837Final	< 5	17	0.1	< 1	0.03	0.29	1.1	0.05	0.11	0.24	2	44	34.1	116	2.59	6.2	19	9.67	25.6	5.34
292019	A11-8837Final	< 5	4.6	< 0.1	< 1	0.02	0.17	0.87	0.04	0.16	0.15	1.4	63	22.4	88	2.11	2.8	7.4	3.47	13.5	7.94
292020	A11-8837Final	6	13	0.3	< 1	0.034	0.33	2.24	0.03	0.1	0.23	1.9	38	36.7	121	2.21	5.7	14.9	11.8	21.4	4.54
292021	A11-8837Final	< 5	16.3	0.2	1	0.033	0.28	0.96	0.04	0.09	0.32	2.3	32	24.3	101	0.87	4	12.7	13.1	25.7	4.44
292022	A11-8837Final	< 5	32.5	0.3	1	0.032	0.87	2.69	0.06	0.09	0.37	3.3	43	52.7	204	3.32	19.8	65.6	27.7	36.3	5.37
292023	A11-8837Final	< 5	8.8	0.1	< 1	0.026	0.21	1.41	0.03	0.09	0.16	1.6	36	22.8	78	1.48	3.3	8.9	6.2	11.5	5.36
292024	A11-8837Final	< 5	8.4	0.2	< 1	0.036	0.3	1.07	0.03	0.06	0.32	1.9	31	22.8	115	1.32	4.6	12	10.5	15.8	2.98
292025	A11-8837Final	< 5	12	0.3	1	0.031	0.24	1.47	0.04	0.09	0.22	2.6	45	30.4	93	1.93	7	18.8	12.1	16.4	5.15
292026	A11-8837Final	< 5	11.6	0.2	< 1	0.028	0.25	1.69	0.04	0.13	0.2	1.8	29	27.5	108	1.92	7.4	17.7	9.29	14.2	3.19
292027	A11-8837Final	< 5	10.8	0.1	< 1	0.029	0.25	1.76	0.04	0.14	0.16	1.9	82	26.2	92	2.6	3.4	8	9.33	21.6	9.95
292028	A11-8837Final	< 5	10.5	0.2	< 1	0.034	0.21	1.53	0.03	0.05	0.27	2.7	33	26.8	81	1.19	3.6	12.7	9.86	12.9	3.08
292029	A11-8837Final	< 5	7.9	0.2	< 1	0.03	0.21	0.71	0.03	0.05	0.36	2.2	26	17.5	105	1.32	5.6	14.7	8.01	12	2.3
292030	A11-8837Final	< 5	13.3	0.2	< 1	0.028	0.28	1.41	0.05	0.09	0.23	1.7	35	25.9	108	1.87	5.6	14.1	10.6	18.2	4.37
292031	A11-8837Final	< 5	5.3	0.1	< 1	0.027	0.16	0.97	0.03	0.09	0.14	1.3	47	21.8	82	1.76	2.8	6.3	4.2	10.4	5.86
292032	A11-8837Final	< 5	7	0.2	2	0.029	0.17	0.8	0.03	0.08	0.21	1.9	38	21.5	87	1.37	3.3	8	6.69	13.3	4.34
292033	A11-8837Final	< 5	7.7	0.2	< 1	0.025	0.15	0.8	0.03	0.07	0.24	2	33	16.5	83	1.48	3.9	9	5.46	11.2	3.27
292034	A11-8837Final	13	5.9	< 0.1	< 1	0.043	0.38	1.13	0.05	0.22	0.31	3.6	158	31.4	173	3.33	7.8	9.6	19.4	31.7	10.4

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
292035	A11-8837Final	< 5	14.3	0.2	< 1	0.081	0.48	1.63	0.05	0.16	0.44	6.7	200	70.5	193	4.61	8.3	20.7	20.4	39.7	15.4
292036	A11-8837Final	< 5	10.7	0.2	< 1	0.031	0.26	0.92	0.03	0.05	0.33	2.8	30	23.4	105	1.36	6.2	16.2	23.5	13.8	2.56
292037	A11-8837Final	< 5	61.5	0.4	< 1	0.035	0.67	2.32	0.1	0.13	0.82	6.3	88	14.2	411	4.78	29.8	15	25.1	58.8	8.62
292038	A11-8837Final	5	18	0.2	1	0.036	0.52	1.95	0.08	0.11	0.33	2.6	63	46.5	200	3.25	8.9	21.9	26.1	33	7.01
292039	A11-8837Final	< 5	21.6	0.3	3	0.038	0.63	1.74	0.05	0.13	0.27	3.3	71	57.8	183	2.52	7.7	25.8	26.6	36.3	8.51
292040	A11-8837Final	7	22.9	0.4	2	0.039	0.25	2.1	0.05	0.12	0.26	4.3	62	29.1	107	2.38	5.9	11.5	18.7	46.8	7.76
292041	A11-8837Final	< 5	10	0.1	< 1	0.022	0.15	1.24	0.03	0.09	0.2	2.1	40	21.5	75	1.77	3.3	9.9	7.16	12.4	5.38
292042	A11-8837Final	< 5	12.9	0.1	1	0.034	0.36	0.97	0.06	0.07	0.49	2	27	19.8	318	1.62	7.9	14.5	10.5	28.1	2.94
292043	A11-8837Final	< 5	10.5	0.2	2	0.037	0.34	1.09	0.04	0.07	0.42	1.9	33	28.4	126	1.48	5.9	15.8	9.25	14.8	3.96
292044	A11-8837Final	< 5	13.1	0.2	2	0.037	0.32	1.06	0.05	0.07	0.34	2.8	42	34.2	133	1.68	7.7	21.3	22.1	23.6	4.26
292045	A11-8837Final	195	15.1	0.2	2	0.026	0.23	1.04	0.06	0.07	0.26	2.2	41	27.1	110	2.39	6.5	19.7	8.88	16.2	4.57
292046	A11-8837Final	< 5	9.5	0.1	< 1	0.018	0.19	0.96	0.05	0.11	0.17	1.5	37	19	112	2.04	3.8	9.4	4.02	20	5.23
292047	A11-8837Final	< 5	3.6	0.1	< 1	0.023	0.12	0.52	0.03	0.07	0.12	0.9	22	13.6	113	0.82	1.5	3.6	1.5	6.6	3.43
292048	A11-8837Final	< 5	10.7	0.3	2	0.036	0.23	0.99	0.05	0.05	0.36	2.3	35	22.5	100	1.5	4.8	13.7	4.77	14.3	3.58
292049	A11-8837Final	< 5	12.3	0.2	< 1	0.027	0.32	1.06	0.05	0.07	0.26	1.9	30	23.8	138	1.99	6	16.7	6.35	20.3	3.78
292050	A11-8837Final	< 5	8.1	0.2	< 1	0.034	0.33	0.89	0.05	0.07	0.24	1.7	35	47.3	136	1.67	5.7	19.6	8.9	17.2	4.22
292051	A11-8837Final	< 5	12.9	0.2	2	0.038	0.35	1.01	0.05	0.08	0.31	2.4	47	47.6	141	1.85	6.7	21.6	11.9	19.5	4.96
292052	A11-8837Final	< 5	4.9	< 0.1	1	0.025	0.15	0.52	0.05	0.09	0.27	2	27	11.8	347	1.04	3.1	7.8	4.57	20.5	3.57
292053	A11-8837Final	< 5	11.5	0.2	< 1	0.027	0.23	0.98	0.06	0.08	0.32	2.1	29	16.4	132	1.84	5	12.8	4.1	29.4	3.26
292054	A11-8837Final	< 5	9.6	0.2	1	0.031	0.3	1.42	0.06	0.08	0.31	2.1	30	23.8	122	1.78	6.4	16.9	6.24	20	3.85
292055	A11-8837Final	7	12.4	0.3	2	0.034	0.29	1.28	0.06	0.08	0.32	2.4	42	26.3	123	1.99	5.5	14.8	9.48	20.7	4.99
292056	A11-8837Final	< 5	15.5	0.3	2	0.032	0.29	1.16	0.06	0.07	0.32	2.8	41	25.1	124	1.88	6.1	18.5	11.9	26.5	4.49
292057	A11-8837Final	< 5	10.7	0.2	1	0.031	0.22	1.21	0.06	0.06	0.35	2.5	30	18.2	116	1.77	7.4	21.1	9.4	20.5	2.6
292058	A11-8837Final	< 5	10.8	0.3	1	0.027	0.24	1.67	0.05	0.09	0.29	2.4	35	25	128	2.34	8.1	18.9	9.67	17	3.85
292059	A11-8837Final	< 5	9.1	0.2	1	0.034	0.25	1.14	0.04	0.07	0.25	2.1	37	25	114	1.86	5.3	14.1	7.56	15.7	3.98
292060	A11-8837Final	8	10.9	0.2	< 1	0.025	0.28	0.75	0.04	0.05	0.22	1.8	34	23.8	93	1.58	5	16.6	6.08	13.8	3.59
292061	A11-8837Final	6	11.4	0.1	2	0.025	0.22	0.97	0.07	0.09	0.24	2.3	41	16.2	107	2.27	4.8	12.3	5.67	20.2	5.03
292062	A11-8837Final	< 5	6.3	0.1	< 1	0.018	0.14	0.85	0.03	0.05	0.17	1.1	19	10.1	72	1.22	4.2	10.4	3.59	10.5	2.22
292063	A11-8837Final	< 5	8.6	0.2	1	0.03	0.25	0.95	0.04	0.07	0.22	1.8	39	22.9	129	2.01	4.8	11.9	6.5	15.5	4.68
292064	A11-8837Final	13	12.7	0.2	2	0.032	0.25	1.01	0.05	0.07	0.26	2.5	40	21.7	139	1.83	4.9	14.4	8.62	23.6	4.82
292065	A11-8837Final	6	20.8	0.2	1	0.029	0.26	1	0.06	0.09	0.54	2.4	34	21.1	124	1.97	6.5	15.8	13.6	16.3	3.19
292066	A11-8837Final	7	13.4	0.2	1	0.036	0.36	1.24	0.04	0.13	0.5	1.9	37	26.1	130	1.89	8.3	16.8	12.9	19.3	4.71
292067	A11-8837Final	6	15	0.3	3	0.044	0.32	1.67	0.06	0.06	0.31	3.1	35	31.4	130	1.73	7.6	19.4	7.89	18.5	3.85
292068	A11-8837Final	6	13.4	0.2	2	0.028	0.25	0.92	0.07	0.09	0.25	2.6	38	19.7	132	1.61	4.9	14.5	5.04	19	4.47
292069	A11-8837Final	8	13.2	0.3	2	0.027	0.25	1.21	0.07	0.08	0.33	2.5	33	20	123	2.12	7.7	20	6.95	16.2	3.33
292070	A11-8837Final	9	2.9	< 0.1	< 1	0.023	0.09	0.52	0.05	0.08	0.2	0.9	16	5.7	759	0.8	3.1	3.1	1.74	6.8	2.69
292071	A11-8837Final	< 5	10	0.2	2	0.036	0.28	1.02	0.05	0.08	0.35	2	34	23.9	136	1.64	4.5	12.5	5.23	19.7	3.86
292072	A11-8837Final	< 5	11.9	0.2	2	0.037	0.3	0.96	0.06	0.06	0.37	2.8	35	24.4	159	1.42	5.1	17.2	7.78	25.3	4.1
292073	A11-8837Final	< 5	12.7	0.3	1	0.031	0.27	1.2	0.05	0.07	0.34	2.3	32	18.7	119	1.82	5.9	16	7.36	21.5	3.55
292074	A11-8837Final	< 5	8.1	0.2	< 1	0.028	0.18	1.17	0.04	0.07	0.23	1.7	26	14.4	89	1.58	4.2	10.3	4.24	14.1	4.2
292075	A11-8837Final	< 5	12.8	0.4	1	0.034	0.25	1.71	0.04	0.08	0.2	1.7	32	21	121	1.79	4.2	10.9	4.16	22.6	4.91
292076	A11-8837Final	< 5	11.6	0.3	2	0.032	0.26	1.34	0.04	0.05	0.22	2	29	21.3	99	1.33	5.4	14.5	6.35	21.5	3.63
292077	A11-8837Final	18	11	0.3	2	0.027	0.19	1.1	0.05	0.07	0.32	2.5	35	16.1	120	1.65	4.6	12.4	5.36	20.2	4.65
292078	A11-8837Final	134	8.9	0.2	< 1	0.027	0.21	1.05	0.04	0.08	0.23	1.9	31	16.7	104	1.75	4.3	11.1	3.87	16.9	4.13
292079	A11-8837Final	7	5.9	0.2	1	0.031	0.14	0.68	0.03	0.06	0.17	1.6	33	16	97	1.25	2.1	5.9	3.31	11.1	4.65

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
	Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02
Sample #	Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
	Certificate #																				
292080	A11-8837Final	< 5	7.6	0.1	2	0.024	0.2	0.65	0.05	0.06	0.29	2.2	35	15.5	108	1.51	3.8	12	8.03	12.3	3.77
292081	A11-8837Final	< 5	10.5	0.2	< 1	0.031	0.21	1.04	0.05	0.06	0.35	2.3	27	15.7	116	1.77	6.1	15.2	5.98	13.3	2.7
292082	A11-8837Final	< 5	14.4	0.2	1	0.032	0.34	1.2	0.06	0.09	0.26	2	37	25.6	154	2.42	6.2	15.9	9.94	18.6	4.46
292083	A11-8837Final	14	11.9	0.2	2	0.034	0.33	0.87	0.05	0.12	0.27	2.5	58	28.7	125	2.26	6	17.2	11.7	21.5	6.28
292084	A11-8837Final	< 5	19.8	0.2	< 1	0.03	0.47	1.27	0.07	0.08	0.36	2.3	48	38.2	248	2.67	8.8	31.3	13.1	25.1	5.62
292085	A11-8837Final	< 5	8.5	0.2	< 1	0.025	0.23	0.93	0.04	0.11	0.19	1.5	33	14.5	122	1.8	3.9	9	4.95	15.1	5.18
292086	A11-8837Final	< 5	6.9	0.2	< 1	0.036	0.22	0.91	0.04	0.06	0.29	1.7	26	18	101	1.32	4	11	7.39	11.4	2.85
292087	A11-8837Final	< 5	7.6	0.2	< 1	0.037	0.34	0.77	0.04	0.03	0.39	1.8	23	31	95	0.99	5	15.8	9.14	13.7	2.47
292088	A11-8837Final	< 5	7.5	0.2	1	0.029	0.23	0.7	0.07	0.07	0.36	2.5	24	15.1	140	1.24	4	11.8	4.99	15.7	3.61
292089	A11-8837Final	< 5	9.9	0.2	1	0.027	0.27	1.07	0.07	0.07	0.32	2	25	17.1	120	1.7	4.9	15.8	6.14	18.1	3.3
292090	A11-8837Final	< 5	8	0.2	1	0.027	0.26	0.96	0.05	0.08	0.25	1.6	35	24.3	162	1.92	4.3	11.8	6.72	22.1	4.54
292091	A11-8837Final	6	15.4	0.3	2	0.033	0.3	1.1	0.06	0.07	0.33	2.7	41	26.2	172	2.01	6	18.1	8.69	29	4.76
292092	A11-8837Final	< 5	11.6	0.2	1	0.028	0.26	1.1	0.08	0.07	0.34	2.3	30	18.1	128	1.92	6	16.6	5.8	16.5	3.55
292093	A11-8837Final	< 5	7.2	0.1	1	0.027	0.23	0.94	0.05	0.09	0.2	1.4	33	17.7	108	1.69	3.7	10.6	4.34	14	4.86
292094	A11-8837Final	< 5	10.5	0.2	2	0.031	0.23	1.12	0.04	0.07	0.23	2	34	19.6	103	1.58	4.3	11.3	4.79	17	4.19
292095	A11-8837Final	< 5	11	0.2	2	0.032	0.24	0.72	0.05	0.05	0.34	2.5	35	20.4	121	1.78	4.9	14.7	9.43	18.7	3.44
292096	A11-8837Final	< 5	12.6	0.2	1	0.027	0.26	0.97	0.06	0.07	0.32	2.2	33	17.2	179	2.01	6.9	17.7	7.78	16.2	3.34
292097	A11-8837Final	6	7.4	0.1	2	0.025	0.22	0.81	0.04	0.07	0.25	1.6	30	18.4	131	2.13	5.4	13	7.59	11.7	3.28
292098	A11-8837Final	< 5	9	0.2	2	0.034	0.23	0.97	0.04	0.09	0.19	1.7	46	22.3	114	1.88	3.5	8.1	4.42	19.6	6.37
292099	A11-8837Final	< 5	12.3	0.3	2	0.036	0.23	1.27	0.04	0.06	0.29	2.5	35	24.4	102	1.7	5.4	15.1	6.98	14.1	3.9
292100	A11-8837Final	45	10.3	0.2	2	0.033	0.31	0.8	0.05	0.06	0.54	2.4	27	21	121	1.38	5.8	17.9	10.1	19.1	2.96
292101	A11-8837Final	< 5	8.7	0.2	< 1	0.034	0.31	0.9	0.05	0.06	0.48	1.9	23	19.8	132	1.43	5.4	15.2	7.69	14.5	2.9

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272001	< 0.1	6.4	0.4	7.1	17.1	2.59	6.9	1.9	1.59	0.05	0.02	< 0.02	0.5	0.11	0.05	1.49	27.1	10.2	19.1	2.2	7.41	1.3
272002	< 0.1	3.4	0.4	4.3	15.4	3.86	6.1	2.1	0.79	0.014	0.01	< 0.02	0.34	0.08	< 0.02	1.15	23.8	9.8	19.4	2.3	8.72	1.6
272003	< 0.1	4.4	0.6	4.9	18.1	4.7	9.7	2.4	1.27	< 0.002	0.03	< 0.02	0.41	0.09	0.06	1.32	25.3	12	23.8	2.8	9.99	1.7
272004	< 0.1	2.2	0.5	4.7	17.6	3.25	5.7	2	0.39	0.002	0.03	< 0.02	0.43	0.06	0.08	1.22	18.5	10.7	19.5	2.2	7.27	1.2
272005	< 0.1	2.4	0.6	3.4	12.8	4.67	4	3.1	0.37	< 0.002	0.01	< 0.02	0.3	0.08	0.04	0.98	18.2	12.6	24.1	2.9	10.5	1.9
272006	< 0.1	1.1	0.4	4.2	9.9	2.2	2	1.9	0.25	< 0.002	0.01	< 0.02	0.38	0.05	0.03	1.18	9.8	8.3	15.2	1.8	6.86	1.3
272007	< 0.1	2.7	0.2	9.3	15.9	4.04	5.3	2.3	0.53	0.005	0.02	< 0.02	0.41	0.07	0.05	1.49	31.2	10.3	20.4	2.4	8.68	1.5
272008	< 0.1	3	0.5	10.7	18.4	3.68	4.7	2.1	0.42	0.011	0.03	< 0.02	0.44	0.06	0.06	0.93	35.3	8.5	16.9	2	6.99	1.2
272009	< 0.1	2.2	0.2	10.6	13.7	2.68	4	1.9	0.53	0.01	0.01	< 0.02	0.32	0.06	< 0.02	1.08	18.2	8.3	15.5	1.8	6.11	1
272010	< 0.1	1.8	0.2	6.5	15.1	4.22	5.1	1.4	0.48	0.018	0.01	< 0.02	0.34	0.05	0.03	0.8	24.3	10.9	22.2	2.4	8.8	1.6
272011	< 0.1	4.7	0.3	9.9	15.6	3.5	6.7	2.7	1.04	0.028	0.03	< 0.02	0.66	0.08	0.05	1.98	33.2	8.1	16.4	1.9	6.93	1.3
272012	< 0.1	2.5	0.3	12.5	16.8	4.66	5.3	1.8	0.41	0.004	0.02	< 0.02	0.33	0.05	< 0.02	1.71	28	9.8	19.2	2.3	8.38	1.5
272013	< 0.1	5.3	0.4	9.3	16	4.53	6.4	2.1	0.4	0.023	0.02	< 0.02	0.31	0.07	< 0.02	1.39	24.6	11.2	27.6	2.6	9.62	1.7
272014	< 0.1	3.6	0.3	12.5	17.7	3.54	5.5	2.7	0.8	0.128	0.04	< 0.02	0.48	0.1	< 0.02	2.49	38.5	9.5	18.6	2.2	7.99	1.4
272015	< 0.1	2.6	0.4	17.4	20.1	3.74	5.8	2.4	0.79	0.065	0.07	< 0.02	0.57	0.07	0.03	1.39	34.7	9.7	18.1	2.2	7.8	1.3
272016	< 0.1	3.3	0.3	12.7	16.7	3.94	5.5	2	0.43	0.049	0.03	< 0.02	0.39	0.07	0.02	1.39	44.5	7.9	15.2	1.8	6.48	1.1
272017	< 0.1	4.4	0.1	12.6	12.9	2.83	4.1	2.1	0.65	0.062	0.01	< 0.02	0.37	0.09	0.02	1.42	30.1	7.7	15.2	1.7	5.94	1
272018	< 0.1	1.4	0.4	11.9	11.5	3.93	19.2	0.7	0.26	0.011	0.02	< 0.02	0.26	0.05	0.02	3.36	100	9.8	18.2	2.1	7.63	1.4
272019	0.1	0.6	0.3	12.6	4.2	8.3	16.5	0.1	0.51	0.008	0.03	0.03	0.36	0.24	< 0.02	3.09	47.9	3.5	6.81	0.9	3.46	0.9
272020	< 0.1	3.2	0.6	4.5	9.5	3.58	3	2.5	1.08	< 0.002	0.06	0.02	0.69	0.2	0.02	1.12	30.5	6.7	12.4	1.5	5.23	0.9
272021	< 0.1	1.7	0.2	6.7	18.1	4.06	6.1	1.4	0.34	0.016	< 0.01	< 0.02	0.47	0.05	< 0.02	1.76	29.4	9.2	17.1	2.1	7.67	1.4
272022	< 0.1	0.4	0.2	2.1	4	5.44	2.7	1	0.3	< 0.002	0.03	< 0.02	0.76	0.11	< 0.02	0.46	20.7	3	5.47	0.7	2.54	0.5
272023	0.2	10	0.6	10.1	19.4	10.4	10	2.3	0.93	0.007	0.02	0.02	0.65	0.08	< 0.02	2.06	62.9	28.2	48.6	6.9	26.2	5
272024	< 0.1	2.1	0.3	4.7	11.6	2.65	4.9	2.7	0.44	< 0.002	0.02	< 0.02	0.48	0.06	0.04	0.75	11.6	7.8	15	1.8	6.18	1.1
272025	< 0.1	1.3	0.1	8.7	23.5	3.85	6.8	1.5	0.49	< 0.002	0.01	< 0.02	0.47	0.04	0.03	1.6	17.3	17	31.9	3.5	12	1.9
272026	< 0.1	1.8	0.2	5.7	15.5	4.85	5.3	1.2	0.38	< 0.002	0.01	< 0.02	0.34	0.06	0.02	1.12	23.9	13	26.4	3	10.9	1.9
272027	< 0.1	1.7	0.3	9.2	16	3.6	5.3	2.4	0.39	< 0.002	0.02	< 0.02	0.39	0.04	< 0.02	1.47	17.8	7.9	15.8	2	7.06	1.3
272028	< 0.1	0.7	0.1	10.4	19.4	5.27	3	1.9	0.3	< 0.002	0.02	< 0.02	0.45	0.04	< 0.02	1.16	30.1	16.7	34.8	3.8	13.2	2.2
272029	< 0.1	1.1	< 0.1	11.5	19.2	3.9	5	1	0.24	0.002	0.02	< 0.02	0.36	0.04	< 0.02	1.98	31	9.4	18.8	2.2	7.97	1.5
272030	< 0.1	4	< 0.1	6.2	14.3	2.8	6.4	2.5	1.38	< 0.002	0.04	< 0.02	0.53	0.1	0.03	2.14	15.7	8.9	16.4	1.9	6.8	1.2
272031	< 0.1	2.1	0.2	5	17.6	3.19	7.6	2.3	0.91	< 0.002	0.01	< 0.02	0.58	0.07	< 0.02	1.53	23.4	9.8	17.7	2.1	7.28	1.2
272032	< 0.1	4.2	< 0.1	4.5	16	3.83	3.5	1.4	1.07	0.043	0.02	< 0.02	0.36	0.05	0.05	1.26	25.5	11	24.2	2.6	9.56	1.7
272033	< 0.1	2.4	< 0.1	11.5	18.6	5.75	3.3	1.5	0.4	0.024	0.02	< 0.02	0.35	0.03	0.02	1.75	42.4	15.9	34.7	4.1	15.2	2.7
272034	< 0.1	2.4	0.2	5.2	18.7	4.1	7	2.2	0.55	< 0.002	0.03	< 0.02	0.43	0.05	0.03	1.58	22.9	10.7	21.2	2.5	8.96	1.6
272035	< 0.1	2.6	0.5	6.2	23.8	6.44	7.6	1.3	0.56	0.007	0.02	< 0.02	0.41	0.06	< 0.02	1.62	34.2	16.9	34.2	3.9	13.7	2.3
272036	< 0.1	0.6	< 0.1	13.7	10.1	2.64	11	1.2	0.52	< 0.002	0.02	< 0.02	0.51	0.05	0.04	2.31	66.7	4.4	8.13	1	3.64	0.7
272037	< 0.1	1.3	< 0.1	3.9	11.6	2.18	3.8	1.9	0.65	< 0.002	0.02	< 0.02	0.77	0.07	0.02	1.24	21.4	8.5	16.1	1.9	6.75	1.2
272038	< 0.1	1	< 0.1	4.3	10.9	2.71	12.5	1.7	0.39	< 0.002	0.02	< 0.02	0.73	0.07	< 0.02	1.33	30.5	2.3	4.3	0.6	2.19	0.5
272039	< 0.1	2.5	0.3	9.3	20.1	3.64	8.5	3	0.76	< 0.002	0.02	< 0.02	0.6	0.07	0.05	2.08	34.7	9.3	17.7	2.1	7.37	1.3
272040	< 0.1	1.9	0.3	7.3	14.9	2.31	8.4	2.1	0.83	< 0.002	0.04	< 0.02	0.7	0.1	0.03	3.06	53.9	5.8	11.1	1.2	4.5	0.8
272041	< 0.1	1.9	0.1	5.5	18.6	2.54	5.5	2.3	0.52	< 0.002	0.02	< 0.02	0.66	0.06	0.04	1.19	18.5	7.4	14.3	1.7	5.99	1
272042	< 0.1	2	0.2	10.1	22.3	3.94	7.6	2.5	0.46	< 0.002	0.02	< 0.02	0.55	0.07	0.02	1.88	28.3	15.1	28.4	3.2	10.7	1.6
272043	0.1	6.8	0.6	11.5	21	9.51	3.7	1.6	0.64	0.013	0.03	< 0.02	0.33	0.06	< 0.02	2.03	52.5	31.2	77.3	6.6	23.6	3.8
272044	< 0.1	1.2	0.1	5.7	13	3.22	1.8	1.4	0.31	< 0.002	0.04	< 0.02	0.35	0.04	< 0.02	1.62	22.1	10.1	20.1	2.3	7.96	1.4
272045	< 0.1	1.3	0.1	5.9	21.7	5.15	4	1.6	0.16	< 0.002	0.02	< 0.02	0.32	0.04	< 0.02	0.89	26	12	25.3	3	11	1.9

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272046	< 0.1	1.3	0.2	13.2	19.5	4.01	3.5	2	0.37	< 0.002	0.02	< 0.02	0.51	0.04	< 0.02	1.74	30.7	13.1	26.2	3	10.3	1.7
272047	< 0.1	1.5	0.3	9.3	16.8	4.75	4.9	2.3	0.68	< 0.002	0.02	< 0.02	0.45	0.06	< 0.02	1.79	29.2	22.3	41.7	4.7	16.3	2.4
272048	< 0.1	1.7	0.2	6.4	13.5	3.7	5.7	1.9	0.42	< 0.002	0.01	< 0.02	0.34	0.04	< 0.02	0.94	26.5	10.1	20	2.3	8.41	1.5
272049	< 0.1	1.4	0.2	5.9	15.6	2.27	5.1	2.1	0.46	< 0.002	0.01	< 0.02	0.52	0.07	< 0.02	1.34	8.6	6.4	12.4	1.5	5.45	0.9
272050	< 0.1	1.9	0.3	8.3	15.6	2.46	4.7	2.4	0.55	< 0.002	0.02	< 0.02	0.52	0.05	< 0.02	1.36	16	6.7	13	1.5	5.19	0.9
272051	< 0.1	1.7	0.2	8.5	16.5	2.75	5.6	2.6	0.68	< 0.002	0.01	< 0.02	0.43	0.04	< 0.02	1.15	15.4	6.9	13.2	1.5	5.43	1
272052	< 0.1	1.9	0.2	6.7	11.6	2.31	5	2.5	0.49	< 0.002	0.02	< 0.02	0.4	0.05	< 0.02	1.53	16.5	7.1	13.8	1.6	5.81	1
272053	< 0.1	2.5	0.1	9.2	13.4	3.5	5	2.3	0.43	0.005	0.03	< 0.02	0.38	0.04	< 0.02	1.65	38.6	9.2	17.8	2.1	7.53	1.4
272054	< 0.1	2.3	0.4	12.1	18.7	4.46	3.9	1.9	0.39	0.035	0.03	< 0.02	0.41	0.06	< 0.02	1.37	35.2	10.8	22.3	2.5	8.93	1.5
272055	< 0.1	0.8	< 0.1	16.1	17	3.15	1.9	1	0.27	0.032	0.05	< 0.02	0.47	0.04	< 0.02	1.63	51	9.6	18.8	2.2	7.8	1.4
272056	< 0.1	1.9	< 0.1	7.8	12.4	2.39	3.3	2	0.56	0.067	0.05	< 0.02	0.37	0.05	0.03	1.06	22.9	8.2	16.6	1.9	6.66	1.1
272057	< 0.1	1.7	0.1	9.9	13.5	3.02	3.4	2.2	0.55	0.029	0.04	< 0.02	0.49	0.12	< 0.02	1.17	51.4	8.3	15.9	1.9	6.77	1.2
272058	< 0.1	1.8	0.2	10.3	14	4.3	3	2.1	0.33	0.049	0.03	< 0.02	0.41	0.06	0.02	0.76	35.2	11.6	26.1	2.7	9.57	1.6
272059	< 0.1	1.8	0.3	5.9	16.3	4.92	5.2	1.8	0.23	0.005	0.01	< 0.02	0.28	0.04	< 0.02	0.81	23	10.4	22	2.5	9.32	1.8
272060	< 0.1	1.7	0.2	10.2	14.8	6.82	1.6	1.5	0.11	0.027	0.03	< 0.02	0.27	0.04	< 0.02	0.49	27.9	20.5	30.2	4.8	17	2.9
272061	< 0.1	1.1	0.1	7	18.1	5.99	2.6	1.6	0.09	0.012	0.03	< 0.02	0.28	0.05	< 0.02	0.52	27.4	13.9	28.2	3.5	12.8	2.3
272062	< 0.1	1.3	0.3	9.6	22	7.93	6.2	1.8	0.12	0.006	0.02	< 0.02	0.36	0.05	< 0.02	0.62	26.1	16.9	36.2	4.4	16	2.8
272063	< 0.1	1.7	0.2	8.1	14.3	3.38	3	2.3	0.28	0.07	0.03	< 0.02	0.33	0.05	< 0.02	0.95	30.5	8.7	17.2	2	7.05	1.3
272064	< 0.1	5.7	0.1	11.5	15.2	3.92	4.4	2.1	1.16	0.083	0.03	< 0.02	0.46	0.06	0.06	1.15	42.6	10.2	20.6	2.3	8.45	1.5
272065	< 0.1	5.7	0.5	7.9	19	5.19	3	1.8	1.21	0.095	0.01	< 0.02	0.34	0.09	0.07	0.76	32.6	12	30.8	2.8	10	1.7
272066	< 0.1	2.1	0.3	12.9	14.4	3.19	2.3	1.8	0.66	0.075	0.02	< 0.02	0.44	0.07	0.03	1.17	40	8.7	16.5	2	6.93	1.2
272067	< 0.1	2.5	0.2	8.9	12	3.12	3	2.1	0.93	0.102	0.02	< 0.02	0.4	0.06	0.03	0.87	32.8	9	17.2	2	7.27	1.3
272068	< 0.1	2.5	0.2	8	16.8	3.93	3.2	1.6	0.32	0.02	0.01	< 0.02	0.31	0.06	< 0.02	0.82	37.7	9.5	20.6	2.3	8.4	1.5
272069	< 0.1	3.6	0.5	12.5	15.6	4.05	3.7	2.3	0.44	0.016	0.02	< 0.02	0.44	0.07	< 0.02	0.94	40.3	11.9	24.7	2.7	9.55	1.6
272070	< 0.1	1.7	0.4	13.9	17.3	4.1	2.9	1.6	0.26	0.02	0.02	< 0.02	0.42	0.06	< 0.02	0.84	61.2	9.3	19.1	2.2	7.82	1.4
272071	< 0.1	1.3	0.2	10.1	12.1	3.34	3.1	1.2	0.21	0.015	< 0.01	< 0.02	0.29	0.05	< 0.02	0.69	30.3	7.8	17.7	1.9	6.77	1.2
272072	< 0.1	2.1	0.1	7.7	13.3	4.11	2.4	1.8	0.25	0.017	0.02	< 0.02	0.33	0.05	< 0.02	0.69	25.3	10.1	23.5	2.5	9.18	1.7
272073	< 0.1	2.3	0.2	9.6	15.5	4.61	2.5	1.9	0.29	0.019	0.03	< 0.02	0.34	0.06	< 0.02	0.76	32.6	10	22.6	2.4	8.79	1.6
272074	< 0.1	2.3	0.3	14.9	18.3	4.25	3.8	2.3	0.31	0.02	0.03	< 0.02	0.51	0.06	< 0.02	0.93	44.4	11.8	23.7	2.6	8.99	1.5
272075	< 0.1	1.8	0.2	9.5	13.6	3.5	2.7	2.1	0.27	0.036	0.01	< 0.02	0.36	0.05	0.02	0.78	39.1	8.5	17.6	1.9	6.73	1.2
272076	< 0.1	1.2	0.1	9.4	13.1	2.81	2.2	1.8	0.29	0.013	0.02	< 0.02	0.4	0.04	< 0.02	0.77	34.6	8.6	16.8	2	7.04	1.3
272077	< 0.1	2.5	0.1	8.2	14	3.7	2.7	1.7	0.06	< 0.002	0.04	< 0.02	0.34	0.04	< 0.02	0.72	28.2	10.6	23.6	2.4	8.79	1.5
272078	< 0.1	2.1	0.2	7.2	13.8	4.13	2	1.6	0.22	0.033	0.02	< 0.02	0.26	0.05	< 0.02	0.63	27.4	10.3	27.8	2.3	8.23	1.4
272079	< 0.1	2.1	0.2	5.5	14.3	4.35	2.3	1.7	0.19	0.009	0.02	< 0.02	0.28	0.04	< 0.02	0.71	23.8	10.4	27.1	2.5	8.99	1.6
272080	< 0.1	2.2	0.2	7.1	12.5	3.45	2.2	2	0.29	0.017	0.02	< 0.02	0.4	0.06	< 0.02	0.73	31.6	9.4	19.3	2.2	7.79	1.3
272081	< 0.1	2.6	0.2	6.9	15.8	4.77	3.5	2.1	0.25	0.01	0.01	< 0.02	0.37	0.05	0.03	0.74	30.9	9.9	21.7	2.3	8.54	1.5
272082	< 0.1	2	0.1	8.8	12.3	3.17	2.2	1.7	0.24	0.023	0.02	< 0.02	0.32	0.04	< 0.02	0.83	22.6	7.6	14.7	1.7	6.02	1.1
272083	< 0.1	2.3	0.2	7.1	12.7	3.62	2.2	1.7	0.27	0.016	0.03	< 0.02	0.3	0.04	< 0.02	0.9	35.5	9.7	20.1	2.2	7.73	1.4
272084	< 0.1	1.3	0.2	9	17	5.64	2.9	1.8	0.15	0.006	0.03	< 0.02	0.36	0.04	0.03	1.04	32.8	13.5	28.8	3.3	12.3	2.2
272085	< 0.1	1.8	0.1	8.2	11.3	2.76	4.6	2.1	0.29	< 0.002	0.02	< 0.02	0.38	0.06	< 0.02	0.56	16.8	7	14.7	1.7	5.85	1
272086	< 0.1	2.3	0.2	13.3	15.9	3.41	5.4	2.1	0.45	0.013	0.03	< 0.02	0.5	0.05	0.03	1.11	43.9	8.2	17.2	1.9	6.52	1.1
272087	< 0.1	1.8	0.2	12.6	15.7	3.72	4.6	1.6	0.24	0.015	0.03	< 0.02	0.39	0.04	< 0.02	0.86	42.6	9.2	19.6	2.1	7.37	1.3
272088	< 0.1	1.2	< 0.1	10.5	11.2	2.98	2.7	1.2	0.14	< 0.002	< 0.01	< 0.02	0.3	0.04	< 0.02	0.65	39.6	7.4	15.3	1.7	6.35	1.1
272089	< 0.1	2	0.3	8.7	14.9	3.46	2.6	1.5	0.25	0.032	0.03	< 0.02	0.37	0.06	0.03	1.12	50.7	8.5	16.9	1.9	6.98	1.2
272090	< 0.1	1.2	0.2	14.4	16	4.42	3.1	1.9	0.22	0.016	0.03	< 0.02	0.42	0.04	0.03	0.95	31.9	11.4	22.3	2.6	8.92	1.5

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272091	< 0.1	1.1	< 0.1	12.7	13.2	2.8	1.4	1.6	0.3	0.043	0.05	< 0.02	0.38	0.05	< 0.02	0.99	50.1	8.7	17.4	1.9	6.77	1.2
272092	< 0.1	1.9	0.1	9.1	12.4	3.12	1.5	2	0.28	0.022	0.03	< 0.02	0.49	0.06	< 0.02	0.93	34.6	8.3	16.5	1.9	6.99	1.2
272093	< 0.1	1.2	0.4	10.7	15.5	3.24	2	1.7	0.25	0.027	0.03	< 0.02	0.45	0.04	< 0.02	0.78	33	8.5	17	2	6.84	1.2
272094	< 0.1	2.3	0.2	7.2	14.6	4.44	1.8	1.7	0.2	0.037	0.03	< 0.02	0.31	0.05	< 0.02	0.68	40.1	11.6	24.1	2.7	9.25	1.6
272095	< 0.1	3	< 0.1	9.2	12.3	3.02	2.4	2	0.36	0.041	0.02	< 0.02	0.42	0.06	< 0.02	0.84	33.2	8.4	16.8	1.9	6.6	1.2
272096	< 0.1	5.7	< 0.1	12.3	16.4	3.74	2.9	2	1.08	0.076	0.02	< 0.02	0.47	0.05	< 0.02	0.8	42.9	9.9	21.2	2.2	7.76	1.3
272097	< 0.1	3	0.2	8.3	14.6	4.34	3.5	1.9	0.45	0.038	0.01	< 0.02	0.29	0.04	< 0.02	0.8	33.8	9.3	19.2	2.2	7.76	1.4
272098	< 0.1	2.6	< 0.1	7.5	11.8	3.12	2.3	1.9	0.43	0.037	0.02	< 0.02	0.37	0.05	< 0.02	0.76	33.9	7.7	15.8	1.7	6.18	1.1
272099	< 0.1	2.9	< 0.1	10.8	14.4	3.16	2.5	1.9	0.47	0.034	0.02	< 0.02	0.48	0.06	< 0.02	1.05	36.6	8.8	17.2	2.1	7.51	1.3
272100	< 0.1	2.7	0.1	8.8	15.7	3.4	3.8	2	0.32	0.025	0.02	< 0.02	0.34	0.05	< 0.02	0.82	40.6	7.4	17.9	1.8	6.22	1.1
272101	< 0.1	2.2	0.2	10.6	17.4	3.59	4.7	1.8	0.31	0.015	0.01	< 0.02	0.42	0.06	< 0.02	0.67	47.6	8.2	19.5	1.9	6.41	1.1
272102	< 0.1	1.8	0.2	5.5	14.9	4.66	5.1	1.7	0.2	< 0.002	0.01	< 0.02	0.36	0.05	< 0.02	0.44	23.8	12	27.7	2.8	9.89	1.8
282001	< 0.1	2.5	0.2	3.3	13.4	3.94	4.7	2	0.47	< 0.002	0.01	< 0.02	0.34	0.05	< 0.02	1.33	18.4	15.6	29.8	3.5	12	1.9
282002	< 0.1	2.2	0.4	8.6	17.2	3.85	4.4	2.9	1.43	< 0.002	0.04	< 0.02	0.66	0.08	< 0.02	3.13	51	11.5	21.7	2.5	8.84	1.5
282003	< 0.1	2.6	0.6	1.8	10.9	3.41	3.4	1.8	0.42	< 0.002	0.01	< 0.02	0.22	0.05	< 0.02	0.86	14.2	12.5	22.5	2.6	8.69	1.5
282004	< 0.1	4.6	0.4	3.3	13.5	3.81	4.7	2.6	0.91	< 0.002	0.04	< 0.02	0.34	0.07	0.02	1.44	21.4	12.7	23.5	2.6	9.1	1.6
282005	< 0.1	5.7	0.2	3.9	11.5	3.33	8.2	2.3	0.63	< 0.002	0.01	< 0.02	0.35	0.07	< 0.02	1.21	20.8	8.6	16.3	1.9	6.99	1.2
282006	< 0.1	2.7	0.5	2.3	12.6	5.25	4.2	1.8	0.59	< 0.002	< 0.01	< 0.02	0.31	0.06	0.02	0.83	14.4	15.3	29.4	3.3	11.6	1.9
282007	< 0.1	4.5	0.2	9.5	16.1	2.71	6.2	2.7	1.09	0.014	0.02	< 0.02	0.5	0.08	< 0.02	2.52	27.5	8.3	15.5	1.7	5.83	1
282008	< 0.1	1.8	< 0.1	12.4	14.8	2.52	4.6	2.4	0.87	0.083	0.02	< 0.02	0.54	0.05	< 0.02	2.33	32.5	7.8	14.1	1.6	5.77	1
282009	< 0.1	3	0.2	8.1	12.8	4	4.4	1.8	0.36	0.036	0.01	< 0.02	0.36	0.03	< 0.02	2.06	47.1	11	22.9	2.7	10	1.8
282010	< 0.1	2.9	0.1	5.3	19.6	4.45	5.3	2	0.46	0.005	0.02	< 0.02	0.36	0.07	0.02	1.33	17.8	8.7	17.9	2.1	7.79	1.3
282011	< 0.1	3.3	0.3	2.6	14.2	3.9	4.5	2.3	0.6	< 0.002	0.03	< 0.02	0.33	0.07	< 0.02	0.93	26	9.2	17	2	6.92	1.2
282012	< 0.1	2	0.2	2.6	16.6	4.5	4.7	1.7	0.39	< 0.002	< 0.01	< 0.02	0.3	0.03	< 0.02	0.72	13.7	18.2	28.5	3.4	11.7	1.9
282013	< 0.1	1.9	0.2	4.2	16.3	3.18	3.8	2	0.66	< 0.002	0.02	< 0.02	0.43	0.08	< 0.02	0.85	46.8	8.1	15.9	1.9	6.68	1.2
282014	< 0.1	1.8	< 0.1	6.2	18.7	6.7	3	1.2	0.22	0.006	0.01	< 0.02	0.27	0.04	< 0.02	0.67	27.1	13.6	27.6	3.5	12.9	2.3
282015	< 0.1	1.6	0.1	4.6	19.7	3.99	4.4	1.5	0.85	< 0.002	0.02	< 0.02	0.49	0.06	< 0.02	0.96	39	9.8	18.7	2.1	7.15	1.2
282016	< 0.1	2.8	< 0.1	6	11.2	1.8	11.1	1.7	0.37	< 0.002	0.03	< 0.02	0.4	0.17	< 0.02	1.54	50.3	3.7	6.93	0.8	2.8	0.5
282017	< 0.1	3.2	< 0.1	6	14.5	3.53	4.4	1.9	0.51	< 0.002	0.02	< 0.02	0.41	0.05	< 0.02	1.67	23.9	9.4	18.5	2.2	7.64	1.3
282018	< 0.1	2.8	0.2	8.1	18.3	3.96	6.1	1.9	0.45	< 0.002	0.02	< 0.02	0.47	0.05	< 0.02	1.66	28.7	8.6	17.9	2.1	7.02	1.3
282019	< 0.1	2.4	0.3	4.9	18.7	3.2	3.9	2.3	0.44	< 0.002	0.03	< 0.02	0.37	0.06	< 0.02	1.17	23.9	8.3	16.2	1.8	6.21	1.1
282020	< 0.1	6	0.3	3.4	15.7	5.23	7.5	2	1.09	0.056	< 0.01	< 0.02	0.41	0.07	0.02	0.95	21.8	14.1	26.1	3	10.5	1.7
282021	< 0.1	3.1	0.5	4	21.7	6.67	5.9	2.2	0.63	0.012	0.02	< 0.02	0.38	0.07	0.04	1.01	23.1	21.3	39.8	4.4	14.7	2.2
282022	< 0.1	3	0.4	4.3	15.8	2.9	4.5	2.3	0.9	0.005	0.07	< 0.02	0.47	0.09	< 0.02	2.02	33	9.6	17.7	2	6.67	1.1
282023	< 0.1	1.9	0.1	5	12	2.92	3.6	1.9	0.41	< 0.002	0.02	< 0.02	0.3	0.05	< 0.02	1.09	10.7	7.1	13.5	1.6	5.78	1
282024	< 0.1	1.3	< 0.1	7.2	15.1	3.14	4.7	1.9	0.38	< 0.002	0.01	< 0.02	0.44	0.06	< 0.02	0.67	16.1	7.4	14.7	1.7	6.23	1.1
282025	< 0.1	0.7	< 0.1	6.2	10.9	1.93	2	1	0.26	< 0.002	< 0.01	< 0.02	0.3	0.02	0.04	0.49	11.9	4.9	9.24	1.1	3.95	0.7
282026	< 0.1	1.7	0.5	6.9	15.2	3.74	3	2.2	0.35	0.007	0.03	< 0.02	0.37	0.06	< 0.02	0.8	28.8	8	15.4	1.8	6.41	1.1
282027	< 0.1	1.4	< 0.1	5.2	16.6	3.21	3.8	1.2	0.37	< 0.002	< 0.01	< 0.02	0.3	0.04	< 0.02	0.82	12.7	6.5	12.4	1.5	5.2	0.9
282028	< 0.1	1.6	0.2	4.4	16.9	3.87	5.8	1.3	0.37	< 0.002	< 0.01	< 0.02	0.34	0.04	< 0.02	0.67	20.5	8.1	16.2	1.9	6.9	1.2
282029	< 0.1	2	0.2	4.7	18.8	3.54	5	2.3	0.59	< 0.002	< 0.01	< 0.02	0.46	0.05	< 0.02	0.86	15.4	7.1	13.8	1.7	5.91	1
282030	< 0.1	1.2	0.3	9.5	12.7	4.37	4.1	1.8	0.63	< 0.002	0.03	< 0.02	0.54	0.09	< 0.02	1.68	34.6	8.8	16.1	1.9	6.32	1.1
282031	< 0.1	1.8	0.2	8.7	16.9	3.32	4.4	2.8	0.89	< 0.002	0.04	< 0.02	0.68	0.06	< 0.02	2.06	40	9.7	19.4	2.2	7.62	1.3
282032	< 0.1	1.9	0.2	7.9	7	3.79	7.7	1.6	1.05	< 0.002	0.04	< 0.02	0.68	0.16	< 0.02	1.53	57.3	4.5	8.34	1	3.44	0.7
282033	< 0.1	1.1	0.3	7.2	6.8	7.48	8.4	0.7	0.84	0.002	0.03	0.02	0.59	0.21	< 0.02	1.76	32.5	2.9	5.8	0.7	2.7	0.6

