

LOG NO: 10-02	RD.
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GEOLOGICAL AND GEOCHEMICAL REPORT

RAINIER-WIDOW PROPERTY

owner: Battle Mountain (Canada) Inc.  
2910 - 390 Bay Street  
Toronto, Ontario M5H 2Y2

operator: Battle Mountain (Canada) Inc.  
2910 - 390 Bay Street  
Toronto, Ontario M5H 2Y2

mining division: Nanaimo

location: approximately 40 km WSW of Port McNeill, B.C.  
NTS: 92L/6  
latitude: 50 deg. 20 min. N  
longitude: 127 deg. 15 min. W

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date: September 18, 1990

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

20,327  
Part 1 of 2

## SUMMARY AND RECOMMENDATIONS

The collection of 481 soil samples on the Rainier-Widow property during 1990 has outlined a 350 X 500 metre gold-cobalt anomaly within an area underlain by andesitic to dacitic volcanics of the Lower Jurassic Bonanza Group. Arsenic, copper and nickel anomalies flank the gold-cobalt anomaly to the east. The gold-cobalt anomaly appears to be stratigraphically controlled and anomalous values occur within skarn-altered dacitic crystal and lapilli tuffs. Soil gold-cobalt anomalies are not, however, related to exposed sulphide mineralization. Further investigation of the anomalous skarn system may involve drilling.

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## INTRODUCTION

Field work carried out on this property during 1990 consisted of the collection of 481 'B' horizon soil samples and 39 rock chip samples along 15 km of cut and flagged grid lines. Pickets were placed every 25 metres and all stations and sample identification numbers were marked on aluminum tags stapled to the pickets (see Drawing #2 [in pocket]). Geological features were mapped over the entire property at a scale of 1:5000 (see Drawing #1 [in pocket]). Detailed mapping at 1:1000 was also carried out in the vicinity of the gold-cobalt soil anomaly (see Drawing #5 and #6 [in pocket]). A total field magnetic survey was carried out over the grid utilizing a proton magnetometer (see Drawing #4 [in pocket]). Sixty-six man days were spent in the field.

## LOCATION AND ACCESS

The Rainier-Widow property is located on northern Vancouver Island approximately 40 km WSW of Port McNeill, B.C., and less than 2 km south of the (now inactive) Merry Widow and Kingfisher iron (magnetite) mines. The property is located on NTS sheet 92L/6 within the Nanaimo mining division at latitude 50° 20' north and longitude 127° 15' west. Access is achieved via all season gravel logging roads maintained by MacMillan Bloedel from both Port McNeill and Port Alice. Access along Rainier Creek as well as along the ridge between Rainier Creek and Merry Widow Creek is achieved through the use of steep, rough service logging roads.

## LAND STATUS

The Rainier-Widow property consists of one 20-unit MGS claim and sixteen 2-post claims, as follows:

<u>claim name:</u>	<u>record number:</u>	<u>units:</u>	<u>record date:</u>	<u>location date:</u>	<u>expiry date:</u>
Rainier	3031	20	7/11/88	7/11/88	7/11/95
Widow 1	3132	1	10/5/88	9/15/88	9/15/95
Widow 2	3133	1	10/5/88	9/15/88	9/15/95
Widow 3	3134	1	10/5/88	9/15/88	9/15/95
Widow 4	3135	1	10/5/88	9/15/88	9/15/95
Widow 5	3136	1	10/5/88	9/15/88	9/15/95
Widow 6	3137	1	10/5/88	9/15/88	9/15/95
Widow 7	3138	1	10/5/88	9/16/88	9/16/95
Widow 8	3139	1	10/5/88	9/16/88	9/16/95
Widow 9	3140	1	10/5/88	9/16/88	9/16/95
Widow 10	3141	1	10/5/88	9/16/88	9/16/95
Widow 11	3142	1	10/5/88	9/16/88	9/16/95
Widow 12	3143	1	10/5/88	9/16/88	9/16/95
Widow 13	3144	1	10/5/88	9/16/88	9/16/95
Widow 14	3145	1	10/5/88	9/16/88	9/16/95
Widow 15	3146	1	10/5/88	9/16/88	9/16/95
Widow 16	3147	1	10/5/88	9/16/88	9/16/95

All of the above claims are owned by Battle Mountain (Canada) Inc., 2910-390 Bay Street, Toronto, Ontario, M5H 2Y2.