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282034	< 0.1	1.3	0.1	12.6	14.6	2.77	4.3	2.1	0.3	0.003	0.04	< 0.02	0.57	0.06	< 0.02	0.91	22.6	6.8	13.4	1.6	5.59	1
282035	< 0.1	1.4	< 0.1	10.2	12.6	3.27	2.9	2.2	0.27	0.02	0.05	< 0.02	0.52	0.06	< 0.02	1.07	24.8	10	19.8	2.3	8.16	1.3
282036	< 0.1	1.4	0.1	7.4	15.6	4.21	3.4	1.8	0.24	< 0.002	0.05	< 0.02	0.5	0.05	< 0.02	0.65	20.1	8.2	17.9	2.2	8.09	1.5
282037	< 0.1	1.1	0.2	7.7	11.7	3.35	3.5	1.8	0.19	< 0.002	0.02	< 0.02	0.41	0.04	< 0.02	0.58	12.1	7.1	14.6	1.7	6	1
282038	< 0.1	0.9	0.1	28.3	20.1	4.63	3.4	1.8	0.21	0.003	0.06	< 0.02	0.52	0.03	0.02	1.45	39	11.6	22.9	2.5	8.69	1.5
282039	< 0.1	1.6	0.1	6.4	14.8	4.21	3.1	1.6	0.18	< 0.002	0.04	< 0.02	0.34	0.04	< 0.02	0.71	33	10.5	22.2	2.4	8.36	1.5
282040	< 0.1	2.3	0.1	7.3	14.9	4.13	5	2.3	0.21	0.012	0.04	< 0.02	0.4	0.04	< 0.02	0.78	40	9.2	19.5	2.2	7.8	1.4
282041	< 0.1	3.5	0.2	11.1	16.1	3.3	5.8	2.9	0.5	< 0.002	0.05	< 0.02	0.57	0.08	< 0.02	0.88	23.5	7.5	15.2	1.7	5.93	1
282042	< 0.1	1	< 0.1	9.6	14.3	2.65	2.2	1.5	0.22	0.018	0.01	< 0.02	0.44	0.06	< 0.02	0.61	22.8	7.9	15.5	1.7	5.96	1
282043	< 0.1	1.4	< 0.1	11.2	13.4	3.26	2.8	2.1	0.27	0.022	0.02	< 0.02	0.48	0.05	< 0.02	1.02	27.9	8.7	16.5	1.9	6.6	1.2
282044	< 0.1	1.5	< 0.1	11.2	14.1	3.5	3.4	1.9	0.28	< 0.002	0.03	< 0.02	0.55	0.04	< 0.02	0.92	35.4	10.6	20.8	2.4	8.52	1.5
282045	< 0.1	1.3	0.1	13.6	13.9	2.76	2.8	1.6	0.26	0.019	0.01	< 0.02	0.42	0.05	< 0.02	0.7	16.6	7.1	13.9	1.6	5.61	1
282046	< 0.1	2	< 0.1	10.9	14.5	3.41	3.3	1.8	0.18	0.009	0.01	< 0.02	0.36	0.05	< 0.02	0.65	22.6	8.5	17.4	1.8	6.38	1.1
282047	< 0.1	1	< 0.1	7.6	12.9	3.05	2.2	1.6	0.17	0.014	0.01	< 0.02	0.41	0.04	< 0.02	0.67	16.8	8.5	17	1.9	6.95	1.2
282048	< 0.1	2	0.1	8.6	16.1	4.5	2.5	1.8	0.2	0.008	0.02	< 0.02	0.46	0.05	< 0.02	0.68	27.9	9.9	20.4	2.3	8.36	1.4
282049	< 0.1	1.4	0.1	14.2	17.4	4.26	2.2	1.5	0.18	0.014	0.03	< 0.02	0.44	0.05	< 0.02	0.81	52.6	9.6	19.3	2.2	7.57	1.3
282050	< 0.1	0.5	< 0.1	15.6	15.2	3.14	2.2	1.4	0.17	0.022	0.03	< 0.02	0.43	0.03	< 0.02	0.81	29.2	7.9	15.1	1.8	6.09	1.1
282051	< 0.1	4	0.1	11.2	13.6	3.19	2.5	1.4	0.93	0.099	0.03	< 0.02	0.46	0.04	< 0.02	0.81	34.7	8.4	16.2	1.9	6.92	1.2
282052	< 0.1	1.7	< 0.1	7.7	17.5	3.63	3.3	1.4	0.37	0.027	0.02	< 0.02	0.47	0.04	< 0.02	0.56	29.1	8.2	16.3	1.9	6.77	1.2
282053	< 0.1	1.4	< 0.1	8.9	16.2	3.27	2.8	1.7	0.38	0.039	0.02	< 0.02	0.44	0.05	< 0.02	0.83	29.9	8.9	16.9	1.9	6.58	1.1
282054	< 0.1	1.8	0.2	6	14.2	6.28	3	1.4	0.18	0.014	0.01	< 0.02	0.27	0.03	< 0.02	0.61	24.2	20.4	42.8	4.4	14.9	2.4
282055	< 0.1	1.6	< 0.1	4.4	10.3	1.75	3	1.4	0.31	< 0.002	0.01	< 0.02	0.48	0.05	< 0.02	0.45	23	6.1	11.8	1.4	4.77	0.8
282056	< 0.1	2.8	0.1	5.5	13.3	2.58	4.3	2.3	0.37	0.002	0.01	< 0.02	0.6	0.06	< 0.02	0.42	19.2	8.6	17.1	1.9	6.49	1
282057	< 0.1	1.5	0.1	9.3	15.5	3.23	3.1	1.8	0.25	0.021	< 0.01	< 0.02	0.46	0.04	< 0.02	0.62	26.7	9	18.5	2	6.85	1.2
282058	< 0.1	1.5	< 0.1	10	12.7	3.22	2.5	1.8	0.22	0.013	0.01	< 0.02	0.38	0.04	< 0.02	0.68	24	8.4	16.7	1.8	6.34	1.1
282059	< 0.1	1.1	< 0.1	10.2	15.8	3.78	2.8	1.6	0.17	0.007	< 0.01	< 0.02	0.43	0.04	< 0.02	0.6	28.1	10.3	20.7	2.3	8.01	1.4
282060	< 0.1	1.9	0.1	13.3	17.4	3.63	2.6	1.9	0.22	0.015	0.05	< 0.02	0.39	0.04	< 0.02	0.88	47	8.7	16.9	2	6.71	1.2
282061	< 0.1	1	< 0.1	8.9	15.8	3.03	1.7	1.6	0.19	0.004	0.03	< 0.02	0.43	0.04	< 0.02	0.6	50.9	8.9	16.7	1.9	6.69	1.2
282062	< 0.1	2.3	< 0.1	11.4	16	3.91	1.9	1.6	0.17	0.007	0.02	< 0.02	0.35	0.05	0.03	0.94	43.2	8.9	18.3	2	7.39	1.4
282063	< 0.1	1.3	< 0.1	14.2	15.8	3.27	1.8	1.5	0.2	0.021	0.03	< 0.02	0.44	0.04	< 0.02	0.82	31.8	9	17.4	2	7.16	1.2
282064	< 0.1	1.6	< 0.1	9.1	15.6	4.65	1.6	1.6	0.18	0.021	0.04	< 0.02	0.36	0.04	< 0.02	0.55	26	11.5	23.7	2.6	9.06	1.5
282065	< 0.1	1.6	< 0.1	10.9	14.7	3.33	1.9	1.6	0.2	0.035	0.02	< 0.02	0.41	0.04	< 0.02	0.79	40.8	8.9	17.4	1.9	6.47	1.1
282066	< 0.1	1.8	< 0.1	9.2	11.9	2.71	1.3	1.5	0.22	0.035	0.03	< 0.02	0.39	0.05	< 0.02	0.79	27.2	7	14.2	1.5	5.47	1
282067	< 0.1	2.5	0.2	9.4	16.3	4.08	3.2	2.1	0.27	0.013	0.02	< 0.02	0.47	0.06	< 0.02	0.79	31.9	9.6	19.2	2.2	7.86	1.4
282068	< 0.1	2.3	0.1	13.7	16.3	3.57	1.3	1.4	0.22	0.011	0.03	< 0.02	0.4	0.04	< 0.02	0.72	54.5	8.7	18.3	1.9	6.75	1.1
282069	< 0.1	2	0.1	8.9	14.6	3.37	2.4	1.6	0.19	0.019	0.02	< 0.02	0.36	0.04	< 0.02	0.58	26.8	8.4	17.4	1.8	6.36	1.1
282070	< 0.1	1.2	< 0.1	6.7	13	2.79	2.3	1.5	0.15	< 0.002	0.01	< 0.02	0.39	0.05	< 0.02	0.47	23.4	7.5	14.6	1.7	5.95	1.1
282071	< 0.1	2.4	0.2	5.9	15.9	4.57	3.2	2.3	0.26	0.047	0.01	< 0.02	0.39	0.04	< 0.02	0.69	18.3	10.9	22.3	2.4	8.55	1.5
282072	< 0.1	2.9	< 0.1	12.3	14.4	3.25	3.4	1.9	0.28	0.025	0.02	< 0.02	0.46	0.04	< 0.02	0.76	23.5	7.8	15.2	1.7	5.86	1
282073	< 0.1	1.8	0.2	5.8	13.7	2.91	2.8	2	0.1	< 0.002	0.03	< 0.02	0.5	0.04	< 0.02	0.68	27.9	10.4	20.5	2.3	8.06	1.4
282074	< 0.1	2.3	0.1	8.2	16.7	3.75	3	2	0.35	0.011	0.03	< 0.02	0.41	0.05	< 0.02	0.91	40.1	8.5	17.6	2	7.08	1.2
282075	< 0.1	1.1	< 0.1	8	14.2	2.82	2.9	1.4	0.17	0.01	0.01	< 0.02	0.4	0.03	< 0.02	0.57	23.3	7.1	13.9	1.6	5.51	0.9
282076	< 0.1	1.1	< 0.1	8.9	14	2.99	3	1.5	0.16	0.002	< 0.01	< 0.02	0.37	0.03	< 0.02	0.49	18.7	8.1	17.5	1.8	5.97	1
282077	< 0.1	1.5	< 0.1	8.2	13.5	2.87	2.3	1.9	0.28	0.03	0.01	< 0.02	0.39	0.04	< 0.02	0.8	31.3	7.9	15.3	1.7	6.07	1.1
282078	< 0.1	2.3	< 0.1	7.9	14	4.36	2.7	2	0.26	0.011	0.03	< 0.02	0.44	0.05	< 0.02	0.73	33.5	11.8	24.4	2.6	9.4	1.6

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282079	< 0.1	2.8	0.3	10	16.9	4.65	3.3	1.8	0.27	0.004	0.02	< 0.02	0.41	0.04	< 0.02	0.75	30.4	9.7	20.2	2.3	8.18	1.5
282080	< 0.1	3	< 0.1	15.4	21.4	3.6	3.7	1.3	0.26	0.036	0.02	< 0.02	0.41	0.05	0.03	0.88	32.7	6.7	14.2	1.5	5.08	0.9
282081	< 0.1	3.1	0.1	8.8	13.5	3.82	2.4	1.6	0.19	0.034	0.01	< 0.02	0.31	0.05	< 0.02	0.68	28.6	9.7	22.5	2.2	7.56	1.3
282082	< 0.1	0.9	< 0.1	10.5	13.1	3.19	2.4	1.8	0.23	0.009	0.02	< 0.02	0.49	0.05	< 0.02	0.87	25.8	10.6	20.2	2.4	8.22	1.5
282083	< 0.1	4.5	0.1	11.2	16.5	3.91	3.1	2.2	1.01	0.118	0.02	< 0.02	0.48	0.04	< 0.02	0.8	27.3	10.7	20.7	2.3	7.92	1.3
282084	< 0.1	7.3	0.2	8.4	13.4	3.08	2.8	2	1.12	0.071	0.02	< 0.02	0.47	0.09	0.08	0.78	32.9	9.5	18.1	2	7.29	1.3
282085	< 0.1	4.4	0.3	8.5	13.2	2.92	4.6	2.1	0.62	0.066	0.03	< 0.02	0.43	0.09	0.02	0.9	36.1	8.8	18.1	1.9	6.81	1.2
282086	< 0.1	3.2	0.4	11.4	16.5	4.09	4.9	2.1	0.48	0.023	0.04	< 0.02	0.43	0.08	0.03	1.04	44.4	9.8	19.9	2.2	7.52	1.3
282087	< 0.1	1.6	< 0.1	6.4	14.8	4.46	5.7	1.4	0.23	0.006	0.03	< 0.02	0.27	0.06	< 0.02	0.55	29.3	9.8	25.7	2.2	7.55	1.4
282088	< 0.1	2.6	0.4	7.9	18.2	5.61	2.5	1.6	0.23	0.008	0.03	< 0.02	0.37	0.06	0.02	0.88	53.3	12.6	27.3	2.8	9.97	1.8
282089	< 0.1	2.3	< 0.1	9	13.8	3.1	1.8	1.5	0.34	0.015	0.01	< 0.02	0.44	0.07	< 0.02	0.58	33.1	9.2	17.8	2.1	7.34	1.3
292001	< 0.1	3.9	0.2	5.4	18.8	5.26	7.9	1.7	0.4	< 0.002	0.02	< 0.02	0.35	0.05	< 0.02	1.43	24.9	9.4	18.5	2.2	7.81	1.4
292002	< 0.1	2.2	0.1	6.6	17.8	3.1	4.8	1.9	0.8	0.013	0.03	< 0.02	0.56	0.05	< 0.02	2.49	26.1	9.5	18.4	2.1	6.91	1.2
292003	< 0.1	6.5	0.2	6.7	11.3	2.99	7.2	2.2	0.8	0.007	0.02	< 0.02	0.42	0.07	< 0.02	1.93	33.2	6.9	13.3	1.5	5.32	1
292004	< 0.1	6.6	0.6	5.2	15	4.73	8.6	2.8	0.91	< 0.002	0.03	< 0.02	0.45	0.08	< 0.02	1.83	39.3	17.1	31.5	3.5	12.1	2.1
292005	< 0.1	3.1	0.4	3.1	17	3.47	3	2	0.88	< 0.002	0.05	< 0.02	0.42	0.08	< 0.02	1.02	27.5	9.7	18.9	2.1	7.42	1.2
292006	< 0.1	1.9	0.3	9.8	15.6	4.48	4.8	2.1	0.34	< 0.002	0.02	< 0.02	0.39	0.05	< 0.02	1.22	29.3	11.6	23.2	2.6	8.86	1.5
292007	< 0.1	1.7	< 0.1	8.6	16.9	4.86	5.6	1.2	0.23	0.005	< 0.01	< 0.02	0.39	0.03	< 0.02	1.13	34.9	13.8	28.7	3.1	11.3	2
292008	< 0.1	2.4	0.2	8.7	15.6	2.64	4	2	0.62	< 0.002	0.03	< 0.02	0.41	0.08	< 0.02	1.31	22.2	5.7	11.3	1.3	4.6	0.8
292009	< 0.1	2.3	0.2	8.5	34.4	3.73	5.2	2	0.74	< 0.002	0.04	< 0.02	0.56	0.08	< 0.02	1.08	29.3	8.3	16.1	1.8	6.3	1.1
292010	< 0.1	11.9	0.4	5.2	10.3	3.36	6.5	2.4	0.79	< 0.002	0.03	< 0.02	0.4	0.17	< 0.02	1.36	35.5	9.7	18.4	1.9	6.7	1.2
292011	< 0.1	3.8	0.2	4.3	14	3.21	5	1.8	0.79	< 0.002	0.02	< 0.02	0.73	0.1	< 0.02	1.36	35.1	9	16.8	1.9	6.72	1.2
292012	< 0.1	2.7	0.6	4.6	14.1	4.61	5.2	2.4	0.94	< 0.002	0.02	< 0.02	0.46	0.1	< 0.02	1.18	27.2	15.9	30.1	3.4	11.8	1.9
292013	< 0.1	6.8	0.3	5.2	13.4	3.83	5.3	2.6	0.88	< 0.002	0.04	< 0.02	0.55	0.12	< 0.02	1.67	39.7	8.9	17.1	1.9	6.77	1.2
292014	< 0.1	3	0.2	5	19.9	6.01	6.9	1.9	0.49	< 0.002	0.01	< 0.02	0.32	0.05	0.02	1.5	42	16.9	31.5	3.6	12.9	2.2
292015	< 0.1	7.5	0.1	3.6	13.4	2.49	7.1	2.3	0.83	< 0.002	0.02	< 0.02	0.55	0.09	< 0.02	1.29	30.9	6.8	12.7	1.4	4.93	0.9
292016	0.1	1.9	0.4	6.9	24.1	8.05	3	1.9	0.21	0.002	0.02	< 0.02	0.37	0.04	< 0.02	1.1	45.1	14.9	31	4	15.2	2.7
292017	< 0.1	1.8	< 0.1	8.6	18.8	4.18	5.7	1.9	0.49	< 0.002	< 0.01	< 0.02	0.5	0.05	< 0.02	1.14	38.3	10.6	21.4	2.4	8.48	1.5
292018	< 0.1	2.4	0.1	11.4	15.7	2.57	5	1.9	0.68	0.005	0.03	< 0.02	0.46	0.06	< 0.02	1.56	34.3	6.5	13.1	1.4	4.91	0.8
292019	< 0.1	2.9	< 0.1	7.5	12.8	2.31	5.2	3	0.83	< 0.002	0.02	< 0.02	0.66	0.12	< 0.02	1.58	20.3	9.7	19.5	2.1	7.35	1.3
292020	< 0.1	2.1	0.2	5.3	13.8	3.82	6.9	2.3	0.38	< 0.002	0.03	< 0.02	0.35	0.06	< 0.02	1.08	25.6	8.9	18.7	2.1	7.65	1.4
292021	< 0.1	1.6	0.2	8.1	19.5	5.11	3.2	1.8	0.36	0.004	0.04	< 0.02	0.44	0.1	< 0.02	1.74	45.3	16	30.5	3.4	11.6	1.9
292022	< 0.1	1.8	0.2	9.8	17.9	3.95	5.7	0.9	0.27	< 0.002	0.03	< 0.02	0.34	0.04	< 0.02	1.46	59	10.4	20.7	2.2	7.88	1.4
292023	< 0.1	1.5	0.2	5.6	13.6	3.01	4.2	2	0.32	< 0.002	0.03	< 0.02	0.43	0.04	< 0.02	0.91	24.1	8.8	17.6	2	7.54	1.3
292024	< 0.1	1.3	< 0.1	3.6	17	5.5	3.8	1.9	0.14	< 0.002	< 0.01	< 0.02	0.3	0.03	< 0.02	0.64	21.3	11.4	25.1	3	10.9	2
292025	< 0.1	1.9	0.2	7.3	14.8	3.47	5.2	1.6	0.44	< 0.002	0.26	< 0.02	0.43	0.06	< 0.02	1.1	38.7	8.5	17	1.9	6.59	1.1
292026	< 0.1	5.2	0.1	5	11.5	3.17	4.7	1.8	1.07	0.069	0.04	< 0.02	0.34	0.05	0.02	1.03	33	7.8	16	1.8	6.58	1.2
292027	< 0.1	2.8	0.2	5.2	14.8	2.83	5.2	3.1	0.79	0.002	0.05	< 0.02	0.58	0.07	0.04	1.28	37	6.8	13.5	1.6	5.8	1.1
292028	< 0.1	1.8	0.5	4	14.2	4.68	3.5	2	0.33	< 0.002	0.02	< 0.02	0.3	0.04	< 0.02	1.08	24.2	12.2	24.2	2.8	10.1	1.7
292029	< 0.1	1.2	0.1	3.5	15.9	5.38	4.3	1.2	0.2	< 0.002	< 0.01	< 0.02	0.3	0.04	< 0.02	1.04	31.3	13.6	27.8	3.3	11.6	2
292030	< 0.1	1.5	0.2	8.8	13.4	3.32	4.4	2.2	0.5	< 0.002	0.02	< 0.02	0.41	0.04	< 0.02	2.22	37.4	8.5	16.9	1.9	6.96	1.3
292031	< 0.1	1.7	0.1	5.7	11.4	2.53	3.6	2.1	0.53	< 0.002	0.04	< 0.02	0.47	0.06	< 0.02	0.99	24.8	6.9	15	1.6	5.9	1
292032	< 0.1	1.6	0.3	6.3	14.3	3.71	4.5	1.9	0.44	< 0.002	0.04	< 0.02	0.43	0.04	< 0.02	1.14	30.2	9.6	20.1	2.3	8.12	1.4
292033	< 0.1	1.5	0.3	6	13.5	3.31	3.8	1.3	0.34	< 0.002	0.03	< 0.02	0.33	0.03	< 0.02	1.16	28.5	8	16.4	1.9	6.58	1.1
292034	< 0.1	2.6	< 0.1	4.6	8	2.67	4.3	1.1	0.81	< 0.002	0.05	< 0.02	0.52	0.1	< 0.02	2.35	33.8	5.1	9.85	1.1	4.1	0.7

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292035	< 0.1	2.6	0.6	4.5	7.9	6.2	8.2	2.4	1.12	0.008	0.05	0.02	0.85	0.23	0.02	1.5	35	6.3	13.3	1.7	6.46	1.4
292036	< 0.1	1.6	0.4	2.5	16.9	4.99	9.5	1.5	0.3	< 0.002	< 0.01	< 0.02	0.32	0.05	< 0.02	0.66	22.4	13.7	25.7	3.1	11.2	1.9
292037	0.3	1.3	0.4	10	72.8	7.69	16.4	1.3	0.7	0.017	0.06	0.03	0.49	0.06	< 0.02	3.46	139	41.8	87.4	12.5	47.8	7.2
292038	< 0.1	3.1	0.3	9.3	17.6	4.57	7	1.6	0.67	< 0.002	0.03	< 0.02	0.54	0.08	< 0.02	1.86	53.4	14.3	28.1	3.1	10.9	1.9
292039	< 0.1	2.9	< 0.1	7.5	24.3	4.48	7.3	2	0.7	< 0.002	0.03	< 0.02	0.63	0.07	< 0.02	1.25	53.3	10.7	21.9	2.5	9.13	1.5
292040	< 0.1	2.2	0.4	7.5	15.2	4.33	8.1	1.9	0.52	< 0.002	0.04	< 0.02	0.64	0.06	< 0.02	2.19	46.2	10.8	21.8	2.6	8.93	1.6
292041	< 0.1	1.7	0.2	3.4	12	2.53	4.7	2.3	0.34	< 0.002	0.02	< 0.02	0.48	0.06	< 0.02	1.43	23	8.2	16.4	1.8	6.21	1
292042	< 0.1	1.7	< 0.1	10.4	15.4	5.07	2.2	1.1	0.18	0.004	0.06	< 0.02	0.35	0.03	< 0.02	1.02	46.2	14	29.9	3.3	12.1	2.1
292043	< 0.1	1.6	< 0.1	7.3	15.6	4.57	3.6	1.8	0.2	< 0.002	0.03	< 0.02	0.42	0.03	< 0.02	0.75	48.4	11.9	25.5	3	11	1.9
292044	< 0.1	2.8	0.3	7.9	16.3	5.22	4.8	1.9	0.31	0.004	0.04	< 0.02	0.42	0.06	< 0.02	0.8	34.3	13	35.5	3.1	11.1	1.9
292045	< 0.1	2.5	< 0.1	9	13	3.02	4.5	1.9	0.34	0.023	0.02	< 0.02	0.43	0.05	< 0.02	0.86	38.5	8.3	17.6	1.9	6.63	1.1
292046	< 0.1	1.6	0.1	10.4	10.2	2.14	2.9	2.3	0.37	0.038	0.03	< 0.02	0.52	0.05	< 0.02	0.88	31.9	10	19.7	2.1	7.31	1.2
292047	< 0.1	0.6	< 0.1	5.7	9.1	1.95	2.4	1.5	0.19	0.018	< 0.01	< 0.02	0.39	0.03	< 0.02	0.47	19.7	7.4	14.9	1.7	6.01	1
292048	< 0.1	1.6	0.2	6.5	16.2	4.91	3.7	2	0.18	0.011	0.01	< 0.02	0.35	0.04	< 0.02	0.52	29.9	10.8	24.7	2.7	9.84	1.7
292049	< 0.1	1.5	0.1	7.4	12.2	2.8	2.6	1.7	0.24	0.02	< 0.01	< 0.02	0.37	0.04	< 0.02	0.73	44.3	8.4	18.1	1.9	6.77	1.2
292050	< 0.1	1.7	0.2	8.5	12.3	3.08	3.8	1.7	0.2	< 0.002	0.01	< 0.02	0.37	0.04	< 0.02	0.81	40.6	7.7	18.8	1.9	7.01	1.2
292051	< 0.1	2.3	0.2	10.8	15.3	4.11	4.6	2.1	0.25	0.003	0.02	< 0.02	0.41	0.05	< 0.02	0.87	48.2	9.6	24.5	2.4	8.65	1.5
292052	< 0.1	4.4	0.2	12	13.6	2.73	2.3	1.5	0.91	0.093	0.02	< 0.02	0.42	0.08	0.04	0.72	26.7	8.8	19.3	2	7.13	1.1
292053	< 0.1	2	0.3	8.9	11.6	2.97	2.5	1.5	0.4	0.055	0.03	< 0.02	0.36	0.07	< 0.02	0.94	49.8	9.1	17.9	2.1	7.57	1.3
292054	< 0.1	2	0.2	7.8	13.2	3.74	1.9	1.6	0.32	0.033	0.03	< 0.02	0.38	0.05	< 0.02	0.78	32.6	10.7	22.3	2.6	9.67	1.7
292055	< 0.1	2.4	0.3	8.6	14.7	4.47	2.8	2	0.38	0.058	0.03	< 0.02	0.43	0.06	< 0.02	0.87	41.6	12.5	27.1	3.2	11.6	2
292056	< 0.1	2.9	0.3	8	13.7	3.8	2.1	1.6	0.33	0.032	0.03	< 0.02	0.39	0.06	0.03	0.88	43.4	11.2	25.2	2.7	9.78	1.6
292057	< 0.1	2.7	0.2	7.7	13.8	3.59	3	1.7	0.3	0.048	0.02	< 0.02	0.34	0.06	< 0.02	0.72	41.7	10.6	23.5	2.4	8.68	1.5
292058	< 0.1	3.9	0.2	6.3	12	3.82	3.7	2.2	0.34	0.043	0.03	< 0.02	0.4	0.07	< 0.02	0.73	39.8	12.1	26.1	2.9	10.5	1.8
292059	< 0.1	2.9	0.2	6	13.1	3.54	3.2	2.1	0.3	0.036	0.02	< 0.02	0.4	0.06	< 0.02	0.69	39.4	10.9	23.8	2.7	9.64	1.6
292060	< 0.1	2.5	0.2	5.9	9.5	2.59	2.8	1.5	0.23	0.024	0.01	< 0.02	0.29	0.06	< 0.02	0.58	26.4	6.6	13.7	1.5	5.46	1
292061	< 0.1	2.4	< 0.1	10	11.6	2.35	3.8	2.2	0.38	0.032	0.03	< 0.02	0.5	0.05	< 0.02	0.96	34.3	8.4	16.3	1.9	6.41	1.1
292062	< 0.1	1.8	< 0.1	3.8	7.4	2.1	2.3	1.3	0.2	0.017	< 0.01	< 0.02	0.25	0.03	< 0.02	0.45	18.7	5.8	11.5	1.3	4.94	0.9
292063	< 0.1	3.1	< 0.1	6.6	11	3.03	2.8	1.7	0.3	0.013	0.02	< 0.02	0.41	0.06	< 0.02	0.58	24	9.4	19.9	2.4	8.75	1.5
292064	< 0.1	2.8	< 0.1	8.7	13.2	3.17	2.1	1.5	0.32	0.045	0.03	< 0.02	0.46	0.06	< 0.02	0.85	33.3	10.1	20.6	2.3	8.14	1.3
292065	< 0.1	4.4	0.1	6.6	13	4.4	2.9	1.5	0.34	0.017	0.02	< 0.02	0.43	0.05	< 0.02	0.8	50.1	11.5	24	2.7	9.84	1.8
292066	< 0.1	2.3	< 0.1	5.7	13.4	4.16	4.4	1.9	0.29	0.023	0.06	< 0.02	0.44	0.05	0.04	0.88	32.6	12.2	33.4	2.9	10.6	1.9
292067	< 0.1	2.2	0.2	8.4	17.3	4.6	7.8	2.3	0.25	0.017	0.03	< 0.02	0.45	0.05	< 0.02	0.87	43.8	11.5	26.7	2.9	10.3	1.8
292068	< 0.1	1.5	0.1	12.5	14.3	3.04	4.6	1.7	0.24	0.017	0.01	< 0.02	0.49	0.05	< 0.02	0.82	44.5	10.3	21.8	2.4	8.35	1.3
292069	< 0.1	2	0.1	8.9	12.7	3.71	3.2	1.9	0.26	0.03	0.01	< 0.02	0.4	0.04	< 0.02	0.92	45.6	10.8	22.8	2.5	9.15	1.6
292070	< 0.1	0.6	< 0.1	12.5	11.1	2.02	0.7	1.1	0.3	0.013	0.01	< 0.02	0.36	0.04	< 0.02	0.78	31.4	8.4	16.9	2	7.1	1.2
292071	< 0.1	2	0.1	7.3	14.3	3.85	2.5	1.7	0.2	0.009	0.03	< 0.02	0.35	0.04	< 0.02	0.74	36.2	11	23.2	2.7	9.96	1.7
292072	< 0.1	1.2	< 0.1	10.4	16.1	4.28	2.9	1.7	0.22	0.012	0.03	< 0.02	0.44	0.04	< 0.02	0.75	48.1	11	24.6	2.7	9.67	1.7
292073	< 0.1	1.3	0.2	7.1	12.8	3.46	2.2	1.7	0.25	0.041	0.03	< 0.02	0.36	0.05	< 0.02	0.94	40.7	11.1	22.5	2.4	8.58	1.5
292074	< 0.1	1.3	< 0.1	7	10.7	2.84	2.1	1.7	0.25	0.023	0.02	< 0.02	0.39	0.04	< 0.02	0.7	31	8.3	16.7	1.9	6.96	1.2
292075	< 0.1	1.7	0.2	6.7	12.1	2.75	2.2	2.3	0.36	0.058	0.05	< 0.02	0.46	0.05	< 0.02	0.95	36.1	9.3	17.9	2.2	7.85	1.4
292076	< 0.1	1.5	0.2	6.7	12.6	3.21	2.4	1.8	0.23	0.038	0.04	< 0.02	0.38	0.03	< 0.02	0.84	29.4	8.9	17.3	2.1	7.44	1.3
292077	< 0.1	1.6	0.2	8.2	15.1	3.37	2.2	1.9	0.22	0.046	0.03	< 0.02	0.5	0.04	< 0.02	0.76	36.8	10.3	20.5	2.4	8.31	1.4
292078	< 0.1	1.8	< 0.1	7.3	11.5	2.94	2.8	1.8	0.27	0.021	0.03	< 0.02	0.41	0.04	< 0.02	0.68	25.1	8.8	17.4	2.1	7.53	1.3
292079	< 0.1	1.6	0.3	8.3	11.7	2.67	1.7	1.4	0.25	0.02	0.02	< 0.02	0.44	0.04	< 0.02	0.51	18.8	8.4	17.6	2	7.06	1.2

	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292080	< 0.1	2.4	0.1	8.7	12.6	2.88	2	1.3	0.23	0.025	0.01	< 0.02	0.38	0.05	< 0.02	0.69	27.5	8.6	22.2	2	7.08	1.2
292081	< 0.1	2	< 0.1	6.3	14	4	3.3	1.7	0.22	0.015	0.01	< 0.02	0.34	0.04	< 0.02	0.62	27.5	10.9	25.4	2.5	9.11	1.6
292082	< 0.1	3.5	< 0.1	10.7	12.3	2.8	3.2	1.9	0.4	0.051	0.03	< 0.02	0.4	0.07	< 0.02	1.1	45.7	8.3	17.6	1.9	6.98	1.2
292083	< 0.1	6	0.1	9.4	13.8	2.83	4.3	1.9	1.33	0.111	0.02	< 0.02	0.5	0.06	0.05	0.95	31.6	6.9	14.5	1.6	5.8	1
292084	< 0.1	2.5	0.1	8.3	11.9	3.06	3.2	1.1	0.51	0.046	0.02	< 0.02	0.43	0.04	0.03	0.84	54.9	7.8	16.2	1.6	5.76	1
292085	< 0.1	2	< 0.1	6.2	10.7	2.23	3.4	1.7	0.47	0.026	0.01	< 0.02	0.51	0.05	< 0.02	0.75	26.2	7.4	15.3	1.7	6.2	1.1
292086	< 0.1	1.8	0.1	4.8	13.9	3.79	4.1	1.8	0.27	0.003	0.03	< 0.02	0.34	0.04	< 0.02	0.62	22.3	9	20.4	2.3	8.51	1.5
292087	< 0.1	1.1	0.2	4.1	13.9	3.37	3	0.9	0.14	< 0.002	< 0.01	< 0.02	0.21	0.02	< 0.02	0.51	19.9	9.9	21.7	2.2	7.87	1.2
292088	< 0.1	1.1	< 0.1	17.1	15	4.19	3	1.4	0.2	0.01	0.01	< 0.02	0.39	0.03	< 0.02	0.82	35.5	11.6	25.7	2.7	9.4	1.6
292089	< 0.1	1.8	0.2	8.8	12.2	3.45	2.8	1.6	0.17	0.02	0.02	< 0.02	0.35	0.04	< 0.02	0.74	44.4	10.5	21.8	2.4	8.58	1.5
292090	< 0.1	3.8	< 0.1	8.7	12	3.17	0.9	1	0.27	0.02	0.04	< 0.02	0.42	0.05	< 0.02	0.75	50.4	9.6	19.7	2.4	8.69	1.5
292091	< 0.1	2.7	< 0.1	10.3	15.7	4.19	3	1.8	0.27	0.016	0.03	< 0.02	0.44	0.05	< 0.02	0.89	40.5	12	25.1	2.9	10.1	1.7
292092	< 0.1	1.7	0.2	10.2	13.7	3.47	3.7	1.7	0.22	0.008	0.01	< 0.02	0.38	0.04	< 0.02	0.82	48.5	10	22.1	2.3	8.1	1.4
292093	< 0.1	1.7	< 0.1	9.4	11.3	2.48	3.2	2	0.3	0.018	0.01	< 0.02	0.45	0.04	< 0.02	0.78	24.8	8.3	17.1	1.9	7.01	1.2
292094	< 0.1	2.6	< 0.1	6.9	12.9	3.25	3.6	2.2	0.26	0.031	0.02	< 0.02	0.44	0.04	< 0.02	0.68	27.5	9	18.9	2.2	7.89	1.3
292095	< 0.1	3.3	0.2	6.9	15	4.49	3.9	1.7	0.21	0.033	0.02	< 0.02	0.38	0.07	< 0.02	0.61	30	10.5	27	2.5	8.85	1.5
292096	< 0.1	2.9	< 0.1	9.6	12.8	3.3	3.7	1.5	0.26	0.012	0.02	< 0.02	0.4	0.04	< 0.02	0.89	42.7	9.7	20.8	2.3	8	1.4
292097	< 0.1	3.8	< 0.1	4.6	11.2	3.06	3.5	1.7	0.31	0.01	0.02	< 0.02	0.36	0.06	< 0.02	0.56	23.3	10.5	21.9	2.4	8.75	1.5
292098	< 0.1	2	< 0.1	9.5	12.8	3.04	5.5	2.3	0.37	0.019	0.02	< 0.02	0.56	0.04	< 0.02	0.87	30.5	9.3	19	2.3	8.28	1.4
292099	< 0.1	2.1	0.2	6.7	14.7	4.12	6.4	2.6	0.25	0.005	0.03	< 0.02	0.42	0.05	< 0.02	0.75	31.1	9.8	22.4	2.4	8.33	1.4
292100	< 0.1	1.2	< 0.1	6.8	16.2	4.61	3.4	1.6	0.16	0.006	0.03	< 0.02	0.36	0.02	< 0.02	0.77	33.9	11.3	23.9	2.8	9.87	1.7
292101	< 0.1	1.1	0.1	5.9	16.3	4.16	2.9	1.5	0.15	< 0.002	0.03	< 0.02	0.34	< 0.02	< 0.02	0.75	31.1	12.4	25.5	2.9	10.5	1.9

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272001	0.2	0.9	0.1	0.582	< 0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.05	0.2	< 0.001	< 5	0.09	8.03	5.3	0.5
272002	0.3	1.2	0.1	0.771	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.3	0.001	< 5	0.07	5.12	3.4	0.4
272003	0.3	1.2	0.1	0.781	0.1	0.4	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	0.001	< 5	0.07	6.36	3.8	0.5
272004	0.2	0.8	0.1	0.58	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.07	5.78	3.6	0.4
272005	0.4	1.5	0.2	1.05	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	3.92	3.6	0.7
272006	0.2	0.9	0.1	0.497	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.27	2.7	0.4
272007	0.3	1	0.1	0.704	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	5.17	3.7	0.4
272008	0.2	0.8	0.1	0.6	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	5.12	2.6	0.3
272009	0.2	0.8	0.1	0.532	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.54	3.1	0.3
272010	0.3	1.3	0.2	0.865	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	0.002	33	0.05	4	3.6	0.4
272011	0.2	0.9	0.1	0.624	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.002	< 5	0.1	9.81	3.2	0.4
272012	0.3	1	0.1	0.751	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.6	0.002	< 5	0.06	3.39	3	0.3
272013	0.3	1.3	0.2	0.898	0.2	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	1.4	< 0.001	< 5	0.07	4.81	4	0.5
272014	0.3	1	0.1	0.663	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.09	7.92	3.2	0.4
272015	0.2	0.9	0.1	0.603	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.08	6.71	2.5	0.3
272016	0.2	0.9	0.1	0.707	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	0.001	< 5	0.07	4.07	2.3	0.3
272017	0.2	0.8	0.1	0.56	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1	0.001	< 5	0.08	5.25	2.7	0.3
272018	0.3	1.1	0.1	0.756	0.1	0.3	< 0.1	0.3	< 0.1	0.3	< 0.05	0.2	0.002	< 5	0.12	3.99	2.8	0.4
272019	0.3	1.1	0.2	1.21	0.3	0.7	0.1	0.7	0.1	0.3	< 0.05	0.2	0.001	< 5	0.14	3.01	1.8	0.3
272020	0.2	0.7	0.1	0.572	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	8.52	1.6	0.3
272021	0.3	1.1	0.1	0.765	0.1	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	5.03	2.4	0.4
272022	0.1	0.6	0.1	0.907	0.2	0.6	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	5.66	1	0.2
272023	1.1	3.6	0.4	1.99	0.3	0.8	0.1	0.7	< 0.1	0.2	< 0.05	0.3	0.002	< 5	0.19	7.59	6.1	0.9
272024	0.2	0.7	< 0.1	0.445	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	3.94	3.2	0.3
272025	0.2	1.3	0.2	0.769	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.3	< 0.001	< 5	0.07	5.95	9.5	0.5
272026	0.4	1.5	0.2	0.989	0.2	0.4	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.88	4	0.4
272027	0.2	0.9	0.1	0.62	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	4.81	2.6	0.3
272028	0.4	1.5	0.2	0.972	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.62	2.4	0.5
272029	0.3	1.1	0.1	0.775	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.25	3.1	0.4
272030	0.2	0.8	0.1	0.54	< 0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.3	0.001	< 5	0.07	10.4	3.2	0.4
272031	0.2	0.8	0.1	0.542	< 0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.05	0.2	0.001	< 5	0.06	8.42	2.8	0.4
272032	0.3	1.3	0.2	0.798	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	5.08	2.9	0.4
272033	0.5	2	0.2	1.21	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1	0.002	< 5	0.08	4.23	3.9	0.6
272034	0.3	1.1	0.1	0.741	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	0.001	< 5	0.06	5.83	3.2	0.4
272035	0.4	1.6	0.2	1.07	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2	< 0.001	11	0.07	5.34	4.5	0.5
272036	0.2	0.6	< 0.1	0.461	< 0.1	0.2	< 0.1	0.2	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 5	0.1	5.13	2	0.4
272037	0.2	0.8	< 0.1	0.463	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.08	12.4	2.3	0.4
272038	0.2	0.5	< 0.1	0.456	< 0.1	0.3	< 0.1	0.3	< 0.1	0.3	< 0.05	0.2	0.001	< 5	0.06	8.24	1.4	0.3
272039	0.2	0.9	0.1	0.627	0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.05	< 0.1	0.001	< 5	0.1	8.42	3.4	0.5
272040	0.2	0.7	< 0.1	0.481	< 0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.05	1.6	0.002	< 5	0.09	8.44	1.7	0.3
272041	0.2	0.7	< 0.1	0.444	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.002	< 5	0.07	7.77	2.2	0.3
272042	0.3	1.1	0.1	0.708	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	0.001	< 5	0.1	7.79	6.3	0.5
272043	0.7	2.9	0.3	1.78	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.08	4.44	4.2	1.3
272044	0.3	1	0.1	0.67	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	5.38	1.4	0.4
272045	0.3	1.3	0.2	0.879	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.05	3.44	2.6	0.4

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272046	0.3	1.1	0.1	0.696	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.69	4.3	0.5
272047	0.4	1.7	0.2	0.962	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.07	6.17	5.5	0.6
272048	0.3	1.2	0.1	0.786	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	4.42	4	0.4
272049	0.2	0.7	< 0.1	0.414	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.06	5.94	2	0.3
272050	0.1	0.6	< 0.1	0.401	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.97	2.4	0.3
272051	0.2	0.7	< 0.1	0.48	< 0.1	0.2	< 0.1	0.2	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.71	2.1	0.3
272052	0.2	0.8	< 0.1	0.485	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	80	0.06	6.37	2.7	0.4
272053	0.3	1	0.1	0.712	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.08	7.5	3.7	0.4
272054	0.3	1.1	0.1	0.76	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.75	3.8	0.4
272055	0.2	0.9	0.1	0.613	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.03	3.4	0.4
272056	0.2	0.8	< 0.1	0.505	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.49	4	0.3
272057	0.2	0.8	0.1	0.592	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.06	6.54	2.7	0.3
272058	0.3	1.1	0.1	0.783	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	5.11	3.9	0.4
272059	0.3	1.3	0.2	0.938	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.02	3.1	0.4
272060	0.5	2.2	0.3	1.41	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	3.46	3.1	1.1
272061	0.4	1.7	0.2	1.15	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.06	3.12	2.5	0.4
272062	0.5	2	0.2	1.34	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	3.1	3.3	0.4
272063	0.2	0.9	0.1	0.636	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.93	2.6	0.3
272064	0.3	1.2	0.2	0.815	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	6.28	2.7	0.4
272065	0.3	1.3	0.2	0.848	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	3.27	2.3	0.3
272066	0.2	0.9	0.1	0.618	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.21	1.9	0.3
272067	0.2	1	0.1	0.679	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	6.33	2.4	0.4
272068	0.3	1.2	0.1	0.76	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	4.68	2.5	0.3
272069	0.3	1.1	0.1	0.727	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	6.15	3.6	0.4
272070	0.3	1	0.1	0.739	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.83	2.4	0.3
272071	0.2	1	0.1	0.703	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	2.2	0.3
272072	0.3	1.3	0.2	0.801	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.53	2.7	0.4
272073	0.3	1.2	0.2	0.847	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.15	2.5	0.3
272074	0.3	1.1	0.1	0.763	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.77	3.6	0.4
272075	0.2	1	0.1	0.686	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.4	2.2	0.3
272076	0.2	0.9	0.1	0.591	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.36	2	0.3
272077	0.3	1.3	0.2	0.847	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.05	3.85	2.5	0.3
272078	0.3	1.2	0.1	0.779	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.19	2.4	0.4
272079	0.3	1.4	0.2	0.906	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.88	3.2	0.4
272080	0.3	1	0.1	0.669	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	5.35	2.4	0.3
272081	0.3	1.1	0.1	0.802	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.06	4.39	2.5	0.3
272082	0.2	0.8	0.1	0.609	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.58	2	0.3
272083	0.3	1.1	0.1	0.759	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.3	3	0.3
272084	0.4	1.7	0.2	1.1	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	3.78	2.8	0.4
272085	0.2	0.7	< 0.1	0.464	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	4.21	2.3	0.2
272086	0.2	0.8	0.1	0.579	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.67	2.6	0.3
272087	0.3	1.1	0.1	0.753	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.8	< 0.001	< 5	0.05	4.59	2.9	0.3
272088	0.2	0.9	0.1	0.612	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.07	2.2	0.3
272089	0.2	0.9	0.1	0.628	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.72	2.4	0.3
272090	0.3	1.1	0.1	0.76	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.31	2.8	0.3

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272091	0.2	0.9	0.1	0.589	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.86	2.6	0.3
272092	0.2	0.9	0.1	0.581	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	6.18	1.9	0.3
272093	0.2	0.8	0.1	0.562	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.88	2	0.3
272094	0.3	1.3	0.2	0.861	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.57	3.6	0.4
272095	0.2	0.9	0.1	0.617	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.79	2.8	0.3
272096	0.2	1	0.1	0.653	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.08	4.78	2	0.3
272097	0.3	1.1	0.1	0.78	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.25	2.8	0.3
272098	0.2	1	0.1	0.648	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.05	5.6	2.6	0.3
272099	0.3	1	0.1	0.614	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	6.08	2.6	0.3
272100	0.2	0.8	0.1	0.579	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.15	2.4	0.3
272101	0.2	0.9	0.1	0.605	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.04	2.3	0.3
272102	0.4	1.5	0.2	1.04	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	16	0.06	3.65	3.8	0.3
282001	0.4	1.4	0.2	0.835	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	4.49	4.7	0.5
282002	0.3	1.1	0.1	0.748	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.11	10.1	5	0.5
282003	0.3	1.2	0.1	0.746	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.04	4.58	3.2	0.5
282004	0.3	1.3	0.2	0.841	0.1	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.5	< 0.001	< 5	0.05	6.18	2.9	0.6
282005	0.3	1	0.1	0.648	0.1	0.3	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.06	4.73	3.5	0.5
282006	0.4	1.5	0.2	0.993	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	3.78	3.1	0.5
282007	0.2	0.8	< 0.1	0.516	< 0.1	0.2	< 0.1	0.2	< 0.1	0.1	< 0.05	1	< 0.001	< 5	0.07	7.29	2.9	0.4
282008	0.2	0.8	< 0.1	0.504	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	7.38	2.8	0.3
282009	0.4	1.4	0.2	0.83	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	0.08	0.1	< 0.001	< 5	0.1	4.6	3.4	0.4
282010	0.3	1.1	0.1	0.76	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	3.68	2.4	0.3
282011	0.3	1	0.1	0.804	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.05	5.25	2.7	0.5
282012	0.4	1.6	0.2	0.905	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.05	3.33	2.5	0.4
282013	0.3	1	0.1	0.633	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	6.24	2.6	0.4
282014	0.5	1.8	0.2	1.21	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.08	2.3	2.7	0.4
282015	0.3	1	0.1	0.696	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.06	5.3	2.6	0.4
282016	0.2	0.5	< 0.1	0.358	< 0.1	0.2	< 0.1	0.1	< 0.1	0.2	< 0.05	0.9	< 0.001	< 5	0.06	5.79	1.2	0.4
282017	0.3	1	0.1	0.69	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	5.24	3.5	0.4
282018	0.2	1	0.1	0.692	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	4.81	3.4	0.4
282019	0.2	0.9	0.1	0.62	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.34	3.3	0.3
282020	0.4	1.5	0.2	0.946	0.2	0.5	< 0.1	0.3	< 0.1	0.2	< 0.05	0.2	< 0.001	28	0.09	4.05	3.3	0.4
282021	0.5	1.7	0.2	1.1	0.2	0.5	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	4.55	3.9	0.5
282022	0.2	0.9	0.1	0.604	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	6.29	4.2	0.4
282023	0.2	0.9	0.1	0.615	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	3.23	2.5	0.3
282024	0.2	0.9	0.1	0.606	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.05	4.36	2.6	0.3
282025	0.1	0.5	< 0.1	0.325	< 0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.06	1.4	0.2
282026	0.3	1	0.1	0.693	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	3.79	2.3	0.3
282027	0.2	0.9	0.1	0.616	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	3.54	2.1	0.3
282028	0.3	1.1	0.1	0.708	0.1	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	3.96	2.7	0.4
282029	0.2	0.8	0.1	0.559	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.35	2.3	0.3
282030	0.2	0.9	0.1	0.763	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.11	5.78	2.5	0.4
282031	0.3	1.1	0.1	0.714	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.1	6.97	3.3	0.5
282032	0.2	0.7	0.1	0.667	0.1	0.4	< 0.1	0.3	< 0.1	0.2	< 0.05	0.5	0.001	< 5	0.11	9.06	1.7	0.3
282033	0.2	0.8	0.2	1.08	0.2	0.7	< 0.1	0.5	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.6	1.2	0.2