## REGIONAL GEOLOGY

The area is underlain primarily by rocks belonging to the Upper Triassic Vancouver Group. Limestones of the Upper Triassic Quatsino Formation as well as black carbonaceous limestones of the overlying Upper Triassic Parson Bay Formation are overlain by tuffs, agglomerates and flows belonging to the Lower Jurassic Bonanza Group. This volcanoclastic and sedimentary assemblage is intruded by monzonitic and dioritic stocks, dykes and sills belonging to the Jurassic Island Intrusions. The monzonite stock

exposed in the area has a mafic dioritic to gabbroic border phase which is direct contact with the older Bonanza and Quatsino rocks.

### PROPERTY GEOLOGY

The base of the sedimentary/volcanic section at the Rainier-Widow property comprised the mafic submarine pillow basalts of the Upper Triassic Karmutsen Formation. Flows belonging to the Karmutsen are exposed east of the Benson River on the property.

Conformably overlying the Karmutsen, the Upper Triassic Quatsino Formation is a white to grey, recrystallized, massive to thick-bedded limestone, found to be in excess of 700 metres thick on the property. The Quatsino Formation strikes north-south and dips 25-30° west. Limestones of the Quatsino are locally intruded by dioritic dykes and sills, likely feeders for the overlying Bonanza volcanics. Limestone is weakly altered at intrusive contacts with the dykes and sills.

The Upper Triassic Parson Bay Formation, which conformably overlies Quatsino limestone, consists of thin to medium bedded black carbonaceous limestone. This unit, which is approximately 200 to 300 metres thick on the property, generally strikes north-south and dips 20°-30° to the west. Thinly bedded argillite is less common within the Parson Bay Formation and is only locally seen in outcrop. The Parson Bay Formation is intruded by both monzonitic and dioritic dykes and sills. Both types of dyke display only minor contact alteration effects.

The Lower Jurassic Bonanza Group comprises ash tuffs, crystal tuffs, lapilli tuffs, flows and agglomerates of rhyolitic to andesitic composition. In the south-central portion of the property, andesitic agglomerates, which strike north-south and dip 36° west, conformably overlie limestones of the Parson Bay Formation. This agglomerate is composed of subangular to angular clasts ranging from 1 to 10 cm in diameter. The clasts are commonly rimmed with hematite but sulphides are virtually nonexistent in this unit. There is little evidence of mineralization in this portion of the claims and no anomalous values were obtained through rock or soil geochemistry. The north-central portion of the property is also underlain by Bonanza Group volcanics consisting of thin, interbedded, rhyolitic to andesitic tuffs and flows. These units strike north-south and gently dip 15°-20° west. A rhyolitic ash tuff lies at the unconformable (faulted?) contact between Quatsino limestones and overlying Bonanza volcanics in this portion of the property. This fine grained welded ash tuff contains 10%-15% very fine grained disseminated pyrite and may be related to several anomalous gold values obtained through soil geochemistry. Stratigraphically upwards, the Bonanza Group consists of thinly interbedded dacitic to andesitic ash tuffs, crystal tuffs, lapilli tuffs and flows. Many interbedded units of dacitic composition are moderately to

strongly altered. It is within this area of alteration that a strong gold and cobalt soil geochemical anomaly is located. The Bonanza Group volcanics in this area appear to be at least 350 metres thick and are truncated to the west by a coarse-grained diorite to gabbro intrusive which is a border phase of a large Jurassic monzonite stock (Island Intrusions). This same intrusive is exposed north of the Rainier-Widow property where it forms the footwall to mineralized skarn at the Merry Widow Mine.

### ALTERATION AND MINERALIZATION

Alteration is largely confined to the Bonanza Group volcanics exposed in the northwestern portion of the property. Quatsino Formation limestones are commonly recrystallized but no more advanced alteration is evident within this unit. Within the Bonanza Group, alteration appears to be stratigraphically controlled by porosity, permeability, and composition of the host rock. Alteration is spatially related to the diorite-gabbro stock which lies west of the Bonanza Group volcanics exposed in the western portion of the property. This alteration consists primarily of skarn and hornfels. Skarn minerals identified include clinozoisite ( $\pm$  epidote), garnet, and actinolite. Hornfels is dominantly composed of diopside and lesser biotite (with the biotite representing an early overprinted phase). Fine-grained garnet is locally present within hornfels as well. The gold soil anomaly appears to be related to interbeds of moderately skarn-altered dacitic crystal tuffs and lapilli tuffs.

It is noteworthy that, other than the previously mentioned minor pyrite present within welded rhyolite tuff at the Bonanza-Quatsino contact, Bonanza rocks exposed on the Rainier-Widow property are almost completely barren of sulphides.

### GEOPHYSICS

A total field magnetic survey was effective in identifying intrusive dykes, structural features and stratigraphic contacts. A Scintrex MP-3 proton magnetometer was utilized together with a recording base station unit. Readings were taken every 12.5 metres along grid lines. The readings were corrected for diurnal magnetic variation and profiles were plotted using a proprietary software package supplied by Scintrex. The readings were relatively low in contrast, with the highest reading at 56375 gammas and the lowest reading obtained near 54600 gammas. The higher readings in the range of 55200 to 56375 gammas were obtained over the Bonanza Group volcanics. Readings in the range of 54900 to 55200 gammas were obtained over the Quatsino Formation and the Parson Bay Formation. Readings from 54600 to 54900 gammas were obtained in the eastern portion of the grid where very little outcrop is seen. This area is believed to be underlain by a major north-south fault which



follows the Benson River and separates the Upper Triassic Karmutsen Formation to the east from the Upper Triassic Quatsino Formation and Upper Triassic Parson Bay Formation to the west. It is a possibility that the low readings in this area are related to relatively thick alluvial deposits.

Total field magnetic readings are plotted on Drawing #3 (in pocket). Figures 1 through 16 constitute 1:5000 scale magnetic profiles for each grid line on which the survey was run.

## GEOCHEMISTRY - SOIL SURVEY

### Sample Collection

Samples were collected at a 25 metre intervals along cut and picketed lines, along chained and picketed lines, and along intervening lines established with a topofil and clinometer. The only exception was the southeastern portion of the property which was sampled at 50 metre intervals. Sample locations and numbers are plotted on Drawing # 3. Soil samples were collected from the top of the 'B' horizon at 10 to 100 cm depths. All sample sites were marked by aluminum tags. Approximately 0.5 kg of soil was taken at each station, avoiding large pebbles, and was placed in a high wet strength, 8 by 24 cm Kraft paper envelope numbered on site. Samples were not prepared in the field but were shipped to International Plasma Laboratory Ltd. in Vancouver, B.C. for sample preparation and a 30 element analysis determined by ICP following an aqua regia digestion. Gold was determined by a 30-gram fire assay fusion preconcentration - atomic absorption determination. Analytical methods are summarized in Appendix 1 and a list of data is provided in Appendix 2.

### Method of Data Evaluation

The procedure used to interpret the histograms is found in Appendix 4. This strategy enables selection of appropriate intervals which are then used to size-code the geochemical data for presentation on maps. The open circle represents lowest values for the survey; size coding of remaining data reflects increasing larger values as the "dots" increase in size. The largest concentrations of the survey are highlighted by a value notation.

### Description of Results

#### 1. Au

Three anomalies exceed a 20 ppb threshold, reaching maximum values of 200 to 930 ppb. The largest anomaly trends northeastward along a ridge underlain by andesitic and dacitic volcanics of the Bonanza

Group. This zone is over 500 metres long and 350 metres wide and is open to the southwest. A less well-defined anomaly lies slightly downslope at the contact between the Quatsino Formation and the Bonanza Group. A third anomaly lies in the eastern portion of the property near the Benson River. This latter anomaly may be related to enhanced values within alluvium or alternatively be related to a major north-south fault mapped in the area..

## 2. As

Four arsenic anomalies are noted. A strong As anomaly lies immediately downslope of the strongest Au anomaly in the western portion of the property and is most likely related to the same mineralized system. Two anomalies more or less central to the area covered by soil sampling are underlain by Parson Bay Fm. while a fourth anomaly in the eastern portion of the property is approximately coincident with a gold anomaly in the same area located within alluvial cover. The two central anomalies may reflect high As background in carbonaceous limestones of the Parson Bay Fm.

## 3. Cu

Four copper anomalies are noted. The best developed copper anomaly is approximately coincident with the strong arsenic anomaly noted on the western grid. The remaining three copper anomalies are closely coincident with previously described arsenic anomalies.

## 4. Ag

Nearly all Ag values are at or near the detection limit with only 4 samples exceeding 1.0 ppm.

## 5. Pb

Pb distribution is unusually noisy and overall values are quite low. The best developed anomaly reaches a maximum of 23 ppm and is found coincident with other anomalies in the eastern portion of the grid. This anomaly is largely underlain by alluvium related to the Benson River. Elsewhere, scattered anomalous values may be related to gold-copper-arsenic anomalies found on the western portion of the grid.