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282034	0.2	0.9	0.1	0.591	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.52	2.6	0.3
282035	0.3	1.2	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	7.17	4.6	0.5
282036	0.3	1.2	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.97	3.3	0.4
282037	0.2	0.8	< 0.1	0.575	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.98	2.1	0.3
282038	0.3	1.2	0.2	0.856	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	5.35	3.1	0.6
282039	0.3	1.3	0.2	0.894	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.26	3.3	0.4
282040	0.3	1.2	0.1	0.79	0.2	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	5.52	3.4	0.3
282041	0.2	0.8	< 0.1	0.533	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	5.65	2.3	0.3
282042	0.2	0.8	< 0.1	0.488	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	35	0.05	4.23	2.1	0.3
282043	0.2	1	0.1	0.692	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.47	2.9	0.3
282044	0.3	1.2	0.1	0.693	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.27	3.4	0.4
282045	0.2	0.7	< 0.1	0.473	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.4	2	0.3
282046	0.2	0.9	0.1	0.61	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.78	3.1	0.3
282047	0.2	1	0.1	0.641	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.54	2.4	0.3
282048	0.3	1.1	0.1	0.779	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.01	2.8	0.3
282049	0.3	1	0.1	0.692	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.98	2.5	0.3
282050	0.2	0.9	0.1	0.594	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	3.71	2	0.3
282051	0.2	1	0.1	0.618	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.08	5.24	1.9	0.3
282052	0.3	0.9	0.1	0.607	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.66	2	0.3
282053	0.2	0.9	0.1	0.587	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.4	2.6	0.3
282054	0.5	2.1	0.2	1.26	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.17	6.5	0.5
282055	0.1	0.6	< 0.1	0.351	< 0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.73	2.2	0.2
282056	0.2	0.8	< 0.1	0.461	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.18	3.1	0.3
282057	0.2	0.9	0.1	0.585	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.44	2.8	0.3
282058	0.2	0.9	0.1	0.628	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.9	2.4	0.3
282059	0.3	1.1	0.1	0.684	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.83	2.9	0.3
282060	0.2	0.9	0.1	0.608	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.51	2.7	0.3
282061	0.2	1	0.1	0.612	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	4.97	2.1	0.3
282062	0.3	1.1	0.1	0.761	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.12	2.3	0.3
282063	0.2	0.9	0.1	0.556	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.77	1.8	0.3
282064	0.3	1.1	0.1	0.78	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.96	2.4	0.3
282065	0.2	0.9	0.1	0.612	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.28	2.5	0.3
282066	0.2	0.8	< 0.1	0.522	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.42	1.2	0.3
282067	0.3	1.1	0.1	0.705	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.99	2.7	0.3
282068	0.2	0.9	0.1	0.608	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.22	1.8	0.3
282069	0.2	0.9	0.1	0.612	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.62	2.4	0.3
282070	0.2	0.9	0.1	0.566	0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	4.11	2.1	0.3
282071	0.3	1.2	0.2	0.792	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	5.15	2.9	0.3
282072	0.2	0.8	< 0.1	0.542	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.57	2.3	0.3
282073	0.2	1.1	0.1	0.65	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.5	3	0.3
282074	0.3	1	0.1	0.639	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.33	2.7	0.3
282075	0.2	0.7	< 0.1	0.449	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	1.8	0.2
282076	0.2	0.7	< 0.1	0.518	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.87	2.8	0.2
282077	0.2	0.9	0.1	0.583	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.7	3.1	0.3
282078	0.3	1.3	0.2	0.84	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	6.08	4.3	0.5

Appendix B
2011 Soil Sample Descriptions with pH Values and Assays

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282079	0.3	1.1	0.1	0.768	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.97	2.8	0.3
282080	0.2	0.7	< 0.1	0.571	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	108	0.05	4.85	2	0.3
282081	0.3	1.1	0.1	0.772	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	4.29	3.4	0.4
282082	0.2	1.1	0.1	0.649	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.49	3.4	0.4
282083	0.2	1	0.1	0.666	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.47	3	0.3
282084	0.2	1	0.1	0.622	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	5.45	2.9	0.3
282085	0.2	0.9	< 0.1	0.514	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	5.56	3.2	0.3
282086	0.2	0.9	0.1	0.657	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	5.47	4.1	0.3
282087	0.3	1.1	0.1	0.805	0.2	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.05	2.9	3.6	0.3
282088	0.4	1.6	0.2	1.05	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	3.66	2.7	0.5
282089	0.2	0.9	0.1	0.566	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.8	2	0.3
292001	0.3	1.1	0.1	0.765	0.2	0.4	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	23	0.07	5.08	2.8	0.5
292002	0.2	0.8	0.1	0.557	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.09	7.24	3.2	0.5
292003	0.2	0.8	0.1	0.623	0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.05	0.6	< 0.001	< 5	0.07	6.26	3.1	0.4
292004	0.4	1.6	0.2	0.966	0.2	0.4	< 0.1	0.3	< 0.1	0.2	< 0.05	0.4	< 0.001	< 5	0.09	8.49	7	0.7
292005	0.2	0.9	0.1	0.595	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.06	6.09	2.1	0.4
292006	0.3	1.1	0.1	0.807	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.7	4.4	0.4
292007	0.4	1.5	0.2	0.973	0.2	0.4	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.07	4.29	4.8	0.4
292008	0.2	0.6	< 0.1	0.422	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.85	1.7	0.2
292009	0.2	0.8	0.1	0.601	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.09	5.65	2.4	0.4
292010	0.2	1	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	1.4	< 0.001	< 5	0.08	6.88	4.4	0.5
292011	0.2	1	0.1	0.652	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.08	8.61	3.4	0.4
292012	0.3	1.5	0.2	0.895	0.2	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.4	< 0.001	< 5	0.08	6.9	6.6	0.5
292013	0.2	0.9	0.1	0.69	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.1	7.53	3.7	0.5
292014	0.5	1.8	0.2	1.16	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.08	3.65	3.8	0.5
292015	0.2	0.7	< 0.1	0.476	< 0.1	0.2	< 0.1	0.2	< 0.1	0.2	< 0.05	0.1	< 0.001	< 5	0.06	15.4	3	0.3
292016	0.6	2	0.3	1.36	0.3	0.7	< 0.1	0.6	< 0.1	< 0.1	< 0.05	1.1	< 0.001	< 5	0.08	3.46	3.2	0.5
292017	0.3	1.1	0.1	0.718	0.1	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.08	5.41	4.1	0.4
292018	0.2	0.7	< 0.1	0.48	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.56	2.8	0.3
292019	0.2	1	0.1	0.534	< 0.1	0.2	< 0.1	0.2	< 0.1	0.1	< 0.05	1	< 0.001	< 5	0.07	6.08	5.3	0.4
292020	0.3	1.1	0.1	0.74	0.1	0.3	< 0.1	0.3	< 0.1	0.2	< 0.05	0.2	0.001	< 5	0.06	5.74	4	0.4
292021	0.4	1.4	0.2	0.906	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.93	2.7	0.4
292022	0.3	1.2	0.1	0.792	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.77	3.2	0.4
292023	0.3	1	0.1	0.628	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.45	2.8	0.5
292024	0.4	1.5	0.2	1.02	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	2.81	2.9	0.4
292025	0.2	0.8	0.1	0.63	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.94	2.6	0.4
292026	0.3	1	0.1	0.688	0.1	0.3	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.41	2.9	0.3
292027	0.2	0.8	0.1	0.545	< 0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	6.87	2.7	0.3
292028	0.4	1.3	0.2	0.914	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	2.82	2.8	0.4
292029	0.4	1.5	0.2	1.03	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	2.56	3.8	0.4
292030	0.3	1	0.1	0.706	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.09	5.2	3.5	0.4
292031	0.2	0.8	< 0.1	0.494	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.05	5.03	2.1	0.3
292032	0.2	1	0.1	0.653	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.04	3.98	2.9	0.3
292033	0.2	0.9	0.1	0.671	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.56	2.4	0.3
292034	0.2	0.7	< 0.1	0.525	< 0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.6	< 0.001	< 5	0.05	6.85	1.8	0.2

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292035	0.3	1.2	0.2	1.02	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.05	10.1	1.6	0.3
292036	0.4	1.4	0.2	0.956	0.2	0.4	< 0.1	0.4	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 5	0.05	2.76	3.3	0.4
292037	1.6	4.5	0.5	1.98	0.3	0.7	< 0.1	0.5	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.12	12.5	5.2	1
292038	0.3	1.5	0.2	0.967	0.2	0.5	< 0.1	0.4	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.12	8.32	6.2	0.6
292039	0.3	1.1	0.1	0.792	0.1	0.4	< 0.1	0.4	< 0.1	0.1	< 0.05	2	< 0.001	< 5	0.12	7.02	3.3	0.5
292040	0.3	1.1	0.2	0.847	0.2	0.4	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.09	7.68	3.5	0.4
292041	0.2	0.8	0.1	0.562	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.42	3.2	0.3
292042	0.4	1.7	0.2	1.13	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.24	3.3	0.5
292043	0.4	1.4	0.2	0.927	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	4.01	2.6	0.4
292044	0.3	1.3	0.2	0.934	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.07	5.17	3.3	0.3
292045	0.2	0.8	0.1	0.606	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.44	2.4	0.3
292046	0.2	0.9	0.1	0.499	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.37	3.3	0.3
292047	0.2	0.7	< 0.1	0.416	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	40	0.05	4.46	2.2	0.2
292048	0.3	1.3	0.2	0.91	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	4.09	2.2	0.3
292049	0.2	0.9	0.1	0.609	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	9	0.05	4.99	2.3	0.3
292050	0.2	1	0.1	0.634	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.67	2.3	0.3
292051	0.3	1.1	0.1	0.733	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.89	2.4	0.3
292052	0.2	0.8	0.1	0.568	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.07	3.86	1.5	0.3
292053	0.2	1.1	0.1	0.711	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.34	2.3	0.3
292054	0.3	1.4	0.2	0.855	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.72	2.4	0.4
292055	0.3	1.4	0.2	0.892	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.41	3.3	0.4
292056	0.3	1.2	0.1	0.766	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.6	< 0.001	< 5	0.06	4.74	2.4	0.3
292057	0.3	1.2	0.2	0.829	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.07	2.7	0.3
292058	0.3	1.5	0.2	0.929	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.06	5.47	4	0.4
292059	0.3	1.1	0.1	0.712	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.86	2.7	0.3
292060	0.2	0.7	< 0.1	0.497	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.14	1.6	0.2
292061	0.2	0.8	0.1	0.533	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.23	2.3	0.3
292062	0.2	0.7	< 0.1	0.498	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.03	3.2	1.5	0.2
292063	0.2	1.1	0.1	0.656	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.2	3.3	0.3
292064	0.2	0.9	0.1	0.638	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.7	2.2	0.3
292065	0.3	1.5	0.2	1.04	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.78	3.8	0.7
292066	0.4	1.5	0.2	0.902	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	182	0.07	6.04	2.8	0.4
292067	0.3	1.2	0.2	0.86	0.2	0.4	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.79	3.1	0.3
292068	0.2	0.9	0.1	0.61	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	4.61	2.5	0.3
292069	0.3	1.3	0.2	0.884	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.14	3.1	0.4
292070	0.2	0.9	0.1	0.503	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.09	1.8	0.2
292071	0.3	1.3	0.2	0.773	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.51	3	0.3
292072	0.3	1.1	0.2	0.828	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.87	2.3	0.3
292073	0.3	1.1	0.1	0.778	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.62	2.6	0.3
292074	0.2	1	0.1	0.645	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.75	2.1	0.3
292075	0.3	1	0.1	0.627	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.55	2.1	0.3
292076	0.2	0.9	0.1	0.652	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.5	1.7	0.3
292077	0.2	1	0.1	0.717	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.92	2.4	0.3
292078	0.3	1	0.1	0.661	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.57	2.3	0.3
292079	0.2	0.8	< 0.1	0.503	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.29	1.6	0.2

	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Sample #	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292080	0.2	0.8	0.1	0.577	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	75	0.05	3.97	2.1	0.3
292081	0.3	1.4	0.2	0.894	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.04	3.72	2.6	0.3
292082	0.2	1	0.1	0.611	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.3	2.6	0.3
292083	0.2	0.7	< 0.1	0.523	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.08	5.05	1.8	0.3
292084	0.2	0.9	0.1	0.653	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.22	2.9	0.4
292085	0.2	0.9	0.1	0.522	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.62	2.2	0.3
292086	0.3	1.2	0.1	0.776	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.03	2.2	0.3
292087	0.2	0.9	0.1	0.622	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	2.15	1.8	0.3
292088	0.3	1.2	0.2	0.882	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.66	2.8	0.3
292089	0.3	1.2	0.2	0.796	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.26	2.9	0.4
292090	0.3	1.1	0.1	0.697	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5	1.4	0.3
292091	0.3	1.2	0.2	0.821	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.02	3.8	0.4
292092	0.3	1.2	0.2	0.78	0.1	0.4	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.91	3.1	0.3
292093	0.2	0.9	0.1	0.56	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.06	4.97	2.3	0.3
292094	0.3	1	0.1	0.66	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.01	2.4	0.3
292095	0.3	1.1	0.2	0.826	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	3.7	2.5	0.3
292096	0.3	1.1	0.1	0.761	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.41	3.4	0.3
292097	0.3	1.2	0.1	0.725	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.04	4.78	3.8	0.3
292098	0.3	1	0.1	0.601	0.1	0.3	< 0.1	0.2	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.52	2.9	0.3
292099	0.3	1	0.1	0.758	0.1	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.1	2.3	0.3
292100	0.4	1.4	0.2	0.98	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	6	0.06	3.2	2.5	0.4
292101	0.4	1.6	0.2	0.965	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	4.1	0.4

APPENDIX C
HUMUS SAMPLE DESCRIPTION AND Ph VALUES and ASSAY RESULTS
(UTM Co-ordinates are in NAD83 Zone 15)

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

						Analyte Symbol	Au	Ag
						Unit Symbol	ppb	ppm
						Detection Limit	1	2
Sample #	Easting	Northing	Altitude	Description	pH	Analysis Method	INAA	INAA
						Certificate #		
271001	662922	5678997	396	Jet black, 20cm deep. Flat, mature black spruce.	4.83	A11-8838Final	< 1	< 2
271002	662777	5678567	389	Jet black, 40cm deep. Flat, mature black spruce and moss on top of boulders.	6.27	A11-8838Final	< 1	< 2
271003	662787	5678591	392	Jet black, 50cm deep. Flat, mature black spruce and moss on top of boulders.	6.02	A11-8838Final	< 1	< 2
271004	662791	5678626	393	Jet black, 70cm deep. Flat, mature black spruce and moss on top of boulders.	6.14	A11-8838Final	< 1	< 2
271005	662801	5678647	393	Jet black, 50cm deep. Flat, mature black spruce and moss on top of boulders.	6.19	A11-8838Final	< 1	< 2
271006	662811	5678671	395	Jet black, 60cm deep. Flat, mature black spruce and moss on top of boulders.	6.57	A11-8838Final	< 1	< 2
271007	662838	5678744	395	Jet black, 40cm deep. Flat, mature black spruce and moss on top of boulders.	6.15	A11-8838Final	< 1	< 2
271008	662854	5678764	395	Jet black, 60cm deep. Flat, mature black spruce and moss on top of boulders.	6.47	A11-8838Final	2	< 2
271009	662862	5678788	397	Jet black (very wet), 50cm deep. Flat, mature black spruce and moss on top of boulders.	6.55	A11-8838Final	3	< 2
271010	668001	5679772	390	Jet black, 80cm deep. Flat, mature black spruce and moss on top of boulders.	7.10	A11-8838Final	< 1	< 2
271011	668003	5679748	392	Jet black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.66	A11-8838Final	< 1	< 2
271012	667999	5679724	391	Jet black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.85	A11-8838Final	< 1	< 2
271013	668000	5679699	390	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.40	A11-8838Final	< 1	< 2
271014	668001	5679673	390	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.08	A11-8838Final	< 1	< 2
271015	668000	5679648	392	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.47	A11-8838Final	< 1	< 2
271016	668000	5679624	392	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.71	A11-8838Final	< 1	< 2
271017	668001	5679599	391	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.30	A11-8838Final	< 1	< 2
271018	668002	5679574	389	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.78	A11-8838Final	< 1	< 2
271019	668001	5679548	391	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.79	A11-8838Final	< 1	< 2
271020	668300	5679800	395	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.41	A11-8838Final	< 1	< 2
271021	668301	5679774	393	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.26	A11-8838Final	< 1	< 2
271022	668303	5679748	394	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.74	A11-8838Final	< 1	< 2
271023	668305	5679723	395	Dark brown to black, 140cm deep. Flat, mature black spruce and moss on top of boulders.	6.74	A11-8838Final	< 1	< 2
271024	668303	5679249	397	Jet black, 50cm deep. Flat, mature black spruce and moss on top of boulders.	6.98	A11-8838Final	< 1	2
271025	668301	5679224	395	Jet black, 50cm deep. Flat, mature black spruce and moss on top of boulders.	7.10	A11-8838Final	< 1	< 2
271026	668302	5679222	396	Duplicate of 271025 (1m away)	7.03	A11-8838Final	< 1	< 2
271027	668302	5679199	395	Dark brown to black, 140cm deep. Flat, Black spruce swamp.	6.45	A11-8838Final	< 1	< 2
271028	668304	5679174	393	Poorly developed dark brown to black humus, 140cm deep. Flat black spruce swamp	7.01	A11-8838Final	< 1	< 2
271029	668302	5679150	393	Poorly developed dark brown to black humus, 140cm deep. Flat black spruce swamp	6.75	A11-8838Final	< 1	< 2
271030	668301	5679124	389	Poorly developed dark brown to black humus, 140cm deep. Flat black spruce swamp	6.80	A11-8838Final	< 1	< 2
271031	668301	5679071	387	Very poorly developed dark brown to black humus, 140cm deep. Flat black spruce swamp	6.35	A11-8838Final	< 1	< 2
281001	662907	5679201	393	Flat, Woods, Dark Brown to Black	4.59	A11-8838Final	< 1	< 2
281002	662941	5679241	383	Flat, Woods, Dark Brown to Black	6.35	A11-8838Final	5	< 2
281003	662955	5679262	381	Flat, Woods, Black	5.71	A11-8838Final	< 1	< 2
281004	662976	5679277	379	Sloping gentle to NW, woods, Black	6.51	A11-8838Final	< 1	< 2
281005	662984	5679301	380	Very gentle slope to NW, Woods, Black	5.48	A11-8838Final	< 1	< 2
281006	662999	5679325	379	Flat, Woods, Black	6.27	A11-8838Final	3	< 2
281007	663015	5679343	378	Flat, Woods, Black	5.48	A11-8838Final	< 1	< 2
281008	663037	5679378	385	Flat, Woods, Black	5.65	A11-8838Final	< 1	< 2
281009	663047	5679379	375	Flat, Woods, Black, Edge of Lake	5.62	A11-8838Final	< 1	< 2
281010	662926	5678615	383	Flat, Woods, Black	6.18	A11-8838Final	< 1	< 2
281011	662938	5678636	385	Flat, Woods, Black	6.01	A11-8838Final	< 1	< 2
281012	662952	5678659	388	Flat, Woods, Black	6.60	A11-8838Final	< 1	< 2
281013	662969	5678676	387	Flat, Woods, Black	6.33	A11-8838Final	< 1	< 2
281014	662974	5678698	385	Flat, Woods, Black	6.47	A11-8838Final	< 1	< 2

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

						Analyte Symbol	Au	Ag
						Unit Symbol	ppb	ppm
						Detection Limit	1	2
Sample #	Easting	Northing	Altitude	Description	pH	Analysis Method	INAA	INAA
						Certificate #		
281015	662990	5678718	394	Flat, Woods, Black	6.37	A11-8838Final	< 1	< 2
281016	663010	5678738	384	Flat, Woods, Black	6.47	A11-8838Final	< 1	< 2
281017	663027	5678755	383	Flat, Woods, Black	6.03	A11-8838Final	< 1	< 2
281018	663042	5678774	384	Woods, Flat, Boggy, Black, Deep	6.23	A11-8838Final	< 1	< 2
281019	663055	5678793	402	Woods, Flat, Boggy, Black, Deep	6.28	A11-8838Final	< 1	< 2
281020	663075	5678814	385	Woods, Flat, Boggy, Black, Deep	6.52	A11-8838Final	< 1	< 2
281021	663192	5679040	393	Woods, Flat, Boggy, Black, Deep	6.24	A11-8838Final	< 1	< 2
281022	663206	5679056	385	Woods, Flat, Boggy, Black, Deep	6.60	A11-8838Final	< 1	< 2
281023	663280	5679242	399	Sloping to NE, Woods, Black, Difficult to get sample due to boulders	5.13	A11-8838Final	< 1	< 2
281024	663331	5679305	382	Woods, Flat, Boggy, Black	6.12	A11-8838Final	< 1	< 2
281025	667802	5679721	383	Swamp, Flat, Boggy, Black	6.60	A11-8838Final	< 1	< 2
281026	667800	5679714	395	Swamp, Flat, Boggy, Black	6.65	A11-8838Final	< 1	< 2
281027	667796	5679700	390	Swamp, Flat, Boggy, Black	6.62	A11-8838Final	3	< 2
281028	667802	5679671	388	Swamp, Flat, Boggy, Black	6.88	A11-8838Final	< 1	< 2
281029	667799	5679648	387	Swamp, Flat, Boggy, Dark Brown Deep	6.98	A11-8838Final	< 1	< 2
281030	667797	5679623	392	Swamp, Flat, Boggy, Dark Brown Deep	6.41	A11-8838Final	< 1	< 2
281031	667801	5679597	389	Swamp, Flat, Boggy, Dark Brown Deep	6.73	A11-8838Final	< 1	< 2
281032	667801	5679574	385	Swamp, Flat, Boggy, Dark Brown Deep	6.60	A11-8838Final	< 1	< 2
281033	667801	5679549	386	Swamp, Flat, Boggy, Dark Brown Deep	6.63	A11-8838Final	< 1	< 2
281034	667806	5679523	387	Swamp, Flat, Boggy, Dark Brown Deep, Too wet, Hard to get humus sample	6.46	A11-8838Final	< 1	< 2
281035	667798	5679496	388	Swamp, Flat, Dark Brown, Hard to get sample due to the wetness of the swamp	6.72	A11-8838Final	3	< 2
281036	667801	5679446	387	Swamp, Flat, Dark Brown	6.90	A11-8838Final	< 1	< 2
281037	667798	5679423	385	Swamp, Flat, Dark Brown	6.98	A11-8838Final	< 1	< 2
281038	667802	5679400	381	Swamp, Flat, Dark Brown, edge of swamp	7.07	A11-8838Final	< 1	< 2
281039	668100	5679798	386	Swamp, Flat, Dark Brown, Deep	7.18	A11-8838Final	< 1	< 2
281040	668103	5679773	398	Swamp, Flat, Dark Brown, Deep	6.88	A11-8838Final	< 1	< 2
281041	668102	5679749	390	Swamp, Flat, Dark Brown, Deep	7.05	A11-8838Final	< 1	< 2
281042	668103	5679724	389	Swamp, Flat, Dark Brown, Deep	6.45	A11-8838Final	< 1	< 2
281043	668099	5679694	391	Swamp, Flat, Dark Brown, Deep	6.86	A11-8838Final	< 1	< 2
281044	668100	5679671	384	Swamp, Flat, Dark Brown, Deep	6.30	A11-8838Final	< 1	< 2
281045	668102	5679625	387	Swamp, Flat, Dark Brown, Deep	7.06	A11-8838Final	< 1	< 2
281046	668102	5679596	379	Edge of Swamp, Flat, Black, Deep	6.87	A11-8838Final	< 1	< 2
281047	667599	5679250	388	Swamp, Flat, Black,	6.55	A11-8838Final	< 1	< 2
281048	667596	5679274	388	Swamp Flat, Black, Deep	6.72	A11-8838Final	< 1	< 2
291001	662685	5679008		Black, 20cm, Flat ,alders and Black Spruce	6.44	A11-8838Final	< 1	< 2
291002	662699	5679024		Black, 20cm, Flat ,alders and Black Spruce	6.25	A11-8838Final	< 1	< 2
291003	662734	5679093		Black, 20cm, Flat ,alders and Black Spruce	5.96	A11-8838Final	< 1	< 2
291004	662906	5679305	367	150cm Black, Peaty, Flat Swamp, Alders	6.86	A11-8838Final	< 1	< 2
291005	662924	5679321	391	150cm Black, Peaty, Flat Swamp, Alders	6.36	A11-8838Final	< 1	< 2
291007	663382	5679111	399	150cm Black, Peaty, Flat Swamp, Alders	6.60	A11-8838Final	< 1	< 2
291008	663397	5679112		150cm Black, Peaty, Flat Swamp, Alders	6.90	A11-8838Final	< 1	< 2
291009	667895	5679765	397	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.48	A11-8838Final	< 1	< 2
291010	667896	5679748	394	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.01	A11-8838Final	< 1	< 2
291011	667894	5679720	395	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.82	A11-8838Final	< 1	< 2
291012	667885	5679696	395	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.10	A11-8838Final	< 1	< 2

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

						Analyte Symbol	Au	Ag
						Unit Symbol	ppb	ppm
						Detection Limit	1	2
Sample #	Easting	Northing	Altitude	Description	pH	Analysis Method	INAA	INAA
						Certificate #		
291013	667895	5679666	390	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.60	A11-8838Final	< 1	< 2
291014	667898	5679647	394	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.90	A11-8838Final	< 1	< 2
291015	667895	5679525	396	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.13	A11-8838Final	< 1	< 2
291016	667888	5679496	387	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.12	A11-8838Final	< 1	< 2
291017	667888	5679468	392	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.89	A11-8838Final	< 1	< 2
291018	668202	5679000	395	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.26	A11-8838Final	< 1	< 2
291019	668204	5679033	388	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.10	A11-8838Final	< 1	< 2
291020	668210	5679055	382	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.91	A11-8838Final	< 1	< 2
291021	668206	5679080	392	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.82	A11-8838Final	< 1	< 2
291022	668204	5679797	382	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.71	A11-8838Final	< 1	< 2
291023	668204	5679771	393	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.05	A11-8838Final	< 1	< 2
291024	668190	5679748	391	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.11	A11-8838Final	< 1	< 2
291025	668191	5679723	391	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.32	A11-8838Final	< 1	< 2
291026	668192	5679723	389	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders (Duplicate < 1m away)	6.47	A11-8838Final	< 1	< 2
291027	668186	5679695	389	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.80	A11-8838Final	< 1	< 2
291028	668194	5679670	394	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	7.08	A11-8838Final	< 1	< 2
291029	668194	5679640	398	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.79	A11-8838Final	< 1	< 2
291030	667700	5679330	394	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.72	A11-8838Final	< 1	< 2
291031	667696	5679347	390	150cm, Black, Peaty, Flat swamp, Black Spruce and Alders	6.69	A11-8838Final	< 1	< 2

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc
	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
271001	< 1	300	8	1.8	< 1	34	1.6	0.91	6.1	< 0.5	< 5	< 0.5	14000	< 10	40	< 0.1	4.6
271002	< 1	400	18	1.6	16	24	1.6	1.07	1.3	< 0.5	< 5	< 0.5	6200	< 10	< 20	< 0.1	4.3
271003	< 1	300	13	3.2	5	16	< 0.5	0.56	< 0.5	< 0.5	< 5	< 0.5	800	< 10	< 20	0.3	2.7
271004	2	500	13	3.8	6	40	2.4	1.47	1.8	< 0.5	< 5	3	6400	< 10	< 20	0.3	6.2
271005	5	200	18	2.2	6	29	1.9	2	< 0.5	< 0.5	< 5	< 0.5	1000	< 10	< 20	0.5	6.4
271006	< 1	200	11	3.5	< 1	11	< 0.5	0.37	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	1.8
271007	16	200	18	< 0.5	5	16	2.6	2.45	1.4	< 0.5	< 5	4	2900	< 10	< 20	0.2	4.3
271008	< 1	200	11	< 0.5	6	10	< 0.5	0.74	0.8	< 0.5	< 5	3	400	< 10	< 20	< 0.1	2.2
271009	2	200	16	2.4	3	8	1	0.66	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	2.6
271010	< 1	< 100	29	5.9	< 1	6	< 0.5	0.3	< 0.5	< 0.5	< 5	< 0.5	1200	< 10	< 20	< 0.1	1.1
271011	2	200	27	5.3	< 1	5	< 0.5	0.51	< 0.5	< 0.5	< 5	4.6	400	< 10	< 20	< 0.1	0.6
271012	< 1	< 100	22	5.1	< 1	5	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271013	< 1	< 100	24	3.7	< 1	5	< 0.5	0.21	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271014	< 1	< 100	24	4	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.5
271015	< 1	< 100	30	3	< 1	< 1	< 0.5	0.14	< 0.5	< 0.5	< 5	1	300	< 10	< 20	< 0.1	0.5
271016	< 1	< 100	32	2.6	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271017	< 1	< 100	32	2.2	< 1	< 1	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271018	< 1	< 100	29	3.7	< 1	< 1	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271019	< 1	< 100	27	3.7	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	2.4	300	< 10	< 20	< 0.1	0.5
271020	3	< 100	37	4.5	< 1	< 1	< 0.5	0.51	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	0.6
271021	6	300	70	3.4	3	3	< 0.5	5.42	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	0.5
271022	3	< 100	66	5.9	< 1	3	0.8	1.76	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	< 0.1	0.6
271023	< 1	< 100	27	4.8	2	8	< 0.5	0.59	< 0.5	< 0.5	< 5	1.9	300	< 10	< 20	0.2	1
271024	3	300	29	5	5	26	1	1.23	1.4	< 0.5	< 5	< 0.5	5100	< 10	20	0.2	3.5
271025	3	< 100	34	5	2	6	< 0.5	0.5	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.6
271026	3	< 100	34	6.1	3	8	< 0.5	0.66	< 0.5	< 0.5	< 5	< 0.5	1100	< 10	< 20	0.2	1.1
271027	< 1	< 100	30	5.9	< 1	5	< 0.5	0.18	< 0.5	< 0.5	< 5	2.4	500	< 10	< 20	0.2	0.5
271028	< 1	< 100	50	4.6	2	6	< 0.5	0.19	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.5
271029	< 1	< 100	46	4.6	< 1	< 1	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5
271030	1	< 100	34	3.6	< 1	< 1	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	0.1	0.3
271031	< 1	< 100	45	3.6	< 1	1	< 0.5	0.15	< 0.5	< 0.5	< 5	1.3	300	< 10	< 20	0.1	0.3
281001	< 1	300	8	1.7	6	41	1.7	1.23	3.6	< 0.5	< 5	< 0.5	12600	< 10	20	0.3	5.9
281002	7	400	25	3.1	11	21	2.4	1.23	1.1	< 0.5	< 5	4.5	2400	< 10	< 20	0.7	5.2
281003	6	400	32	2.5	14	42	1.5	2.24	1.4	< 0.5	< 5	1.8	6300	< 10	< 20	< 0.1	6.4
281004	3	200	34	3.5	6	15	1	0.7	< 0.5	< 0.5	< 5	< 0.5	700	< 10	< 20	1	3.9
281005	3	200	25	2.4	4	13	1	1.25	< 0.5	< 0.5	< 5	2.1	900	< 10	< 20	0.3	6.4
281006	< 1	300	27	3.1	7	11	0.8	1.53	1.1	< 0.5	< 5	< 0.5	900	< 10	< 20	< 0.1	7.4
281007	< 1	200	21	1.4	3	18	0.7	1.08	1.1	< 0.5	< 5	< 0.5	4400	< 10	< 20	< 0.1	5
281008	4	200	11	0.8	6	20	1	2.73	2.1	< 0.5	< 5	1.4	7000	80	< 20	0.3	9
281009	1	200	18	1.5	10	10	0.8	1.06	0.8	< 0.5	< 5	2.1	1600	< 10	< 20	0.1	5.9
281010	52	600	32	2.2	55	17	1.8	9.24	< 0.5	< 0.5	< 5	8.7	1200	90	< 20	0.4	2.7
281011	27	< 100	24	2.8	8	13	0.8	3.04	< 0.5	< 0.5	< 5	< 0.5	700	< 10	< 20	< 0.1	1.7
281012	8	< 100	31	3.4	4	6	1.3	1.2	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	0.4	1
281013	< 1	< 100	25	2.8	3	13	1.3	1.34	0.8	< 0.5	< 5	2.2	1200	< 10	< 20	0.1	2
281014	< 1	< 100	22	2.7	< 1	4	< 0.5	0.31	< 0.5	< 0.5	< 5	1.5	300	< 10	< 20	< 0.1	0.6

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc
	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
281015	4	< 100	27	3.5	< 1	4	< 0.5	0.92	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.1	0.8
281016	3	< 100	27	3.2	4	4	0.8	0.43	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	0.1	0.8
281017	< 1	< 100	18	3.1	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
281018	< 1	< 100	22	3.6	< 1	3	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
281019	< 1	< 100	20	4.3	< 1	3	< 0.5	0.17	< 0.5	< 0.5	< 5	1.5	300	< 10	< 20	< 0.1	0.4
281020	< 1	< 100	34	3.9	4	3	1	0.6	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.3	1.1
281021	< 1	< 100	13	3.4	< 1	4	< 0.5	0.22	< 0.5	< 0.5	< 5	2.9	500	< 10	< 20	0.1	1
281022	3	300	29	2.9	8	25	< 0.5	1.37	1.1	< 0.5	< 5	2.4	3600	< 10	< 20	0.1	4.8
281023	3	300	10	< 0.5	13	42	2.4	4.37	4.1	< 0.5	< 5	1	14000	< 10	20	< 0.1	15.4
281024	< 1	300	7	1.5	3	21	< 0.5	0.62	1.5	< 0.5	< 5	2.1	10400	< 10	30	0.3	5.6
281025	3	200	15	3.5	3	32	0.8	0.83	< 0.5	< 0.5	< 5	< 0.5	4800	< 10	< 20	0.3	2.5
281026	3	200	20	3.8	3	20	0.8	0.7	< 0.5	< 0.5	< 5	3.5	2300	< 10	< 20	0.3	2.5
281027	3	< 100	21	3.9	3	15	0.7	0.67	< 0.5	< 0.5	< 5	< 0.5	1100	< 10	< 20	< 0.1	2.1
281028	< 1	< 100	31	3.8	1	6	< 0.5	0.48	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	0.3	1.7
281029	< 1	< 100	24	4.1	1	6	< 0.5	0.46	< 0.5	< 0.5	< 5	2.4	300	< 10	< 20	< 0.1	1
281030	< 1	< 100	27	4.3	< 1	6	< 0.5	0.22	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.8
281031	< 1	< 100	21	3.2	< 1	< 1	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
281032	< 1	< 100	25	2.9	< 1	3	< 0.5	0.17	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.3
281033	1	< 100	24	3.2	< 1	3	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.6
281034	1	< 100	36	1.8	< 1	3	< 0.5	0.29	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
281035	3	< 100	45	2.2	< 1	3	< 0.5	0.48	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	0.1	0.4
281036	< 1	< 100	29	4.6	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	2.7	300	< 10	< 20	< 0.1	0.4
281037	< 1	< 100	36	4.2	< 1	3	< 0.5	0.1	< 0.5	< 0.5	< 5	1.7	400	< 10	< 20	< 0.1	0.4
281038	1	< 100	49	4.3	1	6	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.1	0.7
281039	< 1	100	41	4.5	< 1	< 1	< 0.5	0.1	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
281040	< 1	< 100	48	4.5	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
281041	1	< 100	34	3.6	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
281042	< 1	< 100	29	2.4	< 1	< 1	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.3
281043	1	< 100	29	3.2	< 1	< 1	< 0.5	0.15	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
281044	< 1	< 100	34	2.4	< 1	1	< 0.5	0.25	< 0.5	< 0.5	< 5	< 0.5	200	< 10	< 20	< 0.1	0.3
281045	< 1	< 100	27	3.1	< 1	< 1	< 0.5	0.15	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.3
281046	< 1	< 100	31	4.3	1	4	< 0.5	0.25	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	< 0.1	0.7
281047	< 1	< 100	20	4.5	< 1	8	< 0.5	0.29	< 0.5	< 0.5	< 5	< 0.5	1500	< 10	< 20	< 0.1	1.1
281048	< 1	< 100	22	3.8	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	1.8	300	< 10	< 20	< 0.1	0.4
291001	< 1	800	6	< 0.5	3	22	1.7	0.84	3.6	< 0.5	< 5	< 0.5	18800	< 10	< 20	0.3	2.9
291002	< 1	700	6	1.1	3	32	2.1	1.22	3.2	< 0.5	< 5	< 0.5	19700	< 10	< 20	0.3	4.6
291003	4	400	< 1	1.1	4	43	2	1.3	4.6	< 0.5	< 5	< 0.5	17600	< 10	30	< 0.1	6.6
291004	4	300	14	2.8	15	22	5	3.63	2.1	< 0.5	< 5	5.3	10100	< 10	< 20	0.6	15.4
291005	7	300	18	2.9	15	29	1.7	3.15	1.3	< 0.5	< 5	< 0.5	5800	< 10	< 20	0.6	11.9
291007	< 1	400	8	4.1	27	99	3.5	3.96	3.5	< 0.5	< 5	< 0.5	24100	120	30	< 0.1	15.4
291008	< 1	500	7	2.1	10	87	2.7	3.02	6.4	< 0.5	< 5	3.9	22400	< 10	< 20	0.3	11.5
291009	6	400	15	2.8	18	154	< 0.5	3.78	2.1	< 0.5	< 5	7.7	10500	< 10	< 20	0.4	11.3
291010	3	400	25	4.2	8	56	1.3	2.13	2	< 0.5	< 5	< 0.5	8800	< 10	< 20	0.4	6
291011	1	200	24	3.9	3	29	0.8	0.74	0.8	< 0.5	< 5	2.9	3500	< 10	< 20	0.3	2.5
291012	< 1	300	22	5.2	< 1	8	< 0.5	1.02	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	< 0.1	1.1

Appendix C
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	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc
	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
291013	< 1	100	29	4.9	< 1	7	< 0.5	0.34	< 0.5	< 0.5	< 5	2.4	500	< 10	< 20	< 0.1	0.8
291014	< 1	< 100	18	4.5	< 1	6	< 0.5	0.28	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291015	< 1	< 100	39	2.2	< 1	4	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291016	< 1	< 100	18	3.5	< 1	4	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291017	< 1	< 100	24	5	< 1	3	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
291018	< 1	< 100	22	4.8	< 1	< 1	< 0.5	0.29	< 0.5	< 0.5	< 5	2.2	400	< 10	< 20	< 0.1	0.4
291019	< 1	< 100	25	3.6	< 1	3	< 0.5	0.11	< 0.5	< 0.5	< 5	2.1	400	< 10	< 20	< 0.1	0.3
291020	< 1	< 100	29	5	< 1	1	< 0.5	0.14	< 0.5	< 0.5	< 5	3.2	400	< 10	< 20	< 0.1	0.4
291021	< 1	< 100	45	5.3	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
291022	< 1	200	28	4.1	< 1	3	< 0.5	0.32	< 0.5	< 0.5	< 5	2.1	400	< 10	< 20	< 0.1	0.4
291023	< 1	< 100	39	3.9	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291024	< 1	< 100	31	3.2	< 1	3	< 0.5	0.2	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4
291025	< 1	< 100	48	2.2	< 1	3	< 0.5	0.43	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291026	< 1	< 100	56	2.2	< 1	4	< 0.5	0.43	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291027	< 1	< 100	34	3.2	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291028	< 1	< 100	43	4.3	< 1	4	< 0.5	0.08	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4
291029	< 1	< 100	21	5.9	< 1	4	< 0.5	0.18	< 0.5	< 0.5	< 5	5.2	300	< 10	< 20	0.1	0.7
291030	< 1	< 100	31	5.7	< 1	7	< 0.5	0.42	0.7	< 0.5	< 5	< 0.5	1300	30	< 20	< 0.1	1.8
291031	< 1	< 100	22	5	< 1	7	< 0.5	0.34	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.8

Appendix C
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	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm
	2	100	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP
271001	< 2	< 100	< 0.5	5.1	1.6	< 1	< 20	15.8	29	4	1.2	0.3	< 0.2	0.7	0.1	15.6	< 0.2
271002	< 2	500	< 0.5	5	2.1	< 1	< 20	48	83	19	3.2	0.7	< 0.2	0.7	< 0.1	15.4	< 0.2
271003	< 2	< 100	< 0.5	3.4	1.6	< 1	< 20	19.2	32	9	1.6	0.3	< 0.2	0.5	< 0.1	15.8	< 0.2
271004	< 2	400	< 0.5	7	3.8	< 1	< 20	64	104	23	4.6	1	0.6	1.1	0.2	15.9	< 0.2
271005	< 2	< 100	< 0.5	7.5	2.6	< 1	< 20	88	139	43	6.6	1.3	< 0.2	1.3	0.1	15.2	< 0.2
271006	< 2	< 100	< 0.5	2.2	1	< 1	< 20	8.6	16	5	0.8	< 0.2	< 0.2	0.2	< 0.1	15.8	< 0.2
271007	< 2	< 100	< 0.5	6.9	2.6	< 1	< 20	46.4	91	17	3	0.6	< 0.2	0.5	< 0.1	15.1	< 0.2
271008	< 2	< 100	< 0.5	2.6	< 0.1	< 1	< 20	41.6	86	21	3.2	0.6	0.3	0.5	< 0.1	15.6	< 0.2
271009	< 2	< 100	< 0.5	1.9	< 0.1	< 1	< 20	40	64	21	3	0.6	0.3	0.7	< 0.1	15.3	< 0.2
271010	< 2	< 100	< 0.5	0.8	3.2	2	< 20	5.3	8	< 3	0.5	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271011	< 2	< 100	< 0.5	0.8	4.2	< 1	20	5.6	11	< 3	0.5	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
271012	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.6	2	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271013	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.6	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15	< 0.2
271014	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
271015	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
271016	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
271017	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	2	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
271018	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271019	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	20	1.8	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
271020	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	20	1.8	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271021	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	50	1.6	< 1	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.6	< 0.2
271022	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.9	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.5	< 0.2
271023	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	2.2	6	< 3	0.3	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2
271024	< 2	< 100	< 0.5	2.6	2.9	< 1	20	12.5	21	5	1.1	0.2	< 0.2	0.4	< 0.1	15.1	< 0.2
271025	< 2	< 100	< 0.5	< 0.5	7	< 1	< 20	2.2	5	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15	< 0.2
271026	< 2	< 100	< 0.5	1.1	11.7	< 1	< 20	4.2	6	< 3	0.5	< 0.2	< 0.2	0.2	< 0.1	15	< 0.2
271027	< 2	< 100	< 0.5	< 0.5	0.6	< 1	< 20	1.4	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271028	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.8	5	< 3	0.2	< 0.2	< 0.2	0.1	< 0.1	15.2	< 0.2
271029	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.6	3	< 3	0.2	< 0.2	< 0.2	0.2	< 0.1	15	< 0.2
271030	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
271031	< 2	< 100	< 0.5	< 0.5	1.1	1	< 20	1.4	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281001	< 2	< 100	< 0.5	3.9	1.4	< 1	< 20	28	46	8	1.9	0.4	< 0.2	0.7	0.1	15.7	< 0.2
281002	< 2	< 100	< 0.5	6	2	< 1	< 20	49	88	38	6.7	1.4	0.8	1.5	0.1	15.9	< 0.2
281003	< 2	< 100	< 0.5	4.3	1.8	< 1	20	35	56	29	5.7	1.3	0.8	1.3	0.1	15.3	< 0.2
281004	< 2	< 100	< 0.5	3.1	1.7	< 1	< 20	44.8	41	39	7	1.7	0.8	2	0.3	15.4	< 0.2
281005	< 2	< 100	< 0.5	2.7	0.6	< 1	< 20	18.2	34	15	3.1	0.7	0.4	0.8	< 0.1	15.5	< 0.2
281006	< 2	< 100	< 0.5	5.2	2.4	< 1	< 20	95.2	137	81	15.4	3.5	1.4	2.5	0.3	15.3	< 0.2
281007	< 2	< 100	< 0.5	2.8	1.4	< 1	< 20	16.8	31	14	2.4	0.6	< 0.2	0.6	< 0.1	15.5	< 0.2
281008	< 2	< 100	< 0.5	2.4	1.4	13	30	15.4	27	6	2.2	0.6	< 0.2	1.1	0.1	15.2	< 0.2
281009	< 2	< 100	< 0.5	2.4	1.1	< 1	< 20	36.4	59	34	6.7	1.5	0.4	1	< 0.1	15.5	< 0.2
281010	< 2	< 100	< 0.5	3.8	< 0.1	< 1	< 20	29.4	94	24	4.3	0.7	< 0.2	0.8	< 0.1	15.2	0.5
281011	< 2	< 100	< 0.5	2.2	< 0.1	< 1	< 20	9.9	18	7	1.7	0.3	< 0.2	0.6	< 0.1	15.1	< 0.2
281012	2	< 100	< 0.5	1.3	0.6	< 1	< 20	3.8	8	4	0.7	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
281013	< 2	< 100	< 0.5	2.4	< 0.1	< 1	< 20	6.4	14	< 3	1.1	< 0.2	< 0.2	0.4	< 0.1	15.2	< 0.2
281014	< 2	< 100	< 0.5	0.8	< 0.1	< 1	< 20	1.8	4	< 3	0.4	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2