## 6. Zn

Anomalous zinc values are found in soils developed over limestones of the Quatsino Fm. near the contact with Bonanza volcanics. This anomaly is quite closely coincident to a strong arsenic anomaly in the same location. As well, most samples collected from soils developed over sediments of the Parson Bay Fm. contain enhanced zinc values. Bonanza volcanics are readily discriminated from sedimentary units by low zinc values in soil samples.

7. Mo

Molybdenum distribution in soils appears quite noisy. Higher values do not correlate well with the distribution of anomalous gold.

8. Co

Two well-developed cobalt anomalies are present. The strongest anomaly is found on the western grid where cobalt values reach a maximum of 889 ppm. This anomaly is coincident not only with the major gold anomaly found in this area but with flanking arsenic and copper anomalies. A weaker cobalt anomaly is located in the eastern portion of the grid near the Benson River and is underlain by alluvial material.

9. Bi

Bismuth values in soils are generally quite low over the entire property. However, several weakly anomalous bismuth values are noted within Bonanza volcanics in the western portion of the grid and are coincident with a portion of the major gold anomaly found in this area.

10. Ba

Barium distribution is noisy but two anomalous zones are noted. One zone apparently defines the Bonanza-Quatsino contact on the western grid. The second, more diffuse, zone lies within the Benson River valley and generally correlates with arsenic, copper, gold, cobalt and lead anomalies found in this area.

11. Ni

A well-defined nickel anomaly is coincident with the arsenic and copper anomalies noted on the western portion of the grid and is located slightly downslope of the gold anomaly found in this area.

12. Fe

Nearly all iron values were greater than 7.5% (the upper detection limit of the geochemical technique utilized).

13. Al

Most aluminum values in soils underlain by Parson Bay and Quatsino rocks are at or near the upper detection limit (7.5%). However, quoted aluminum values within soils underlain by volcanics of the Bonanza Fm. are generally significantly lower.

14. Mn

Manganese distribution is quite noisy. However, a reasonably well-developed soil anomaly is coincident with the gold anomaly noted on the western grid and weaker manganese anomalies are found on the central and eastern grids.

15. Ca

Calcium values are typically quite low. It is interesting to note that calcium values are generally as high within soils overlying Bonanza volcanics as within soils overlying carbonate-rich units. There are two areas of weakly to moderately anomalous calcium values. The first area overlies the west grid and the second is within the eastern grid near the Benson River.

16. Cd

Four anomalous cadmium zones are noted. These zones are closely coincident with previously described copper and arsenic anomalies across the property. It is noted that cadmium values within Bonanza volcanic units are generally quite low.

17. V

A major vanadium anomaly overlies the entire western grid where the major gold anomaly is located. This anomaly may be related to the skarn system developed in this area or alternatively may be related to higher background vanadium levels within both the Bonanza and the Quatsino.

18. Sr

Two broad zones anomalous in strontium are noted on the property. The first is located on the western grid and is approximately coincident with the gold-copper-arsenic anomaly found in this area. The second anomaly is located on the eastern portion of the property within the alluvial material along the Benson River.

19. Cr

There is one moderately to highly anomalous large chrome anomaly which lies within immediately downslope of the gold anomaly found on the western grid, approximately coincident with well-developed copper-arsenic anomalies in this area. The anomalous chrome values occurring over the Quatsino limestone may be a transported anomaly as rock geochemistry within Quatsino limestones provided low chrome values.

#### 20. Ti

Titanium distribution is very similar to that of chrome. A weak to moderate anomaly is found within and immediately downslope of the gold anomaly found on the western grid.

#### 21. K

Potassium values are generally low. However, a few anomalous values are found coincident with the gold anomaly on the western grid as well as on the eastern portion of the grid near the Benson River.

#### 22. Sc

Nearly all scandium values are at or near the minimum detection limit.

#### 23. P

The phosphorus distribution reveals two strongly anomalous zones and one moderately anomalous zone. One strongly anomalous zone is located near the Quatsino/Bonanza contact on the western grid. Another strongly anomalous zone is located within alluvial material near the Benson River, while the third, less anomalous zone, is located within the central grid and is underlain by limy sediments of the Parson Bay Fm.

#### 24. La

Nearly all lanthanum values are at minimum detection limits. One small anomalous zone is located within the central grid and is underlain by limy sediments of the Parson Bay Fm.

#### 25. Zr

There are two small zones anomalous in zirconium as well as several isolated points. One zone is downslope of the Bonanza/Quatsino contact on the western grid. Another small zone lies along a small stream drainage in the northern part of the western grid and may represent downslope transport of a small, isolated occurrence.

#### 26. Th

Nearly all thorium values are at the minimum detection limit.

### Discussion/Conclusion of Results

The soil sampling program identified several Au anomalies which were accompanied by anomalous concentrations of Au pathfinder elements (As, Bi, Co) and base metals (Mo, Cu, Ni, Pb). One

anomaly with values between 50 and 930 ppb is up to 500 metres in length, 350 metres in width, and is open to the southwest. The uniform distribution of Pb and the concomitant concentration of many heavy elements within the Benson River valley suggests alluvial control.

## GEOCHEMISTRY - ROCK SAMPLE SURVEY

### Sample Collection

During the course of field work on the property, 39 rock chip samples were collected. The majority of these samples were collected from skarn-altered exposures of Bonanza Group volcanics in the vicinity of the strong gold soil anomaly on the western grid. Analytical procedures for these rock samples were identical to those utilized for soil samples (Appendix 1), save that the samples were crushed, pulverized and screened to -200 mesh prior to analysis.

### Description of Results

Analytical results for these 39 rock samples are included as Appendix 3. Examination of this data indicates that gold values are generally quite low (150 ppb maximum). Base metals and skarn-related pathfinders such as Bi and Co are also at or near background levels. The following list (Table 1) summarizes pertinent field information for each sample.

## CONCLUSIONS AND RECOMMENDATIONS

The Rainier-Widow property has been explored by mapping at 1:5000 and 1:1000 scales, collection of 381 soil samples, collection of 39 rock samples and a ground magnetometer survey. This work has served to identify a significant Au plus pathfinders soil anomaly in the northwestern portion of the property. This anomaly has surface dimensions of approximately 350 X 500 metres and is open to the southwest in very rugged, inaccessible terrain. Detailed mapping in this area has demonstrated the presence of widespread skarn and calc-silicate hornfels developed within favourable volcanic units of the Lower Jurassic Bonanza Group. However, this detailed mapping, coupled with rock sampling, has demonstrated that skarn and hornfels are sulphide-poor. As well, gold and pathfinder geochemical values in skarn and hornfels are only weakly to moderately anomalous and in general are considerably less anomalous than soil samples collected from the same area.

Soil anomalies located through both the 1989 and 1990 work programs have not been adequately explained or resolved by work completed to date. Further investigation of the anomalous areas should be done through drilling. Drilling in this area will be logistically

TABLE 1

ROCK SAMPLE DESCRIPTION

BC 2000	Medium grained diorite to monzonite with 50% plagioclase phenocrysts - 1% pyrite in 5-10 mm blebs - rock chip over 1 metre width.
BC 2001	Moderately hornfelsed limestone and siltstone - 1-3% fine grained disseminated pyrite - 1 metre rock chip.
BC 2002	Fine grained diorite dyke cutting through Parson Bay limestone - no sulphides - 1 metre rock chip.
BC 2003	Andesitic agglomerate (Bonanza) - subangular to angular fragments 1-20 mm in diameter - no sulphides - hematitic stained - 1 metre rock chip - outcrop 40 metres long and 2 metres wide (along roadcut) - grab sample.
BC 2004	Andesitic agglomerate - same as BC 2003 - grab sample.
BC 2005	Diorite gabbro dyke - 1-2% magnetite 'needles' 5 mm long (lineation @ 130 degrees) - dyke orientation 025/45° SE - 1 metre rock chip.
BC 2006	Diorite sill - 1-2% pyrite - 1 metre rock chip.
BC 2007	Skarn - 70% clinozoisite, trace garnet and diopside - no sulphides - 1 metre rock chip.
BC 2008	Skarn - 70% clinozoisite, trace to 2% garnet, trace actinolite - no sulphides - 1 metre rock chip.
BC 2009	Diopside hornfels - altered lapilli tuff, no sulphides - 1 metre rock chip.
BC 2010	Diopside hornfels - altered lapilli tuff, 5-10% clinozoisite, trace garnet - 1 metre rock chip.
BC 2011	Skarn - 30% clinozoisite, 30% diopside, no sulphides - 1 metre rock chip.
BC 2012	Diopside hornfels - weakly to moderately skarn-altered dacitic ash tuff - trace - 1% pyrite - 1 metre rock chip.
BC 2013	Skarn - 50% clinozoisite, 2-3% actinolite, trace garnet - no sulphides - 1 metre rock chip.
BC 2014	Diopside hornfels - ash tuff - diopside 40%, secondary biotite 30%, trace fine grained pyrite, strongly calcareous - grab sample.