	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm
	2	100	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP
281015	< 2	< 100	< 0.5	1	0.6	< 1	< 20	3.9	6	< 3	0.6	< 0.2	< 0.2	0.3	< 0.1	15.7	< 0.2
281016	< 2	< 100	< 0.5	0.8	< 0.1	< 1	30	4.3	10	4	0.7	< 0.2	< 0.2	0.3	< 0.1	15.2	< 0.2
281017	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
281018	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2
281019	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
281020	< 2	< 100	< 0.5	0.8	< 0.1	< 1	< 20	23.8	29	14	2.4	0.4	< 0.2	0.6	< 0.1	15.7	< 0.2
281021	< 2	< 100	< 0.5	1	< 0.1	< 1	< 20	2.8	6	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2
281022	< 2	200	< 0.5	3.9	1.8	< 1	< 20	26.6	48	20	3.6	0.8	< 0.2	1	0.1	15.4	< 0.2
281023	< 2	< 100	< 0.5	3.5	1.8	< 1	40	15.4	28	7	2.2	0.6	< 0.2	1.8	0.3	15.9	< 0.2
281024	< 2	< 100	< 0.5	3.6	1	< 1	< 20	16.8	29	13	2.4	0.6	< 0.2	0.6	< 0.1	16	< 0.2
281025	< 2	< 100	< 0.5	2.7	1.3	< 1	< 20	28	50	18	2.9	0.6	< 0.2	0.6	< 0.1	15.9	< 0.2
281026	< 2	300	< 0.5	3.6	1.3	< 1	< 20	33.6	59	22	3.5	0.7	< 0.2	0.6	< 0.1	15.4	< 0.2
281027	< 2	< 100	< 0.5	3.5	0.8	< 1	< 20	35	63	22	3.4	0.6	< 0.2	0.8	< 0.1	15	< 0.2
281028	< 2	< 100	< 0.5	2.7	1.5	< 1	< 20	22.4	34	15	2	0.4	< 0.2	0.6	< 0.1	15.3	< 0.2
281029	< 2	< 100	< 0.5	1.4	< 0.1	< 1	< 20	6.9	11	6	0.8	< 0.2	< 0.2	0.3	< 0.1	15.4	< 0.2
281030	< 2	< 100	< 0.5	1.3	< 0.1	< 1	< 20	3.2	6	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2
281031	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.5	< 0.2
281032	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	< 1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
281033	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	4	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281034	< 2	< 100	< 0.5	< 0.5	0.4	< 1	< 20	1.3	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281035	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	14.5	< 0.2
281036	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15	< 0.2
281037	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281038	< 2	< 100	< 0.5	0.8	4.3	< 1	< 20	2.1	4	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.6	< 0.2
281039	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281040	< 2	< 100	< 0.5	< 0.5	0.6	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.6	< 0.2
281041	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	4	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
281042	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	1	< 3	0.1	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2
281043	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281044	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
281045	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15	< 0.2
281046	< 2	< 100	< 0.5	< 0.5	0.6	< 1	< 20	2.7	4	< 3	0.4	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
281047	< 2	< 100	< 0.5	1.3	0.6	< 1	< 20	4.3	7	< 3	0.6	< 0.2	< 0.2	0.3	< 0.1	15.6	< 0.2
281048	< 2	< 100	< 0.5	< 0.5	0.6	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2
291001	< 2	400	< 0.5	2.9	0.7	< 1	< 20	8.5	17	< 3	1.1	0.4	< 0.2	0.7	< 0.1	15.9	< 0.2
291002	< 2	700	< 0.5	3.1	1.1	< 1	< 20	12.3	24	10	1.7	0.6	< 0.2	0.7	< 0.1	15.2	< 0.2
291003	< 2	< 100	0.6	3.5	< 0.1	< 1	< 20	10.5	18	7	1.4	< 0.2	< 0.2	1.1	0.1	15.9	< 0.2
291004	< 2	< 100	< 0.5	3.1	2.4	< 1	60	32.2	35	24	5.3	1.3	< 0.2	2	0.3	15.8	< 0.2
291005	< 2	< 100	< 0.5	4.1	3.1	< 1	30	77	53	52	9.8	2	1.1	2.7	0.4	15.8	< 0.2
291007	< 2	< 100	< 0.5	6.2	< 0.1	< 1	< 20	36.4	74	28	5.6	1.3	< 0.2	2.1	0.3	15.7	< 0.2
291008	< 2	< 100	0.5	5.6	1.7	< 1	40	21	43	15	3.5	0.8	< 0.2	1.7	0.3	15.8	< 0.2
291009	< 2	< 100	< 0.5	5.2	2.9	< 1	60	32.2	71	24	4.6	1	< 0.2	1.8	0.3	15.3	< 0.2
291010	< 2	400	< 0.5	5.9	3.5	< 1	30	44.8	90	29	5.6	1.1	< 0.2	1.4	0.1	15.3	< 0.2
291011	2	< 100	< 0.5	2.9	1.7	< 1	< 20	21	36	14	2.2	0.4	< 0.2	0.6	< 0.1	15	< 0.2
291012	< 2	< 100	< 0.5	2	3.4	< 1	< 20	11.5	17	7	1.3	< 0.2	< 0.2	0.3	< 0.1	15.6	< 0.2

Appendix C
2011 Humus Sample Descriptions with pH Values and Assays

	Se	Sr	Ta	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm
	2	100	0.5	0.5	0.1	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2
Sample #	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP
291013	< 2	< 100	< 0.5	1.4	< 0.1	< 1	< 20	4.6	7	4	0.6	< 0.2	< 0.2	< 0.1	< 0.1	15	< 0.2
291014	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	2	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
291015	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
291016	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2
291017	< 2	< 100	< 0.5	< 0.5	0.3	< 1	20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2
291018	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2
291019	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
291020	< 2	< 100	< 0.5	< 0.5	2.7	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
291021	< 2	< 100	< 0.5	< 0.5	6	< 1	< 20	1.5	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
291022	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
291023	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
291024	< 2	< 100	< 0.5	< 0.5	0.1	< 1	< 20	1.3	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2
291025	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2
291026	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2
291027	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.4	4	< 3	0.3	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2
291028	< 2	< 100	< 0.5	< 0.5	< 0.1	< 1	< 20	1.5	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2
291029	< 2	< 100	< 0.5	< 0.5	9.1	< 1	< 20	2.7	6	< 3	0.6	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2
291030	< 2	< 100	< 0.5	1.7	2.9	< 1	< 20	7.1	10	4	1	< 0.2	< 0.2	0.3	< 0.1	15.5	< 0.2
291031	< 2	< 100	< 0.5	0.8	2.7	< 1	< 20	5.2	10	< 3	0.7	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2

	Cu	Mn	Mo	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm
	1	1	1	1	1	1
Sample #	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
271001	31	41	< 1	6	15	14
271002	25	240	1	12	10	20
271003	21	303	< 1	10	1	6
271004	63	575	1	24	3	19
271005	30	729	2	15	3	6
271006	8	79	< 1	5	< 1	7
271007	13	120	< 1	9	5	12
271008	12	117	< 1	7	2	10
271009	11	98	< 1	6	1	11
271010	7	70	< 1	4	< 1	5
271011	9	166	2	3	< 1	13
271012	4	105	2	2	< 1	6
271013	3	178	< 1	1	1	6
271014	3	104	< 1	1	< 1	7
271015	3	59	< 1	1	< 1	4
271016	2	31	< 1	1	< 1	5
271017	2	28	< 1	< 1	< 1	5
271018	2	36	< 1	< 1	< 1	8
271019	3	76	< 1	< 1	2	19
271020	1	83	< 1	< 1	1	11
271021	1	1780	< 1	2	2	47
271022	2	334	< 1	< 1	1	13
271023	6	250	< 1	2	1	20
271024	10	214	< 1	8	5	14
271025	6	53	4	2	< 1	8
271026	7	58	4	3	< 1	11
271027	2	66	2	< 1	< 1	9
271028	2	385	1	1	2	17
271029	2	140	< 1	< 1	1	11
271030	2	52	< 1	< 1	2	9
271031	3	25	1	< 1	2	17
281001	31	59	2	21	13	19
281002	29	893	< 1	13	5	9
281003	32	198	< 1	17	3	16
281004	57	310	< 1	10	3	4
281005	21	29	< 1	6	3	9
281006	34	54	< 1	10	25	6
281007	15	42	1	6	5	8
281008	22	99	< 1	6	5	14
281009	33	76	< 1	6	3	10
281010	9	7910	4	6	7	19
281011	5	496	< 1	4	2	4
281012	3	811	< 1	2	10	10
281013	4	749	< 1	2	5	8
281014	3	106	< 1	2	< 1	7

	Cu	Mn	Mo	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm
	1	1	1	1	1	1
Sample #	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
281015	3	602	< 1	3	2	7
281016	5	533	< 1	3	5	19
281017	2	184	< 1	2	< 1	12
281018	3	108	< 1	2	1	13
281019	4	42	2	4	< 1	11
281020	13	331	< 1	7	1	10
281021	7	47	2	2	2	5
281022	24	150	< 1	12	3	7
281023	36	163	< 1	7	7	25
281024	23	55	1	10	4	15
281025	21	282	1	14	2	18
281026	19	249	< 1	9	3	13
281027	22	253	< 1	9	2	16
281028	17	1330	< 1	8	2	8
281029	12	212	1	5	< 1	9
281030	7	478	1	4	< 1	12
281031	3	144	< 1	2	< 1	7
281032	4	133	< 1	1	< 1	13
281033	3	63	< 1	1	< 1	8
281034	3	127	< 1	1	< 1	6
281035	2	367	< 1	1	6	16
281036	2	50	< 1	1	< 1	22
281037	3	73	1	1	< 1	21
281038	5	81	< 1	2	< 1	14
281039	2	442	1	< 1	< 1	17
281040	2	58	1	< 1	2	7
281041	1	32	< 1	1	1	9
281042	1	63	< 1	< 1	< 1	8
281043	1	25	< 1	< 1	< 1	5
281044	1	46	< 1	< 1	< 1	5
281045	2	60	< 1	1	3	15
281046	7	20	< 1	3	< 1	20
281047	7	28	< 1	3	1	7
281048	4	62	1	2	8	10
291001	12	70	2	11	11	15
291002	7	79	2	7	9	18
291003	16	55	1	10	12	15
291004	64	183	1	23	1	22
291005	82	271	2	22	< 1	23
291007	49	1160	2	38	4	31
291008	17	192	3	27	4	24
291009	26	848	7	57	4	42
291010	37	298	1	23	3	34
291011	18	86	1	13	2	11
291012	13	862	< 1	6	< 1	5

	Cu	Mn	Mo	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm
	1	1	1	1	1	1
Sample #	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
291013	8	318	< 1	5	< 1	6
291014	5	250	1	3	1	7
291015	2	185	< 1	1	< 1	14
291016	2	69	< 1	1	< 1	6
291017	4	39	1	1	< 1	18
291018	2	48	2	< 1	< 1	19
291019	3	108	2	1	< 1	18
291020	4	49	3	2	< 1	16
291021	6	31	3	2	20	18
291022	2	723	< 1	< 1	< 1	9
291023	2	106	< 1	< 1	1	11
291024	2	38	< 1	< 1	49	5
291025	2	156	< 1	< 1	< 1	8
291026	2	152	< 1	< 1	< 1	8
291027	2	38	< 1	< 1	< 1	5
291028	3	38	< 1	< 1	< 1	9
291029	9	89	4	3	< 1	4
291030	10	26	< 1	4	1	6
291031	11	84	< 1	2	< 1	13

APPENDIX D
Activation Laboratories sample preparation and procedures

Code 1A2

Fire Assay

A 30 g sample is mixed with fluxes (materials such as borax, soda ash, silica) and lead. The sample with the fluxes is then added to a crucible, placed in a 1000°C to 1200°C assay furnace and left for a predetermined time, to melt or "fuse" the contents of the crucible. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. When cooled, the lead button is placed in a cupel which is designed to absorb the lead when heated to the melting point, leaving only a tiny metal bead of Ag which contains Au.

AA

The entire bead is dissolved in acid and the gold content is determined by AA (Atomic Absorption). AA is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light – atomic absorption. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species.

Code 1A2 (Fire Assay-AA) Detection Limits (ppb)

Element	Detection Limit	Upper Limit
Au	5	3,000

Note: If value exceeds upper limit, reanalysis by Fire Assay-Gravimetric (Code 1A3) is recommended.

Code Ultratrace-1

A 0.5 g sample is digested in aqua regia at 90°C in a microprocessor controlled digestion box for 2 hours. The solution is diluted and analyzed by ICP/MS using a Perkin Elmer SCIEX ELAN 6100. International certified reference materials USGS GXR-1, GXR-2, GXR-4 and GXR-6 are analyzed at the beginning and end of each batch of samples. Internal control standards are analyzed every 10 samples and a duplicate is run for every 10 samples.

Code Ultratrace-1 Elements and Detection Limits (ppm)

Element	Detection Limit	Upper Limit
Au*	0.2 ppb	20,000 ppb
Ag*	0.05	200
Cu	0.1	10,000
Cd	0.1	200
Mn*	1	10,000
Mo	0.01	1,000
Pb*	0.01	1,000
Ni*	0.1	5,000
Zn*	0.1	10,000
As*	0.1	10,000
B*	1	5,000
Ba*	0.5	6,000
Sb	0.02	500
W*	0.2	200
Al*	0.01%	10%
Be*	0.1	1,000
Bi	0.02	2,000
Ca*	0.01%	50%

Element	Detection Limit	Upper Limit
Ce*	0.01	200
Co	0.1	500
Cr*	0.5	500
Cs*	0.1	100
Eu*	0.1	100
Fe*	0.01%	50%
Ga*	0.02	500
Ge*	0.1	500
Hf*	0.1	500
In	0.02	100
K*	0.01%	5
La*	0.5	200
Li	0.5	1,000
Lu*	0.1	100
Mg*	0.01%	10%
Na*	0.001%	1%
Nb*	0.1	500

Element	Detection Limit	Upper Limit
Nd*	0.1	200
Rb*	0.1	500
Re	0.001	100
Se	0.1	1,000
Sm*	0.1	100
Sn*	0.05	200
Sr*	0.5	1,000
Ta*	0.05	50
Tb*	0.1	100
Te	0.02	500
Th*	0.1	200
Tl*	0.02	500
U*	0.1	200
V*	1	1,000
Y*	0.1	500
Yb*	0.1	200
Zr*	0.1	5,000

Note: * May not be total. Unaltered silicates and resistate minerals may not be dissolved.

Code 2A

Humus samples weighing 6 to 15 g are compressed under 30 tons of pressure to form a briquette (smaller samples are weighed in vials). Briquettes are stacked and irradiated at a thermal flux of 7×10^{12} n cm^{-2} s^{-1} for 15 minutes. After a 7 day decay samples are counted on a high purity Ge Detector with a resolution of better than 1.7 Kev for the 1332 Kev photopeak. Intensities for gamma rays are decay corrected and compared to a calibration developed from multiple certified reference materials.

Description of lines used is available in Hoffman, E.L. 1992. Instrumental Neutron Activation in Geoanalysis. Journal of Geochemical Exploration, volume 44, pp. 297-319.

Code 2A (Humus) Elements and Detection Limits (ppm)

Element	Detection Limit	Element	Detection Limit	Element	Detection Limit	Element	Detection Limit
Ag	2	Cs	0.5	Na	100	Sr	100
As	1	Eu	0.2	Nd	3	Ta	0.5
Au	1 ppb	Fe	0.05%	Ni	10	Tb	0.2
Ba	100	Hf	0.5	Rb	20	Th	0.5
Br	1	Hg	0.5	Sb	0.1	U	0.1
Ca	0.5%	Ir	5 ppb	Sc	0.1	W	1
Ce	1	La	0.1	Se	2	Yb	0.1
Co	1	Lu	0.01	Sm	0.1	Zn	20
Cr	1	Mo	0.5				

Code 2C1

Vegetation samples are ashed at 475° over a 24 hour period. The ash sample is digested with aqua regia for 2 hours at 95°C and analyzed by ICP using a Perkin Elmer Optima 3000.

Code 2C1 (Vegetation Ash-ICP/OES) Elements and Detection Limits (ppm)

Element	Detection Limit
Ag	0.2
Cu	1
Mo	1
Ni	1
Pb	1
Zn	1

APPENDIX E
Activation Laboratories Certificate of Analysis (Soil)
Certificate # A11-8837Final

Quality Analysis ... *Innovative Technologies*

Date Submitted: 16-Aug-11
Invoice No.: A11-8837
Invoice Date: 05-Oct-11
Your Reference: SKY LAKE

TRI Origin Exploration
125 Don Hillock Dr.
Aurora Ontario L4G 0H8

ATTN: Senior Geologist Frank Kendle

CERTIFICATE OF ANALYSIS

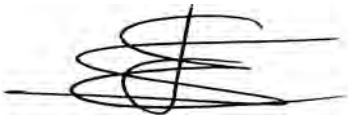
292 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-1-0.5g Aqua Regia ICP/MS

REPORT **A11-8837**

Notes:
Assays are recommended for values >10,000 for Cu and Au. Due to matrix change used in AR-MS analysis, the detection limts for Au has been modified to 5ppb. The AU from AR-MS is only semi-quantitative. For accurate Au data,fire assay is recommended.
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :



Emmanuel Eseme , Ph.D.
Quality Control

SCC Accredited LAB 265
LAB 266 Accrédité CCN

ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272001	< 5	21.0	0.2	< 1	0.023	0.35	1.50	0.05	0.16	0.18	2.4	61	49.8	166	3.12	9.8	22.1	14.8	17.5	5.95	< 0.1	6.4	0.4	7.1
272002	< 5	10.9	0.2	< 1	0.038	0.34	1.39	0.03	0.09	0.23	1.9	42	43.9	132	2.02	7.1	20.4	13.5	13.5	3.69	< 0.1	3.4	0.4	4.3
272003	< 5	16.2	0.2	< 1	0.047	0.29	1.43	0.03	0.11	0.23	3.0	57	41.1	132	1.87	5.3	17.0	13.5	21.9	5.16	< 0.1	4.4	0.6	4.9
272004	< 5	11.4	0.1	< 1	0.035	0.17	0.64	0.03	0.09	0.24	2.5	46	20.5	100	1.28	4.0	11.2	10.5	562	4.13	< 0.1	2.2	0.5	4.7
272005	< 5	6.0	0.2	< 1	0.023	0.11	1.15	0.03	0.07	0.26	2.1	37	18.8	77	1.96	3.5	9.7	5.33	5.1	2.27	< 0.1	2.4	0.6	3.4
272006	7	3.8	0.1	< 1	0.024	0.07	0.97	0.02	0.07	0.10	1.0	21	13.3	42	0.60	0.9	2.4	2.97	1.7	3.58	< 0.1	1.1	0.4	4.2
272007	< 5	13.8	0.3	1	0.037	0.25	1.43	0.03	0.08	0.20	2.4	56	47.1	126	2.17	6.7	16.4	7.40	13.3	4.05	< 0.1	2.7	0.2	9.3
272008	< 5	11.6	0.2	1	0.033	0.17	0.85	0.04	0.08	0.26	2.6	53	28.4	117	1.74	5.7	15.5	10.1	14.2	4.89	< 0.1	3.0	0.5	10.7
272009	< 5	11.8	0.2	< 1	0.024	0.14	0.66	0.04	0.09	0.24	1.9	38	18.5	113	2.07	5.1	11.5	5.42	8.6	3.10	< 0.1	2.2	0.2	10.6
272010	< 5	8.4	0.2	< 1	0.029	0.20	1.10	0.04	0.09	0.25	2.2	32	23.8	135	1.67	6.9	13.6	4.63	8.7	2.60	< 0.1	1.8	0.2	6.5
272011	< 5	15.9	0.2	1	0.036	0.33	1.42	0.04	0.21	0.17	2.6	88	41.0	164	2.59	8.0	17.2	13.1	25.3	8.33	< 0.1	4.7	0.3	9.9
272012	< 5	12.0	0.2	1	0.040	0.25	0.79	0.06	0.06	0.32	2.9	49	27.3	134	1.60	6.1	13.8	8.09	14.8	3.51	< 0.1	2.5	0.3	12.5
272013	5	10.1	0.2	< 1	0.032	0.23	0.87	0.06	0.09	0.35	2.5	37	25.6	126	1.83	7.3	18.1	9.53	13.1	2.65	< 0.1	5.3	0.4	9.3
272014	123	18.2	0.2	1	0.047	0.39	1.73	0.05	0.11	0.21	2.4	61	38.1	148	2.42	8.1	18.3	9.88	21.9	6.52	< 0.1	3.6	0.3	12.5
272015	< 5	12.7	0.2	1	0.042	0.28	0.82	0.05	0.11	0.26	2.9	84	37.3	143	2.14	5.6	12.8	8.19	23.3	6.45	< 0.1	2.6	0.4	17.4
272016	< 5	13.5	0.3	< 1	0.037	0.21	1.01	0.06	0.07	0.35	3.5	58	23.5	142	2.12	9.1	15.4	10.2	19.3	3.90	< 0.1	3.3	0.3	12.7
272017	19	8.2	0.1	< 1	0.033	0.22	0.80	0.07	0.11	0.30	2.7	81	21.5	144	3.21	7.4	11.5	11.5	14.9	4.68	< 0.1	4.4	0.1	12.6
272018	< 5	42.4	0.2	< 1	0.072	1.03	2.55	0.15	0.34	0.25	2.7	69	97.3	245	2.98	16.8	26.0	18.0	34.4	7.23	< 0.1	1.4	0.4	11.9
272019	< 5	32.7	0.2	< 1	0.165	0.83	2.23	0.12	0.05	0.73	11.7	232	7.6	407	5.78	23.5	14.6	60.2	80.4	9.85	0.1	0.6	0.3	12.6
272020	< 5	7.2	0.1	< 1	0.048	0.14	1.06	0.04	0.17	0.29	4.8	199	15.5	106	5.29	4.7	5.6	19.2	19.0	10.1	< 0.1	3.2	0.6	4.5
272021	< 5	21.4	0.1	< 1	0.040	0.31	1.03	0.05	0.09	0.40	3.9	56	19.0	182	1.86	9.5	14.9	11.9	23.4	4.39	< 0.1	1.7	0.2	6.7
272022	< 5	1.2	0.1	< 1	0.107	0.24	0.83	0.05	0.10	0.62	6.0	95	7.7	372	2.51	6.3	3.7	7.40	19.7	6.87	< 0.1	0.4	0.2	2.1
272023	< 5	26.5	0.4	2	0.066	0.57	2.06	0.06	0.13	0.39	6.2	93	43.0	305	3.77	16.7	23.3	69.6	57.2	7.78	0.2	10.0	0.6	10.1
272024	5	4.8	< 0.1	1	0.027	0.11	0.46	0.02	0.07	0.15	1.8	70	19.9	63	1.32	2.2	5.2	4.07	4.1	4.82	< 0.1	2.1	0.3	4.7
272025	< 5	16.0	0.1	< 1	0.032	0.29	0.92	0.05	0.09	0.30	2.9	75	40.9	194	3.25	7.5	17.8	9.02	21.3	5.23	< 0.1	1.3	0.1	8.7
272026	< 5	12.3	0.2	< 1	0.029	0.34	1.18	0.04	0.09	0.27	2.7	41	29.0	166	2.12	8.5	19.1	12.7	36.7	3.31	< 0.1	1.8	0.2	5.7
272027	< 5	11.8	0.2	< 1	0.039	0.24	1.29	0.03	0.08	0.21	2.4	49	34.8	109	1.62	4.2	11.1	6.58	12.3	4.41	< 0.1	1.7	0.3	9.2
272028	< 5	8.4	0.2	< 1	0.029	0.13	0.65	0.05	0.07	0.29	2.4	28	17.0	96	0.95	4.2	9.8	6.00	7.8	3.22	< 0.1	0.7	0.1	10.4
272029	5	15.3	0.1	< 1	0.033	0.38	0.86	0.08	0.09	0.44	2.6	36	24.0	234	1.69	7.5	15.3	5.54	19.7	3.41	< 0.1	1.1	< 0.1	11.5
272030	< 5	11.7	0.2	< 1	0.034	0.28	1.25	0.03	0.17	0.17	1.9	75	36.0	131	3.09	4.7	11.9	8.65	149	8.07	< 0.1	4.0	< 0.1	6.2
272031	< 5	10.7	0.2	< 1	0.036	0.21	1.11	0.03	0.13	0.19	2.5	77	34.7	103	2.09	3.4	10.0	9.58	15.0	7.46	< 0.1	2.1	0.2	5.0
272032	5	8.3	0.1	< 1	0.032	0.17	0.70	0.04	0.14	0.29	1.9	26	17.0	110	1.27	5.8	13.3	5.70	12.7	2.45	< 0.1	4.2	< 0.1	4.5
272033	< 5	10.1	0.1	< 1	0.035	0.28	0.74	0.05	0.09	0.37	2.1	31	24.5	214	1.48	5.4	13.3	6.61	14.8	2.73	< 0.1	2.4	< 0.1	11.5
272034	7	13.2	0.1	< 1	0.044	0.33	1.01	0.03	0.12	0.25	2.3	46	33.2	139	1.41	4.9	13.5	8.90	22.5	4.84	< 0.1	2.4	0.2	5.2
272035	< 5	18.5	0.3	< 1	0.041	0.37	1.17	0.04	0.09	0.31	3.8	64	46.5	182	2.26	10.2	27.0	19.8	22.7	4.88	< 0.1	2.6	0.5	6.2
272036	< 5	5.2	< 0.1	< 1	0.027	0.25	0.58	0.22	0.32	0.14	3.2	37	21.4	92	1.04	2.7	6.0	3.22	65.7	7.32	< 0.1	0.6	< 0.1	13.7
272037	< 5	4.2	< 0.1	< 1	0.025	0.14	0.92	0.03	0.22	0.12	1.4	43	18.1	61	0.84	1.6	6.7	6.06	12.2	8.66	< 0.1	1.3	< 0.1	3.9
272038	< 5	5.8	< 0.1	< 1	0.043	0.38	0.92	0.06	0.15	0.12	2.0	50	20.3	127	1.16	3.1	8.0	4.74	15.3	11.3	< 0.1	1.0	< 0.1	4.3
272039	14	21.8	0.3	2	0.038	0.29	1.63	0.04	0.16	0.26	3.1	74	40.5	125	2.45	6.2	17.3	14.8	23.6	7.25	< 0.1	2.5	0.3	9.3
272040	12	16.3	0.1	2	0.032	0.44	1.52	0.07	0.22	0.14	2.4	54	23.0	88	2.11	4.6	13.7	10.1	34.5	12.5	< 0.1	1.9	0.3	7.3
272041	12	5.7	< 0.1	1	0.034	0.20	0.73	0.03	0.15	0.17	2.0	68	28.0	93	1.39	2.8	7.8	6.19	10.9	7.16	< 0.1	1.9	0.1	5.5
272042	< 5	21.4	0.2	2	0.031	0.32	1.07	0.04	0.13	0.27	3.1	71	35.2	150	2.39	8.4	19.7	13.5	26.1	6.07	< 0.1	2.0	0.2	10.1
272043	< 5	11.6	0.2	< 1	0.028	0.29	1.02	0.07	0.15	0.60	3.4	49	28.2	400	2.94	13.0	20.1	18.8	19.9	3.09	0.1	6.8	0.6	11.5
272044	5	5.5	0.1	< 1	0.028	0.17	0.72	0.03	0.18	0.18	1.4	24	21.3	114	0.97	3.2	8.7	8.39	23.2	3.19	< 0.1	1.2	0.1	5.7
272045	< 5	7.3	0.2	< 1	0.048	0.28	0.92	0.03	0.06	0.31	2.2	33	27.9	132	1.00	4.8	15.0	8.57	14.4	2.90	< 0.1	1.3	0.1	5.9
272046	< 5	11.5	0.2	< 1	0.031	0.22	0.98	0.05	0.09	0.24	2.6	54	31.7	109	1.67	5.1	13.2	7.70	15.4	5.02	< 0.1	1.3	0.2	13.2
272047	< 5	18.1	0.2	< 1	0.023	0.24	1.13	0.05	0.09	0.27	2.7	45	29.0	120	1.96	7.8	21.3	11.3	18.5	4.37	< 0.1	1.5	0.3	9.3
272048	< 5	11.2	0.2	< 1	0.030	0.22	1.48	0.04	0.07	0.24	2.3	32	23.9	112	1.73	6.5	15.0	8.05	9.6	3.02	< 0.1	1.7	0.2	6.4
272049	16	3.3	< 0.1	< 1	0.029	0.14	0.55	0.03	0.10	0.16	1.4	36	18.0	81	0.76	1.9	4.9	2.52	5.2	4.58	< 0.1	1.4	0.2	5.9
272050	< 5	10.1	< 0.1	< 1	0.036	0.36	0.85	0.03	0.10	0.20	2.3	65	36.3	124	1.58	5.3	24.3	9.76	18.6	7.27	< 0.1	1.9	0.3	8.3
272051	< 5	7.8	0.1	< 1	0.027	0.22	0.63	0.04	0.08	0.25	2.2	54	19.5	104	1.49	4.3	11.1	6.38	13.5	5.42	< 0.1	1.7	0.2	8.5
272052	< 5	10.9	0.1	< 1	0.019	0.19	1.06	0.04	0.10	0.16	1.7	42	25.5	101	2.18	4.2	11.5	6.08	9.9	4.15	< 0.1	1.9	0.2	6.7

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272053	16	18.5	0.2	< 1	0.034	0.36	1.59	0.05	0.11	0.22	2.1	46	44.4	161	2.41	8.5	19.6	10.4	19.3	4.15	< 0.1	2.5	0.1	9.2
272054	< 5	18.3	0.3	2	0.039	0.27	1.34	0.05	0.08	0.29	2.9	57	40.1	193	2.12	8.4	18.3	9.82	20.1	4.50	< 0.1	2.3	0.4	12.1
272055	< 5	11.6	0.2	< 1	0.028	0.17	0.99	0.06	0.10	0.23	2.3	35	19.5	368	1.53	5.3	9.3	3.87	21.0	4.17	< 0.1	0.8	< 0.1	16.1
272056	< 5	9.3	0.1	< 1	0.027	0.21	0.92	0.03	0.09	0.17	1.6	38	24.8	128	1.93	4.6	10.4	5.01	11.9	3.65	< 0.1	1.9	< 0.1	7.8
272057	127	11.6	0.3	2	0.032	0.23	1.39	0.04	0.10	0.16	2.1	51	31.0	117	1.88	5.0	11.9	5.97	17.4	4.95	< 0.1	1.7	0.1	9.9
272058	5	9.4	0.3	1	0.025	0.17	0.83	0.04	0.07	0.24	2.3	43	28.0	157	1.37	5.0	12.7	5.92	19.1	3.72	< 0.1	1.8	0.2	10.3
272059	< 5	8.7	0.2	< 1	0.033	0.17	0.98	0.04	0.05	0.35	2.7	27	20.0	108	1.33	7.7	16.5	6.44	18.0	2.02	< 0.1	1.8	0.3	5.9
272060	< 5	8.0	0.2	2	0.027	0.24	0.56	0.07	0.06	0.62	2.1	22	19.3	133	1.15	4.0	9.9	7.74	11.1	1.80	< 0.1	1.7	0.2	10.2
272061	< 5	7.2	0.1	2	0.036	0.50	0.57	0.04	0.05	0.96	2.0	27	24.7	138	1.02	4.3	10.3	7.84	19.1	2.29	< 0.1	1.1	0.1	7.0
272062	7	8.3	0.2	2	0.041	0.30	0.59	0.05	0.05	0.62	3.1	36	32.7	131	1.29	6.4	16.5	12.8	45.2	2.69	< 0.1	1.3	0.3	9.6
272063	12	15.2	0.3	< 1	0.025	0.17	1.38	0.04	0.06	0.26	2.4	34	29.0	114	1.86	6.7	16.7	6.55	11.6	3.15	< 0.1	1.7	0.2	8.1
272064	7	13.5	0.2	< 1	0.030	0.26	1.35	0.06	0.12	0.28	2.5	45	32.8	156	2.31	8.2	19.9	8.86	15.9	4.52	< 0.1	5.7	0.1	11.5
272065	< 5	10.7	0.2	2	0.038	0.27	0.92	0.04	0.08	0.35	2.5	37	31.7	125	1.33	6.2	17.7	8.16	16.0	3.08	< 0.1	5.7	0.5	7.9
272066	< 5	16.7	0.2	< 1	0.024	0.22	0.98	0.05	0.11	0.25	2.2	41	23.0	123	1.81	5.3	12.1	4.07	22.4	4.85	< 0.1	2.1	0.3	12.9
272067	10	13.4	0.2	< 1	0.020	0.26	1.29	0.05	0.45	0.23	1.7	35	27.1	132	2.10	6.3	17.4	6.20	18.9	3.85	< 0.1	2.5	0.2	8.9
272068	< 5	12.5	0.2	< 1	0.037	0.41	1.15	0.05	0.09	0.30	2.0	41	41.9	142	1.87	7.1	21.1	8.59	20.4	3.90	< 0.1	2.5	0.2	8.0
272069	< 5	15.7	0.2	3	0.038	0.29	1.08	0.05	0.10	0.25	2.5	58	38.4	132	2.18	5.5	16.3	6.53	21.6	5.18	< 0.1	3.6	0.5	12.5
272070	< 5	14.8	0.2	2	0.028	0.22	0.84	0.07	0.09	0.37	2.7	37	25.9	117	1.73	5.4	14.0	5.14	25.3	4.56	< 0.1	1.7	0.4	13.9
272071	6	8.7	0.2	< 1	0.021	0.24	1.04	0.06	0.07	0.26	1.9	26	29.7	112	1.45	6.0	17.6	5.69	16.0	2.79	< 0.1	1.3	0.2	10.1
272072	10	9.4	0.2	1	0.031	0.27	1.21	0.05	0.09	0.24	1.7	32	29.2	123	1.58	6.0	15.5	6.14	15.0	3.42	< 0.1	2.1	0.1	7.7
272073	11	8.7	0.3	2	0.035	0.27	1.28	0.04	0.08	0.28	2.4	38	34.4	149	1.45	7.6	18.8	9.33	22.3	3.33	< 0.1	2.3	0.2	9.6
272074	7	17.4	0.2	2	0.031	0.27	1.03	0.05	0.11	0.32	2.8	54	34.3	157	2.20	6.6	16.1	9.45	22.7	5.87	< 0.1	2.3	0.3	14.9
272075	< 5	11.6	0.2	< 1	0.027	0.20	1.14	0.05	0.08	0.24	2.2	35	23.5	106	1.81	6.2	16.2	6.00	14.9	3.60	< 0.1	1.8	0.2	9.5
272076	< 5	8.3	0.1	< 1	0.028	0.16	0.97	0.04	0.08	0.17	1.5	29	20.9	90	1.38	2.7	6.7	2.92	11.0	4.05	< 0.1	1.2	0.1	9.4
272077	11	11.8	0.3	3	0.025	0.25	1.07	0.05	0.05	0.27	2.2	30	24.3	126	1.59	6.0	17.0	8.62	18.9	3.28	< 0.1	2.5	0.1	8.2
272078	< 5	9.1	0.2	< 1	0.028	0.22	1.00	0.05	0.05	0.29	2.2	27	25.4	133	1.44	6.9	17.7	10.6	13.0	2.20	< 0.1	2.1	0.2	7.2
272079	7	8.7	0.3	< 1	0.029	0.21	1.21	0.04	0.06	0.28	1.9	24	23.8	113	1.41	7.1	17.5	11.0	11.5	2.19	< 0.1	2.1	0.2	5.5
272080	< 5	11.7	0.2	1	0.028	0.29	1.41	0.03	0.12	0.19	1.9	42	32.7	133	1.84	5.8	13.7	9.83	19.7	4.70	< 0.1	2.2	0.2	7.1
272081	15	14.2	0.3	1	0.032	0.34	1.25	0.04	0.10	0.30	2.8	50	60.9	136	1.85	8.9	30.4	15.2	22.0	4.56	< 0.1	2.6	0.2	6.9
272082	7	14.0	0.2	< 1	0.023	0.17	0.89	0.04	0.07	0.21	2.0	33	22.3	101	1.65	4.9	13.6	7.72	15.4	3.47	< 0.1	2.0	0.1	8.8
272083	< 5	13.7	0.2	< 1	0.031	0.29	1.46	0.04	0.08	0.27	2.2	34	35.1	152	2.01	10.1	23.3	14.7	18.6	3.32	< 0.1	2.3	0.2	7.1
272084	12	9.5	0.2	1	0.034	0.33	0.96	0.05	0.07	0.47	1.9	31	30.9	141	1.32	5.4	12.3	8.24	19.2	3.32	< 0.1	1.3	0.2	9.0
272085	< 5	6.8	0.1	1	0.028	0.16	0.54	0.03	0.07	0.15	1.4	45	28.7	75	1.91	2.9	8.1	3.31	11.2	4.09	< 0.1	1.8	0.1	8.2
272086	22	19.3	0.3	2	0.031	0.30	1.16	0.06	0.09	0.26	2.4	53	41.4	129	2.34	7.3	22.0	9.27	22.9	5.45	< 0.1	2.3	0.2	13.3
272087	7	17.8	0.2	< 1	0.038	0.25	1.14	0.06	0.08	0.37	2.2	32	23.4	122	1.79	5.8	16.9	5.31	130	3.55	< 0.1	1.8	0.2	12.6
272088	6	9.6	0.2	< 1	0.021	0.24	1.04	0.05	0.07	0.21	1.5	27	23.1	109	1.44	5.0	11.7	3.23	17.4	3.23	< 0.1	1.2	< 0.1	10.5
272089	8	24.7	0.3	1	0.035	0.92	2.06	0.05	0.09	0.31	2.4	56	75.2	227	2.55	11.3	41.6	11.5	41.6	6.98	< 0.1	2.0	0.3	8.7
272090	8	14.4	0.3	2	0.030	0.31	1.12	0.05	0.07	0.27	2.6	39	32.5	124	1.63	5.8	18.0	6.37	38.8	4.72	< 0.1	1.2	0.2	14.4
272091	10	10.3	0.2	< 1	0.027	0.22	1.29	0.05	0.10	0.20	1.8	31	24.8	217	1.69	6.6	13.3	4.82	49.3	3.91	< 0.1	1.1	< 0.1	12.7
272092	15	11.2	0.2	1	0.030	0.27	1.23	0.04	0.10	0.17	1.8	42	29.8	107	1.87	4.5	12.3	6.20	29.5	6.38	< 0.1	1.9	0.1	9.1
272093	27	8.5	0.2	< 1	0.031	0.16	0.87	0.04	0.08	0.21	2.0	34	22.5	144	1.25	4.1	7.8	3.96	27.6	5.03	< 0.1	1.2	0.4	10.7
272094	10	10.6	0.2	< 1	0.026	0.20	0.99	0.04	0.08	0.34	2.2	34	24.4	119	1.95	6.1	14.6	9.84	33.5	3.41	< 0.1	2.3	0.2	7.2
272095	13	13.0	0.2	1	0.023	0.25	1.31	0.05	0.11	0.22	1.7	36	25.8	131	2.24	6.2	16.1	6.77	19.4	4.74	< 0.1	3.0	< 0.1	9.2
272096	15	10.5	0.1	2	0.027	0.27	0.89	0.05	0.11	0.25	2.3	45	29.9	122	1.76	5.0	15.3	9.95	23.3	5.63	< 0.1	5.7	< 0.1	12.3
272097	7	14.0	0.3	1	0.026	0.26	1.31	0.05	0.06	0.30	2.4	32	31.1	114	1.74	9.6	27.2	13.1	16.7	2.86	< 0.1	3.0	0.2	8.3
272098	20	10.1	0.2	< 1	0.022	0.21	1.15	0.05	0.09	0.21	1.6	35	24.4	98	2.18	5.2	14.6	6.40	12.5	4.46	< 0.1	2.6	< 0.1	7.5
272099	< 5	11.9	0.2	1	0.029	0.33	1.20	0.05	0.13	0.18	1.6	45	32.1	197	2.19	5.2	13.3	7.99	23.3	6.15	< 0.1	2.9	< 0.1	10.8
272100	8	12.4	0.2	1	0.034	0.28	1.03	0.04	0.07	0.22	2.0	37	34.7	126	1.63	5.5	18.3	8.25	16.3	4.10	< 0.1	2.7	0.1	8.8
272101	5	11.8	0.2	1	0.028	0.25	0.93	0.05	0.08	0.26	2.4	41	28.1	107	1.79	5.9	18.4	9.56	14.9	4.55	< 0.1	2.2	0.2	10.6
272102	10	7.5	0.1	< 1	0.028	0.20	0.72	0.05	0.07	0.30	2.2	25	19.7	150	1.40	5.0	12.8	7.59	15.8	2.60	< 0.1	1.8	0.2	5.5
282001	24	13.6	0.2	< 1	0.030	0.30	1.60	0.03	0.11	0.19	1.6	33	25.2	108	1.76	4.9	12.9	12.6	16.9	3.93	< 0.1	2.5	0.2	3.3
282002	6	21.9	0.3	< 1	0.023	0.35	2.10	0.07	0.18	0.16	2.7	61	30.5	120	2.50	6.2	12.7	15.6	41.1	9.12	< 0.1	2.2	0.4	8.6

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282003	5	7.4	0.2	< 1	0.019	0.13	1.19	0.02	0.06	0.18	1.5	22	17.9	54	1.41	2.7	7.8	8.06	16.2	2.80	< 0.1	2.6	0.6	1.8
282004	11	11.5	0.2	< 1	0.024	0.31	1.39	0.03	0.13	0.17	1.6	43	25.2	101	2.47	5.5	15.1	12.7	20.1	5.48	< 0.1	4.6	0.4	3.3
282005	5	14.2	0.2	< 1	0.031	0.33	1.72	0.03	0.13	0.15	1.9	48	34.0	107	2.10	5.1	13.0	11.5	21.5	5.46	< 0.1	5.7	0.2	3.9
282006	7	12.5	0.2	< 1	0.029	0.22	1.24	0.02	0.09	0.17	2.3	32	24.6	85	1.48	4.2	12.1	13.6	16.0	3.73	< 0.1	2.7	0.5	2.3
282007	< 5	14.7	0.2	< 1	0.022	0.22	1.12	0.05	0.24	0.19	1.9	55	24.4	84	2.47	4.8	11.6	6.69	22.0	7.48	< 0.1	4.5	0.2	9.5
282008	< 5	8.9	< 0.1	< 1	0.021	0.28	1.07	0.06	0.15	0.19	1.5	45	21.1	105	2.12	4.9	10.2	4.84	23.4	7.79	< 0.1	1.8	< 0.1	12.4
282009	< 5	13.4	0.2	1	0.029	0.26	1.13	0.04	0.09	0.18	1.3	26	20.3	100	1.36	7.9	17.8	10.8	19.8	3.49	< 0.1	3.0	0.2	8.1
282010	< 5	10.4	0.1	< 1	0.032	0.37	0.86	0.03	0.09	0.26	2.1	49	30.7	120	1.58	5.5	14.8	10.0	24.4	4.67	< 0.1	2.9	0.1	5.3
282011	< 5	13.4	0.4	< 1	0.026	0.24	1.82	0.02	0.09	0.21	2.5	40	27.0	74	2.07	4.6	11.6	11.0	15.1	4.59	< 0.1	3.3	0.3	2.6
282012	< 5	8.0	0.1	< 1	0.022	0.25	0.81	0.03	0.12	0.26	1.8	25	21.0	98	1.31	4.6	18.3	17.9	14.1	3.27	< 0.1	2.0	0.2	2.6
282013	< 5	8.7	0.2	< 1	0.024	0.39	1.64	0.08	0.12	0.18	1.8	41	35.3	99	2.04	5.1	12.3	8.67	17.6	6.73	< 0.1	1.9	0.2	4.2
282014	< 5	7.1	0.1	< 1	0.036	0.32	0.58	0.04	0.06	0.38	2.2	27	20.8	120	1.17	5.5	10.5	16.2	18.8	2.65	< 0.1	1.8	< 0.1	6.2
282015	6	11.9	0.1	< 1	0.033	0.42	1.21	0.04	0.11	0.35	3.3	72	23.9	138	1.69	6.0	14.3	17.3	33.5	8.80	< 0.1	1.6	0.1	4.6
282016	6	11.4	< 0.1	< 1	0.031	0.34	0.92	0.13	0.13	0.10	1.8	28	20.5	74	1.10	2.6	10.0	4.34	14.4	7.86	< 0.1	2.8	< 0.1	6.0
282017	< 5	12.5	0.2	< 1	0.030	0.29	1.46	0.03	0.13	0.21	1.7	41	30.6	103	2.10	6.5	15.7	10.3	19.8	5.35	< 0.1	3.2	< 0.1	6.0
282018	< 5	15.2	0.2	< 1	0.030	0.34	1.08	0.04	0.10	0.23	2.0	54	31.2	122	2.34	6.6	17.7	13.1	26.2	6.26	< 0.1	2.8	0.2	8.1
282019	< 5	13.5	0.2	< 1	0.037	0.30	1.32	0.03	0.10	0.25	1.9	49	31.0	98	2.24	6.6	21.1	9.09	21.8	5.80	< 0.1	2.4	0.3	4.9
282020	< 5	13.0	0.2	< 1	0.033	0.49	1.42	0.03	0.16	0.24	1.8	36	34.0	130	1.92	5.8	17.9	16.2	29.6	4.93	< 0.1	6.0	0.3	3.4
282021	< 5	20.4	0.3	< 1	0.032	0.55	1.59	0.03	0.12	0.28	2.9	47	35.9	178	2.35	7.8	24.3	30.5	44.7	5.94	< 0.1	3.1	0.5	4.0
282022	< 5	13.6	0.1	< 1	0.020	0.21	1.41	0.03	0.13	0.18	2.1	47	28.8	73	2.45	3.6	12.0	11.6	21.7	6.94	< 0.1	3.0	0.4	4.3
282023	< 5	7.7	0.1	< 1	0.021	0.21	1.09	0.03	0.09	0.17	1.2	22	16.7	79	1.53	3.4	9.0	4.82	11.7	2.80	< 0.1	1.9	0.1	5.0
282024	< 5	6.5	0.2	< 1	0.027	0.20	1.03	0.03	0.10	0.16	1.3	31	17.7	72	1.27	2.5	6.1	2.90	10.7	5.08	< 0.1	1.3	< 0.1	7.2
282025	< 5	4.6	< 0.1	< 1	0.017	0.13	0.49	0.02	0.06	0.12	0.8	16	11.4	40	0.48	1.3	3.9	3.74	10.3	3.71	< 0.1	0.7	< 0.1	6.2
282026	< 5	17.1	0.2	< 1	0.018	0.31	1.14	0.05	0.10	0.28	1.7	36	24.4	99	2.16	5.6	15.7	10.7	26.2	3.85	< 0.1	1.7	0.5	6.9
282027	< 5	8.2	< 0.1	< 1	0.021	0.36	0.85	0.03	0.08	0.28	1.5	22	15.3	111	1.24	5.2	13.6	10.5	16.6	3.62	< 0.1	1.4	< 0.1	5.2
282028	< 5	11.9	0.1	< 1	0.030	0.51	1.10	0.03	0.12	0.23	1.5	40	33.8	135	1.80	7.0	21.6	14.1	30.5	5.23	< 0.1	1.6	0.2	4.4
282029	< 5	11.2	0.1	< 1	0.029	0.32	0.88	0.03	0.10	0.21	1.7	49	20.8	89	1.69	4.0	10.7	15.3	19.3	6.89	< 0.1	2.0	0.2	4.7
282030	< 5	17.2	0.2	< 1	0.040	0.34	1.46	0.06	0.11	0.33	4.0	81	12.1	121	3.11	7.8	8.4	27.1	33.4	9.07	< 0.1	1.2	0.3	9.5
282031	< 5	19.2	0.2	< 1	0.024	0.33	1.58	0.05	0.18	0.26	2.0	55	23.2	108	3.22	7.3	16.6	20.0	27.9	8.63	< 0.1	1.8	0.2	8.7
282032	6	6.6	0.1	< 1	0.052	0.49	1.79	0.06	0.18	0.34	3.3	181	9.1	178	5.37	9.8	8.0	22.8	46.9	17.4	< 0.1	1.9	0.2	7.9
282033	< 5	15.5	0.2	5	0.083	0.66	1.70	0.07	0.11	0.64	7.3	166	41.9	242	5.94	14.2	27.8	27.9	61.9	13.7	< 0.1	1.1	0.3	7.2
282034	< 5	7.2	0.2	< 1	0.019	0.14	1.28	0.04	0.11	0.16	1.7	34	19.3	64	1.75	2.2	6.0	4.57	19.1	6.31	< 0.1	1.3	0.1	12.6
282035	< 5	10.3	0.2	< 1	0.022	0.19	1.49	0.04	0.13	0.15	1.2	29	19.7	104	1.79	3.3	6.4	4.51	33.1	5.60	< 0.1	1.4	< 0.1	10.2
282036	5	9.6	0.2	< 1	0.025	0.21	1.23	0.03	0.13	0.19	1.3	41	26.3	136	1.84	3.8	7.9	6.15	39.4	5.41	< 0.1	1.4	0.1	7.4
282037	< 5	7.4	0.2	< 1	0.021	0.13	0.69	0.03	0.07	0.16	1.2	29	16.1	60	1.24	2.3	5.9	3.51	17.3	4.52	< 0.1	1.1	0.2	7.7
282038	< 5	20.3	0.2	1	0.027	0.40	1.10	0.07	0.10	0.47	2.2	30	21.3	147	1.51	6.9	16.9	12.4	39.0	5.45	< 0.1	0.9	0.1	28.3
282039	11	9.8	0.1	< 1	0.024	0.29	1.04	0.04	0.09	0.40	1.5	24	20.1	117	1.47	5.4	15.5	10.7	20.1	3.53	< 0.1	1.6	0.1	6.4
282040	< 5	11.4	0.3	1	0.031	0.31	1.76	0.04	0.09	0.21	1.8	34	32.3	107	1.96	5.6	16.3	7.42	18.1	4.57	< 0.1	2.3	0.1	7.3
282041	< 5	12.7	0.2	2	0.029	0.44	1.17	0.04	0.11	0.19	2.0	71	53.5	118	2.79	5.9	25.1	12.7	31.5	9.71	< 0.1	3.5	0.2	11.1
282042	< 5	6.8	0.1	< 1	0.020	0.15	0.61	0.04	0.08	0.20	1.5	28	13.6	111	1.25	2.7	7.8	4.16	21.4	4.41	< 0.1	1.0	< 0.1	9.6
282043	< 5	10.9	0.1	< 1	0.021	0.28	1.06	0.06	0.11	0.19	1.6	36	17.0	119	2.17	4.6	9.4	6.25	23.0	5.94	< 0.1	1.4	< 0.1	11.2
282044	6	9.4	0.2	< 1	0.025	0.27	1.16	0.04	0.12	0.16	1.5	34	25.1	160	1.68	3.8	9.0	3.96	19.9	6.70	< 0.1	1.5	< 0.1	11.2
282045	7	6.9	< 0.1	1	0.026	0.21	0.71	0.04	0.10	0.15	1.3	36	20.9	80	1.28	2.3	6.9	3.22	17.8	5.72	< 0.1	1.3	0.1	13.6
282046	< 5	10.1	0.1	< 1	0.023	0.24	0.87	0.06	0.09	0.23	1.8	32	22.0	108	1.77	4.6	14.2	6.57	16.9	4.27	< 0.1	2.0	< 0.1	10.9
282047	< 5	6.1	0.1	< 1	0.024	0.21	0.82	0.04	0.10	0.16	1.2	25	17.7	94	1.23	2.7	7.0	2.61	14.6	4.67	< 0.1	1.0	< 0.1	7.6
282048	< 5	10.5	0.3	2	0.029	0.28	1.18	0.04	0.09	0.21	1.9	40	28.5	101	1.80	4.2	11.4	4.91	24.3	6.13	< 0.1	2.0	0.1	8.6
282049	< 5	13.6	0.2	2	0.028	0.27	0.96	0.05	0.09	0.26	2.3	36	26.6	162	1.60	4.7	14.8	6.39	34.7	5.75	< 0.1	1.4	0.1	14.2
282050	< 5	8.1	< 0.1	< 1	0.019	0.18	0.70	0.05	0.09	0.23	1.6	22	13.2	88	1.05	2.7	7.8	3.42	29.2	4.93	< 0.1	0.5	< 0.1	15.6
282051	< 5	6.1	< 0.1	< 1	0.026	0.25	0.78	0.04	0.13	0.18	1.1	25	19.8	108	0.99	2.6	7.8	4.04	30.7	5.76	< 0.1	4.0	0.1	11.2
282052	< 5	7.9	0.1	< 1	0.026	0.33	0.79	0.04	0.10	0.23	1.6	31	38.3	83	1.12	3.6	13.4	7.39	24.2	6.93	< 0.1	1.7	< 0.1	7.7
282053	< 5	13.1	0.2	< 1	0.023	0.23	0.97	0.04	0.10	0.24	1.9	36	22.6	93	1.87	4.3	12.1	4.96	32.7	5.76	< 0.1	1.4	< 0.1	8.9
282054	< 5	7.0	0.2	< 1	0.025	0.23	0.77	0.04	0.07	0.38	1.7	22	17.7	115	1.40	4.8	13.8	10.3	13.2	2.29	< 0.1	1.8	0.2	6.0