- BC 2015 Crystal tuff - sub-rounded crystals of quartz (10%), sericitized plagioclase, trace of red garnets along fractures - 1 metre rock chip.
- BC 2016 Andesitic ash tuff - trace of actinolite? crystals - no sulphides - 1 metre rock chip.
- BC 2017 Skarn - 30-40% clinozoisite, 30% diopside, 3-4% garnet - no sulphides - 1 metre rock chip.
- BC 2018 Crystal tuff - weak to moderate skarn altered, trace very fine grained pyrite - 1 metre rock chip.
- BC 2019 Skarn - 50% clinozoisite, trace garnet - no sulphides - 1 metre rock chip.
- BC 2020 Skarn - 70% clinozoisite, trace actinolite - no sulphides - 1 metre rock chip.
- BC 2021 Skarn altered crystal tuff - dacitic crystal tuff with clinozoisite along fracture - no sulphides - 1 metre rock chip.
- BC 2022 Skarn - interbedded skarn and crystal tuff - no sulphides - 1 metre rock chip.
- BC 2023 Andesitic ash tuff - no sulphides - 1 metre rock chip.
- BC 2024 Diopside hornfels - diopside 40%, clinozoisite 5-10%, 2-3% garnet - no sulphides - 1 metre rock chip.
- BC 2025 Diopside hornfels - diopside 60%, clinozoisite 5-10%, trace garnet - no sulphides - 1 metre rock chip.
- BC 2026 Andesitic ash tuff - fractures filled with quartz/carbonate - no sulphides - 1 metre rock chip.
- BC 2027 Diopside hornfels - diopside 60%, trace clinozoisite, trace garnet - no sulphides - 1 metre rock chip.
- BC 2028 Interbedded skarn and diopside hornfels - no sulphides - 1 metre rock chip.
- BC 2029 Monzonitic dyke - 3% pyrrhotite, 5% secondary biotite. 1 metre rock chip.
- BC 2030 Rhyolite welded ash tuff - glass shards, trace pyrite - 1 metre rock chip.
- BC 2031 Rhyolite welded ash tuff - 10-15% very fine grained pyrite - moderately silicified - 1 metre rock chip.



- BC 2032 Limestone - massive recrystallized, light grey limestone - no sulphides - sheared - at contact with Bonanza volcanics - 1 metre rock chip.
- BC 2033 Massive sulphides - float of 50% pyrrhotite, 1% chalcopyrite, 1% pyrite - grab sample from Benson Main road.
- BC 2034 Skarn - 80% clinozoisite, trace garnet - no sulphides - 1 metre rock chip.
- BC 2035 Diopside hornfels - weakly altered - no sulphides - 1 metre rock chip.
- BC 2036 Marble (at marble front?) - 2-3% garnet - no sulphides - 0.5 metre rock chip.
- BC 2037 Skarn - 40% diopside, 30% garnet - no sulphides - 1 metre rock chip.
- BC 2038 Diorite dyke - 1-3% fine grained pyrite - cutting through Quatsino limestone - 1 metre rock chip.

difficult due to steep terrain, poor access and limited water for drilling, but may prove to be the most effective means of further evaluating the property.

APPENDIX 1

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Sample preparation for soil samples: The field material is dried at approximately 35 degrees C for about 36 hours. Excessively wet samples require an extended drying period. The dried material is then screened through an 80 mesh sieve. The -80 mesh material is then homogenized and stored in a labelled kraft envelope.

Sample preparation for rock samples: The field material is first crushed in a jaw crusher. Approximately 350 grams of the crushed material is then pulverized to 80% -200 mesh in a disk pulverizer. The -200 mesh material is then homogenized and stored in a labelled kraft envelope.

Procedure for geochemical gold analysis: A prepared sample of 30 grams is mixed with a flux which is composed mainly of lead oxide. The proportions of the flux components are adjusted depending on the nature of the sample. Silver is added to help collect the gold. The samples are fused at 1950 degrees F. until a clear melt is obtained. The lead button which contains the precious metals is then separated from the slag. Heating in the cupellation furnace separates the lead from the precious metals. The precious metal beads that remain are transferred to test tubes and dissolved with aqua-regia and the resulting solution is analyzed using Atomic Absorption or Plasma Emission Spectrograph by comparing the readings of these solutions with readings of standard solutions. To prevent contamination, test tubes and cupels are used only once so there is no possibility of cross contamination. The fusion crucibles are cleared before re-use by discarding any which contained high samples. During the analysis, a blank solution is run between each sample to ensure that there is no carry-over.