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282055	< 5	2.8	< 0.1	< 1	0.023	0.16	0.59	0.02	0.11	0.11	0.8	34	15.7	75	1.06	1.7	5.0	2.96	8.8	5.57	< 0.1	1.6	< 0.1	4.4
282056	10	4.9	< 0.1	< 1	0.027	0.21	0.74	0.03	0.12	0.13	1.5	65	27.2	83	1.75	2.6	7.9	4.92	12.6	8.60	< 0.1	2.8	0.1	5.5
282057	< 5	6.8	0.1	1	0.022	0.18	0.71	0.04	0.09	0.20	1.6	39	18.3	74	1.41	2.9	9.8	4.33	12.7	5.51	< 0.1	1.5	0.1	9.3
282058	< 5	9.5	0.1	< 1	0.020	0.21	0.86	0.05	0.10	0.21	1.6	31	20.4	90	1.74	3.6	11.2	3.96	17.0	4.82	< 0.1	1.5	< 0.1	10.0
282059	< 5	6.8	0.2	< 1	0.026	0.22	0.91	0.04	0.08	0.20	1.5	27	20.0	100	1.18	2.7	7.7	3.15	20.4	4.84	< 0.1	1.1	< 0.1	10.2
282060	9	14.1	0.2	2	0.025	0.28	1.00	0.06	0.10	0.29	2.0	42	26.3	129	2.03	4.6	15.3	6.31	31.9	5.51	< 0.1	1.9	0.1	13.3
282061	< 5	7.4	0.1	< 1	0.016	0.15	0.63	0.04	0.10	0.25	1.3	22	12.6	174	1.10	2.3	6.3	2.28	22.3	4.27	< 0.1	1.0	< 0.1	8.9
282062	< 5	12.1	0.2	< 1	0.027	0.36	1.45	0.06	0.09	0.27	1.6	30	31.9	143	1.91	6.4	22.2	9.62	25.7	4.61	< 0.1	2.3	< 0.1	11.4
282063	< 5	6.0	< 0.1	< 1	0.027	0.21	0.71	0.05	0.09	0.20	1.2	28	21.5	86	1.17	2.2	6.8	3.23	23.0	5.34	< 0.1	1.3	< 0.1	14.2
282064	< 5	9.6	0.2	1	0.026	0.21	0.91	0.05	0.07	0.25	1.9	36	23.7	101	1.54	3.9	11.5	4.94	19.4	4.65	< 0.1	1.6	< 0.1	9.1
282065	< 5	10.7	0.2	< 1	0.020	0.19	0.86	0.05	0.09	0.23	1.7	32	18.0	120	1.82	3.6	10.8	5.47	16.9	4.86	< 0.1	1.6	< 0.1	10.9
282066	6	8.2	0.1	< 1	0.019	0.24	1.05	0.04	0.10	0.19	1.1	29	22.4	170	1.84	4.0	11.4	5.79	19.8	4.91	< 0.1	1.8	< 0.1	9.2
282067	8	10.6	0.2	1	0.030	0.29	1.21	0.04	0.10	0.22	1.7	44	30.9	105	1.93	4.6	13.2	6.15	19.6	6.38	< 0.1	2.5	0.2	9.4
282068	< 5	9.2	0.1	< 1	0.025	0.23	0.76	0.05	0.09	0.24	1.8	34	23.0	374	1.33	4.2	11.2	6.78	25.8	4.95	< 0.1	2.3	0.1	13.7
282069	< 5	9.1	0.2	< 1	0.020	0.18	0.83	0.04	0.08	0.22	1.8	29	19.1	87	1.63	4.4	13.2	6.25	14.7	3.84	< 0.1	2.0	0.1	8.9
282070	< 5	6.0	< 0.1	< 1	0.023	0.19	0.87	0.03	0.09	0.20	1.2	26	16.5	84	1.34	2.9	7.9	3.44	36.4	4.49	< 0.1	1.2	< 0.1	6.7
282071	< 5	10.4	0.2	< 1	0.032	0.30	1.40	0.03	0.10	0.22	1.7	42	32.8	98	2.07	4.7	14.5	7.31	18.9	5.42	< 0.1	2.4	0.2	5.9
282072	5	12.1	0.2	< 1	0.028	0.31	0.92	0.08	0.09	0.20	1.7	49	27.0	106	1.82	4.1	13.3	7.03	24.1	7.07	< 0.1	2.9	< 0.1	12.3
282073	< 5	8.0	0.2	2	0.024	0.17	0.69	0.04	0.08	0.21	1.7	36	17.8	83	1.56	2.7	7.8	4.05	11.3	5.33	< 0.1	1.8	0.2	5.8
282074	6	12.1	0.2	< 1	0.028	0.33	1.30	0.04	0.11	0.23	1.5	43	34.5	157	2.20	5.5	16.5	10.1	23.2	5.99	< 0.1	2.3	0.1	8.2
282075	< 5	5.0	< 0.1	< 1	0.023	0.14	0.61	0.03	0.09	0.15	1.3	30	16.7	88	0.92	2.2	5.8	3.70	15.6	4.73	< 0.1	1.1	< 0.1	8.0
282076	< 5	5.0	< 0.1	< 1	0.021	0.14	0.56	0.03	0.08	0.19	1.5	28	15.8	80	1.15	2.4	7.4	5.10	10.0	4.30	< 0.1	1.1	< 0.1	8.9
282077	< 5	10.1	0.2	< 1	0.020	0.23	1.13	0.04	0.10	0.21	1.5	33	21.9	120	1.95	4.3	12.7	6.18	15.9	4.87	< 0.1	1.5	< 0.1	8.2
282078	< 5	11.0	0.2	1	0.028	0.30	1.30	0.04	0.12	0.21	1.5	46	30.4	122	2.46	5.3	12.9	6.58	19.0	5.26	< 0.1	2.3	< 0.1	7.9
282079	< 5	14.5	0.2	2	0.031	0.31	1.23	0.05	0.09	0.25	2.0	44	31.7	113	1.91	5.4	15.4	8.66	26.1	5.66	< 0.1	2.8	0.3	10.0
282080	< 5	12.4	0.2	1	0.028	0.43	0.93	0.06	0.18	0.32	2.1	51	51.6	151	2.04	6.2	26.5	10.3	33.2	6.07	< 0.1	3.0	< 0.1	15.4
282081	< 5	10.4	0.2	< 1	0.023	0.25	1.03	0.05	0.07	0.27	1.7	31	23.5	113	2.19	5.7	17.1	7.07	25.0	3.44	< 0.1	3.1	0.1	8.8
282082	< 5	6.5	0.1	< 1	0.023	0.15	0.86	0.04	0.11	0.14	1.1	33	16.6	111	1.23	2.1	4.7	2.25	14.6	5.55	< 0.1	0.9	< 0.1	10.5
282083	< 5	11.3	0.2	< 1	0.027	0.20	1.09	0.04	0.10	0.21	2.0	39	23.0	92	1.60	4.0	10.8	5.91	19.6	5.02	< 0.1	4.5	0.1	11.2
282084	9	11.0	0.2	< 1	0.024	0.24	1.27	0.04	0.14	0.21	1.6	43	25.7	109	2.35	5.3	12.9	7.87	19.9	5.45	< 0.1	7.3	0.2	8.4
282085	< 5	17.4	0.2	2	0.032	0.52	1.50	0.04	0.12	0.19	1.4	47	58.0	133	2.38	6.9	26.9	12.0	25.3	6.24	< 0.1	4.4	0.3	8.5
282086	< 5	24.0	0.3	2	0.033	0.34	1.58	0.05	0.13	0.25	2.1	51	45.2	126	2.35	8.4	26.5	13.1	23.8	5.58	< 0.1	3.2	0.4	11.4
282087	< 5	8.6	0.2	< 1	0.028	0.21	0.96	0.04	0.07	0.28	2.0	25	23.3	92	1.29	6.0	18.7	10.2	12.7	2.30	< 0.1	1.6	< 0.1	6.4
282088	< 5	14.3	0.2	1	0.030	0.42	1.13	0.06	0.09	0.70	2.2	31	35.8	184	1.77	6.9	21.5	18.2	26.2	3.86	< 0.1	2.6	0.4	7.9
282089	< 5	7.6	0.1	1	0.027	0.21	0.95	0.04	0.10	0.17	1.4	38	24.9	152	1.62	3.6	8.7	4.40	22.4	5.22	< 0.1	2.3	< 0.1	9.0
292001	< 5	15.0	0.1	< 1	0.040	0.42	1.04	0.04	0.12	0.27	2.2	47	33.7	128	1.87	6.3	17.6	14.5	29.4	5.16	< 0.1	3.9	0.2	5.4
292002	< 5	6.0	< 0.1	< 1	0.024	0.20	0.77	0.04	0.16	0.19	1.6	39	19.0	81	1.03	2.9	8.0	7.54	17.9	6.63	< 0.1	2.2	0.1	6.6
292003	< 5	17.3	0.2	< 1	0.026	0.34	1.86	0.04	0.14	0.17	2.2	51	32.9	112	2.69	7.4	17.5	10.4	25.3	6.43	< 0.1	6.5	0.2	6.7
292004	< 5	25.2	0.5	< 1	0.035	0.41	4.22	0.04	0.15	0.16	2.7	50	53.0	131	3.32	8.1	21.5	25.1	44.0	6.74	< 0.1	6.6	0.6	5.2
292005	< 5	10.1	0.2	< 1	0.034	0.30	1.34	0.03	0.12	0.19	1.8	45	34.6	97	1.60	3.8	11.8	12.7	27.0	5.61	< 0.1	3.1	0.4	3.1
292006	21	9.8	0.2	2	0.025	0.21	0.93	0.05	0.08	0.28	2.0	53	31.1	83	2.27	4.1	13.9	4.85	14.0	4.15	< 0.1	1.9	0.3	9.8
292007	< 5	11.0	0.2	< 1	0.033	0.38	1.00	0.05	0.08	0.29	1.8	34	26.2	162	1.87	6.3	14.5	6.06	21.4	3.69	< 0.1	1.7	< 0.1	8.6
292008	< 5	7.9	< 0.1	< 1	0.033	0.29	0.80	0.04	0.11	0.19	1.6	49	24.2	106	1.59	4.0	11.2	6.72	20.4	5.46	< 0.1	2.4	0.2	8.7
292009	< 5	14.9	0.1	< 1	0.037	0.44	1.16	0.04	0.14	0.32	3.2	79	29.7	156	2.22	7.4	17.3	12.3	40.3	8.30	< 0.1	2.3	0.2	8.5
292010	< 5	25.4	0.3	< 1	0.025	0.40	2.26	0.05	0.17	0.20	3.2	57	34.2	129	3.55	8.9	20.6	20.5	34.1	6.30	< 0.1	11.9	0.4	5.2
292011	< 5	7.2	0.2	< 1	0.032	0.21	1.86	0.03	0.23	0.19	2.5	57	23.4	105	2.28	3.1	6.6	12.3	17.6	9.11	< 0.1	3.8	0.2	4.3
292012	< 5	12.6	0.3	< 1	0.043	0.42	2.03	0.04	0.12	0.23	3.5	87	36.4	148	3.13	8.0	11.3	20.6	30.4	7.29	< 0.1	2.7	0.6	4.6
292013	9	23.0	0.3	< 1	0.034	0.29	2.22	0.03	0.15	0.21	3.8	70	40.1	108	3.00	5.7	16.0	26.7	36.7	8.01	< 0.1	6.8	0.3	5.2
292014	< 5	16.9	0.2	< 1	0.033	0.40	1.24	0.05	0.09	0.43	3.1	44	23.0	155	2.40	10.6	28.3	27.9	28.0	3.71	< 0.1	3.0	0.2	5.0
292015	< 5	19.1	0.1	< 1	0.033	0.47	1.79	0.04	0.13	0.20	2.5	72	29.1	169	3.37	6.8	15.9	10.9	28.4	10.6	< 0.1	7.5	0.1	3.6
292016	< 5	13.8	0.2	2	0.044	0.42	1.28	0.05	0.08	0.56	2.4	35	34.4	199	1.69	7.4	18.5	16.2	26.1	3.98	0.1	1.9	0.4	6.9
292017	< 5	14.3	0.2	1	0.036	0.26	1.09	0.04	0.09	0.30	2.4	52	24.5	92	1.63	4.6	11.4	11.0	17.9	5.84	< 0.1	1.8	< 0.1	8.6

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292018	< 5	17.0	0.1	< 1	0.030	0.29	1.10	0.05	0.11	0.24	2.0	44	34.1	116	2.59	6.2	19.0	9.67	25.6	5.34	< 0.1	2.4	0.1	11.4
292019	< 5	4.6	< 0.1	< 1	0.020	0.17	0.87	0.04	0.16	0.15	1.4	63	22.4	88	2.11	2.8	7.4	3.47	13.5	7.94	< 0.1	2.9	< 0.1	7.5
292020	6	13.0	0.3	< 1	0.034	0.33	2.24	0.03	0.10	0.23	1.9	38	36.7	121	2.21	5.7	14.9	11.8	21.4	4.54	< 0.1	2.1	0.2	5.3
292021	< 5	16.3	0.2	1	0.033	0.28	0.96	0.04	0.09	0.32	2.3	32	24.3	101	0.87	4.0	12.7	13.1	25.7	4.44	< 0.1	1.6	0.2	8.1
292022	< 5	32.5	0.3	1	0.032	0.87	2.69	0.06	0.09	0.37	3.3	43	52.7	204	3.32	19.8	65.6	27.7	36.3	5.37	< 0.1	1.8	0.2	9.8
292023	< 5	8.8	0.1	< 1	0.026	0.21	1.41	0.03	0.09	0.16	1.6	36	22.8	78	1.48	3.3	8.9	6.20	11.5	5.36	< 0.1	1.5	0.2	5.6
292024	< 5	8.4	0.2	< 1	0.036	0.30	1.07	0.03	0.06	0.32	1.9	31	22.8	115	1.32	4.6	12.0	10.5	15.8	2.98	< 0.1	1.3	< 0.1	3.6
292025	< 5	12.0	0.3	1	0.031	0.24	1.47	0.04	0.09	0.22	2.6	45	30.4	93	1.93	7.0	18.8	12.1	16.4	5.15	< 0.1	1.9	0.2	7.3
292026	< 5	11.6	0.2	< 1	0.028	0.25	1.69	0.04	0.13	0.20	1.8	29	27.5	108	1.92	7.4	17.7	9.29	14.2	3.19	< 0.1	5.2	0.1	5.0
292027	< 5	10.8	0.1	< 1	0.029	0.25	1.76	0.04	0.14	0.16	1.9	82	26.2	92	2.60	3.4	8.0	9.33	21.6	9.95	< 0.1	2.8	0.2	5.2
292028	< 5	10.5	0.2	< 1	0.034	0.21	1.53	0.03	0.05	0.27	2.7	33	26.8	81	1.19	3.6	12.7	9.86	12.9	3.08	< 0.1	1.8	0.5	4.0
292029	< 5	7.9	0.2	< 1	0.030	0.21	0.71	0.03	0.05	0.36	2.2	26	17.5	105	1.32	5.6	14.7	8.01	12.0	2.30	< 0.1	1.2	0.1	3.5
292030	< 5	13.3	0.2	< 1	0.028	0.28	1.41	0.05	0.09	0.23	1.7	35	25.9	108	1.87	5.6	14.1	10.6	18.2	4.37	< 0.1	1.5	0.2	8.8
292031	< 5	5.3	0.1	< 1	0.027	0.16	0.97	0.03	0.09	0.14	1.3	47	21.8	82	1.76	2.8	6.3	4.20	10.4	5.86	< 0.1	1.7	0.1	5.7
292032	< 5	7.0	0.2	2	0.029	0.17	0.80	0.03	0.08	0.21	1.9	38	21.5	87	1.37	3.3	8.0	6.69	13.3	4.34	< 0.1	1.6	0.3	6.3
292033	< 5	7.7	0.2	< 1	0.025	0.15	0.80	0.03	0.07	0.24	2.0	33	16.5	83	1.48	3.9	9.0	5.46	11.2	3.27	< 0.1	1.5	0.3	6.0
292034	13	5.9	< 0.1	< 1	0.043	0.38	1.13	0.05	0.22	0.31	3.6	158	31.4	173	3.33	7.8	9.6	19.4	31.7	10.4	< 0.1	2.6	< 0.1	4.6
292035	< 5	14.3	0.2	< 1	0.081	0.48	1.63	0.05	0.16	0.44	6.7	200	70.5	193	4.61	8.3	20.7	20.4	39.7	15.4	< 0.1	2.6	0.6	4.5
292036	< 5	10.7	0.2	< 1	0.031	0.26	0.92	0.03	0.05	0.33	2.8	30	23.4	105	1.36	6.2	16.2	23.5	13.8	2.56	< 0.1	1.6	0.4	2.5
292037	< 5	61.5	0.4	< 1	0.035	0.67	2.32	0.10	0.13	0.82	6.3	88	14.2	411	4.78	29.8	15.0	25.1	58.8	8.62	0.3	1.3	0.4	10.0
292038	5	18.0	0.2	1	0.036	0.52	1.95	0.08	0.11	0.33	2.6	63	46.5	200	3.25	8.9	21.9	26.1	33.0	7.01	< 0.1	3.1	0.3	9.3
292039	< 5	21.6	0.3	3	0.038	0.63	1.74	0.05	0.13	0.27	3.3	71	57.8	183	2.52	7.7	25.8	26.6	36.3	8.51	< 0.1	2.9	< 0.1	7.5
292040	7	22.9	0.4	2	0.039	0.25	2.10	0.05	0.12	0.26	4.3	62	29.1	107	2.38	5.9	11.5	18.7	46.8	7.76	< 0.1	2.2	0.4	7.5
292041	< 5	10.0	0.1	< 1	0.022	0.15	1.24	0.03	0.09	0.20	2.1	40	21.5	75	1.77	3.3	9.9	7.16	12.4	5.38	< 0.1	1.7	0.2	3.4
292042	< 5	12.9	0.1	1	0.034	0.36	0.97	0.06	0.07	0.49	2.0	27	19.8	318	1.62	7.9	14.5	10.5	28.1	2.94	< 0.1	1.7	< 0.1	10.4
292043	< 5	10.5	0.2	2	0.037	0.34	1.09	0.04	0.07	0.42	1.9	33	28.4	126	1.48	5.9	15.8	9.25	14.8	3.96	< 0.1	1.6	< 0.1	7.3
292044	< 5	13.1	0.2	2	0.037	0.32	1.06	0.05	0.07	0.34	2.8	42	34.2	133	1.68	7.7	21.3	22.1	23.6	4.26	< 0.1	2.8	0.3	7.9
292045	195	15.1	0.2	2	0.026	0.23	1.04	0.06	0.07	0.26	2.2	41	27.1	110	2.39	6.5	19.7	8.88	16.2	4.57	< 0.1	2.5	< 0.1	9.0
292046	< 5	9.5	0.1	< 1	0.018	0.19	0.96	0.05	0.11	0.17	1.5	37	19.0	112	2.04	3.8	9.4	4.02	20.0	5.23	< 0.1	1.6	0.1	10.4
292047	< 5	3.6	0.1	< 1	0.023	0.12	0.52	0.03	0.07	0.12	0.9	22	13.6	113	0.82	1.5	3.6	1.50	6.6	3.43	< 0.1	0.6	< 0.1	5.7
292048	< 5	10.7	0.3	2	0.036	0.23	0.99	0.05	0.05	0.36	2.3	35	22.5	100	1.50	4.8	13.7	4.77	14.3	3.58	< 0.1	1.6	0.2	6.5
292049	< 5	12.3	0.2	< 1	0.027	0.32	1.06	0.05	0.07	0.26	1.9	30	23.8	138	1.99	6.0	16.7	6.35	20.3	3.78	< 0.1	1.5	0.1	7.4
292050	< 5	8.1	0.2	< 1	0.034	0.33	0.89	0.05	0.07	0.24	1.7	35	47.3	136	1.67	5.7	19.6	8.90	17.2	4.22	< 0.1	1.7	0.2	8.5
292051	< 5	12.9	0.2	2	0.038	0.35	1.01	0.05	0.08	0.31	2.4	47	47.6	141	1.85	6.7	21.6	11.9	19.5	4.96	< 0.1	2.3	0.2	10.8
292052	< 5	4.9	< 0.1	1	0.025	0.15	0.52	0.05	0.09	0.27	2.0	27	11.8	347	1.04	3.1	7.8	4.57	20.5	3.57	< 0.1	4.4	0.2	12.0
292053	< 5	11.5	0.2	< 1	0.027	0.23	0.98	0.06	0.08	0.32	2.1	29	16.4	132	1.84	5.0	12.8	4.10	29.4	3.26	< 0.1	2.0	0.3	8.9
292054	< 5	9.6	0.2	1	0.031	0.30	1.42	0.06	0.08	0.31	2.1	30	23.8	122	1.78	6.4	16.9	6.24	20.0	3.85	< 0.1	2.0	0.2	7.8
292055	7	12.4	0.3	2	0.034	0.29	1.28	0.06	0.08	0.32	2.4	42	26.3	123	1.99	5.5	14.8	9.48	20.7	4.99	< 0.1	2.4	0.3	8.6
292056	< 5	15.5	0.3	2	0.032	0.29	1.16	0.06	0.07	0.32	2.8	41	25.1	124	1.88	6.1	18.5	11.9	26.5	4.49	< 0.1	2.9	0.3	8.0
292057	< 5	10.7	0.2	1	0.031	0.22	1.21	0.06	0.06	0.35	2.5	30	18.2	116	1.77	7.4	21.1	9.40	20.5	2.60	< 0.1	2.7	0.2	7.7
292058	< 5	10.8	0.3	1	0.027	0.24	1.67	0.05	0.09	0.29	2.4	35	25.0	128	2.34	8.1	18.9	9.67	17.0	3.85	< 0.1	3.9	0.2	6.3
292059	< 5	9.1	0.2	1	0.034	0.25	1.14	0.04	0.07	0.25	2.1	37	25.0	114	1.86	5.3	14.1	7.56	15.7	3.98	< 0.1	2.9	0.2	6.0
292060	8	10.9	0.2	< 1	0.025	0.28	0.75	0.04	0.05	0.22	1.8	34	23.8	93	1.58	5.0	16.6	6.08	13.8	3.59	< 0.1	2.5	0.2	5.9
292061	6	11.4	0.1	2	0.025	0.22	0.97	0.07	0.09	0.24	2.3	41	16.2	107	2.27	4.8	12.3	5.67	20.2	5.03	< 0.1	2.4	< 0.1	10.0
292062	< 5	6.3	0.1	< 1	0.018	0.14	0.85	0.03	0.05	0.17	1.1	19	10.1	72	1.22	4.2	10.4	3.59	10.5	2.22	< 0.1	1.8	< 0.1	3.8
292063	< 5	8.6	0.2	1	0.030	0.25	0.95	0.04	0.07	0.22	1.8	39	22.9	129	2.01	4.8	11.9	6.50	15.5	4.68	< 0.1	3.1	< 0.1	6.6
292064	13	12.7	0.2	2	0.032	0.25	1.01	0.05	0.07	0.26	2.5	40	21.7	139	1.83	4.9	14.4	8.62	23.6	4.82	< 0.1	2.8	< 0.1	8.7
292065	6	20.8	0.2	1	0.029	0.26	1.00	0.06	0.09	0.54	2.4	34	21.1	124	1.97	6.5	15.8	13.6	16.3	3.19	< 0.1	4.4	0.1	6.6
292066	7	13.4	0.2	1	0.036	0.36	1.24	0.04	0.13	0.50	1.9	37	26.1	130	1.89	8.3	16.8	12.9	19.3	4.71	< 0.1	2.3	< 0.1	5.7
292067	6	15.0	0.3	3	0.044	0.32	1.67	0.06	0.06	0.31	3.1	35	31.4	130	1.73	7.6	19.4	7.89	18.5	3.85	< 0.1	2.2	0.2	8.4
292068	6	13.4	0.2	2	0.028	0.25	0.92	0.07	0.09	0.25	2.6	38	19.7	132	1.61	4.9	14.5	5.04	19.0	4.47	< 0.1	1.5	0.1	12.5
292069	8	13.2	0.3	2	0.027	0.25	1.21	0.07	0.08	0.33	2.5	33	20.0	123	2.12	7.7	20.0	6.95	16.2	3.33	< 0.1	2.0	0.1	8.9

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292070	9	2.9	< 0.1	< 1	0.023	0.09	0.52	0.05	0.08	0.20	0.9	16	5.7	759	0.80	3.1	3.1	1.74	6.8	2.69	< 0.1	0.6	< 0.1	12.5
292071	< 5	10.0	0.2	2	0.036	0.28	1.02	0.05	0.08	0.35	2.0	34	23.9	136	1.64	4.5	12.5	5.23	19.7	3.86	< 0.1	2.0	0.1	7.3
292072	< 5	11.9	0.2	2	0.037	0.30	0.96	0.06	0.06	0.37	2.8	35	24.4	159	1.42	5.1	17.2	7.78	25.3	4.10	< 0.1	1.2	< 0.1	10.4
292073	< 5	12.7	0.3	1	0.031	0.27	1.20	0.05	0.07	0.34	2.3	32	18.7	119	1.82	5.9	16.0	7.36	21.5	3.55	< 0.1	1.3	0.2	7.1
292074	< 5	8.1	0.2	< 1	0.028	0.18	1.17	0.04	0.07	0.23	1.7	26	14.4	89	1.58	4.2	10.3	4.24	14.1	4.20	< 0.1	1.3	< 0.1	7.0
292075	< 5	12.8	0.4	1	0.034	0.25	1.71	0.04	0.08	0.20	1.7	32	21.0	121	1.79	4.2	10.9	4.16	22.6	4.91	< 0.1	1.7	0.2	6.7
292076	< 5	11.6	0.3	2	0.032	0.26	1.34	0.04	0.05	0.22	2.0	29	21.3	99	1.33	5.4	14.5	6.35	21.5	3.63	< 0.1	1.5	0.2	6.7
292077	18	11.0	0.3	2	0.027	0.19	1.10	0.05	0.07	0.32	2.5	35	16.1	120	1.65	4.6	12.4	5.36	20.2	4.65	< 0.1	1.6	0.2	8.2
292078	134	8.9	0.2	< 1	0.027	0.21	1.05	0.04	0.08	0.23	1.9	31	16.7	104	1.75	4.3	11.1	3.87	16.9	4.13	< 0.1	1.8	< 0.1	7.3
292079	7	5.9	0.2	1	0.031	0.14	0.68	0.03	0.06	0.17	1.6	33	16.0	97	1.25	2.1	5.9	3.31	11.1	4.65	< 0.1	1.6	0.3	8.3
292080	< 5	7.6	0.1	2	0.024	0.20	0.65	0.05	0.06	0.29	2.2	35	15.5	108	1.51	3.8	12.0	8.03	12.3	3.77	< 0.1	2.4	0.1	8.7
292081	< 5	10.5	0.2	< 1	0.031	0.21	1.04	0.05	0.06	0.35	2.3	27	15.7	116	1.77	6.1	15.2	5.98	13.3	2.70	< 0.1	2.0	< 0.1	6.3
292082	< 5	14.4	0.2	1	0.032	0.34	1.20	0.06	0.09	0.26	2.0	37	25.6	154	2.42	6.2	15.9	9.94	18.6	4.46	< 0.1	3.5	< 0.1	10.7
292083	14	11.9	0.2	2	0.034	0.33	0.87	0.05	0.12	0.27	2.5	58	28.7	125	2.26	6.0	17.2	11.7	21.5	6.28	< 0.1	6.0	0.1	9.4
292084	< 5	19.8	0.2	< 1	0.030	0.47	1.27	0.07	0.08	0.36	2.3	48	38.2	248	2.67	8.8	31.3	13.1	25.1	5.62	< 0.1	2.5	0.1	8.3
292085	< 5	8.5	0.2	< 1	0.025	0.23	0.93	0.04	0.11	0.19	1.5	33	14.5	122	1.80	3.9	9.0	4.95	15.1	5.18	< 0.1	2.0	< 0.1	6.2
292086	< 5	6.9	0.2	< 1	0.036	0.22	0.91	0.04	0.06	0.29	1.7	26	18.0	101	1.32	4.0	11.0	7.39	11.4	2.85	< 0.1	1.8	0.1	4.8
292087	< 5	7.6	0.2	< 1	0.037	0.34	0.77	0.04	0.03	0.39	1.8	23	31.0	95	0.99	5.0	15.8	9.14	13.7	2.47	< 0.1	1.1	0.2	4.1
292088	< 5	7.5	0.2	1	0.029	0.23	0.70	0.07	0.07	0.36	2.5	24	15.1	140	1.24	4.0	11.8	4.99	15.7	3.61	< 0.1	1.1	< 0.1	17.1
292089	< 5	9.9	0.2	1	0.027	0.27	1.07	0.07	0.07	0.32	2.0	25	17.1	120	1.70	4.9	15.8	6.14	18.1	3.30	< 0.1	1.8	0.2	8.8
292090	< 5	8.0	0.2	1	0.027	0.26	0.96	0.05	0.08	0.25	1.6	35	24.3	162	1.92	4.3	11.8	6.72	22.1	4.54	< 0.1	3.8	< 0.1	8.7
292091	6	15.4	0.3	2	0.033	0.30	1.10	0.06	0.07	0.33	2.7	41	26.2	172	2.01	6.0	18.1	8.69	29.0	4.76	< 0.1	2.7	< 0.1	10.3
292092	< 5	11.6	0.2	1	0.028	0.26	1.10	0.08	0.07	0.34	2.3	30	18.1	128	1.92	6.0	16.6	5.80	16.5	3.55	< 0.1	1.7	0.2	10.2
292093	< 5	7.2	0.1	1	0.027	0.23	0.94	0.05	0.09	0.20	1.4	33	17.7	108	1.69	3.7	10.6	4.34	14.0	4.86	< 0.1	1.7	< 0.1	9.4
292094	< 5	10.5	0.2	2	0.031	0.23	1.12	0.04	0.07	0.23	2.0	34	19.6	103	1.58	4.3	11.3	4.79	17.0	4.19	< 0.1	2.6	< 0.1	6.9
292095	< 5	11.0	0.2	2	0.032	0.24	0.72	0.05	0.05	0.34	2.5	35	20.4	121	1.78	4.9	14.7	9.43	18.7	3.44	< 0.1	3.3	0.2	6.9
292096	< 5	12.6	0.2	1	0.027	0.26	0.97	0.06	0.07	0.32	2.2	33	17.2	179	2.01	6.9	17.7	7.78	16.2	3.34	< 0.1	2.9	< 0.1	9.6
292097	6	7.4	0.1	2	0.025	0.22	0.81	0.04	0.07	0.25	1.6	30	18.4	131	2.13	5.4	13.0	7.59	11.7	3.28	< 0.1	3.8	< 0.1	4.6
292098	< 5	9.0	0.2	2	0.034	0.23	0.97	0.04	0.09	0.19	1.7	46	22.3	114	1.88	3.5	8.1	4.42	19.6	6.37	< 0.1	2.0	< 0.1	9.5
292099	< 5	12.3	0.3	2	0.036	0.23	1.27	0.04	0.06	0.29	2.5	35	24.4	102	1.70	5.4	15.1	6.98	14.1	3.90	< 0.1	2.1	0.2	6.7
292100	45	10.3	0.2	2	0.033	0.31	0.80	0.05	0.06	0.54	2.4	27	21.0	121	1.38	5.8	17.9	10.1	19.1	2.96	< 0.1	1.2	< 0.1	6.8
292101	< 5	8.7	0.2	< 1	0.034	0.31	0.90	0.05	0.06	0.48	1.9	23	19.8	132	1.43	5.4	15.2	7.69	14.5	2.90	< 0.1	1.1	0.1	5.9

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272001	17.1	2.59	6.9	1.9	1.59	0.050	0.02	< 0.02	0.50	0.11	0.05	1.49	27.1	10.2	19.1	2.2	7.41	1.3	0.2	0.9	0.1	0.582	< 0.1	0.3
272002	15.4	3.86	6.1	2.1	0.79	0.014	0.01	< 0.02	0.34	0.08	< 0.02	1.15	23.8	9.8	19.4	2.3	8.72	1.6	0.3	1.2	0.1	0.771	0.1	0.3
272003	18.1	4.70	9.7	2.4	1.27	< 0.002	0.03	< 0.02	0.41	0.09	0.06	1.32	25.3	12.0	23.8	2.8	9.99	1.7	0.3	1.2	0.1	0.781	0.1	0.4
272004	17.6	3.25	5.7	2.0	0.39	0.002	0.03	< 0.02	0.43	0.06	0.08	1.22	18.5	10.7	19.5	2.2	7.27	1.2	0.2	0.8	0.1	0.580	0.1	0.3
272005	12.8	4.67	4.0	3.1	0.37	< 0.002	0.01	< 0.02	0.30	0.08	0.04	0.98	18.2	12.6	24.1	2.9	10.5	1.9	0.4	1.5	0.2	1.05	0.2	0.4
272006	9.9	2.20	2.0	1.9	0.25	< 0.002	0.01	< 0.02	0.38	0.05	0.03	1.18	9.8	8.3	15.2	1.8	6.86	1.3	0.2	0.9	0.1	0.497	< 0.1	0.2
272007	15.9	4.04	5.3	2.3	0.53	0.005	0.02	< 0.02	0.41	0.07	0.05	1.49	31.2	10.3	20.4	2.4	8.68	1.5	0.3	1.0	0.1	0.704	0.1	0.3
272008	18.4	3.68	4.7	2.1	0.42	0.011	0.03	< 0.02	0.44	0.06	0.06	0.93	35.3	8.5	16.9	2.0	6.99	1.2	0.2	0.8	0.1	0.600	0.1	0.3
272009	13.7	2.68	4.0	1.9	0.53	0.010	0.01	< 0.02	0.32	0.06	< 0.02	1.08	18.2	8.3	15.5	1.8	6.11	1.0	0.2	0.8	0.1	0.532	< 0.1	0.3
272010	15.1	4.22	5.1	1.4	0.48	0.018	0.01	< 0.02	0.34	0.05	0.03	0.80	24.3	10.9	22.2	2.4	8.80	1.6	0.3	1.3	0.2	0.865	0.2	0.4
272011	15.6	3.50	6.7	2.7	1.04	0.028	0.03	< 0.02	0.66	0.08	0.05	1.98	33.2	8.1	16.4	1.9	6.93	1.3	0.2	0.9	0.1	0.624	0.1	0.3
272012	16.8	4.66	5.3	1.8	0.41	0.004	0.02	< 0.02	0.33	0.05	< 0.02	1.71	28.0	9.8	19.2	2.3	8.38	1.5	0.3	1.0	0.1	0.751	0.1	0.4
272013	16.0	4.53	6.4	2.1	0.40	0.023	0.02	< 0.02	0.31	0.07	< 0.02	1.39	24.6	11.2	27.6	2.6	9.62	1.7	0.3	1.3	0.2	0.898	0.2	0.4
272014	17.7	3.54	5.5	2.7	0.80	0.128	0.04	< 0.02	0.48	0.10	< 0.02	2.49	38.5	9.5	18.6	2.2	7.99	1.4	0.3	1.0	0.1	0.663	0.1	0.3
272015	20.1	3.74	5.8	2.4	0.79	0.065	0.07	< 0.02	0.57	0.07	0.03	1.39	34.7	9.7	18.1	2.2	7.80	1.3	0.2	0.9	0.1	0.603	0.1	0.3
272016	16.7	3.94	5.5	2.0	0.43	0.049	0.03	< 0.02	0.39	0.07	0.02	1.39	44.5	7.9	15.2	1.8	6.48	1.1	0.2	0.9	0.1	0.707	0.1	0.3
272017	12.9	2.83	4.1	2.1	0.65	0.062	0.01	< 0.02	0.37	0.09	0.02	1.42	30.1	7.7	15.2	1.7	5.94	1.0	0.2	0.8	0.1	0.560	0.1	0.3
272018	11.5	3.93	19.2	0.7	0.26	0.011	0.02	< 0.02	0.26	0.05	0.02	3.36	100	9.8	18.2	2.1	7.63	1.4	0.3	1.1	0.1	0.756	0.1	0.3
272019	4.2	8.30	16.5	0.1	0.51	0.008	0.03	0.03	0.36	0.24	< 0.02	3.09	47.9	3.5	6.81	0.9	3.46	0.9	0.3	1.1	0.2	1.21	0.3	0.7
272020	9.5	3.58	3.0	2.5	1.08	< 0.002	0.06	0.02	0.69	0.20	0.02	1.12	30.5	6.7	12.4	1.5	5.23	0.9	0.2	0.7	0.1	0.572	0.1	0.3
272021	18.1	4.06	6.1	1.4	0.34	0.016	< 0.01	< 0.02	0.47	0.05	< 0.02	1.76	29.4	9.2	17.1	2.1	7.67	1.4	0.3	1.1	0.1	0.765	0.1	0.4
272022	4.0	5.44	2.7	1.0	0.30	< 0.002	0.03	< 0.02	0.76	0.11	< 0.02	0.46	20.7	3.0	5.47	0.7	2.54	0.5	0.1	0.6	0.1	0.907	0.2	0.6
272023	19.4	10.4	10.0	2.3	0.93	0.007	0.02	0.02	0.65	0.08	< 0.02	2.06	62.9	28.2	48.6	6.9	26.2	5.0	1.1	3.6	0.4	1.99	0.3	0.8
272024	11.6	2.65	4.9	2.7	0.44	< 0.002	0.02	< 0.02	0.48	0.06	0.04	0.75	11.6	7.8	15.0	1.8	6.18	1.1	0.2	0.7	< 0.1	0.445	< 0.1	0.2
272025	23.5	3.85	6.8	1.5	0.49	< 0.002	0.01	< 0.02	0.47	0.04	0.03	1.60	17.3	17.0	31.9	3.5	12.0	1.9	0.2	1.3	0.2	0.769	0.1	0.3
272026	15.5	4.85	5.3	1.2	0.38	< 0.002	0.01	< 0.02	0.34	0.06	0.02	1.12	23.9	13.0	26.4	3.0	10.9	1.9	0.4	1.5	0.2	0.989	0.2	0.4
272027	16.0	3.60	5.3	2.4	0.39	< 0.002	0.02	< 0.02	0.39	0.04	< 0.02	1.47	17.8	7.9	15.8	2.0	7.06	1.3	0.2	0.9	0.1	0.620	0.1	0.3
272028	19.4	5.27	3.0	1.9	0.30	< 0.002	0.02	< 0.02	0.45	0.04	< 0.02	1.16	30.1	16.7	34.8	3.8	13.2	2.2	0.4	1.5	0.2	0.972	0.2	0.4
272029	19.2	3.90	5.0	1.0	0.24	0.002	0.02	< 0.02	0.36	0.04	< 0.02	1.98	31.0	9.4	18.8	2.2	7.97	1.5	0.3	1.1	0.1	0.775	0.1	0.4
272030	14.3	2.80	6.4	2.5	1.38	< 0.002	0.04	< 0.02	0.53	0.10	0.03	2.14	15.7	8.9	16.4	1.9	6.80	1.2	0.2	0.8	0.1	0.540	< 0.1	0.3
272031	17.6	3.19	7.6	2.3	0.91	< 0.002	0.01	< 0.02	0.58	0.07	< 0.02	1.53	23.4	9.8	17.7	2.1	7.28	1.2	0.2	0.8	0.1	0.542	< 0.1	0.3
272032	16.0	3.83	3.5	1.4	1.07	0.043	0.02	< 0.02	0.36	0.05	0.05	1.26	25.5	11.0	24.2	2.6	9.56	1.7	0.3	1.3	0.2	0.798	0.1	0.3
272033	18.6	5.75	3.3	1.5	0.40	0.024	0.02	< 0.02	0.35	0.03	0.02	1.75	42.4	15.9	34.7	4.1	15.2	2.7	0.5	2.0	0.2	1.21	0.2	0.5
272034	18.7	4.10	7.0	2.2	0.55	< 0.002	0.03	< 0.02	0.43	0.05	0.03	1.58	22.9	10.7	21.2	2.5	8.96	1.6	0.3	1.1	0.1	0.741	0.1	0.3
272035	23.8	6.44	7.6	1.3	0.56	0.007	0.02	< 0.02	0.41	0.06	< 0.02	1.62	34.2	16.9	34.2	3.9	13.7	2.3	0.4	1.6	0.2	1.07	0.2	0.5
272036	10.1	2.64	11.0	1.2	0.52	< 0.002	0.02	< 0.02	0.51	0.05	0.04	2.31	66.7	4.4	8.13	1.0	3.64	0.7	0.2	0.6	< 0.1	0.461	< 0.1	0.2
272037	11.6	2.18	3.8	1.9	0.65	< 0.002	0.02	< 0.02	0.77	0.07	0.02	1.24	21.4	8.5	16.1	1.9	6.75	1.2	0.2	0.8	< 0.1	0.463	< 0.1	0.2
272038	10.9	2.71	12.5	1.7	0.39	< 0.002	0.02	< 0.02	0.73	0.07	< 0.02	1.33	30.5	2.3	4.30	0.6	2.19	0.5	0.2	0.5	< 0.1	0.456	< 0.1	0.3
272039	20.1	3.64	8.5	3.0	0.76	< 0.002	0.02	< 0.02	0.60	0.07	0.05	2.08	34.7	9.3	17.7	2.1	7.37	1.3	0.2	0.9	0.1	0.627	0.1	0.3
272040	14.9	2.31	8.4	2.1	0.83	< 0.002	0.04	< 0.02	0.70	0.10	0.03	3.06	53.9	5.8	11.1	1.2	4.50	0.8	0.2	0.7	< 0.1	0.481	< 0.1	0.3
272041	18.6	2.54	5.5	2.3	0.52	< 0.002	0.02	< 0.02	0.66	0.06	0.04	1.19	18.5	7.4	14.3	1.7	5.99	1.0	0.2	0.7	< 0.1	0.444	< 0.1	0.2
272042	22.3	3.94	7.6	2.5	0.46	< 0.002	0.02	< 0.02	0.55	0.07	0.02	1.88	28.3	15.1	28.4	3.2	10.7	1.6	0.3	1.1	0.1	0.708	0.1	0.3
272043	21.0	9.51	3.7	1.6	0.64	0.013	0.03	< 0.02	0.33	0.06	< 0.02	2.03	52.5	31.2	77.3	6.6	23.6	3.8	0.7	2.9	0.3	1.78	0.3	0.8
272044	13.0	3.22	1.8	1.4	0.31	< 0.002	0.04	< 0.02	0.35	0.04	< 0.02	1.62	22.1	10.1	20.1	2.3	7.96	1.4	0.3	1.0	0.1	0.670	0.1	0.3
272045	21.7	5.15	4.0	1.6	0.16	< 0.002	0.02	< 0.02	0.32	0.04	< 0.02	0.89	26.0	12.0	25.3	3.0	11.0	1.9	0.3	1.3	0.2	0.879	0.2	0.4
272046	19.5	4.01	3.5	2.0	0.37	< 0.002	0.02	< 0.02	0.51	0.04	< 0.02	1.74	30.7	13.1	26.2	3.0	10.3	1.7	0.3	1.1	0.1	0.696	0.1	0.3
272047	16.8	4.75	4.9	2.3	0.68	< 0.002	0.02	< 0.02	0.45	0.06	< 0.02	1.79	29.2	22.3	41.7	4.7	16.3	2.4	0.4	1.7	0.2	0.962	0.2	0.4
272048	13.5	3.70	5.7	1.9	0.42	< 0.002	0.01	< 0.02	0.34	0.04	< 0.02	0.94	26.5	10.1	20.0	2.3	8.41	1.5	0.3	1.2	0.1	0.786	0.1	0.3
272049	15.6	2.27	5.1	2.1	0.46	< 0.002	0.01	< 0.02	0.52	0.07	< 0.02	1.34	8.6	6.4	12.4	1.5	5.45	0.9	0.2	0.7	< 0.1	0.414	< 0.1	0.2
272050	15.6	2.46	4.7	2.4	0.55	< 0.002	0.02	< 0.02	0.52	0.05	< 0.02	1.36	16.0	6.7	13.0	1.5	5.19	0.9	0.1	0.6	< 0.1	0.401	< 0.1	0.2
272051	16.5	2.75	5.6	2.6	0.68	< 0.002	0.01	< 0.02	0.43	0.04	< 0.02	1.15	15.4	6.9	13.2	1.5	5.43	1.0	0.2	0.7	< 0.1	0.480	< 0.1	0.2
272052	11.6	2.31	5.0	2.5	0.49	< 0.002	0.02	< 0.02	0.40	0.05	< 0.02	1.53	16.5	7.1	13.8	1.6	5.81	1.0	0.2	0.8	< 0.1	0.485	< 0.1	0.2