Determination of elements by Plasma Emission Spectroscopy: The samples of 0.5 grams in weight are digested in test tubes with concentrated nitric and hydrochloric acids (Lefort Aqua-Regia Digestion). These tubes are heated in hot water baths for two and one-half hours. The sample is then diluted and mixed. This solution is analyzed on the Plasma Emission Spectrograph by using the appropriate emission line for each element. The emissions are compared to standard solutions to determine the amount of each element that is present. To prevent contamination, the test tubes are used for Plasma analysis only and are discarded after use. A solution of de-ionized water or dilute acid is run between samples to prevent contamination during analysis.

APPENDIX 2

Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094- 101001	Soil	<5	0.2	1.63	34	<2	8	0.28	0.5	30	19	14	>5.00	<3	0.01	<2
509094- 101002	Soil	5	0.2	3.98	60	<2	<2	0.68	1.0	26	74	36	>5.00	<3	0.02	<2
509094- 101003	Soil	10	0.2	>5.00	17	<2	<2	1.54	0.8	20	46	24	>5.00	<3	0.05	2
509094- 101004	Soil	75	0.1	2.75	29	<2	<2	0.52	0.2	23	25	44	>5.00	3	0.03	<2
509094- 101005	Soil	<5	0.4	1.21	22	<2	4	1.20	<0.1	14	22	26	>5.00	<3	0.02	<2
509094- 101006	Soil	30	0.2	1.39	42	<2	4	1.13	<0.1	20	41	27	>5.00	<3	0.01	<2
509094- 101007	Soil	20	0.3	2.05	59	<2	<2	1.72	0.2	26	55	69	>5.00	<3	0.02	<2
509094- 101008	Soil	50	1.3	1.93	44	<2	<2	1.35	0.1	21	50	79	>5.00	<3	0.02	<2
509094- 101009	Soil	<5	0.6	3.37	14	7	<2	0.82	0.4	37	32	180	>5.00	<3	0.04	7
509094- 101010	Soil	5	0.4	3.12	33	8	<2	1.14	0.6	28	54	215	>5.00	<3	0.03	3
509094- 101011	Soil	70	1.8	3.22	591	59	<2	3.21	1.8	87	54	1055	>5.00	<3	0.03	6
509094- 101012	Soil	<5	0.6	2.65	29	12	<2	3.31	0.6	41	50	340	>5.00	<3	0.03	6
509094- 101013	Soil	<5	0.6	1.73	15	5	<2	0.91	<0.1	45	20	368	4.94	<3	0.06	3
509094- 101014	Soil	20	0.1	1.44	7	<2	<2	0.50	<0.1	8	15	13	2.61	<3	0.01	<2
509094- 101015	Soil	5	0.2	2.31	9	3	<2	0.41	<0.1	10	16	35	4.39	<3	0.02	<2
509094- 101016	Soil	30	0.2	4.95	28	<2	<2	0.62	<0.1	38	28	512	>5.00	<3	0.02	<2
509094- 101017	Soil	<5	0.2	2.04	11	10	<2	0.50	<0.1	16	27	22	>5.00	<3	0.02	<2
509094- 101018	Soil	45	0.3	4.82	11	24	<2	0.41	<0.1	28	41	176	>5.00	<3	0.07	3
509094- 101019	Soil	<5	0.3	0.96	<5	12	8	1.31	<0.1	9	134	18	2.16	<3	<0.01	2
509094- 101020	Soil	<5	0.6	2.66	11	<2	9	0.66	<0.1	19	81	62	>5.00	<3	0.02	<2
509094- 101021	Soil	<5	0.7	3.59	44	<2	<2	0.75	<0.1	22	158	30	>5.00	<3	0.03	<2
509094- 101022	Soil	<5	0.8	3.49	24	<2	<2	0.80	0.3	23	66	41	>5.00	<3	0.04	2
509094- 101023	Soil	80	0.3	3.08	43	19	<2	0.86	0.2	35	66	104	>5.00	<3	0.02	<2
509094- 101024	Soil	20	0.4	2.45	37	<2	<2	0.99	<0.1	23	49	72	>5.00	<3	0.03	2