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272053	13.4	3.50	5.0	2.3	0.43	0.005	0.03	< 0.02	0.38	0.04	< 0.02	1.65	38.6	9.2	17.8	2.1	7.53	1.4	0.3	1.0	0.1	0.712	0.1	0.3
272054	18.7	4.46	3.9	1.9	0.39	0.035	0.03	< 0.02	0.41	0.06	< 0.02	1.37	35.2	10.8	22.3	2.5	8.93	1.5	0.3	1.1	0.1	0.760	0.1	0.4
272055	17.0	3.15	1.9	1.0	0.27	0.032	0.05	< 0.02	0.47	0.04	< 0.02	1.63	51.0	9.6	18.8	2.2	7.80	1.4	0.2	0.9	0.1	0.613	0.1	0.3
272056	12.4	2.39	3.3	2.0	0.56	0.067	0.05	< 0.02	0.37	0.05	0.03	1.06	22.9	8.2	16.6	1.9	6.66	1.1	0.2	0.8	< 0.1	0.505	< 0.1	0.2
272057	13.5	3.02	3.4	2.2	0.55	0.029	0.04	< 0.02	0.49	0.12	< 0.02	1.17	51.4	8.3	15.9	1.9	6.77	1.2	0.2	0.8	0.1	0.592	0.1	0.3
272058	14.0	4.30	3.0	2.1	0.33	0.049	0.03	< 0.02	0.41	0.06	0.02	0.76	35.2	11.6	26.1	2.7	9.57	1.6	0.3	1.1	0.1	0.783	0.1	0.3
272059	16.3	4.92	5.2	1.8	0.23	0.005	0.01	< 0.02	0.28	0.04	< 0.02	0.81	23.0	10.4	22.0	2.5	9.32	1.8	0.3	1.3	0.2	0.938	0.2	0.4
272060	14.8	6.82	1.6	1.5	0.11	0.027	0.03	< 0.02	0.27	0.04	< 0.02	0.49	27.9	20.5	30.2	4.8	17.0	2.9	0.5	2.2	0.3	1.41	0.3	0.6
272061	18.1	5.99	2.6	1.6	0.09	0.012	0.03	< 0.02	0.28	0.05	< 0.02	0.52	27.4	13.9	28.2	3.5	12.8	2.3	0.4	1.7	0.2	1.15	0.2	0.5
272062	22.0	7.93	6.2	1.8	0.12	0.006	0.02	< 0.02	0.36	0.05	< 0.02	0.62	26.1	16.9	36.2	4.4	16.0	2.8	0.5	2.0	0.2	1.34	0.2	0.6
272063	14.3	3.38	3.0	2.3	0.28	0.070	0.03	< 0.02	0.33	0.05	< 0.02	0.95	30.5	8.7	17.2	2.0	7.05	1.3	0.2	0.9	0.1	0.636	0.1	0.3
272064	15.2	3.92	4.4	2.1	1.16	0.083	0.03	< 0.02	0.46	0.06	0.06	1.15	42.6	10.2	20.6	2.3	8.45	1.5	0.3	1.2	0.2	0.815	0.1	0.4
272065	19.0	5.19	3.0	1.8	1.21	0.095	0.01	< 0.02	0.34	0.09	0.07	0.76	32.6	12.0	30.8	2.8	10.0	1.7	0.3	1.3	0.2	0.848	0.2	0.4
272066	14.4	3.19	2.3	1.8	0.66	0.075	0.02	< 0.02	0.44	0.07	0.03	1.17	40.0	8.7	16.5	2.0	6.93	1.2	0.2	0.9	0.1	0.618	0.1	0.3
272067	12.0	3.12	3.0	2.1	0.93	0.102	0.02	< 0.02	0.40	0.06	0.03	0.87	32.8	9.0	17.2	2.0	7.27	1.3	0.2	1.0	0.1	0.679	0.1	0.3
272068	16.8	3.93	3.2	1.6	0.32	0.020	0.01	< 0.02	0.31	0.06	< 0.02	0.82	37.7	9.5	20.6	2.3	8.40	1.5	0.3	1.2	0.1	0.760	0.1	0.4
272069	15.6	4.05	3.7	2.3	0.44	0.016	0.02	< 0.02	0.44	0.07	< 0.02	0.94	40.3	11.9	24.7	2.7	9.55	1.6	0.3	1.1	0.1	0.727	0.1	0.3
272070	17.3	4.10	2.9	1.6	0.26	0.020	0.02	< 0.02	0.42	0.06	< 0.02	0.84	61.2	9.3	19.1	2.2	7.82	1.4	0.3	1.0	0.1	0.739	0.1	0.3
272071	12.1	3.34	3.1	1.2	0.21	0.015	< 0.01	< 0.02	0.29	0.05	< 0.02	0.69	30.3	7.8	17.7	1.9	6.77	1.2	0.2	1.0	0.1	0.703	0.1	0.3
272072	13.3	4.11	2.4	1.8	0.25	0.017	0.02	< 0.02	0.33	0.05	< 0.02	0.69	25.3	10.1	23.5	2.5	9.18	1.7	0.3	1.3	0.2	0.801	0.1	0.4
272073	15.5	4.61	2.5	1.9	0.29	0.019	0.03	< 0.02	0.34	0.06	< 0.02	0.76	32.6	10.0	22.6	2.4	8.79	1.6	0.3	1.2	0.2	0.847	0.2	0.4
272074	18.3	4.25	3.8	2.3	0.31	0.020	0.03	< 0.02	0.51	0.06	< 0.02	0.93	44.4	11.8	23.7	2.6	8.99	1.5	0.3	1.1	0.1	0.763	0.1	0.3
272075	13.6	3.50	2.7	2.1	0.27	0.036	0.01	< 0.02	0.36	0.05	0.02	0.78	39.1	8.5	17.6	1.9	6.73	1.2	0.2	1.0	0.1	0.686	0.1	0.3
272076	13.1	2.81	2.2	1.8	0.29	0.013	0.02	< 0.02	0.40	0.04	< 0.02	0.77	34.6	8.6	16.8	2.0	7.04	1.3	0.2	0.9	0.1	0.591	0.1	0.3
272077	14.0	3.70	2.7	1.7	0.06	< 0.002	0.04	< 0.02	0.34	0.04	< 0.02	0.72	28.2	10.6	23.6	2.4	8.79	1.5	0.3	1.3	0.2	0.847	0.2	0.4
272078	13.8	4.13	2.0	1.6	0.22	0.033	0.02	< 0.02	0.26	0.05	< 0.02	0.63	27.4	10.3	27.8	2.3	8.23	1.4	0.3	1.2	0.1	0.779	0.1	0.4
272079	14.3	4.35	2.3	1.7	0.19	0.009	0.02	< 0.02	0.28	0.04	< 0.02	0.71	23.8	10.4	27.1	2.5	8.99	1.6	0.3	1.4	0.2	0.906	0.2	0.4
272080	12.5	3.45	2.2	2.0	0.29	0.017	0.02	< 0.02	0.40	0.06	< 0.02	0.73	31.6	9.4	19.3	2.2	7.79	1.3	0.3	1.0	0.1	0.669	0.1	0.3
272081	15.8	4.77	3.5	2.1	0.25	0.010	0.01	< 0.02	0.37	0.05	0.03	0.74	30.9	9.9	21.7	2.3	8.54	1.5	0.3	1.1	0.1	0.802	0.1	0.4
272082	12.3	3.17	2.2	1.7	0.24	0.023	0.02	< 0.02	0.32	0.04	< 0.02	0.83	22.6	7.6	14.7	1.7	6.02	1.1	0.2	0.8	0.1	0.609	0.1	0.3
272083	12.7	3.62	2.2	1.7	0.27	0.016	0.03	< 0.02	0.30	0.04	< 0.02	0.90	35.5	9.7	20.1	2.2	7.73	1.4	0.3	1.1	0.1	0.759	0.1	0.3
272084	17.0	5.64	2.9	1.8	0.15	0.006	0.03	< 0.02	0.36	0.04	0.03	1.04	32.8	13.5	28.8	3.3	12.3	2.2	0.4	1.7	0.2	1.10	0.2	0.5
272085	11.3	2.76	4.6	2.1	0.29	< 0.002	0.02	< 0.02	0.38	0.06	< 0.02	0.56	16.8	7.0	14.7	1.7	5.85	1.0	0.2	0.7	< 0.1	0.464	< 0.1	0.2
272086	15.9	3.41	5.4	2.1	0.45	0.013	0.03	< 0.02	0.50	0.05	0.03	1.11	43.9	8.2	17.2	1.9	6.52	1.1	0.2	0.8	0.1	0.579	0.1	0.3
272087	15.7	3.72	4.6	1.6	0.24	0.015	0.03	< 0.02	0.39	0.04	< 0.02	0.86	42.6	9.2	19.6	2.1	7.37	1.3	0.3	1.1	0.1	0.753	0.1	0.3
272088	11.2	2.98	2.7	1.2	0.14	< 0.002	< 0.01	< 0.02	0.30	0.04	< 0.02	0.65	39.6	7.4	15.3	1.7	6.35	1.1	0.2	0.9	0.1	0.612	0.1	0.3
272089	14.9	3.46	2.6	1.5	0.25	0.032	0.03	< 0.02	0.37	0.06	0.03	1.12	50.7	8.5	16.9	1.9	6.98	1.2	0.2	0.9	0.1	0.628	0.1	0.3
272090	16.0	4.42	3.1	1.9	0.22	0.016	0.03	< 0.02	0.42	0.04	0.03	0.95	31.9	11.4	22.3	2.6	8.92	1.5	0.3	1.1	0.1	0.760	0.1	0.4
272091	13.2	2.80	1.4	1.6	0.30	0.043	0.05	< 0.02	0.38	0.05	< 0.02	0.99	50.1	8.7	17.4	1.9	6.77	1.2	0.2	0.9	0.1	0.589	< 0.1	0.3
272092	12.4	3.12	1.5	2.0	0.28	0.022	0.03	< 0.02	0.49	0.06	< 0.02	0.93	34.6	8.3	16.5	1.9	6.99	1.2	0.2	0.9	0.1	0.581	0.1	0.3
272093	15.5	3.24	2.0	1.7	0.25	0.027	0.03	< 0.02	0.45	0.04	< 0.02	0.78	33.0	8.5	17.0	2.0	6.84	1.2	0.2	0.8	0.1	0.562	0.1	0.3
272094	14.6	4.44	1.8	1.7	0.20	0.037	0.03	< 0.02	0.31	0.05	< 0.02	0.68	40.1	11.6	24.1	2.7	9.25	1.6	0.3	1.3	0.2	0.861	0.2	0.4
272095	12.3	3.02	2.4	2.0	0.36	0.041	0.02	< 0.02	0.42	0.06	< 0.02	0.84	33.2	8.4	16.8	1.9	6.60	1.2	0.2	0.9	0.1	0.617	0.1	0.3
272096	16.4	3.74	2.9	2.0	1.08	0.076	0.02	< 0.02	0.47	0.05	< 0.02	0.80	42.9	9.9	21.2	2.2	7.76	1.3	0.2	1.0	0.1	0.653	0.1	0.3
272097	14.6	4.34	3.5	1.9	0.45	0.038	0.01	< 0.02	0.29	0.04	< 0.02	0.80	33.8	9.3	19.2	2.2	7.76	1.4	0.3	1.1	0.1	0.780	0.1	0.4
272098	11.8	3.12	2.3	1.9	0.43	0.037	0.02	< 0.02	0.37	0.05	< 0.02	0.76	33.9	7.7	15.8	1.7	6.18	1.1	0.2	1.0	0.1	0.648	0.1	0.3
272099	14.4	3.16	2.5	1.9	0.47	0.034	0.02	< 0.02	0.48	0.06	< 0.02	1.05	36.6	8.8	17.2	2.1	7.51	1.3	0.3	1.0	0.1	0.614	0.1	0.3
272100	15.7	3.40	3.8	2.0	0.32	0.025	0.02	< 0.02	0.34	0.05	< 0.02	0.82	40.6	7.4	17.9	1.8	6.22	1.1	0.2	0.8	0.1	0.579	0.1	0.3
272101	17.4	3.59	4.7	1.8	0.31	0.015	0.01	< 0.02	0.42	0.06	< 0.02	0.67	47.6	8.2	19.5	1.9	6.41	1.1	0.2	0.9	0.1	0.605	0.1	0.3
272102	14.9	4.66	5.1	1.7	0.20	< 0.002	0.01	< 0.02	0.36	0.05	< 0.02	0.44	23.8	12.0	27.7	2.8	9.89	1.8	0.4	1.5	0.2	1.04	0.2	0.5
282001	13.4	3.94	4.7	2.0	0.47	< 0.002	0.01	< 0.02	0.34	0.05	< 0.02	1.33	18.4	15.6	29.8	3.5	12.0	1.9	0.4	1.4	0.2	0.835	0.1	0.4
282002	17.2	3.85	4.4	2.9	1.43	< 0.002	0.04	< 0.02	0.66	0.08	< 0.02	3.13	51.0	11.5	21.7	2.5	8.84	1.5	0.3	1.1	0.1	0.748	0.1	0.3

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282003	10.9	3.41	3.4	1.8	0.42	< 0.002	0.01	< 0.02	0.22	0.05	< 0.02	0.86	14.2	12.5	22.5	2.6	8.69	1.5	0.3	1.2	0.1	0.746	0.1	0.3
282004	13.5	3.81	4.7	2.6	0.91	< 0.002	0.04	< 0.02	0.34	0.07	0.02	1.44	21.4	12.7	23.5	2.6	9.10	1.6	0.3	1.3	0.2	0.841	0.1	0.4
282005	11.5	3.33	8.2	2.3	0.63	< 0.002	0.01	< 0.02	0.35	0.07	< 0.02	1.21	20.8	8.6	16.3	1.9	6.99	1.2	0.3	1.0	0.1	0.648	0.1	0.3
282006	12.6	5.25	4.2	1.8	0.59	< 0.002	< 0.01	< 0.02	0.31	0.06	0.02	0.83	14.4	15.3	29.4	3.3	11.6	1.9	0.4	1.5	0.2	0.993	0.2	0.4
282007	16.1	2.71	6.2	2.7	1.09	0.014	0.02	< 0.02	0.50	0.08	< 0.02	2.52	27.5	8.3	15.5	1.7	5.83	1.0	0.2	0.8	< 0.1	0.516	< 0.1	0.2
282008	14.8	2.52	4.6	2.4	0.87	0.083	0.02	< 0.02	0.54	0.05	< 0.02	2.33	32.5	7.8	14.1	1.6	5.77	1.0	0.2	0.8	< 0.1	0.504	< 0.1	0.2
282009	12.8	4.00	4.4	1.8	0.36	0.036	0.01	< 0.02	0.36	0.03	< 0.02	2.06	47.1	11.0	22.9	2.7	10.0	1.8	0.4	1.4	0.2	0.830	0.1	0.4
282010	19.6	4.45	5.3	2.0	0.46	0.005	0.02	< 0.02	0.36	0.07	0.02	1.33	17.8	8.7	17.9	2.1	7.79	1.3	0.3	1.1	0.1	0.760	0.1	0.4
282011	14.2	3.90	4.5	2.3	0.60	< 0.002	0.03	< 0.02	0.33	0.07	< 0.02	0.93	26.0	9.2	17.0	2.0	6.92	1.2	0.3	1.0	0.1	0.804	0.1	0.3
282012	16.6	4.50	4.7	1.7	0.39	< 0.002	< 0.01	< 0.02	0.30	0.03	< 0.02	0.72	13.7	18.2	28.5	3.4	11.7	1.9	0.4	1.6	0.2	0.905	0.2	0.4
282013	16.3	3.18	3.8	2.0	0.66	< 0.002	0.02	< 0.02	0.43	0.08	< 0.02	0.85	46.8	8.1	15.9	1.9	6.68	1.2	0.3	1.0	0.1	0.633	0.1	0.3
282014	18.7	6.70	3.0	1.2	0.22	0.006	0.01	< 0.02	0.27	0.04	< 0.02	0.67	27.1	13.6	27.6	3.5	12.9	2.3	0.5	1.8	0.2	1.21	0.2	0.6
282015	19.7	3.99	4.4	1.5	0.85	< 0.002	0.02	< 0.02	0.49	0.06	< 0.02	0.96	39.0	9.8	18.7	2.1	7.15	1.2	0.3	1.0	0.1	0.696	0.1	0.3
282016	11.2	1.80	11.1	1.7	0.37	< 0.002	0.03	< 0.02	0.40	0.17	< 0.02	1.54	50.3	3.7	6.93	0.8	2.80	0.5	0.2	0.5	< 0.1	0.358	< 0.1	0.2
282017	14.5	3.53	4.4	1.9	0.51	< 0.002	0.02	< 0.02	0.41	0.05	< 0.02	1.67	23.9	9.4	18.5	2.2	7.64	1.3	0.3	1.0	0.1	0.690	0.1	0.3
282018	18.3	3.96	6.1	1.9	0.45	< 0.002	0.02	< 0.02	0.47	0.05	< 0.02	1.66	28.7	8.6	17.9	2.1	7.02	1.3	0.2	1.0	0.1	0.692	0.1	0.3
282019	18.7	3.20	3.9	2.3	0.44	< 0.002	0.03	< 0.02	0.37	0.06	< 0.02	1.17	23.9	8.3	16.2	1.8	6.21	1.1	0.2	0.9	0.1	0.620	0.1	0.3
282020	15.7	5.23	7.5	2.0	1.09	0.056	< 0.01	< 0.02	0.41	0.07	0.02	0.95	21.8	14.1	26.1	3.0	10.5	1.7	0.4	1.5	0.2	0.946	0.2	0.5
282021	21.7	6.67	5.9	2.2	0.63	0.012	0.02	< 0.02	0.38	0.07	0.04	1.01	23.1	21.3	39.8	4.4	14.7	2.2	0.5	1.7	0.2	1.10	0.2	0.5
282022	15.8	2.90	4.5	2.3	0.90	0.005	0.07	< 0.02	0.47	0.09	< 0.02	2.02	33.0	9.6	17.7	2.0	6.67	1.1	0.2	0.9	0.1	0.604	0.1	0.3
282023	12.0	2.92	3.6	1.9	0.41	< 0.002	0.02	< 0.02	0.30	0.05	< 0.02	1.09	10.7	7.1	13.5	1.6	5.78	1.0	0.2	0.9	0.1	0.615	0.1	0.3
282024	15.1	3.14	4.7	1.9	0.38	< 0.002	0.01	< 0.02	0.44	0.06	< 0.02	0.67	16.1	7.4	14.7	1.7	6.23	1.1	0.2	0.9	0.1	0.606	0.1	0.3
282025	10.9	1.93	2.0	1.0	0.26	< 0.002	< 0.01	< 0.02	0.30	0.02	0.04	0.49	11.9	4.9	9.24	1.1	3.95	0.7	0.1	0.5	< 0.1	0.325	< 0.1	0.2
282026	15.2	3.74	3.0	2.2	0.35	0.007	0.03	< 0.02	0.37	0.06	< 0.02	0.80	28.8	8.0	15.4	1.8	6.41	1.1	0.3	1.0	0.1	0.693	0.1	0.3
282027	16.6	3.21	3.8	1.2	0.37	< 0.002	< 0.01	< 0.02	0.30	0.04	< 0.02	0.82	12.7	6.5	12.4	1.5	5.20	0.9	0.2	0.9	0.1	0.616	0.1	0.3
282028	16.9	3.87	5.8	1.3	0.37	< 0.002	< 0.01	< 0.02	0.34	0.04	< 0.02	0.67	20.5	8.1	16.2	1.9	6.90	1.2	0.3	1.1	0.1	0.708	0.1	0.4
282029	18.8	3.54	5.0	2.3	0.59	< 0.002	< 0.01	< 0.02	0.46	0.05	< 0.02	0.86	15.4	7.1	13.8	1.7	5.91	1.0	0.2	0.8	0.1	0.559	0.1	0.3
282030	12.7	4.37	4.1	1.8	0.63	< 0.002	0.03	< 0.02	0.54	0.09	< 0.02	1.68	34.6	8.8	16.1	1.9	6.32	1.1	0.2	0.9	0.1	0.763	0.1	0.4
282031	16.9	3.32	4.4	2.8	0.89	< 0.002	0.04	< 0.02	0.68	0.06	< 0.02	2.06	40.0	9.7	19.4	2.2	7.62	1.3	0.3	1.1	0.1	0.714	0.1	0.3
282032	7.0	3.79	7.7	1.6	1.05	< 0.002	0.04	< 0.02	0.68	0.16	< 0.02	1.53	57.3	4.5	8.34	1.0	3.44	0.7	0.2	0.7	0.1	0.667	0.1	0.4
282033	6.8	7.48	8.4	0.7	0.84	0.002	0.03	0.02	0.59	0.21	< 0.02	1.76	32.5	2.9	5.80	0.7	2.70	0.6	0.2	0.8	0.2	1.08	0.2	0.7
282034	14.6	2.77	4.3	2.1	0.30	0.003	0.04	< 0.02	0.57	0.06	< 0.02	0.91	22.6	6.8	13.4	1.6	5.59	1.0	0.2	0.9	0.1	0.591	0.1	0.3
282035	12.6	3.27	2.9	2.2	0.27	0.020	0.05	< 0.02	0.52	0.06	< 0.02	1.07	24.8	10.0	19.8	2.3	8.16	1.3	0.3	1.2	0.1	0.700	0.1	0.3
282036	15.6	4.21	3.4	1.8	0.24	< 0.002	0.05	< 0.02	0.50	0.05	< 0.02	0.65	20.1	8.2	17.9	2.2	8.09	1.5	0.3	1.2	0.1	0.800	0.1	0.4
282037	11.7	3.35	3.5	1.8	0.19	< 0.002	0.02	< 0.02	0.41	0.04	< 0.02	0.58	12.1	7.1	14.6	1.7	6.00	1.0	0.2	0.8	< 0.1	0.575	0.1	0.3
282038	20.1	4.63	3.4	1.8	0.21	0.003	0.06	< 0.02	0.52	0.03	0.02	1.45	39.0	11.6	22.9	2.5	8.69	1.5	0.3	1.2	0.2	0.856	0.2	0.4
282039	14.8	4.21	3.1	1.6	0.18	< 0.002	0.04	< 0.02	0.34	0.04	< 0.02	0.71	33.0	10.5	22.2	2.4	8.36	1.5	0.3	1.3	0.2	0.894	0.2	0.4
282040	14.9	4.13	5.0	2.3	0.21	0.012	0.04	< 0.02	0.40	0.04	< 0.02	0.78	40.0	9.2	19.5	2.2	7.80	1.4	0.3	1.2	0.1	0.790	0.2	0.4
282041	16.1	3.30	5.8	2.9	0.50	< 0.002	0.05	< 0.02	0.57	0.08	< 0.02	0.88	23.5	7.5	15.2	1.7	5.93	1.0	0.2	0.8	< 0.1	0.533	0.1	0.3
282042	14.3	2.65	2.2	1.5	0.22	0.018	0.01	< 0.02	0.44	0.06	< 0.02	0.61	22.8	7.9	15.5	1.7	5.96	1.0	0.2	0.8	< 0.1	0.488	< 0.1	0.2
282043	13.4	3.26	2.8	2.1	0.27	0.022	0.02	< 0.02	0.48	0.05	< 0.02	1.02	27.9	8.7	16.5	1.9	6.60	1.2	0.2	1.0	0.1	0.692	0.1	0.3
282044	14.1	3.50	3.4	1.9	0.28	< 0.002	0.03	< 0.02	0.55	0.04	< 0.02	0.92	35.4	10.6	20.8	2.4	8.52	1.5	0.3	1.2	0.1	0.693	0.1	0.3
282045	13.9	2.76	2.8	1.6	0.26	0.019	0.01	< 0.02	0.42	0.05	< 0.02	0.70	16.6	7.1	13.9	1.6	5.61	1.0	0.2	0.7	< 0.1	0.473	< 0.1	0.2
282046	14.5	3.41	3.3	1.8	0.18	0.009	0.01	< 0.02	0.36	0.05	< 0.02	0.65	22.6	8.5	17.4	1.8	6.38	1.1	0.2	0.9	0.1	0.610	0.1	0.3
282047	12.9	3.05	2.2	1.6	0.17	0.014	0.01	< 0.02	0.41	0.04	< 0.02	0.67	16.8	8.5	17.0	1.9	6.95	1.2	0.2	1.0	0.1	0.641	0.1	0.3
282048	16.1	4.50	2.5	1.8	0.20	0.008	0.02	< 0.02	0.46	0.05	< 0.02	0.68	27.9	9.9	20.4	2.3	8.36	1.4	0.3	1.1	0.1	0.779	0.1	0.4
282049	17.4	4.26	2.2	1.5	0.18	0.014	0.03	< 0.02	0.44	0.05	< 0.02	0.81	52.6	9.6	19.3	2.2	7.57	1.3	0.3	1.0	0.1	0.692	0.1	0.3
282050	15.2	3.14	2.2	1.4	0.17	0.022	0.03	< 0.02	0.43	0.03	< 0.02	0.81	29.2	7.9	15.1	1.8	6.09	1.1	0.2	0.9	0.1	0.594	0.1	0.3
282051	13.6	3.19	2.5	1.4	0.93	0.099	0.03	< 0.02	0.46	0.04	< 0.02	0.81	34.7	8.4	16.2	1.9	6.92	1.2	0.2	1.0	0.1	0.618	0.1	0.3
282052	17.5	3.63	3.3	1.4	0.37	0.027	0.02	< 0.02	0.47	0.04	< 0.02	0.56	29.1	8.2	16.3	1.9	6.77	1.2	0.3	0.9	0.1	0.607	0.1	0.3
282053	16.2	3.27	2.8	1.7	0.38	0.039	0.02	< 0.02	0.44	0.05	< 0.02	0.83	29.9	8.9	16.9	1.9	6.58	1.1	0.2	0.9	0.1	0.587	0.1	0.3
282054	14.2	6.28	3.0	1.4	0.18	0.014	0.01	< 0.02	0.27	0.03	< 0.02	0.61	24.2	20.4	42.8	4.4	14.9	2.4	0.5	2.1	0.2	1.26	0.2	0.6

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282055	10.3	1.75	3.0	1.4	0.31	< 0.002	0.01	< 0.02	0.48	0.05	< 0.02	0.45	23.0	6.1	11.8	1.4	4.77	0.8	0.1	0.6	< 0.1	0.351	< 0.1	0.2
282056	13.3	2.58	4.3	2.3	0.37	0.002	0.01	< 0.02	0.60	0.06	< 0.02	0.42	19.2	8.6	17.1	1.9	6.49	1.0	0.2	0.8	< 0.1	0.461	< 0.1	0.2
282057	15.5	3.23	3.1	1.8	0.25	0.021	< 0.01	< 0.02	0.46	0.04	< 0.02	0.62	26.7	9.0	18.5	2.0	6.85	1.2	0.2	0.9	0.1	0.585	0.1	0.3
282058	12.7	3.22	2.5	1.8	0.22	0.013	0.01	< 0.02	0.38	0.04	< 0.02	0.68	24.0	8.4	16.7	1.8	6.34	1.1	0.2	0.9	0.1	0.628	0.1	0.3
282059	15.8	3.78	2.8	1.6	0.17	0.007	< 0.01	< 0.02	0.43	0.04	< 0.02	0.60	28.1	10.3	20.7	2.3	8.01	1.4	0.3	1.1	0.1	0.684	0.1	0.3
282060	17.4	3.63	2.6	1.9	0.22	0.015	0.05	< 0.02	0.39	0.04	< 0.02	0.88	47.0	8.7	16.9	2.0	6.71	1.2	0.2	0.9	0.1	0.608	0.1	0.3
282061	15.8	3.03	1.7	1.6	0.19	0.004	0.03	< 0.02	0.43	0.04	< 0.02	0.60	50.9	8.9	16.7	1.9	6.69	1.2	0.2	1.0	0.1	0.612	0.1	0.3
282062	16.0	3.91	1.9	1.6	0.17	0.007	0.02	< 0.02	0.35	0.05	0.03	0.94	43.2	8.9	18.3	2.0	7.39	1.4	0.3	1.1	0.1	0.761	0.1	0.4
282063	15.8	3.27	1.8	1.5	0.20	0.021	0.03	< 0.02	0.44	0.04	< 0.02	0.82	31.8	9.0	17.4	2.0	7.16	1.2	0.2	0.9	0.1	0.556	0.1	0.3
282064	15.6	4.65	1.6	1.6	0.18	0.021	0.04	< 0.02	0.36	0.04	< 0.02	0.55	26.0	11.5	23.7	2.6	9.06	1.5	0.3	1.1	0.1	0.780	0.1	0.4
282065	14.7	3.33	1.9	1.6	0.20	0.035	0.02	< 0.02	0.41	0.04	< 0.02	0.79	40.8	8.9	17.4	1.9	6.47	1.1	0.2	0.9	0.1	0.612	0.1	0.3
282066	11.9	2.71	1.3	1.5	0.22	0.035	0.03	< 0.02	0.39	0.05	< 0.02	0.79	27.2	7.0	14.2	1.5	5.47	1.0	0.2	0.8	< 0.1	0.522	< 0.1	0.2
282067	16.3	4.08	3.2	2.1	0.27	0.013	0.02	< 0.02	0.47	0.06	< 0.02	0.79	31.9	9.6	19.2	2.2	7.86	1.4	0.3	1.1	0.1	0.705	0.1	0.4
282068	16.3	3.57	1.3	1.4	0.22	0.011	0.03	< 0.02	0.40	0.04	< 0.02	0.72	54.5	8.7	18.3	1.9	6.75	1.1	0.2	0.9	0.1	0.608	0.1	0.3
282069	14.6	3.37	2.4	1.6	0.19	0.019	0.02	< 0.02	0.36	0.04	< 0.02	0.58	26.8	8.4	17.4	1.8	6.36	1.1	0.2	0.9	0.1	0.612	0.1	0.3
282070	13.0	2.79	2.3	1.5	0.15	< 0.002	0.01	< 0.02	0.39	0.05	< 0.02	0.47	23.4	7.5	14.6	1.7	5.95	1.1	0.2	0.9	0.1	0.566	0.1	0.2
282071	15.9	4.57	3.2	2.3	0.26	0.047	0.01	< 0.02	0.39	0.04	< 0.02	0.69	18.3	10.9	22.3	2.4	8.55	1.5	0.3	1.2	0.2	0.792	0.1	0.4
282072	14.4	3.25	3.4	1.9	0.28	0.025	0.02	< 0.02	0.46	0.04	< 0.02	0.76	23.5	7.8	15.2	1.7	5.86	1.0	0.2	0.8	< 0.1	0.542	< 0.1	0.3
282073	13.7	2.91	2.8	2.0	0.10	< 0.002	0.03	< 0.02	0.50	0.04	< 0.02	0.68	27.9	10.4	20.5	2.3	8.06	1.4	0.2	1.1	0.1	0.650	0.1	0.3
282074	16.7	3.75	3.0	2.0	0.35	0.011	0.03	< 0.02	0.41	0.05	< 0.02	0.91	40.1	8.5	17.6	2.0	7.08	1.2	0.3	1.0	0.1	0.639	0.1	0.3
282075	14.2	2.82	2.9	1.4	0.17	0.010	0.01	< 0.02	0.40	0.03	< 0.02	0.57	23.3	7.1	13.9	1.6	5.51	0.9	0.2	0.7	< 0.1	0.449	< 0.1	0.2
282076	14.0	2.99	3.0	1.5	0.16	0.002	< 0.01	< 0.02	0.37	0.03	< 0.02	0.49	18.7	8.1	17.5	1.8	5.97	1.0	0.2	0.7	< 0.1	0.518	< 0.1	0.2
282077	13.5	2.87	2.3	1.9	0.28	0.030	0.01	< 0.02	0.39	0.04	< 0.02	0.80	31.3	7.9	15.3	1.7	6.07	1.1	0.2	0.9	0.1	0.583	0.1	0.3
282078	14.0	4.36	2.7	2.0	0.26	0.011	0.03	< 0.02	0.44	0.05	< 0.02	0.73	33.5	11.8	24.4	2.6	9.40	1.6	0.3	1.3	0.2	0.840	0.2	0.4
282079	16.9	4.65	3.3	1.8	0.27	0.004	0.02	< 0.02	0.41	0.04	< 0.02	0.75	30.4	9.7	20.2	2.3	8.18	1.5	0.3	1.1	0.1	0.768	0.1	0.4
282080	21.4	3.60	3.7	1.3	0.26	0.036	0.02	< 0.02	0.41	0.05	0.03	0.88	32.7	6.7	14.2	1.5	5.08	0.9	0.2	0.7	< 0.1	0.571	0.1	0.3
282081	13.5	3.82	2.4	1.6	0.19	0.034	0.01	< 0.02	0.31	0.05	< 0.02	0.68	28.6	9.7	22.5	2.2	7.56	1.3	0.3	1.1	0.1	0.772	0.1	0.3
282082	13.1	3.19	2.4	1.8	0.23	0.009	0.02	< 0.02	0.49	0.05	< 0.02	0.87	25.8	10.6	20.2	2.4	8.22	1.5	0.2	1.1	0.1	0.649	0.1	0.3
282083	16.5	3.91	3.1	2.2	1.01	0.118	0.02	< 0.02	0.48	0.04	< 0.02	0.80	27.3	10.7	20.7	2.3	7.92	1.3	0.2	1.0	0.1	0.666	0.1	0.3
282084	13.4	3.08	2.8	2.0	1.12	0.071	0.02	< 0.02	0.47	0.09	0.08	0.78	32.9	9.5	18.1	2.0	7.29	1.3	0.2	1.0	0.1	0.622	0.1	0.3
282085	13.2	2.92	4.6	2.1	0.62	0.066	0.03	< 0.02	0.43	0.09	0.02	0.90	36.1	8.8	18.1	1.9	6.81	1.2	0.2	0.9	< 0.1	0.514	< 0.1	0.2
282086	16.5	4.09	4.9	2.1	0.48	0.023	0.04	< 0.02	0.43	0.08	0.03	1.04	44.4	9.8	19.9	2.2	7.52	1.3	0.2	0.9	0.1	0.657	0.1	0.3
282087	14.8	4.46	5.7	1.4	0.23	0.006	0.03	< 0.02	0.27	0.06	< 0.02	0.55	29.3	9.8	25.7	2.2	7.55	1.4	0.3	1.1	0.1	0.805	0.2	0.4
282088	18.2	5.61	2.5	1.6	0.23	0.008	0.03	< 0.02	0.37	0.06	0.02	0.88	53.3	12.6	27.3	2.8	9.97	1.8	0.4	1.6	0.2	1.05	0.2	0.5
282089	13.8	3.10	1.8	1.5	0.34	0.015	0.01	< 0.02	0.44	0.07	< 0.02	0.58	33.1	9.2	17.8	2.1	7.34	1.3	0.2	0.9	0.1	0.566	0.1	0.3
292001	18.8	5.26	7.9	1.7	0.40	< 0.002	0.02	< 0.02	0.35	0.05	< 0.02	1.43	24.9	9.4	18.5	2.2	7.81	1.4	0.3	1.1	0.1	0.765	0.2	0.4
292002	17.8	3.10	4.8	1.9	0.80	0.013	0.03	< 0.02	0.56	0.05	< 0.02	2.49	26.1	9.5	18.4	2.1	6.91	1.2	0.2	0.8	0.1	0.557	0.1	0.3
292003	11.3	2.99	7.2	2.2	0.80	0.007	0.02	< 0.02	0.42	0.07	< 0.02	1.93	33.2	6.9	13.3	1.5	5.32	1.0	0.2	0.8	0.1	0.623	0.1	0.3
292004	15.0	4.73	8.6	2.8	0.91	< 0.002	0.03	< 0.02	0.45	0.08	< 0.02	1.83	39.3	17.1	31.5	3.5	12.1	2.1	0.4	1.6	0.2	0.966	0.2	0.4
292005	17.0	3.47	3.0	2.0	0.88	< 0.002	0.05	< 0.02	0.42	0.08	< 0.02	1.02	27.5	9.7	18.9	2.1	7.42	1.2	0.2	0.9	0.1	0.595	0.1	0.3
292006	15.6	4.48	4.8	2.1	0.34	< 0.002	0.02	< 0.02	0.39	0.05	< 0.02	1.22	29.3	11.6	23.2	2.6	8.86	1.5	0.3	1.1	0.1	0.807	0.1	0.4
292007	16.9	4.86	5.6	1.2	0.23	0.005	< 0.01	< 0.02	0.39	0.03	< 0.02	1.13	34.9	13.8	28.7	3.1	11.3	2.0	0.4	1.5	0.2	0.973	0.2	0.4
292008	15.6	2.64	4.0	2.0	0.62	< 0.002	0.03	< 0.02	0.41	0.08	< 0.02	1.31	22.2	5.7	11.3	1.3	4.60	0.8	0.2	0.6	< 0.1	0.422	< 0.1	0.2
292009	34.4	3.73	5.2	2.0	0.74	< 0.002	0.04	< 0.02	0.56	0.08	< 0.02	1.08	29.3	8.3	16.1	1.8	6.30	1.1	0.2	0.8	0.1	0.601	0.1	0.3
292010	10.3	3.36	6.5	2.4	0.79	< 0.002	0.03	< 0.02	0.40	0.17	< 0.02	1.36	35.5	9.7	18.4	1.9	6.70	1.2	0.2	1.0	0.1	0.700	0.1	0.3
292011	14.0	3.21	5.0	1.8	0.79	< 0.002	0.02	< 0.02	0.73	0.10	< 0.02	1.36	35.1	9.0	16.8	1.9	6.72	1.2	0.2	1.0	0.1	0.652	0.1	0.3
292012	14.1	4.61	5.2	2.4	0.94	< 0.002	0.02	< 0.02	0.46	0.10	< 0.02	1.18	27.2	15.9	30.1	3.4	11.8	1.9	0.3	1.5	0.2	0.895	0.2	0.4
292013	13.4	3.83	5.3	2.6	0.88	< 0.002	0.04	< 0.02	0.55	0.12	< 0.02	1.67	39.7	8.9	17.1	1.9	6.77	1.2	0.2	0.9	0.1	0.690	0.1	0.3
292014	19.9	6.01	6.9	1.9	0.49	< 0.002	0.01	< 0.02	0.32	0.05	0.02	1.50	42.0	16.9	31.5	3.6	12.9	2.2	0.5	1.8	0.2	1.16	0.2	0.5
292015	13.4	2.49	7.1	2.3	0.83	< 0.002	0.02	< 0.02	0.55	0.09	< 0.02	1.29	30.9	6.8	12.7	1.4	4.93	0.9	0.2	0.7	< 0.1	0.476	< 0.1	0.2
292016	24.1	8.05	3.0	1.9	0.21	0.002	0.02	< 0.02	0.37	0.04	< 0.02	1.10	45.1	14.9	31.0	4.0	15.2	2.7	0.6	2.0	0.3	1.36	0.3	0.7
292017	18.8	4.18	5.7	1.9	0.49	< 0.002	< 0.01	< 0.02	0.50	0.05	< 0.02	1.14	38.3	10.6	21.4	2.4	8.48	1.5	0.3	1.1	0.1	0.718	0.1	0.4

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292018	15.7	2.57	5.0	1.9	0.68	0.005	0.03	< 0.02	0.46	0.06	< 0.02	1.56	34.3	6.5	13.1	1.4	4.91	0.8	0.2	0.7	< 0.1	0.480	< 0.1	0.2
292019	12.8	2.31	5.2	3.0	0.83	< 0.002	0.02	< 0.02	0.66	0.12	< 0.02	1.58	20.3	9.7	19.5	2.1	7.35	1.3	0.2	1.0	0.1	0.534	< 0.1	0.2
292020	13.8	3.82	6.9	2.3	0.38	< 0.002	0.03	< 0.02	0.35	0.06	< 0.02	1.08	25.6	8.9	18.7	2.1	7.65	1.4	0.3	1.1	0.1	0.740	0.1	0.3
292021	19.5	5.11	3.2	1.8	0.36	0.004	0.04	< 0.02	0.44	0.10	< 0.02	1.74	45.3	16.0	30.5	3.4	11.6	1.9	0.4	1.4	0.2	0.906	0.2	0.4
292022	17.9	3.95	5.7	0.9	0.27	< 0.002	0.03	< 0.02	0.34	0.04	< 0.02	1.46	59.0	10.4	20.7	2.2	7.88	1.4	0.3	1.2	0.1	0.792	0.1	0.4
292023	13.6	3.01	4.2	2.0	0.32	< 0.002	0.03	< 0.02	0.43	0.04	< 0.02	0.91	24.1	8.8	17.6	2.0	7.54	1.3	0.3	1.0	0.1	0.628	0.1	0.3
292024	17.0	5.50	3.8	1.9	0.14	< 0.002	< 0.01	< 0.02	0.30	0.03	< 0.02	0.64	21.3	11.4	25.1	3.0	10.9	2.0	0.4	1.5	0.2	1.02	0.2	0.5
292025	14.8	3.47	5.2	1.6	0.44	< 0.002	0.26	< 0.02	0.43	0.06	< 0.02	1.10	38.7	8.5	17.0	1.9	6.59	1.1	0.2	0.8	0.1	0.630	0.1	0.3
292026	11.5	3.17	4.7	1.8	1.07	0.069	0.04	< 0.02	0.34	0.05	0.02	1.03	33.0	7.8	16.0	1.8	6.58	1.2	0.3	1.0	0.1	0.688	0.1	0.3
292027	14.8	2.83	5.2	3.1	0.79	0.002	0.05	< 0.02	0.58	0.07	0.04	1.28	37.0	6.8	13.5	1.6	5.80	1.1	0.2	0.8	0.1	0.545	< 0.1	0.3
292028	14.2	4.68	3.5	2.0	0.33	< 0.002	0.02	< 0.02	0.30	0.04	< 0.02	1.08	24.2	12.2	24.2	2.8	10.1	1.7	0.4	1.3	0.2	0.914	0.2	0.4
292029	15.9	5.38	4.3	1.2	0.20	< 0.002	< 0.01	< 0.02	0.30	0.04	< 0.02	1.04	31.3	13.6	27.8	3.3	11.6	2.0	0.4	1.5	0.2	1.03	0.2	0.5
292030	13.4	3.32	4.4	2.2	0.50	< 0.002	0.02	< 0.02	0.41	0.04	< 0.02	2.22	37.4	8.5	16.9	1.9	6.96	1.3	0.3	1.0	0.1	0.706	0.1	0.3
292031	11.4	2.53	3.6	2.1	0.53	< 0.002	0.04	< 0.02	0.47	0.06	< 0.02	0.99	24.8	6.9	15.0	1.6	5.90	1.0	0.2	0.8	< 0.1	0.494	< 0.1	0.3
292032	14.3	3.71	4.5	1.9	0.44	< 0.002	0.04	< 0.02	0.43	0.04	< 0.02	1.14	30.2	9.6	20.1	2.3	8.12	1.4	0.2	1.0	0.1	0.653	0.1	0.3
292033	13.5	3.31	3.8	1.3	0.34	< 0.002	0.03	< 0.02	0.33	0.03	< 0.02	1.16	28.5	8.0	16.4	1.9	6.58	1.1	0.2	0.9	0.1	0.671	0.1	0.3
292034	8.0	2.67	4.3	1.1	0.81	< 0.002	0.05	< 0.02	0.52	0.10	< 0.02	2.35	33.8	5.1	9.85	1.1	4.10	0.7	0.2	0.7	< 0.1	0.525	< 0.1	0.3
292035	7.9	6.20	8.2	2.4	1.12	0.008	0.05	0.02	0.85	0.23	0.02	1.50	35.0	6.3	13.3	1.7	6.46	1.4	0.3	1.2	0.2	1.02	0.2	0.5
292036	16.9	4.99	9.5	1.5	0.30	< 0.002	< 0.01	< 0.02	0.32	0.05	< 0.02	0.66	22.4	13.7	25.7	3.1	11.2	1.9	0.4	1.4	0.2	0.956	0.2	0.4
292037	72.8	7.69	16.4	1.3	0.70	0.017	0.06	0.03	0.49	0.06	< 0.02	3.46	139	41.8	87.4	12.5	47.8	7.2	1.6	4.5	0.5	1.98	0.3	0.7
292038	17.6	4.57	7.0	1.6	0.67	< 0.002	0.03	< 0.02	0.54	0.08	< 0.02	1.86	53.4	14.3	28.1	3.1	10.9	1.9	0.3	1.5	0.2	0.967	0.2	0.5
292039	24.3	4.48	7.3	2.0	0.70	< 0.002	0.03	< 0.02	0.63	0.07	< 0.02	1.25	53.3	10.7	21.9	2.5	9.13	1.5	0.3	1.1	0.1	0.792	0.1	0.4
292040	15.2	4.33	8.1	1.9	0.52	< 0.002	0.04	< 0.02	0.64	0.06	< 0.02	2.19	46.2	10.8	21.8	2.6	8.93	1.6	0.3	1.1	0.2	0.847	0.2	0.4
292041	12.0	2.53	4.7	2.3	0.34	< 0.002	0.02	< 0.02	0.48	0.06	< 0.02	1.43	23.0	8.2	16.4	1.8	6.21	1.0	0.2	0.8	0.1	0.562	< 0.1	0.3
292042	15.4	5.07	2.2	1.1	0.18	0.004	0.06	< 0.02	0.35	0.03	< 0.02	1.02	46.2	14.0	29.9	3.3	12.1	2.1	0.4	1.7	0.2	1.13	0.2	0.5
292043	15.6	4.57	3.6	1.8	0.20	< 0.002	0.03	< 0.02	0.42	0.03	< 0.02	0.75	48.4	11.9	25.5	3.0	11.0	1.9	0.4	1.4	0.2	0.927	0.2	0.4
292044	16.3	5.22	4.8	1.9	0.31	0.004	0.04	< 0.02	0.42	0.06	< 0.02	0.80	34.3	13.0	35.5	3.1	11.1	1.9	0.3	1.3	0.2	0.934	0.2	0.5
292045	13.0	3.02	4.5	1.9	0.34	0.023	0.02	< 0.02	0.43	0.05	< 0.02	0.86	38.5	8.3	17.6	1.9	6.63	1.1	0.2	0.8	0.1	0.606	0.1	0.3
292046	10.2	2.14	2.9	2.3	0.37	0.038	0.03	< 0.02	0.52	0.05	< 0.02	0.88	31.9	10.0	19.7	2.1	7.31	1.2	0.2	0.9	0.1	0.499	< 0.1	0.2
292047	9.1	1.95	2.4	1.5	0.19	0.018	< 0.01	< 0.02	0.39	0.03	< 0.02	0.47	19.7	7.4	14.9	1.7	6.01	1.0	0.2	0.7	< 0.1	0.416	< 0.1	0.2
292048	16.2	4.91	3.7	2.0	0.18	0.011	0.01	< 0.02	0.35	0.04	< 0.02	0.52	29.9	10.8	24.7	2.7	9.84	1.7	0.3	1.3	0.2	0.910	0.2	0.4
292049	12.2	2.80	2.6	1.7	0.24	0.020	< 0.01	< 0.02	0.37	0.04	< 0.02	0.73	44.3	8.4	18.1	1.9	6.77	1.2	0.2	0.9	0.1	0.609	0.1	0.3
292050	12.3	3.08	3.8	1.7	0.20	< 0.002	0.01	< 0.02	0.37	0.04	< 0.02	0.81	40.6	7.7	18.8	1.9	7.01	1.2	0.2	1.0	0.1	0.634	0.1	0.3
292051	15.3	4.11	4.6	2.1	0.25	0.003	0.02	< 0.02	0.41	0.05	< 0.02	0.87	48.2	9.6	24.5	2.4	8.65	1.5	0.3	1.1	0.1	0.733	0.1	0.4
292052	13.6	2.73	2.3	1.5	0.91	0.093	0.02	< 0.02	0.42	0.08	0.04	0.72	26.7	8.8	19.3	2.0	7.13	1.1	0.2	0.8	0.1	0.568	0.1	0.3
292053	11.6	2.97	2.5	1.5	0.40	0.055	0.03	< 0.02	0.36	0.07	< 0.02	0.94	49.8	9.1	17.9	2.1	7.57	1.3	0.2	1.1	0.1	0.711	0.1	0.3
292054	13.2	3.74	1.9	1.6	0.32	0.033	0.03	< 0.02	0.38	0.05	< 0.02	0.78	32.6	10.7	22.3	2.6	9.67	1.7	0.3	1.4	0.2	0.855	0.2	0.4
292055	14.7	4.47	2.8	2.0	0.38	0.058	0.03	< 0.02	0.43	0.06	< 0.02	0.87	41.6	12.5	27.1	3.2	11.6	2.0	0.3	1.4	0.2	0.892	0.2	0.4
292056	13.7	3.80	2.1	1.6	0.33	0.032	0.03	< 0.02	0.39	0.06	0.03	0.88	43.4	11.2	25.2	2.7	9.78	1.6	0.3	1.2	0.1	0.766	0.1	0.4
292057	13.8	3.59	3.0	1.7	0.30	0.048	0.02	< 0.02	0.34	0.06	< 0.02	0.72	41.7	10.6	23.5	2.4	8.68	1.5	0.3	1.2	0.2	0.829	0.1	0.4
292058	12.0	3.82	3.7	2.2	0.34	0.043	0.03	< 0.02	0.40	0.07	< 0.02	0.73	39.8	12.1	26.1	2.9	10.5	1.8	0.3	1.5	0.2	0.929	0.2	0.4
292059	13.1	3.54	3.2	2.1	0.30	0.036	0.02	< 0.02	0.40	0.06	< 0.02	0.69	39.4	10.9	23.8	2.7	9.64	1.6	0.3	1.1	0.1	0.712	0.1	0.3
292060	9.5	2.59	2.8	1.5	0.23	0.024	0.01	< 0.02	0.29	0.06	< 0.02	0.58	26.4	6.6	13.7	1.5	5.46	1.0	0.2	0.7	< 0.1	0.497	< 0.1	0.2
292061	11.6	2.35	3.8	2.2	0.38	0.032	0.03	< 0.02	0.50	0.05	< 0.02	0.96	34.3	8.4	16.3	1.9	6.41	1.1	0.2	0.8	0.1	0.533	< 0.1	0.2
292062	7.4	2.10	2.3	1.3	0.20	0.017	< 0.01	< 0.02	0.25	0.03	< 0.02	0.45	18.7	5.8	11.5	1.3	4.94	0.9	0.2	0.7	< 0.1	0.498	< 0.1	0.2
292063	11.0	3.03	2.8	1.7	0.30	0.013	0.02	< 0.02	0.41	0.06	< 0.02	0.58	24.0	9.4	19.9	2.4	8.75	1.5	0.2	1.1	0.1	0.656	0.1	0.3
292064	13.2	3.17	2.1	1.5	0.32	0.045	0.03	< 0.02	0.46	0.06	< 0.02	0.85	33.3	10.1	20.6	2.3	8.14	1.3	0.2	0.9	0.1	0.638	0.1	0.3
292065	13.0	4.40	2.9	1.5	0.34	0.017	0.02	< 0.02	0.43	0.05	< 0.02	0.80	50.1	11.5	24.0	2.7	9.84	1.8	0.3	1.5	0.2	1.04	0.2	0.5
292066	13.4	4.16	4.4	1.9	0.29	0.023	0.06	< 0.02	0.44	0.05	0.04	0.88	32.6	12.2	33.4	2.9	10.6	1.9	0.4	1.5	0.2	0.902	0.2	0.4
292067	17.3	4.60	7.8	2.3	0.25	0.017	0.03	< 0.02	0.45	0.05	< 0.02	0.87	43.8	11.5	26.7	2.9	10.3	1.8	0.3	1.2	0.2	0.860	0.2	0.4
292068	14.3	3.04	4.6	1.7	0.24	0.017	0.01	< 0.02	0.49	0.05	< 0.02	0.82	44.5	10.3	21.8	2.4	8.35	1.3	0.2	0.9	0.1	0.610	0.1	0.3
292069	12.7	3.71	3.2	1.9	0.26	0.030	0.01	< 0.02	0.40	0.04	< 0.02	0.92	45.6	10.8	22.8	2.5	9.15	1.6	0.3	1.3	0.2	0.884	0.2	0.4

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292070	11.1	2.02	0.7	1.1	0.30	0.013	0.01	< 0.02	0.36	0.04	< 0.02	0.78	31.4	8.4	16.9	2.0	7.10	1.2	0.2	0.9	0.1	0.503	< 0.1	0.2
292071	14.3	3.85	2.5	1.7	0.20	0.009	0.03	< 0.02	0.35	0.04	< 0.02	0.74	36.2	11.0	23.2	2.7	9.96	1.7	0.3	1.3	0.2	0.773	0.1	0.4
292072	16.1	4.28	2.9	1.7	0.22	0.012	0.03	< 0.02	0.44	0.04	< 0.02	0.75	48.1	11.0	24.6	2.7	9.67	1.7	0.3	1.1	0.2	0.828	0.2	0.4
292073	12.8	3.46	2.2	1.7	0.25	0.041	0.03	< 0.02	0.36	0.05	< 0.02	0.94	40.7	11.1	22.5	2.4	8.58	1.5	0.3	1.1	0.1	0.778	0.1	0.4
292074	10.7	2.84	2.1	1.7	0.25	0.023	0.02	< 0.02	0.39	0.04	< 0.02	0.70	31.0	8.3	16.7	1.9	6.96	1.2	0.2	1.0	0.1	0.645	0.1	0.3
292075	12.1	2.75	2.2	2.3	0.36	0.058	0.05	< 0.02	0.46	0.05	< 0.02	0.95	36.1	9.3	17.9	2.2	7.85	1.4	0.3	1.0	0.1	0.627	0.1	0.3
292076	12.6	3.21	2.4	1.8	0.23	0.038	0.04	< 0.02	0.38	0.03	< 0.02	0.84	29.4	8.9	17.3	2.1	7.44	1.3	0.2	0.9	0.1	0.652	0.1	0.3
292077	15.1	3.37	2.2	1.9	0.22	0.046	0.03	< 0.02	0.50	0.04	< 0.02	0.76	36.8	10.3	20.5	2.4	8.31	1.4	0.2	1.0	0.1	0.717	0.1	0.3
292078	11.5	2.94	2.8	1.8	0.27	0.021	0.03	< 0.02	0.41	0.04	< 0.02	0.68	25.1	8.8	17.4	2.1	7.53	1.3	0.3	1.0	0.1	0.661	0.1	0.3
292079	11.7	2.67	1.7	1.4	0.25	0.020	0.02	< 0.02	0.44	0.04	< 0.02	0.51	18.8	8.4	17.6	2.0	7.06	1.2	0.2	0.8	< 0.1	0.503	< 0.1	0.2
292080	12.6	2.88	2.0	1.3	0.23	0.025	0.01	< 0.02	0.38	0.05	< 0.02	0.69	27.5	8.6	22.2	2.0	7.08	1.2	0.2	0.8	0.1	0.577	0.1	0.3
292081	14.0	4.00	3.3	1.7	0.22	0.015	0.01	< 0.02	0.34	0.04	< 0.02	0.62	27.5	10.9	25.4	2.5	9.11	1.6	0.3	1.4	0.2	0.894	0.2	0.4
292082	12.3	2.80	3.2	1.9	0.40	0.051	0.03	< 0.02	0.40	0.07	< 0.02	1.10	45.7	8.3	17.6	1.9	6.98	1.2	0.2	1.0	0.1	0.611	0.1	0.3
292083	13.8	2.83	4.3	1.9	1.33	0.111	0.02	< 0.02	0.50	0.06	0.05	0.95	31.6	6.9	14.5	1.6	5.80	1.0	0.2	0.7	< 0.1	0.523	< 0.1	0.3
292084	11.9	3.06	3.2	1.1	0.51	0.046	0.02	< 0.02	0.43	0.04	0.03	0.84	54.9	7.8	16.2	1.6	5.76	1.0	0.2	0.9	0.1	0.653	0.1	0.3
292085	10.7	2.23	3.4	1.7	0.47	0.026	0.01	< 0.02	0.51	0.05	< 0.02	0.75	26.2	7.4	15.3	1.7	6.20	1.1	0.2	0.9	0.1	0.522	< 0.1	0.2
292086	13.9	3.79	4.1	1.8	0.27	0.003	0.03	< 0.02	0.34	0.04	< 0.02	0.62	22.3	9.0	20.4	2.3	8.51	1.5	0.3	1.2	0.1	0.776	0.1	0.4
292087	13.9	3.37	3.0	0.9	0.14	< 0.002	< 0.01	< 0.02	0.21	0.02	< 0.02	0.51	19.9	9.9	21.7	2.2	7.87	1.2	0.2	0.9	0.1	0.622	0.1	0.3
292088	15.0	4.19	3.0	1.4	0.20	0.010	0.01	< 0.02	0.39	0.03	< 0.02	0.82	35.5	11.6	25.7	2.7	9.40	1.6	0.3	1.2	0.2	0.882	0.2	0.4
292089	12.2	3.45	2.8	1.6	0.17	0.020	0.02	< 0.02	0.35	0.04	< 0.02	0.74	44.4	10.5	21.8	2.4	8.58	1.5	0.3	1.2	0.2	0.796	0.1	0.4
292090	12.0	3.17	0.9	1.0	0.27	0.020	0.04	< 0.02	0.42	0.05	< 0.02	0.75	50.4	9.6	19.7	2.4	8.69	1.5	0.3	1.1	0.1	0.697	0.1	0.3
292091	15.7	4.19	3.0	1.8	0.27	0.016	0.03	< 0.02	0.44	0.05	< 0.02	0.89	40.5	12.0	25.1	2.9	10.1	1.7	0.3	1.2	0.2	0.821	0.2	0.4
292092	13.7	3.47	3.7	1.7	0.22	0.008	0.01	< 0.02	0.38	0.04	< 0.02	0.82	48.5	10.0	22.1	2.3	8.10	1.4	0.3	1.2	0.2	0.780	0.1	0.4
292093	11.3	2.48	3.2	2.0	0.30	0.018	0.01	< 0.02	0.45	0.04	< 0.02	0.78	24.8	8.3	17.1	1.9	7.01	1.2	0.2	0.9	0.1	0.560	< 0.1	0.3
292094	12.9	3.25	3.6	2.2	0.26	0.031	0.02	< 0.02	0.44	0.04	< 0.02	0.68	27.5	9.0	18.9	2.2	7.89	1.3	0.3	1.0	0.1	0.660	0.1	0.3
292095	15.0	4.49	3.9	1.7	0.21	0.033	0.02	< 0.02	0.38	0.07	< 0.02	0.61	30.0	10.5	27.0	2.5	8.85	1.5	0.3	1.1	0.2	0.826	0.2	0.4
292096	12.8	3.30	3.7	1.5	0.26	0.012	0.02	< 0.02	0.40	0.04	< 0.02	0.89	42.7	9.7	20.8	2.3	8.00	1.4	0.3	1.1	0.1	0.761	0.1	0.4
292097	11.2	3.06	3.5	1.7	0.31	0.010	0.02	< 0.02	0.36	0.06	< 0.02	0.56	23.3	10.5	21.9	2.4	8.75	1.5	0.3	1.2	0.1	0.725	0.1	0.3
292098	12.8	3.04	5.5	2.3	0.37	0.019	0.02	< 0.02	0.56	0.04	< 0.02	0.87	30.5	9.3	19.0	2.3	8.28	1.4	0.3	1.0	0.1	0.601	0.1	0.3
292099	14.7	4.12	6.4	2.6	0.25	0.005	0.03	< 0.02	0.42	0.05	< 0.02	0.75	31.1	9.8	22.4	2.4	8.33	1.4	0.3	1.0	0.1	0.758	0.1	0.4
292100	16.2	4.61	3.4	1.6	0.16	0.006	0.03	< 0.02	0.36	0.02	< 0.02	0.77	33.9	11.3	23.9	2.8	9.87	1.7	0.4	1.4	0.2	0.980	0.2	0.5
292101	16.3	4.16	2.9	1.5	0.15	< 0.002	0.03	< 0.02	0.34	< 0.02	< 0.02	0.75	31.1	12.4	25.5	2.9	10.5	1.9	0.4	1.6	0.2	0.965	0.2	0.4

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272001	< 0.1	0.2	< 0.1	0.2	< 0.05	0.2	< 0.001	< 5	0.09	8.03	5.3	0.5
272002	< 0.1	0.3	< 0.1	0.1	< 0.05	0.3	0.001	< 5	0.07	5.12	3.4	0.4
272003	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	0.001	< 5	0.07	6.36	3.8	0.5
272004	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.07	5.78	3.6	0.4
272005	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	3.92	3.6	0.7
272006	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.27	2.7	0.4
272007	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	5.17	3.7	0.4
272008	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	5.12	2.6	0.3
272009	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.54	3.1	0.3
272010	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	0.002	33	0.05	4.00	3.6	0.4
272011	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.002	< 5	0.10	9.81	3.2	0.4
272012	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.6	0.002	< 5	0.06	3.39	3.0	0.3
272013	< 0.1	0.3	< 0.1	0.1	< 0.05	1.4	< 0.001	< 5	0.07	4.81	4.0	0.5
272014	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.09	7.92	3.2	0.4
272015	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.08	6.71	2.5	0.3
272016	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	0.001	< 5	0.07	4.07	2.3	0.3
272017	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.0	0.001	< 5	0.08	5.25	2.7	0.3
272018	< 0.1	0.3	< 0.1	0.3	< 0.05	0.2	0.002	< 5	0.12	3.99	2.8	0.4
272019	0.1	0.7	0.1	0.3	< 0.05	0.2	0.001	< 5	0.14	3.01	1.8	0.3
272020	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	8.52	1.6	0.3
272021	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	5.03	2.4	0.4
272022	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	5.66	1.0	0.2
272023	0.1	0.7	< 0.1	0.2	< 0.05	0.3	0.002	< 5	0.19	7.59	6.1	0.9
272024	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	3.94	3.2	0.3
272025	< 0.1	0.3	< 0.1	0.1	< 0.05	0.3	< 0.001	< 5	0.07	5.95	9.5	0.5
272026	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.88	4.0	0.4
272027	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	4.81	2.6	0.3
272028	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.62	2.4	0.5
272029	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.25	3.1	0.4
272030	< 0.1	0.2	< 0.1	0.1	< 0.05	0.3	0.001	< 5	0.07	10.4	3.2	0.4
272031	< 0.1	0.2	< 0.1	0.2	< 0.05	0.2	0.001	< 5	0.06	8.42	2.8	0.4
272032	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	5.08	2.9	0.4
272033	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1	0.002	< 5	0.08	4.23	3.9	0.6
272034	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	0.001	< 5	0.06	5.83	3.2	0.4
272035	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2	< 0.001	11	0.07	5.34	4.5	0.5
272036	< 0.1	0.2	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 5	0.10	5.13	2.0	0.4
272037	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.08	12.4	2.3	0.4
272038	< 0.1	0.3	< 0.1	0.3	< 0.05	0.2	0.001	< 5	0.06	8.24	1.4	0.3
272039	< 0.1	0.2	< 0.1	0.2	< 0.05	< 0.1	0.001	< 5	0.10	8.42	3.4	0.5
272040	< 0.1	0.2	< 0.1	0.2	< 0.05	1.6	0.002	< 5	0.09	8.44	1.7	0.3
272041	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.002	< 5	0.07	7.77	2.2	0.3
272042	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	0.001	< 5	0.10	7.79	6.3	0.5
272043	0.1	0.6	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.08	4.44	4.2	1.3
272044	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	5.38	1.4	0.4
272045	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.05	3.44	2.6	0.4
272046	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.69	4.3	0.5
272047	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.07	6.17	5.5	0.6
272048	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	4.42	4.0	0.4
272049	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.06	5.94	2.0	0.3
272050	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.97	2.4	0.3
272051	< 0.1	0.2	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.71	2.1	0.3
272052	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	80	0.06	6.37	2.7	0.4

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272053	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.08	7.50	3.7	0.4
272054	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.75	3.8	0.4
272055	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.03	3.4	0.4
272056	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.49	4.0	0.3
272057	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.06	6.54	2.7	0.3
272058	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	5.11	3.9	0.4
272059	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.02	3.1	0.4
272060	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	3.46	3.1	1.1
272061	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3	0.001	< 5	0.06	3.12	2.5	0.4
272062	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	3.10	3.3	0.4
272063	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.93	2.6	0.3
272064	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	6.28	2.7	0.4
272065	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	3.27	2.3	0.3
272066	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.21	1.9	0.3
272067	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	6.33	2.4	0.4
272068	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	4.68	2.5	0.3
272069	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	6.15	3.6	0.4
272070	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.83	2.4	0.3
272071	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	2.2	0.3
272072	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.53	2.7	0.4
272073	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.15	2.5	0.3
272074	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.77	3.6	0.4
272075	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.40	2.2	0.3
272076	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.36	2.0	0.3
272077	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.05	3.85	2.5	0.3
272078	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.19	2.4	0.4
272079	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.88	3.2	0.4
272080	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	5.35	2.4	0.3
272081	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.06	4.39	2.5	0.3
272082	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.58	2.0	0.3
272083	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.30	3.0	0.3
272084	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	3.78	2.8	0.4
272085	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	4.21	2.3	0.2
272086	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.67	2.6	0.3
272087	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.8	< 0.001	< 5	0.05	4.59	2.9	0.3
272088	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.07	2.2	0.3
272089	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.72	2.4	0.3
272090	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.31	2.8	0.3
272091	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.86	2.6	0.3
272092	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.07	6.18	1.9	0.3
272093	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.88	2.0	0.3
272094	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.57	3.6	0.4
272095	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.79	2.8	0.3
272096	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.08	4.78	2.0	0.3
272097	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.25	2.8	0.3
272098	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.05	5.60	2.6	0.3
272099	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	6.08	2.6	0.3
272100	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.15	2.4	0.3
272101	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.04	2.3	0.3
272102	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	16	0.06	3.65	3.8	0.3
282001	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	4.49	4.7	0.5
282002	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.11	10.1	5.0	0.5

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282003	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.04	4.58	3.2	0.5
282004	< 0.1	0.3	< 0.1	0.1	< 0.05	0.5	< 0.001	< 5	0.05	6.18	2.9	0.6
282005	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.06	4.73	3.5	0.5
282006	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	3.78	3.1	0.5
282007	< 0.1	0.2	< 0.1	0.1	< 0.05	1.0	< 0.001	< 5	0.07	7.29	2.9	0.4
282008	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	7.38	2.8	0.3
282009	< 0.1	0.3	< 0.1	< 0.1	0.08	0.1	< 0.001	< 5	0.10	4.60	3.4	0.4
282010	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	3.68	2.4	0.3
282011	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.05	5.25	2.7	0.5
282012	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.05	3.33	2.5	0.4
282013	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.06	6.24	2.6	0.4
282014	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.08	2.30	2.7	0.4
282015	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.06	5.30	2.6	0.4
282016	< 0.1	0.1	< 0.1	0.2	< 0.05	0.9	< 0.001	< 5	0.06	5.79	1.2	0.4
282017	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.05	5.24	3.5	0.4
282018	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	4.81	3.4	0.4
282019	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.34	3.3	0.3
282020	< 0.1	0.3	< 0.1	0.2	< 0.05	0.2	< 0.001	28	0.09	4.05	3.3	0.4
282021	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	4.55	3.9	0.5
282022	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	6.29	4.2	0.4
282023	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	3.23	2.5	0.3
282024	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.05	4.36	2.6	0.3
282025	< 0.1	0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.06	1.4	0.2
282026	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	3.79	2.3	0.3
282027	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	3.54	2.1	0.3
282028	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	3.96	2.7	0.4
282029	< 0.1	0.2	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.35	2.3	0.3
282030	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.11	5.78	2.5	0.4
282031	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.10	6.97	3.3	0.5
282032	< 0.1	0.3	< 0.1	0.2	< 0.05	0.5	0.001	< 5	0.11	9.06	1.7	0.3
282033	< 0.1	0.5	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.60	1.2	0.2
282034	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.52	2.6	0.3
282035	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	7.17	4.6	0.5
282036	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.97	3.3	0.4
282037	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.98	2.1	0.3
282038	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	5.35	3.1	0.6
282039	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.26	3.3	0.4
282040	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	0.001	< 5	0.06	5.52	3.4	0.3
282041	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	5.65	2.3	0.3
282042	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	35	0.05	4.23	2.1	0.3
282043	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.47	2.9	0.3
282044	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.27	3.4	0.4
282045	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.40	2.0	0.3
282046	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.78	3.1	0.3
282047	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.54	2.4	0.3
282048	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.01	2.8	0.3
282049	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.98	2.5	0.3
282050	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	3.71	2.0	0.3
282051	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.08	5.24	1.9	0.3
282052	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.66	2.0	0.3
282053	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.40	2.6	0.3
282054	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.17	6.5	0.5

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
282055	< 0.1	0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.73	2.2	0.2
282056	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.18	3.1	0.3
282057	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.44	2.8	0.3
282058	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.90	2.4	0.3
282059	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.83	2.9	0.3
282060	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.51	2.7	0.3
282061	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	4.97	2.1	0.3
282062	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.12	2.3	0.3
282063	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.77	1.8	0.3
282064	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.96	2.4	0.3
282065	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.28	2.5	0.3
282066	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.42	1.2	0.3
282067	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.99	2.7	0.3
282068	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.22	1.8	0.3
282069	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.62	2.4	0.3
282070	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.04	4.11	2.1	0.3
282071	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	5.15	2.9	0.3
282072	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.57	2.3	0.3
282073	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.50	3.0	0.3
282074	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.33	2.7	0.3
282075	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	1.8	0.2
282076	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.87	2.8	0.2
282077	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.70	3.1	0.3
282078	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	6.08	4.3	0.5
282079	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.97	2.8	0.3
282080	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	108	0.05	4.85	2.0	0.3
282081	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.04	4.29	3.4	0.4
282082	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.49	3.4	0.4
282083	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.47	3.0	0.3
282084	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	5.45	2.9	0.3
282085	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.07	5.56	3.2	0.3
282086	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	5.47	4.1	0.3
282087	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.05	2.90	3.6	0.3
282088	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	3.66	2.7	0.5
282089	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.80	2.0	0.3
292001	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	23	0.07	5.08	2.8	0.5
292002	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.09	7.24	3.2	0.5
292003	< 0.1	0.2	< 0.1	0.2	< 0.05	0.6	< 0.001	< 5	0.07	6.26	3.1	0.4
292004	< 0.1	0.3	< 0.1	0.2	< 0.05	0.4	< 0.001	< 5	0.09	8.49	7.0	0.7
292005	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.06	6.09	2.1	0.4
292006	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	4.70	4.4	0.4
292007	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.07	4.29	4.8	0.4
292008	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.85	1.7	0.2
292009	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.001	< 5	0.09	5.65	2.4	0.4
292010	< 0.1	0.2	< 0.1	0.1	< 0.05	1.4	< 0.001	< 5	0.08	6.88	4.4	0.5
292011	< 0.1	0.2	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.08	8.61	3.4	0.4
292012	< 0.1	0.3	< 0.1	0.1	< 0.05	0.4	< 0.001	< 5	0.08	6.90	6.6	0.5
292013	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.10	7.53	3.7	0.5
292014	< 0.1	0.4	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.08	3.65	3.8	0.5
292015	< 0.1	0.2	< 0.1	0.2	< 0.05	0.1	< 0.001	< 5	0.06	15.4	3.0	0.3
292016	< 0.1	0.6	< 0.1	< 0.1	< 0.05	1.1	< 0.001	< 5	0.08	3.46	3.2	0.5
292017	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.08	5.41	4.1	0.4

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292018	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.56	2.8	0.3
292019	< 0.1	0.2	< 0.1	0.1	< 0.05	1.0	< 0.001	< 5	0.07	6.08	5.3	0.4
292020	< 0.1	0.3	< 0.1	0.2	< 0.05	0.2	0.001	< 5	0.06	5.74	4.0	0.4
292021	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.93	2.7	0.4
292022	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.77	3.2	0.4
292023	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	5.45	2.8	0.5
292024	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	2.81	2.9	0.4
292025	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.94	2.6	0.4
292026	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.06	4.41	2.9	0.3
292027	< 0.1	0.2	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.07	6.87	2.7	0.3
292028	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	2.82	2.8	0.4
292029	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	2.56	3.8	0.4
292030	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.09	5.20	3.5	0.4
292031	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	0.002	< 5	0.05	5.03	2.1	0.3
292032	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.04	3.98	2.9	0.3
292033	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.56	2.4	0.3
292034	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.6	< 0.001	< 5	0.05	6.85	1.8	0.2
292035	< 0.1	0.4	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.05	10.1	1.6	0.3
292036	< 0.1	0.4	< 0.1	0.2	< 0.05	< 0.1	< 0.001	< 5	0.05	2.76	3.3	0.4
292037	< 0.1	0.5	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.12	12.5	5.2	1.0
292038	< 0.1	0.4	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.12	8.32	6.2	0.6
292039	< 0.1	0.4	< 0.1	0.1	< 0.05	2.0	< 0.001	< 5	0.12	7.02	3.3	0.5
292040	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	< 0.001	< 5	0.09	7.68	3.5	0.4
292041	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.42	3.2	0.3
292042	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	4.24	3.3	0.5
292043	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	4.01	2.6	0.4
292044	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.07	5.17	3.3	0.3
292045	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.44	2.4	0.3
292046	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.37	3.3	0.3
292047	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	40	0.05	4.46	2.2	0.2
292048	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	4.09	2.2	0.3
292049	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	9	0.05	4.99	2.3	0.3
292050	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.67	2.3	0.3
292051	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.89	2.4	0.3
292052	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.07	3.86	1.5	0.3
292053	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.34	2.3	0.3
292054	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.72	2.4	0.4
292055	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.41	3.3	0.4
292056	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.6	< 0.001	< 5	0.06	4.74	2.4	0.3
292057	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.07	2.7	0.3
292058	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.5	< 0.001	< 5	0.06	5.47	4.0	0.4
292059	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.86	2.7	0.3
292060	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.14	1.6	0.2
292061	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	5.23	2.3	0.3
292062	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.03	3.20	1.5	0.2
292063	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.20	3.3	0.3
292064	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.70	2.2	0.3
292065	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	4.78	3.8	0.7
292066	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	182	0.07	6.04	2.8	0.4
292067	< 0.1	0.4	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.79	3.1	0.3
292068	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.07	4.61	2.5	0.3
292069	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.14	3.1	0.4

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292070	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	4.09	1.8	0.2
292071	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.51	3.0	0.3
292072	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.87	2.3	0.3
292073	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.62	2.6	0.3
292074	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.75	2.1	0.3
292075	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.55	2.1	0.3
292076	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.50	1.7	0.3
292077	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.92	2.4	0.3
292078	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.57	2.3	0.3
292079	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.29	1.6	0.2
292080	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	75	0.05	3.97	2.1	0.3
292081	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.04	3.72	2.6	0.3
292082	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.06	6.30	2.6	0.3
292083	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.08	5.05	1.8	0.3
292084	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.22	2.9	0.4
292085	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.62	2.2	0.3
292086	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.03	2.2	0.3
292087	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	2.15	1.8	0.3
292088	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.66	2.8	0.3
292089	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.26	2.9	0.4
292090	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	5.00	1.4	0.3
292091	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	5.02	3.8	0.4
292092	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.91	3.1	0.3
292093	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.06	4.97	2.3	0.3
292094	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.01	2.4	0.3
292095	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.05	3.70	2.5	0.3
292096	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.41	3.4	0.3
292097	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.001	< 5	0.04	4.78	3.8	0.3
292098	< 0.1	0.2	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	6.52	2.9	0.3
292099	< 0.1	0.3	< 0.1	0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.10	2.3	0.3
292100	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	6	0.06	3.20	2.5	0.4
292101	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.63	4.1	0.4

Quality Control

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas		6.2	0.6	10	0.063	0.13	0.48	0.03	1210	0.77	1.0	69	2.6	724	20.7	6.7	36.7	1030	739	3.48		342		2.1
GXR-1 Cert		8.20	1.22	15.0	0.0520	0.217	3.52	0.0500	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427		14.0
GXR-4 Meas		8.9	1.3	2	0.150	1.40	2.62	1.60	19.3	0.88	6.9	82	51.1	142	3.02	14.3	42.5	6690	77.2	11.3		101	5.4	102
GXR-4 Cert		11.1	1.90	4.50	0.564	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	5.60	160
GXR-6 Meas		25.0	0.8	4	0.087	0.37	7.18	1.15	0.17	0.17	23.5	168	73.5	1060	5.81	13.9	26.1	75.3	135	14.3		223	0.3	73.2
GXR-6 Cert		32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	0.940	90.0
OREAS 13b (4-Acid) Meas													390			49.5	2230	2430	65.3			56.9		
OREAS 13b (4-Acid) Cert													8650			75	2247	2300.000	133			57		
CDN-GS-1H Meas	946																							
CDN-GS-1H Cert	972.00																							
CDN-GS-1H Meas	1010																							
CDN-GS-1H Cert	972.00																							
CDN-GS-1H Meas	919																							
CDN-GS-1H Cert	972.00																							
CDN-GS-1H Meas	966																							
CDN-GS-1H Cert	972.00																							
CDN-GS-1H Meas	1090																							
CDN-GS-1H Cert	972.00																							
CDN-GS-1H Meas	942																							
CDN-GS-1H Cert	972.00																							
CDN-GS-P2A Meas	257																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	242																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	259																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	247																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	249																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	250																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	257																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	229																							
CDN-GS-P2A Cert	229.00																							
CDN-GS-P2A Meas	260																							
CDN-GS-P2A Cert	229.00																							
272010 Orig	< 5																							
272010 Dup	< 5																							
272013 Orig		11.0	0.2	< 1	0.030	0.21	0.76	0.06	0.08	0.38	2.8	39	24.1	117	1.77	7.4	18.9	10.1	12.9	2.71	< 0.1	5.2	0.4	10.1
272013 Dup		9.3	0.2	< 1	0.035	0.24	0.97	0.06	0.10	0.32	2.2	35	27.1	135	1.89	7.1	17.3	8.93	13.3	2.59	< 0.1	5.4	0.4	8.6
272020 Orig	< 5																							
272020 Dup	< 5																							
272027 Orig		11.0	0.2	< 1	0.036	0.25	1.40	0.03	0.08	0.19	2.2	47	35.1	114	1.69	4.3	10.7	6.31	12.3	4.46	< 0.1	1.7	0.3	8.7
272027 Dup		12.7	0.2	1	0.042	0.23	1.19	0.03	0.07	0.23	2.7	51	34.5	103	1.55	4.2	11.6	6.84	12.4	4.37	< 0.1	1.6	0.4	9.7
272030 Orig	< 5																							
272030 Dup	< 5																							
272040 Orig		17.5	0.2	2	0.034	0.47	1.63	0.08	0.24	0.15	2.6	57	24.4	93	2.26	4.9	14.6	10.6	36.2	13.1	< 0.1	1.9	0.2	7.6
272040 Dup		15.1	0.1	2	0.029	0.41	1.41	0.07	0.20	0.13	2.3	50	21.5	82	1.97	4.2	12.8	9.54	32.9	11.9	< 0.1	1.8	0.3	7.0
272045 Orig	< 5																							
272045 Dup	< 5																							
272054 Orig		17.3	0.4	2	0.041	0.28	1.40	0.04	0.09	0.26	2.7	58	41.9	200	2.09	7.8	17.1	9.67	19.6	4.63	< 0.1	2.3	0.4	11.7
272054 Dup		19.4	0.3	2	0.037	0.26	1.28	0.05	0.07	0.31	3.1	56	38.4	186	2.15	9.0	19.4	9.98	20.6	4.36	< 0.1	2.3	0.4	12.6
272055 Orig	< 5																							
272055 Dup	< 5																							

Quality Control

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272065 Orig	< 5																							
272065 Dup	< 5																							
272077 Orig		11.5	0.2	3	0.022	0.24	1.05	0.05	0.05	0.26	2.2	30	24.0	122	1.55	6.0	16.8	8.64	20.8	3.20	< 0.1	2.5	0.2	7.9
272077 Dup		12.0	0.3	3	0.027	0.26	1.09	0.05	0.05	0.27	2.3	31	24.7	129	1.63	6.1	17.1	8.60	17.0	3.37	< 0.1	2.5	0.1	8.6
272080 Orig	< 5																							
272080 Dup	8																							
272090 Orig	11																							
272090 Dup	6																							
272091 Orig		10.8	0.2	< 1	0.025	0.20	1.18	0.05	0.09	0.20	1.9	30	22.5	208	1.65	6.7	13.7	4.99	50.9	3.67	< 0.1	1.0	< 0.1	12.9
272091 Dup		9.9	0.3	< 1	0.029	0.23	1.40	0.05	0.11	0.19	1.6	32	27.2	227	1.72	6.5	13.0	4.66	47.6	4.15	< 0.1	1.1	0.1	12.4
272100 Orig	8																							
272100 Dup	8																							
282002 Orig		20.2	0.3	< 1	0.021	0.37	2.22	0.07	0.18	0.14	2.4	61	31.7	124	2.53	5.9	12.0	15.1	40.2	9.24	< 0.1	2.4	0.4	8.1
282002 Dup		23.7	0.3	< 1	0.024	0.34	1.97	0.08	0.17	0.18	3.0	62	29.4	116	2.47	6.5	13.3	16.0	42.0	8.99	< 0.1	1.9	0.3	9.1
282013 Orig	< 5																							
282013 Dup	< 5																							
282016 Orig		12.1	< 0.1	< 1	0.031	0.32	0.90	0.14	0.13	0.11	2.0	30	21.0	74	1.11	2.8	10.7	4.62	14.5	8.10	< 0.1	2.9	0.1	6.8
282016 Dup		10.7	< 0.1	< 1	0.031	0.35	0.95	0.12	0.14	0.08	1.5	26	20.0	74	1.08	2.5	9.2	4.07	14.3	7.61	< 0.1	2.7	< 0.1	5.3
282023 Orig	< 5																							
282023 Dup	< 5																							
282032 Orig		6.2	0.1	< 1	0.050	0.47	1.83	0.06	0.18	0.33	3.0	163	8.3	171	5.53	9.7	7.7	20.8	48.7	16.5	< 0.1	1.7	0.1	7.4
282032 Dup		7.0	0.2	< 1	0.054	0.51	1.75	0.06	0.18	0.35	3.6	199	9.9	186	5.20	9.8	8.2	24.9	45.1	18.3	< 0.1	2.1	0.2	8.4
282033 Orig	< 5																							
282033 Dup	< 5																							
282046 Orig		10.5	0.2	2	0.024	0.24	0.82	0.05	0.08	0.23	2.0	36	24.5	104	1.67	4.5	14.4	6.86	15.6	4.59	< 0.1	2.1	0.3	11.6
282046 Dup		9.7	0.1	< 1	0.021	0.23	0.92	0.06	0.09	0.22	1.6	28	19.5	112	1.88	4.8	14.0	6.29	18.2	3.95	< 0.1	2.0	< 0.1	10.2
282048 Orig	< 5																							
282048 Dup	< 5																							
282058 Orig	< 5																							
282058 Dup	< 5																							
282059 Orig		6.4	0.1	< 1	0.024	0.22	0.93	0.04	0.08	0.20	1.3	24	18.2	101	1.23	2.8	7.6	2.88	25.8	4.43	< 0.1	1.0	< 0.1	9.4
282059 Dup		7.3	0.2	1	0.028	0.22	0.89	0.04	0.08	0.20	1.6	30	21.9	100	1.13	2.6	7.7	3.41	15.0	5.25	< 0.1	1.1	< 0.1	10.9
282068 Orig	5																							
282068 Dup	< 5																							
282073 Orig		8.2	0.2	3	0.024	0.17	0.71	0.04	0.09	0.21	1.8	36	17.7	86	1.59	2.8	8.0	4.18	11.5	5.44	< 0.1	1.9	0.2	6.0
282073 Dup		7.8	0.2	2	0.024	0.16	0.68	0.04	0.08	0.21	1.7	36	17.9	81	1.53	2.7	7.6	3.91	11.2	5.21	< 0.1	1.8	0.1	5.6
282083 Orig	< 5																							
282083 Dup	5																							
292004 Orig	< 5																							
292004 Dup	< 5																							
292007 Orig		11.4	0.2	< 1	0.035	0.36	0.95	0.06	0.08	0.32	2.0	32	23.1	156	1.86	6.4	15.2	6.11	21.4	3.47	< 0.1	1.7	< 0.1	9.0
292007 Dup		10.5	0.1	< 1	0.031	0.41	1.05	0.05	0.08	0.26	1.7	36	29.3	168	1.87	6.1	13.7	6.00	21.4	3.90	< 0.1	1.7	0.1	8.3
292014 Orig	< 5																							
292014 Dup	< 5																							
292021 Orig		15.5	0.2	1	0.036	0.29	0.97	0.04	0.09	0.29	2.2	34	25.9	98	0.83	3.7	11.9	13.2	26.2	4.64	< 0.1	1.6	0.1	7.7
292021 Dup		17.1	0.2	1	0.030	0.27	0.96	0.05	0.09	0.36	2.5	31	22.7	103	0.92	4.3	13.4	13.1	25.2	4.24	< 0.1	1.5	0.2	8.4
292029 Orig	6																							
292029 Dup	< 5																							
292034 Orig		5.9	< 0.1	< 1	0.041	0.35	1.10	0.05	0.21	0.33	3.7	149	28.1	162	3.31	7.8	10.0	18.8	29.6	9.40	< 0.1	2.4	< 0.1	4.6
292034 Dup		5.8	< 0.1	< 1	0.046	0.41	1.16	0.05	0.23	0.30	3.5	167	34.6	184	3.36	7.7	9.3	20.0	33.8	11.5	< 0.1	2.7	0.2	4.6
292039 Orig	7																							
292039 Dup	< 5																							
292048 Orig		10.4	0.3	2	0.039	0.24	1.07	0.05	0.05	0.34	2.1	36	24.1	105	1.56	4.8	13.1	4.76	14.4	3.88	< 0.1	1.7	0.1	6.5
292048 Dup		11.1	0.2	1	0.032	0.21	0.92	0.05	0.05	0.38	2.5	35	21.0	94	1.44	4.8	14.3	4.79	14.1	3.28	< 0.1	1.4	0.2	6.5
292049 Orig	6																							
292049 Dup	< 5																							
292064 Orig	16	12.8	0.2	2	0.034	0.27	1.06	0.05	0.07	0.25	2.5	44	24.9	144	1.85	4.7	14.1	9.04	24.3	5.45	< 0.1	3.0	0.2	8.9

Quality Control

Analyte Symbol	Au	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb
Unit Symbol	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Analysis Method	FA-AA	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292064 Dup	9	12.6	0.2	2	0.029	0.22	0.95	0.05	0.07	0.27	2.5	37	18.5	134	1.81	5.0	14.6	8.20	22.9	4.18	< 0.1	2.6	< 0.1	8.5
292074 Orig	< 5																							
292074 Dup	< 5																							
292078 Orig		9.3	0.2	< 1	0.025	0.20	1.04	0.05	0.08	0.25	2.0	28	14.7	101	1.75	4.5	11.6	3.98	16.4	3.75	< 0.1	1.7	< 0.1	7.5
292078 Dup		8.5	0.2	1	0.029	0.22	1.06	0.04	0.08	0.22	1.8	33	18.8	107	1.75	4.1	10.7	3.75	17.4	4.51	< 0.1	1.8	0.1	7.0
292084 Orig	< 5																							
292084 Dup	< 5																							
292091 Orig		14.1	0.3	2	0.035	0.31	1.11	0.05	0.07	0.29	2.5	41	27.4	170	1.90	5.4	16.7	8.32	29.3	4.90	< 0.1	2.6	< 0.1	9.7
292091 Dup		16.7	0.3	2	0.031	0.29	1.10	0.07	0.07	0.36	3.0	41	25.1	174	2.13	6.5	19.5	9.07	28.7	4.61	< 0.1	2.7	0.3	10.9
292099 Orig	< 5																							
292099 Dup	< 5																							
Method Blank Method Blank		< 0.1	< 0.1	< 1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.5	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1
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Quality Control

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	186	26.3	13.9	< 0.1	15.1	26.4	2.15	0.65	22.8	66.0	11.2	2.34	277	5.2	10.00		5.82	2.0	0.4	3.0	0.6	3.80		
GXR-1 Cert	275	32.0	38.0	0.800	18.0	31.0	3.30	0.770	54.0	122	13.0	3.00	750	7.50	17.0		18.0	2.70	0.690	4.20	0.830	4.30		
GXR-4 Meas	73.4	12.6	9.6	0.1	288	3.30	0.19	0.19	5.17	2.19	0.81	2.25	7.9	45.2	80.0		33.8	5.3	1.1	3.9	0.5	2.39		
GXR-4 Cert	221	14.0	186	10.0	310	4.00	0.860	0.270	5.60	4.80	0.970	2.80	1640	64.5	102		45.0	6.60	1.63	5.25	0.360	2.60		
GXR-6 Meas	35.5	7.47	9.7	< 0.1	1.35	0.269	0.09	0.06	0.96	1.16	< 0.02	3.38	1050	10.8	30.6		10.6	2.2	0.5	1.8	0.3	1.48		
GXR-6 Cert	35.0	14.0	110	7.50	2.40	1.30	1.00	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0		13.0	2.67	0.760	2.97	0.415	2.80		
OREAS 13b (4-Acid) Meas					8.46	0.797																		
OREAS 13b (4-Acid) Cert					9.0	0.86																		
CDN-GS-1H Meas																								
CDN-GS-1H Cert																								
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272010 Orig																								
272010 Dup																								
272013 Orig	16.9	4.74	6.6	2.1	0.40	0.024	0.02	< 0.02	0.31	0.07	0.02	1.40	24.6	10.9	27.4	2.6	9.52	1.7	0.3	1.3	0.2	0.906	0.2	0.4
272013 Dup	15.1	4.33	6.2	2.1	0.41	0.023	0.02	< 0.02	0.31	0.07	< 0.02	1.39	24.7	11.5	27.7	2.7	9.72	1.8	0.3	1.4	0.2	0.889	0.2	0.4
272020 Orig																								
272020 Dup																								
272027 Orig	15.0	3.50	5.3	2.4	0.40	< 0.002	0.02	< 0.02	0.39	0.05	0.03	1.52	17.0	8.1	16.3	2.0	7.41	1.4	0.3	1.0	0.1	0.645	0.1	0.3
272027 Dup	17.0	3.69	5.4	2.4	0.38	< 0.002	0.02	< 0.02	0.39	0.04	< 0.02	1.42	18.6	7.7	15.3	1.9	6.72	1.2	0.2	0.8	0.1	0.596	0.1	0.3
272030 Orig																								
272030 Dup																								
272040 Orig	15.7	2.43	8.9	2.2	0.89	< 0.002	0.05	< 0.02	0.74	0.11	0.04	3.26	58.4	6.3	12.0	1.3	4.82	0.9	0.2	0.7	< 0.1	0.500	< 0.1	0.3
272040 Dup	14.1	2.19	8.0	2.0	0.77	< 0.002	0.04	< 0.02	0.66	0.10	0.02	2.86	49.5	5.4	10.3	1.1	4.19	0.7	0.2	0.6	< 0.1	0.463	< 0.1	0.2
272045 Orig																								
272045 Dup																								
272054 Orig	18.2	4.34	3.9	2.0	0.39	0.052	0.03	< 0.02	0.41	0.06	< 0.02	1.37	34.3	12.0	24.2	2.7	9.51	1.6	0.3	1.1	0.1	0.765	0.1	0.4
272054 Dup	19.2	4.58	3.9	1.7	0.39	0.018	0.03	< 0.02	0.41	0.06	0.02	1.38	36.2	9.7	20.5	2.3	8.35	1.5	0.3	1.0	0.1	0.756	0.1	0.4
272055 Orig																								
272055 Dup																								

Quality Control

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272065 Orig																								
272065 Dup																								
272077 Orig	13.4	3.60	2.8	1.8	0.06	< 0.002	0.04	< 0.02	0.33	0.04	< 0.02	0.70	27.2	10.5	23.3	2.3	8.60	1.5	0.3	1.3	0.2	0.814	0.1	0.4
272077 Dup	14.6	3.80	2.7	1.7	0.06	< 0.002	0.04	< 0.02	0.34	0.04	0.04	0.74	29.1	10.7	23.9	2.4	8.98	1.6	0.3	1.3	0.2	0.880	0.2	0.4
272080 Orig																								
272080 Dup																								
272090 Orig																								
272090 Dup																								
272091 Orig	13.1	2.68	1.3	1.5	0.29	0.040	0.05	< 0.02	0.36	0.04	< 0.02	0.97	48.9	8.4	16.6	1.8	6.26	1.1	0.2	0.8	0.1	0.557	< 0.1	0.2
272091 Dup	13.3	2.92	1.6	1.7	0.31	0.045	0.05	< 0.02	0.39	0.05	< 0.02	1.02	51.3	9.1	18.3	2.0	7.28	1.3	0.2	1.0	0.1	0.621	0.1	0.3
272100 Orig																								
272100 Dup																								
282002 Orig	15.6	3.72	4.3	3.0	1.47	< 0.002	0.04	< 0.02	0.66	0.09	< 0.02	3.12	49.8	10.7	20.4	2.4	8.58	1.5	0.3	1.1	0.1	0.721	0.1	0.3
282002 Dup	18.8	3.97	4.6	2.8	1.38	< 0.002	0.04	< 0.02	0.66	0.08	< 0.02	3.14	52.3	12.3	22.9	2.6	9.09	1.5	0.3	1.1	0.1	0.774	0.1	0.4
282013 Orig																								
282013 Dup																								
282016 Orig	12.1	1.87	11.1	1.8	0.38	< 0.002	0.03	< 0.02	0.41	0.18	< 0.02	1.59	53.4	3.9	7.20	0.8	2.85	0.5	0.2	0.5	< 0.1	0.367	< 0.1	0.2
282016 Dup	10.4	1.73	11.1	1.7	0.35	< 0.002	0.03	< 0.02	0.40	0.17	< 0.02	1.49	47.3	3.6	6.66	0.8	2.75	0.5	0.2	0.5	< 0.1	0.348	< 0.1	0.2
282023 Orig																								
282023 Dup																								
282032 Orig	6.4	3.48	7.1	1.4	1.02	< 0.002	0.03	< 0.02	0.65	0.14	< 0.02	1.51	55.6	4.3	7.78	0.9	3.23	0.6	0.2	0.7	0.1	0.653	0.1	0.4
282032 Dup	7.5	4.09	8.4	1.8	1.09	0.002	0.04	< 0.02	0.71	0.17	< 0.02	1.56	59.0	4.7	8.89	1.0	3.65	0.7	0.2	0.7	0.1	0.681	0.1	0.4
282033 Orig																								
282033 Dup																								
282046 Orig	15.5	3.66	3.4	1.8	0.18	0.009	0.01	< 0.02	0.37	0.05	< 0.02	0.65	22.8	8.9	18.3	1.9	6.72	1.1	0.2	0.9	0.1	0.608	0.1	0.3
282046 Dup	13.4	3.16	3.2	1.7	0.18	0.008	0.01	< 0.02	0.35	0.04	< 0.02	0.66	22.4	8.1	16.5	1.7	6.03	1.1	0.2	0.9	0.1	0.612	0.1	0.3
282048 Orig																								
282048 Dup																								
282058 Orig																								
282058 Dup																								
282059 Orig	14.6	3.54	2.7	1.5	0.17	0.004	< 0.01	< 0.02	0.42	0.04	< 0.02	0.60	27.8	9.9	19.6	2.2	7.78	1.3	0.3	1.1	0.1	0.688	0.1	0.3
282059 Dup	17.0	4.03	3.0	1.7	0.18	0.010	0.01	< 0.02	0.44	0.05	< 0.02	0.61	28.3	10.8	21.8	2.4	8.24	1.4	0.3	1.1	0.1	0.679	0.1	0.3
282068 Orig																								
282068 Dup																								
282073 Orig	14.0	3.01	2.8	2.1	0.10	< 0.002	0.03	< 0.02	0.48	0.04	< 0.02	0.70	28.7	9.6	19.7	2.2	7.89	1.4	0.2	1.1	0.1	0.653	0.1	0.3
282073 Dup	13.4	2.81	2.7	1.9	0.09	< 0.002	0.02	< 0.02	0.51	0.04	< 0.02	0.66	27.0	11.1	21.3	2.3	8.23	1.4	0.2	1.1	0.1	0.646	0.1	0.3
282083 Orig																								
282083 Dup																								
292004 Orig																								
292004 Dup																								
292007 Orig	17.6	4.92	5.1	1.0	0.23	0.007	< 0.01	< 0.02	0.39	0.03	< 0.02	1.13	36.0	16.3	32.6	3.5	12.3	2.0	0.4	1.6	0.2	1.02	0.2	0.5
292007 Dup	16.2	4.80	6.1	1.4	0.23	0.002	< 0.01	< 0.02	0.39	0.04	< 0.02	1.13	33.9	11.4	24.8	2.8	10.3	1.9	0.4	1.4	0.2	0.926	0.2	0.4
292014 Orig																								
292014 Dup																								
292021 Orig	19.1	5.07	3.3	1.7	0.34	0.006	0.05	< 0.02	0.44	0.10	< 0.02	1.66	43.6	15.7	30.1	3.4	11.6	1.9	0.4	1.3	0.2	0.871	0.2	0.4
292021 Dup	20.0	5.14	3.1	1.9	0.38	0.003	0.03	< 0.02	0.44	0.09	< 0.02	1.81	46.9	16.3	31.0	3.4	11.6	1.8	0.4	1.4	0.2	0.941	0.2	0.4
292029 Orig																								
292029 Dup																								
292034 Orig	7.8	2.49	3.8	1.0	0.79	< 0.002	0.05	< 0.02	0.49	0.09	< 0.02	2.28	34.4	5.0	9.49	1.1	3.84	0.7	0.1	0.6	< 0.1	0.512	< 0.1	0.3
292034 Dup	8.1	2.84	4.8	1.3	0.83	< 0.002	0.05	< 0.02	0.55	0.10	< 0.02	2.42	33.2	5.1	10.2	1.2	4.35	0.8	0.2	0.7	< 0.1	0.537	0.1	0.3
292039 Orig																								
292039 Dup																								
292048 Orig	16.2	5.01	3.8	2.1	0.19	0.007	0.01	< 0.02	0.36	0.04	< 0.02	0.53	29.8	10.9	25.5	2.8	10.4	1.8	0.3	1.4	0.2	0.933	0.2	0.5
292048 Dup	16.3	4.81	3.6	2.0	0.17	0.015	0.01	< 0.02	0.34	0.04	< 0.02	0.51	30.1	10.7	23.9	2.5	9.23	1.6	0.3	1.2	0.2	0.886	0.2	0.4
292049 Orig																								
292049 Dup																								
292064 Orig	13.6	3.38	2.3	1.6	0.33	0.040	0.04	< 0.02	0.50	0.06	< 0.02	0.88	33.9	11.0	22.8	2.6	9.07	1.5	0.2	1.0	0.1	0.653	0.1	0.3

Quality Control

Analyte Symbol	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292064 Dup	12.7	2.96	1.8	1.4	0.32	0.051	0.03	< 0.02	0.43	0.05	< 0.02	0.83	32.8	9.1	18.3	2.0	7.20	1.2	0.2	0.9	0.1	0.624	0.1	0.3
292074 Orig																								
292074 Dup																								
292078 Orig	11.6	2.93	2.7	1.8	0.25	0.022	0.04	< 0.02	0.40	0.04	< 0.02	0.68	26.1	9.2	17.9	2.1	7.49	1.3	0.2	1.1	0.1	0.695	0.1	0.3
292078 Dup	11.5	2.95	3.0	1.8	0.28	0.020	0.02	< 0.02	0.42	0.05	< 0.02	0.67	24.1	8.4	16.9	2.0	7.58	1.3	0.3	1.0	0.1	0.627	0.1	0.3
292084 Orig																								
292084 Dup																								
292091 Orig	15.3	4.00	2.9	1.7	0.26	0.013	0.03	< 0.02	0.44	0.05	< 0.02	0.84	38.7	10.3	21.9	2.6	9.16	1.5	0.3	1.1	0.1	0.765	0.1	0.4
292091 Dup	16.1	4.38	3.1	1.9	0.28	0.019	0.03	< 0.02	0.43	0.05	< 0.02	0.93	42.3	13.7	28.2	3.2	11.1	1.8	0.3	1.3	0.2	0.877	0.2	0.4
292099 Orig																								
292099 Dup																								
Method Blank Method Blank	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.01	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.1	< 0.1
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Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.3	1.7	0.2	0.2	< 0.05	119		3590	0.34	629	2.1	25.0
GXR-1 Cert	0.430	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9
GXR-4 Meas	0.1	0.8	0.1	0.2	< 0.05	11.9		190	2.78	48.1	19.0	4.4
GXR-4 Cert	0.210	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20
GXR-6 Meas	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1			1.76	105	4.4	0.8
GXR-6 Cert	0.0320	2.40	0.330	4.30	0.485	1.90			2.20	101	5.30	1.54
OREAS 13b (4-Acid) Meas												
OREAS 13b (4-Acid) Cert												
CDN-GS-1H Meas												
CDN-GS-1H Cert												
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CDN-GS-P2A Meas												
CDN-GS-P2A Cert												
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CDN-GS-P2A Cert												
CDN-GS-P2A Meas												
CDN-GS-P2A Cert												
CDN-GS-P2A Meas												
CDN-GS-P2A Cert												
272010 Orig												
272010 Dup												
272013 Orig	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	< 0.001	< 5	0.07	4.63	4.1	0.5
272013 Dup	< 0.1	0.4	< 0.1	0.1	< 0.05	2.5	< 0.001	< 5	0.06	5.00	4.0	0.4
272020 Orig												
272020 Dup												
272027 Orig	< 0.1	0.3	< 0.1	0.1	< 0.05	0.2	0.001	< 5	0.06	5.17	2.8	0.4
272027 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	0.001	< 5	0.05	4.45	2.5	0.3
272030 Orig												
272030 Dup												
272040 Orig	< 0.1	0.2	< 0.1	0.2	< 0.05	2.0	0.002	< 5	0.09	9.07	1.8	0.4
272040 Dup	< 0.1	0.2	< 0.1	0.2	< 0.05	1.2	0.001	< 5	0.09	7.81	1.6	0.3
272045 Orig												
272045 Dup												
272054 Orig	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	0.001	< 5	0.06	6.19	4.3	0.4
272054 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	5.32	3.3	0.4
272055 Orig												
272055 Dup												

Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
272065 Orig												
272065 Dup												
272077 Orig	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 5	0.05	3.76	2.4	0.3
272077 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	3.95	2.6	0.3
272080 Orig												
272080 Dup												
272090 Orig												
272090 Dup												
272091 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	4.49	2.4	0.3
272091 Dup	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.23	2.8	0.3
272100 Orig												
272100 Dup												
282002 Orig	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.11	10.4	4.2	0.5
282002 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.6	< 0.001	< 5	0.11	9.89	5.8	0.5
282013 Orig												
282013 Dup												
282016 Orig	< 0.1	0.1	< 0.1	0.2	< 0.05	0.9	< 0.001	< 5	0.06	5.64	1.2	0.4
282016 Dup	< 0.1	0.1	< 0.1	0.2	< 0.05	0.9	< 0.001	< 5	0.06	5.95	1.2	0.4
282023 Orig												
282023 Dup												
282032 Orig	< 0.1	0.3	< 0.1	0.2	< 0.05	0.3	0.001	< 5	0.10	8.98	1.8	0.3
282032 Dup	< 0.1	0.3	< 0.1	0.2	< 0.05	0.6	0.001	< 5	0.11	9.14	1.7	0.3
282033 Orig												
282033 Dup												
282046 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.61	3.3	0.3
282046 Dup	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.95	2.9	0.3
282048 Orig												
282048 Dup												
282058 Orig												
282058 Dup												
282059 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	3.80	2.9	0.3
282059 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.06	3.86	2.8	0.3
282068 Orig												
282068 Dup												
282073 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.06	5.48	2.5	0.3
282073 Dup	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	6	0.06	5.52	3.5	0.3
282083 Orig												
282083 Dup												
292004 Orig												
292004 Dup												
292007 Orig	< 0.1	0.4	< 0.1	0.1	< 0.05	0.4	< 0.001	< 5	0.07	4.31	6.2	0.5
292007 Dup	< 0.1	0.4	< 0.1	0.1	< 0.05	0.1	< 0.001	< 5	0.08	4.27	3.4	0.4
292014 Orig												
292014 Dup												
292021 Orig	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.08	5.05	2.7	0.4
292021 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.08	4.80	2.7	0.4
292029 Orig												
292029 Dup												
292034 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	1.4	< 0.001	< 5	0.04	6.42	1.8	0.2
292034 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	1.9	< 0.001	< 5	0.05	7.28	1.8	0.2
292039 Orig												
292039 Dup												
292048 Orig	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	4.42	2.4	0.3
292048 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.04	3.76	2.1	0.3
292049 Orig												
292049 Dup												
292064 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 5	0.05	4.99	2.5	0.3

Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
292064 Dup	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2	< 0.001	21	0.05	4.40	1.9	0.3
292074 Orig												
292074 Dup												
292078 Orig	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 5	0.05	4.46	2.4	0.3
292078 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	4.67	2.1	0.3
292084 Orig												
292084 Dup												
292091 Orig	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	0.05	5.00	2.4	0.3
292091 Dup	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	< 0.001	< 5	0.06	5.04	5.1	0.4
292099 Orig												
292099 Dup												
Method Blank Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 5	< 0.02	< 0.01	< 0.1	< 0.1
Method Blank Method Blank												
Method Blank Method Blank												
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APPENDIX F
Activation Laboratories Certificate of Analysis (Humus)
Certificate # A11-8838Final

Quality Analysis ... *Innovative Technologies*

Date Submitted: 16-Aug-11
Invoice No.: A11-8838
Invoice Date: 27-Oct-11
Your Reference: SKY LAKE

TRI Origin Exploration
125 Don Hillock Dr.
Aurora Ontario L4G 0H8

ATTN: Senior Geologist Frank Kendle

CERTIFICATE OF ANALYSIS

109 Humus samples were submitted for analysis.

The following analytical packages were requested: Code 2A-15g Humus INAA(INAAGEO)
Code 2C1 Ash Aqua Regia ICP(AQUAJA)

REPORT **A11-8838**

Notes:

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control

SCC Accredited LAB 266 — LAB 266 Accrédité CCN

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-8838

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	2	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1	2	100	0.5	0.5	0.1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
271001	< 1	< 2	< 1	300	8	1.8	< 1	34	1.6	0.91	6.1	< 0.5	< 5	< 0.5	14000	< 10	40	< 0.1	4.6	< 2	< 100	< 0.5	5.1	1.6
271002	< 1	< 2	< 1	400	18	1.6	16	24	1.6	1.07	1.3	< 0.5	< 5	< 0.5	6200	< 10	< 20	< 0.1	4.3	< 2	500	< 0.5	5.0	2.1
271003	< 1	< 2	< 1	300	13	3.2	5	16	< 0.5	0.56	< 0.5	< 0.5	< 5	< 0.5	800	< 10	< 20	0.3	2.7	< 2	< 100	< 0.5	3.4	1.6
271004	< 1	< 2	2	500	13	3.8	6	40	2.4	1.47	1.8	< 0.5	< 5	3.0	6400	< 10	< 20	0.3	6.2	< 2	400	< 0.5	7.0	3.8
271005	< 1	< 2	5	200	18	2.2	6	29	1.9	2.00	< 0.5	< 0.5	< 5	< 0.5	1000	< 10	< 20	0.5	6.4	< 2	< 100	< 0.5	7.5	2.6
271006	< 1	< 2	< 1	200	11	3.5	< 1	11	< 0.5	0.37	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	1.8	< 2	< 100	< 0.5	2.2	1.0
271007	< 1	< 2	16	200	18	< 0.5	5	16	2.6	2.45	1.4	< 0.5	< 5	4.0	2900	< 10	< 20	0.2	4.3	< 2	< 100	< 0.5	6.9	2.6
271008	2	< 2	< 1	200	11	< 0.5	6	10	< 0.5	0.74	0.8	< 0.5	< 5	3.0	400	< 10	< 20	< 0.1	2.2	< 2	< 100	< 0.5	2.6	< 0.1
271009	3	< 2	2	200	16	2.4	3	8	1.0	0.66	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	2.6	< 2	< 100	< 0.5	1.9	< 0.1
271010	< 1	< 2	< 1	< 100	29	5.9	< 1	6	< 0.5	0.30	< 0.5	< 0.5	< 5	< 0.5	1200	< 10	< 20	< 0.1	1.1	< 2	< 100	< 0.5	0.8	3.2
271011	< 1	< 2	2	200	27	5.3	< 1	5	< 0.5	0.51	< 0.5	< 0.5	< 5	4.6	400	< 10	< 20	< 0.1	0.6	< 2	< 100	< 0.5	0.8	4.2
271012	< 1	< 2	< 1	< 100	22	5.1	< 1	5	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271013	< 1	< 2	< 1	< 100	24	3.7	< 1	5	< 0.5	0.21	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271014	< 1	< 2	< 1	< 100	24	4.0	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271015	< 1	< 2	< 1	< 100	30	3.0	< 1	< 1	< 0.5	0.14	< 0.5	< 0.5	< 5	1.0	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271016	< 1	< 2	< 1	< 100	32	2.6	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271017	< 1	< 2	< 1	< 100	32	2.2	< 1	< 1	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271018	< 1	< 2	< 1	< 100	29	3.7	< 1	< 1	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271019	< 1	< 2	< 1	< 100	27	3.7	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	2.4	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271020	< 1	< 2	3	< 100	37	4.5	< 1	< 1	< 0.5	0.51	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	0.6	< 2	< 100	< 0.5	< 0.5	< 0.1
271021	< 1	< 2	6	300	70	3.4	3	3	< 0.5	5.42	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.2	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271022	< 1	< 2	3	< 100	66	5.9	< 1	3	0.8	1.76	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	< 0.1	0.6	< 2	< 100	< 0.5	< 0.5	< 0.1
271023	< 1	< 2	< 1	< 100	27	4.8	2	8	< 0.5	0.59	< 0.5	< 0.5	< 5	1.9	300	< 10	< 20	0.2	1.0	< 2	< 100	< 0.5	< 0.5	< 0.1
271024	< 1	2	3	300	29	5.0	5	26	1.0	1.23	1.4	< 0.5	< 5	< 0.5	5100	< 10	20	0.2	3.5	< 2	< 100	< 0.5	2.6	2.9
271025	< 1	< 2	3	< 100	34	5.0	2	6	< 0.5	0.50	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.6	< 2	< 100	< 0.5	< 0.5	7.0
271026	< 1	< 2	3	< 100	34	6.1	3	8	< 0.5	0.66	< 0.5	< 0.5	< 5	< 0.5	1100	< 10	< 20	0.2	1.1	< 2	< 100	< 0.5	1.1	11.7
271027	< 1	< 2	< 1	< 100	30	5.9	< 1	5	< 0.5	0.18	< 0.5	< 0.5	< 5	2.4	500	< 10	< 20	0.2	0.5	< 2	< 100	< 0.5	< 0.5	0.6
271028	< 1	< 2	< 1	< 100	50	4.6	2	6	< 0.5	0.19	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271029	< 1	< 2	< 1	< 100	46	4.6	< 1	< 1	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.5	< 2	< 100	< 0.5	< 0.5	< 0.1
271030	< 1	< 2	1	< 100	34	3.6	< 1	< 1	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
271031	< 1	< 2	< 1	< 100	45	3.6	< 1	1	< 0.5	0.15	< 0.5	< 0.5	< 5	1.3	300	< 10	< 20	0.1	0.3	< 2	< 100	< 0.5	< 0.5	1.1
281001	< 1	< 2	< 1	300	8	1.7	6	41	1.7	1.23	3.6	< 0.5	< 5	< 0.5	12600	< 10	20	0.3	5.9	< 2	< 100	< 0.5	3.9	1.4
281002	5	< 2	7	400	25	3.1	11	21	2.4	1.23	1.1	< 0.5	< 5	4.5	2400	< 10	< 20	0.7	5.2	< 2	< 100	< 0.5	6.0	2.0
281003	< 1	< 2	6	400	32	2.5	14	42	1.5	2.24	1.4	< 0.5	< 5	1.8	6300	< 10	< 20	< 0.1	6.4	< 2	< 100	< 0.5	4.3	1.8
281004	< 1	< 2	3	200	34	3.5	6	15	1.0	0.70	< 0.5	< 0.5	< 5	< 0.5	700	< 10	< 20	1.0	3.9	< 2	< 100	< 0.5	3.1	1.7
281005	< 1	< 2	3	200	25	2.4	4	13	1.0	1.25	< 0.5	< 0.5	< 5	2.1	900	< 10	< 20	0.3	6.4	< 2	< 100	< 0.5	2.7	0.6
281006	3	< 2	< 1	300	27	3.1	7	11	0.8	1.53	1.1	< 0.5	< 5	< 0.5	900	< 10	< 20	< 0.1	7.4	< 2	< 100	< 0.5	5.2	2.4
281007	< 1	< 2	< 1	200	21	1.4	3	18	0.7	1.08	1.1	< 0.5	< 5	< 0.5	4400	< 10	< 20	< 0.1	5.0	< 2	< 100	< 0.5	2.8	1.4
281008	< 1	< 2	4	200	11	0.8	6	20	1.0	2.73	2.1	< 0.5	< 5	1.4	7000	80	< 20	0.3	9.0	< 2	< 100	< 0.5	2.4	1.4
281009	< 1	< 2	1	200	18	1.5	10	10	0.8	1.06	0.8	< 0.5	< 5	2.1	1600	< 10	< 20	0.1	5.9	< 2	< 100	< 0.5	2.4	1.1
281010	< 1	< 2	52	600	32	2.2	55	17	1.8	9.24	< 0.5	< 0.5	< 5	8.7	1200	90	< 20	0.4	2.7	< 2	< 100	< 0.5	3.8	< 0.1
281011	< 1	< 2	27	< 100	24	2.8	8	13	0.8	3.04	< 0.5	< 0.5	< 5	< 0.5	700	< 10	< 20	< 0.1	1.7	< 2	< 100	< 0.5	2.2	< 0.1
281012	< 1	< 2	8	< 100	31	3.4	4	6	1.3	1.20	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	0.4	1.0	2	< 100	< 0.5	1.3	0.6
281013	< 1	< 2	< 1	< 100	25	2.8	3	13	1.3	1.34	0.8	< 0.5	< 5	2.2	1200	< 10	< 20	0.1	2.0	< 2	< 100	< 0.5	2.4	< 0.1
281014	< 1	< 2	< 1	< 100	22	2.7	< 1	4	< 0.5	0.31	< 0.5	< 0.5	< 5	1.5	300	< 10	< 20	< 0.1	0.6	< 2	< 100	< 0.5	0.8	< 0.1
281015	< 1	< 2	4	< 100	27	3.5	< 1	4	< 0.5	0.92	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.1	0.8	< 2	< 100	< 0.5	1.0	0.6
281016	< 1	< 2	3	< 100	27	3.2	4	4	0.8	0.43	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	0.1	0.8	< 2	< 100	< 0.5	0.8	< 0.1
281017	< 1	< 2	< 1	< 100	18	3.1	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281018	< 1	< 2	< 1	< 100	22	3.6	< 1	3	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281019	< 1	< 2	< 1	< 100	20	4.3	< 1	3	< 0.5	0.17	< 0.5	< 0.5	< 5	1.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281020	< 1	< 2	< 1	< 100	34	3.9	4	3	1.0	0.60	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.3	1.1	< 2	< 100	< 0.5	0.8	< 0.1
281021	< 1	< 2	< 1	< 100	13	3.4	< 1	4	< 0.5	0.22	< 0.5	< 0.5	< 5	2.9	500	< 10	< 20	0.1	1.0	< 2	< 100	< 0.5	1.0	< 0.1

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	2	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1	2	100	0.5	0.5	0.1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
281022	< 1	< 2	3	300	29	2.9	8	25	< 0.5	1.37	1.1	< 0.5	< 5	2.4	3600	< 10	< 20	0.1	4.8	< 2	200	< 0.5	3.9	1.8
281023	< 1	< 2	3	300	10	< 0.5	13	42	2.4	4.37	4.1	< 0.5	< 5	1.0	14000	< 10	20	< 0.1	15.4	< 2	< 100	< 0.5	3.5	1.8
281024	< 1	< 2	< 1	300	7	1.5	3	21	< 0.5	0.62	1.5	< 0.5	< 5	2.1	10400	< 10	30	0.3	5.6	< 2	< 100	< 0.5	3.6	1.0
281025	< 1	< 2	3	200	15	3.5	3	32	0.8	0.83	< 0.5	< 0.5	< 5	< 0.5	4800	< 10	< 20	0.3	2.5	< 2	< 100	< 0.5	2.7	1.3
281026	< 1	< 2	3	200	20	3.8	3	20	0.8	0.70	< 0.5	< 0.5	< 5	3.5	2300	< 10	< 20	0.3	2.5	< 2	300	< 0.5	3.6	1.3
281027	3	< 2	3	< 100	21	3.9	3	15	0.7	0.67	< 0.5	< 0.5	< 5	< 0.5	1100	< 10	< 20	< 0.1	2.1	< 2	< 100	< 0.5	3.5	0.8
281028	< 1	< 2	< 1	< 100	31	3.8	1	6	< 0.5	0.48	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	0.3	1.7	< 2	< 100	< 0.5	2.7	1.5
281029	< 1	< 2	< 1	< 100	24	4.1	1	6	< 0.5	0.46	< 0.5	< 0.5	< 5	2.4	300	< 10	< 20	< 0.1	1.0	< 2	< 100	< 0.5	1.4	< 0.1
281030	< 1	< 2	< 1	< 100	27	4.3	< 1	6	< 0.5	0.22	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.8	< 2	< 100	< 0.5	1.3	< 0.1
281031	< 1	< 2	< 1	< 100	21	3.2	< 1	< 1	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281032	< 1	< 2	< 1	< 100	25	2.9	< 1	3	< 0.5	0.17	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
281033	< 1	< 2	1	< 100	24	3.2	< 1	3	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.6	< 2	< 100	< 0.5	< 0.5	< 0.1
281034	< 1	< 2	1	< 100	36	1.8	< 1	3	< 0.5	0.29	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	0.4
281035	3	< 2	3	< 100	45	2.2	< 1	3	< 0.5	0.48	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281036	< 1	< 2	< 1	< 100	29	4.6	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	2.7	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281037	< 1	< 2	< 1	< 100	36	4.2	< 1	3	< 0.5	0.10	< 0.5	< 0.5	< 5	1.7	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281038	< 1	< 2	1	< 100	49	4.3	1	6	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	0.1	0.7	< 2	< 100	< 0.5	0.8	4.3
281039	< 1	< 2	< 1	100	41	4.5	< 1	< 1	< 0.5	0.10	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281040	< 1	< 2	< 1	< 100	48	4.5	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	0.6
281041	< 1	< 2	1	< 100	34	3.6	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281042	< 1	< 2	< 1	< 100	29	2.4	< 1	< 1	< 0.5	0.11	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
281043	< 1	< 2	1	< 100	29	3.2	< 1	< 1	< 0.5	0.15	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
281044	< 1	< 2	< 1	< 100	34	2.4	< 1	1	< 0.5	0.25	< 0.5	< 0.5	< 5	< 0.5	200	< 10	< 20	< 0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
281045	< 1	< 2	< 1	< 100	27	3.1	< 1	< 1	< 0.5	0.15	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
281046	< 1	< 2	< 1	< 100	31	4.3	1	4	< 0.5	0.25	< 0.5	< 0.5	< 5	< 0.5	600	< 10	< 20	< 0.1	0.7	< 2	< 100	< 0.5	< 0.5	0.6
281047	< 1	< 2	< 1	< 100	20	4.5	< 1	8	< 0.5	0.29	< 0.5	< 0.5	< 5	< 0.5	1500	< 10	< 20	< 0.1	1.1	< 2	< 100	< 0.5	1.3	0.6
281048	< 1	< 2	< 1	< 100	22	3.8	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	1.8	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	0.6
291001	< 1	< 2	< 1	800	6	< 0.5	3	22	1.7	0.84	3.6	< 0.5	< 5	< 0.5	18800	< 10	< 20	0.3	2.9	< 2	400	< 0.5	2.9	0.7
291002	< 1	< 2	< 1	700	6	1.1	3	32	2.1	1.22	3.2	< 0.5	< 5	< 0.5	19700	< 10	< 20	0.3	4.6	< 2	700	< 0.5	3.1	1.1
291003	< 1	< 2	4	400	< 1	1.1	4	43	2.0	1.30	4.6	< 0.5	< 5	< 0.5	17600	< 10	30	< 0.1	6.6	< 2	< 100	0.6	3.5	< 0.1
291004	< 1	< 2	4	300	14	2.8	15	22	5.0	3.63	2.1	< 0.5	< 5	5.3	10100	< 10	< 20	0.6	15.4	< 2	< 100	< 0.5	3.1	2.4
291005	< 1	< 2	7	300	18	2.9	15	29	1.7	3.15	1.3	< 0.5	< 5	< 0.5	5800	< 10	< 20	0.6	11.9	< 2	< 100	< 0.5	4.1	3.1
291007	< 1	< 2	< 1	400	8	4.1	27	99	3.5	3.96	3.5	< 0.5	< 5	< 0.5	24100	120	30	< 0.1	15.4	< 2	< 100	< 0.5	6.2	< 0.1
291008	< 1	< 2	< 1	500	7	2.1	10	87	2.7	3.02	6.4	< 0.5	< 5	3.9	22400	< 10	< 20	0.3	11.5	< 2	< 100	0.5	5.6	1.7
291009	< 1	< 2	6	400	15	2.8	18	154	< 0.5	3.78	2.1	< 0.5	< 5	7.7	10500	< 10	< 20	0.4	11.3	< 2	< 100	< 0.5	5.2	2.9
291010	< 1	< 2	3	400	25	4.2	8	56	1.3	2.13	2.0	< 0.5	< 5	< 0.5	8800	< 10	< 20	0.4	6.0	< 2	400	< 0.5	5.9	3.5
291011	< 1	< 2	1	200	24	3.9	3	29	0.8	0.74	0.8	< 0.5	< 5	2.9	3500	< 10	< 20	0.3	2.5	2	< 100	< 0.5	2.9	1.7
291012	< 1	< 2	< 1	300	22	5.2	< 1	8	< 0.5	1.02	< 0.5	< 0.5	< 5	< 0.5	500	< 10	< 20	< 0.1	1.1	< 2	< 100	< 0.5	2.0	3.4
291013	< 1	< 2	< 1	100	29	4.9	< 1	7	< 0.5	0.34	< 0.5	< 0.5	< 5	2.4	500	< 10	< 20	< 0.1	0.8	< 2	< 100	< 0.5	1.4	< 0.1
291014	< 1	< 2	< 1	< 100	18	4.5	< 1	6	< 0.5	0.28	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291015	< 1	< 2	< 1	< 100	39	2.2	< 1	4	< 0.5	0.27	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291016	< 1	< 2	< 1	< 100	18	3.5	< 1	4	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291017	< 1	< 2	< 1	< 100	24	5.0	< 1	3	< 0.5	0.14	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	0.3
291018	< 1	< 2	< 1	< 100	22	4.8	< 1	< 1	< 0.5	0.29	< 0.5	< 0.5	< 5	2.2	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291019	< 1	< 2	< 1	< 100	25	3.6	< 1	3	< 0.5	0.11	< 0.5	< 0.5	< 5	2.1	400	< 10	< 20	< 0.1	0.3	< 2	< 100	< 0.5	< 0.5	< 0.1
291020	< 1	< 2	< 1	< 100	29	5.0	< 1	1	< 0.5	0.14	< 0.5	< 0.5	< 5	3.2	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	2.7
291021	< 1	< 2	< 1	< 100	45	5.3	< 1	3	< 0.5	0.18	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	6.0
291022	< 1	< 2	< 1	200	28	4.1	< 1	3	< 0.5	0.32	< 0.5	< 0.5	< 5	2.1	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291023	< 1	< 2	< 1	< 100	39	3.9	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291024	< 1	< 2	< 1	< 100	31	3.2	< 1	3	< 0.5	0.20	< 0.5	< 0.5	< 5	< 0.5	300	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	0.1
291025	< 1	< 2	< 1	< 100	48	2.2	< 1	3	< 0.5	0.43	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291026	< 1	< 2	< 1	< 100	56	2.2	< 1	4	< 0.5	0.43	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1

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Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	2	1	100	1	0.5	1	1	0.5	0.05	0.5	0.5	5	0.5	100	10	20	0.1	0.1	2	100	0.5	0.5	0.1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
291027	< 1	< 2	< 1	< 100	34	3.2	< 1	3	< 0.5	0.13	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291028	< 1	< 2	< 1	< 100	43	4.3	< 1	4	< 0.5	0.08	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.4	< 2	< 100	< 0.5	< 0.5	< 0.1
291029	< 1	< 2	< 1	< 100	21	5.9	< 1	4	< 0.5	0.18	< 0.5	< 0.5	< 5	5.2	300	< 10	< 20	0.1	0.7	< 2	< 100	< 0.5	< 0.5	9.1
291030	< 1	< 2	< 1	< 100	31	5.7	< 1	7	< 0.5	0.42	0.7	< 0.5	< 5	< 0.5	1300	30	< 20	< 0.1	1.8	< 2	< 100	< 0.5	1.7	2.9
291031	< 1	< 2	< 1	< 100	22	5.0	< 1	7	< 0.5	0.34	< 0.5	< 0.5	< 5	< 0.5	400	< 10	< 20	< 0.1	0.8	< 2	< 100	< 0.5	0.8	2.7

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2	1	1	1	1	1	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
271001	< 1	< 20	15.8	29	4	1.2	0.3	< 0.2	0.7	0.1	15.6	< 0.2	31	41	< 1	6	15	14
271002	< 1	< 20	48.0	83	19	3.2	0.7	< 0.2	0.7	< 0.1	15.4	< 0.2	25	240	1	12	10	20
271003	< 1	< 20	19.2	32	9	1.6	0.3	< 0.2	0.5	< 0.1	15.8	< 0.2	21	303	< 1	10	1	6
271004	< 1	< 20	64.0	104	23	4.6	1.0	0.6	1.1	0.2	15.9	< 0.2	63	575	1	24	3	19
271005	< 1	< 20	88.0	139	43	6.6	1.3	< 0.2	1.3	0.1	15.2	< 0.2	30	729	2	15	3	6
271006	< 1	< 20	8.6	16	5	0.8	< 0.2	< 0.2	0.2	< 0.1	15.8	< 0.2	8	79	< 1	5	< 1	7
271007	< 1	< 20	46.4	91	17	3.0	0.6	< 0.2	0.5	< 0.1	15.1	< 0.2	13	120	< 1	9	5	12
271008	< 1	< 20	41.6	86	21	3.2	0.6	0.3	0.5	< 0.1	15.6	< 0.2	12	117	< 1	7	2	10
271009	< 1	< 20	40.0	64	21	3.0	0.6	0.3	0.7	< 0.1	15.3	< 0.2	11	98	< 1	6	1	11
271010	2	< 20	5.3	8	< 3	0.5	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	7	70	< 1	4	< 1	5
271011	< 1	20	5.6	11	< 3	0.5	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	9	166	2	3	< 1	13
271012	< 1	< 20	1.6	2	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	4	105	2	2	< 1	6
271013	< 1	< 20	1.6	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.0	< 0.2	3	178	< 1	1	1	6
271014	< 1	< 20	1.4	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	104	< 1	1	< 1	7
271015	< 1	< 20	1.3	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	59	< 1	1	< 1	4
271016	< 1	< 20	1.3	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	31	< 1	1	< 1	5
271017	< 1	< 20	1.4	2	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	28	< 1	< 1	< 1	5
271018	< 1	< 20	1.4	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	2	36	< 1	< 1	< 1	8
271019	< 1	20	1.8	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	76	< 1	< 1	2	19
271020	< 1	20	1.8	3	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	1	83	< 1	< 1	1	11
271021	< 1	50	1.6	< 1	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.6	< 0.2	1	1780	< 1	2	2	47
271022	< 1	< 20	1.9	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.5	< 0.2	2	334	< 1	< 1	1	13
271023	< 1	< 20	2.2	6	< 3	0.3	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2	6	250	< 1	2	1	20
271024	< 1	20	12.5	21	5	1.1	0.2	< 0.2	0.4	< 0.1	15.1	< 0.2	10	214	< 1	8	5	14
271025	< 1	< 20	2.2	5	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.0	< 0.2	6	53	4	2	< 1	8
271026	< 1	< 20	4.2	6	< 3	0.5	< 0.2	< 0.2	0.2	< 0.1	15.0	< 0.2	7	58	4	3	< 1	11
271027	< 1	< 20	1.4	5	< 3	0.2	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	2	66	2	< 1	< 1	9
271028	< 1	< 20	1.8	5	< 3	0.2	< 0.2	< 0.2	0.1	< 0.1	15.2	< 0.2	2	385	1	1	2	17
271029	< 1	< 20	1.6	3	< 3	0.2	< 0.2	< 0.2	0.2	< 0.1	15.0	< 0.2	2	140	< 1	< 1	1	11
271030	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	2	52	< 1	< 1	2	9
271031	1	< 20	1.4	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	25	1	< 1	2	17
281001	< 1	< 20	28.0	46	8	1.9	0.4	< 0.2	0.7	0.1	15.7	< 0.2	31	59	2	21	13	19
281002	< 1	< 20	49.0	88	38	6.7	1.4	0.8	1.5	0.1	15.9	< 0.2	29	893	< 1	13	5	9
281003	< 1	20	35.0	56	29	5.7	1.3	0.8	1.3	0.1	15.3	< 0.2	32	198	< 1	17	3	16
281004	< 1	< 20	44.8	41	39	7.0	1.7	0.8	2.0	0.3	15.4	< 0.2	57	310	< 1	10	3	4
281005	< 1	< 20	18.2	34	15	3.1	0.7	0.4	0.8	< 0.1	15.5	< 0.2	21	29	< 1	6	3	9
281006	< 1	< 20	95.2	137	81	15.4	3.5	1.4	2.5	0.3	15.3	< 0.2	34	54	< 1	10	25	6
281007	< 1	< 20	16.8	31	14	2.4	0.6	< 0.2	0.6	< 0.1	15.5	< 0.2	15	42	1	6	5	8
281008	13	30	15.4	27	6	2.2	0.6	< 0.2	1.1	0.1	15.2	< 0.2	22	99	< 1	6	5	14
281009	< 1	< 20	36.4	59	34	6.7	1.5	0.4	1.0	< 0.1	15.5	< 0.2	33	76	< 1	6	3	10
281010	< 1	< 20	29.4	94	24	4.3	0.7	< 0.2	0.8	< 0.1	15.2	0.5	9	7910	4	6	7	19
281011	< 1	< 20	9.9	18	7	1.7	0.3	< 0.2	0.6	< 0.1	15.1	< 0.2	5	496	< 1	4	2	4
281012	< 1	< 20	3.8	8	4	0.7	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	3	811	< 1	2	10	10
281013	< 1	< 20	6.4	14	< 3	1.1	< 0.2	< 0.2	0.4	< 0.1	15.2	< 0.2	4	749	< 1	2	5	8
281014	< 1	< 20	1.8	4	< 3	0.4	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	3	106	< 1	2	< 1	7
281015	< 1	< 20	3.9	6	< 3	0.6	< 0.2	< 0.2	0.3	< 0.1	15.7	< 0.2	3	602	< 1	3	2	7
281016	< 1	30	4.3	10	4	0.7	< 0.2	< 0.2	0.3	< 0.1	15.2	< 0.2	5	533	< 1	3	5	19
281017	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	2	184	< 1	2	< 1	12
281018	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2	3	108	< 1	2	1	13
281019	< 1	< 20	1.4	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	4	42	2	4	< 1	11
281020	< 1	< 20	23.8	29	14	2.4	0.4	< 0.2	0.6	< 0.1	15.7	< 0.2	13	331	< 1	7	1	10
281021	< 1	< 20	2.8	6	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2	7	47	2	2	2	5

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2	1	1	1	1	1	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
281022	< 1	< 20	26.6	48	20	3.6	0.8	< 0.2	1.0	0.1	15.4	< 0.2	24	150	< 1	12	3	7
281023	< 1	40	15.4	28	7	2.2	0.6	< 0.2	1.8	0.3	15.9	< 0.2	36	163	< 1	7	7	25
281024	< 1	< 20	16.8	29	13	2.4	0.6	< 0.2	0.6	< 0.1	16.0	< 0.2	23	55	1	10	4	15
281025	< 1	< 20	28.0	50	18	2.9	0.6	< 0.2	0.6	< 0.1	15.9	< 0.2	21	282	1	14	2	18
281026	< 1	< 20	33.6	59	22	3.5	0.7	< 0.2	0.6	< 0.1	15.4	< 0.2	19	249	< 1	9	3	13
281027	< 1	< 20	35.0	63	22	3.4	0.6	< 0.2	0.8	< 0.1	15.0	< 0.2	22	253	< 1	9	2	16
281028	< 1	< 20	22.4	34	15	2.0	0.4	< 0.2	0.6	< 0.1	15.3	< 0.2	17	1330	< 1	8	2	8
281029	< 1	< 20	6.9	11	6	0.8	< 0.2	< 0.2	0.3	< 0.1	15.4	< 0.2	12	212	1	5	< 1	9
281030	< 1	< 20	3.2	6	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2	7	478	1	4	< 1	12
281031	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.5	< 0.2	3	144	< 1	2	< 1	7
281032	< 1	< 20	1.1	< 1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	4	133	< 1	1	< 1	13
281033	< 1	< 20	1.3	4	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	63	< 1	1	< 1	8
281034	< 1	< 20	1.3	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	127	< 1	1	< 1	6
281035	< 1	20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	14.5	< 0.2	2	367	< 1	1	6	16
281036	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.0	< 0.2	2	50	< 1	1	< 1	22
281037	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	73	1	1	< 1	21
281038	< 1	< 20	2.1	4	< 3	0.4	< 0.2	< 0.2	0.1	< 0.1	15.6	< 0.2	5	81	< 1	2	< 1	14
281039	< 1	< 20	1.1	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	442	1	< 1	< 1	17
281040	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.6	< 0.2	2	58	1	< 1	2	7
281041	< 1	< 20	1.4	4	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	1	32	< 1	1	1	9
281042	< 1	< 20	1.3	1	< 3	0.1	< 0.2	< 0.2	0.1	< 0.1	15.1	< 0.2	1	63	< 1	< 1	< 1	8
281043	< 1	< 20	1.4	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	1	25	< 1	< 1	< 1	5
281044	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	1	46	< 1	< 1	< 1	5
281045	< 1	< 20	1.1	1	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.0	< 0.2	2	60	< 1	1	3	15
281046	< 1	< 20	2.7	4	< 3	0.4	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	7	20	< 1	3	< 1	20
281047	< 1	< 20	4.3	7	< 3	0.6	< 0.2	< 0.2	0.3	< 0.1	15.6	< 0.2	7	28	< 1	3	1	7
281048	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2	4	62	1	2	8	10
291001	< 1	< 20	8.5	17	< 3	1.1	0.4	< 0.2	0.7	< 0.1	15.9	< 0.2	12	70	2	11	11	15
291002	< 1	< 20	12.3	24	10	1.7	0.6	< 0.2	0.7	< 0.1	15.2	< 0.2	7	79	2	7	9	18
291003	< 1	< 20	10.5	18	7	1.4	< 0.2	< 0.2	1.1	0.1	15.9	< 0.2	16	55	1	10	12	15
291004	< 1	60	32.2	35	24	5.3	1.3	< 0.2	2.0	0.3	15.8	< 0.2	64	183	1	23	1	22
291005	< 1	30	77.0	53	52	9.8	2.0	1.1	2.7	0.4	15.8	< 0.2	82	271	2	22	< 1	23
291007	< 1	< 20	36.4	74	28	5.6	1.3	< 0.2	2.1	0.3	15.7	< 0.2	49	1160	2	38	4	31
291008	< 1	40	21.0	43	15	3.5	0.8	< 0.2	1.7	0.3	15.8	< 0.2	17	192	3	27	4	24
291009	< 1	60	32.2	71	24	4.6	1.0	< 0.2	1.8	0.3	15.3	< 0.2	26	848	7	57	4	42
291010	< 1	30	44.8	90	29	5.6	1.1	< 0.2	1.4	0.1	15.3	< 0.2	37	298	1	23	3	34
291011	< 1	< 20	21.0	36	14	2.2	0.4	< 0.2	0.6	< 0.1	15.0	< 0.2	18	86	1	13	2	11
291012	< 1	< 20	11.5	17	7	1.3	< 0.2	< 0.2	0.3	< 0.1	15.6	< 0.2	13	862	< 1	6	< 1	5
291013	< 1	< 20	4.6	7	4	0.6	< 0.2	< 0.2	< 0.1	< 0.1	15.0	< 0.2	8	318	< 1	5	< 1	6
291014	< 1	< 20	2.0	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	5	250	1	3	1	7
291015	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	185	< 1	1	< 1	14
291016	< 1	< 20	1.1	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2	2	69	< 1	1	< 1	6
291017	< 1	20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2	4	39	1	1	< 1	18
291018	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.7	< 0.2	2	48	2	< 1	< 1	19
291019	< 1	< 20	1.1	3	< 3	0.1	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	3	108	2	1	< 1	18
291020	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	4	49	3	2	< 1	16
291021	< 1	< 20	1.5	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	6	31	3	2	20	18
291022	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	2	723	< 1	< 1	< 1	9
291023	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	106	< 1	< 1	1	11
291024	< 1	< 20	1.3	1	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.2	< 0.2	2	38	< 1	< 1	49	5
291025	< 1	< 20	1.3	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.4	< 0.2	2	156	< 1	< 1	< 1	8
291026	< 1	< 20	1.4	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.1	< 0.2	2	152	< 1	< 1	< 1	8

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Ag	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	20	0.1	1	3	0.1	0.2	0.2	0.1	0.1		0.2	1	1	1	1	1	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
291027	< 1	< 20	1.4	4	< 3	0.3	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2	2	38	< 1	< 1	< 1	5
291028	< 1	< 20	1.5	3	< 3	0.3	< 0.2	< 0.2	< 0.1	< 0.1	15.3	< 0.2	3	38	< 1	< 1	< 1	9
291029	< 1	< 20	2.7	6	< 3	0.6	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2	9	89	4	3	< 1	4
291030	< 1	< 20	7.1	10	4	1.0	< 0.2	< 0.2	0.3	< 0.1	15.5	< 0.2	10	26	< 1	4	1	6
291031	< 1	< 20	5.2	10	< 3	0.7	< 0.2	< 0.2	0.1	< 0.1	15.4	< 0.2	11	84	< 1	2	< 1	13

Quality Control

Analyte Symbol	Au	As	Ba	Br	Ca	Co	Fe	Na	Rb	Sb	Sc	Sr	U	Zn	La	Ce	Sm	Yb	Ag	Cu	Mn	Mo	Ni	Pb
Unit Symbol	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	1	100	1	0.5	1	0.05	100	20	0.1	0.1	100	0.1	20	0.1	1	0.1	0.1	0.2	1	1	1	1	1
Analysis Method	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas																			23.4	993	725	13	25	551
GXR-1 Cert																			31.0	1110	852	18.0	41.0	730
GXR-4 Meas																			3.2	6380	138	320	38	42
GXR-4 Cert																			4.00	6520	155	310	42.0	52.0
GXR-6 Meas																			0.2	66	986	1	21	88
GXR-6 Cert																			1.30	66.0	1010	2.40	27.0	101
OREAS 13b (4-Acid) Meas																			0.7	2350		9	2260	
OREAS 13b (4-Acid) Cert																			0.86	2300.000		9.0	2247	
L-Std-3 Meas	19	< 1	< 100	5	3.2	< 1	0.34	1500	< 20	< 0.1	1.0	< 100	< 0.1	60	2.7	6	0.3	0.1						
L-Std-3 Cert	20.0	1.23	71.0	4.00	3.60	1.40	0.350	1660	9.00	0.240	0.890	105	0.210	64.0	2.73	5.60	0.400	0.290						
271013 Orig																			< 0.2	3	180	< 1	1	1
271013 Dup																			< 0.2	2	177	< 1	1	1
271027 Orig																			< 0.2	2	66	2	< 1	< 1
271027 Dup																			< 0.2	2	65	2	< 1	< 1
281009 Orig																			< 0.2	32	72	< 1	6	3
281009 Dup																			< 0.2	34	80	< 1	6	3
281023 Orig																			< 0.2	37	168	< 1	7	7
281023 Dup																			< 0.2	36	158	< 1	6	8
281046 Orig																			< 0.2	7	20	< 1	3	< 1
281046 Dup																			< 0.2	8	20	< 1	3	< 1
291013 Orig																			< 0.2	8	315	< 1	5	< 1
291013 Dup																			< 0.2	9	320	< 1	5	< 1
291026 Orig																			< 0.2	2	153	< 1	< 1	< 1
291026 Dup																			< 0.2	2	151	< 1	< 1	< 1
Method Blank Method Blank																			< 0.2	< 1	< 1	< 1	< 1	< 1
Method Blank Method Blank																			< 0.2	< 1	< 1	< 1	< 1	< 1

Quality Control

Analyte Symbol	Zn
Unit Symbol	ppm
Detection Limit	1
Analysis Method	AR-ICP
GXR-1 Meas	595
GXR-1 Cert	760
GXR-4 Meas	68
GXR-4 Cert	73.0
GXR-6 Meas	120
GXR-6 Cert	118
OREAS 13b (4-Acid) Meas	54
OREAS 13b (4-Acid) Cert	133
L-Std-3 Meas	
L-Std-3 Cert	
271013 Orig	6
271013 Dup	5
271027 Orig	9
271027 Dup	9
281009 Orig	10
281009 Dup	11
281023 Orig	25
281023 Dup	25
281046 Orig	20
281046 Dup	20
291013 Orig	6
291013 Dup	6
291026 Orig	8
291026 Dup	8
Method Blank Method Blank	< 1
Method Blank Method Blank	< 1