509094- 101025	Soil	25	0.4	4.52	47	<2	3	0.99	0.1	26	69	87	>5.00	<3	0.04	<2
509094- 101026	Soil	20	0.4	2.73	38	<2	8	0.85	<0.1	24	48	52	>5.00	<3	0.02	<2
509094- 101027	Soil	<5	0.3	4.30	24	<2	<2	1.41	0.4	24	57	23	>5.00	<3	0.02	<2
509094- 101028	Soil	<5	0.3	>5.00	20	3	<2	0.97	1.4	26	132	9	>5.00	<3	0.03	<2
509094- 101029	Soil	10	0.3	4.43	55	<2	<2	0.90	0.6	26	78	38	>5.00	<3	0.02	2
509094- 102001	Soil	<5	0.4	2.98	<5	<2	3	0.63	<0.1	22	16	10	>5.00	<3	0.04	3
509094- 102002	Soil	<5	0.1	1.53	6	<2	12	1.11	<0.1	17	6	6	3.46	<3	0.03	<2
509094- 102003	Soil	75	0.3	1.11	6	<2	2	1.02	<0.1	12	19	1	2.93	<3	0.04	<2
509094- 102004	Soil	<5	2.9	0.30	<5	<2	<2	0.39	0.1	1	6	4	0.26	<3	0.05	<2
509094- 102005	Soil	<5	0.2	1.73	<5	<2	5	1.86	<0.1	13	13	<1	2.07	<3	0.03	2
509094- 102006	Soil	<5	0.2	0.91	<5	<2	8	1.09	<0.1	9	11	<1	1.03	<3	0.04	2
509094- 102007	Soil	<5	0.2	1.15	<5	<2	7	1.09	<0.1	13	12	<1	2.36	<3	0.03	2
509094- 102008	Soil	<5	0.2	3.25	<5	<2	<2	0.63	0.1	90	18	11	>5.00	<3	0.04	4
509094- 102009	Soil	<5	0.7	4.22	<5	<2	<2	0.22	0.3	84	15	15	>5.00	<3	0.05	4
509094- 102010	Soil	<5	0.2	1.49	<5	<2	12	1.50	<0.1	16	9	<1	2.44	<3	0.03	<2
Minimum Detection		5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094- 101001	0.31	164	25	<0.01	29	0.03	12	<5	4	13	<10	0.76	514	<5	71	9
509094- 101002	1.66	298	14	<0.01	30	0.02	12	<5	6	21	<10	0.31	254	<5	185	8
509094- 101003	1.28	1087	15	<0.01	28	0.04	10	<5	8	51	<10	0.17	171	<5	181	9
509094- 101004	1.53	230	5	<0.01	17	0.02	10	<5	5	26	<10	0.49	284	<5	79	5
509094- 101005	0.23	268	5	<0.01	10	0.05	8	<5	2	19	<10	0.33	150	<5	45	3
509094- 101006	0.16	303	3	<0.01	15	0.06	7	<5	3	23	<10	0.48	237	<5	42	3
509094- 101007	0.59	708	2	<0.01	22	0.11	7	<5	6	33	<10	0.21	116	<5	188	3
509094- 101008	0.50	893	1	<0.01	19	0.15	7	<5	4	29	<10	0.18	114	<5	52	2
509094- 101009	1.91	4712	2	<0.01	23	0.15	10	<5	7	39	<10	0.08	69	<5	143	<1
509094- 101010	1.86	1300	3	<0.01	36	0.11	9	<5	8	53	<10	0.14	89	<5	138	2
509094- 101011	1.04	5148	4	<0.01	47	0.19	7	<5	7	33	<10	0.06	69	<5	200	<1
509094- 101012	0.84	4369	3	<0.01	34	0.18	15	<5	4	22	<10	0.05	52	<5	150	<1
509094- 101013	1.58	682	2	<0.01	25	0.07	9	<5	9	38	<10	0.16	88	<5	54	5
509094- 101014	0.49	213	1	<0.01	7	0.02	6	<5	4	44	<10	0.20	118	<5	22	3
509094- 101015	0.79	271	1	<0.01	14	0.02	6	<5	5	34	<10	0.14	126	<5	26	4
509094- 101016	1.31	498	3	<0.01	29	0.05	7	<5	8	42	<10	0.28	128	<5	74	8
509094- 101017	0.53	342	2	<0.01	8	0.04	6	<5	4	28	<10	0.44	236	<5	51	5
509094- 101018	1.16	431	5	<0.01	23	0.03	8	<5	7	30	<10	0.25	128	<5	63	7
509094- 101019	0.28	367	1	<0.01	6	0.07	6	<5	3	12	<10	0.37	180	<5	15	7
509094- 101020	0.70	434	2	<0.01	20	0.04	7	<5	6	19	<10	0.48	212	<5	46	7
509094- 101021	2.03	440	3	<0.01	84	0.08	5	<5	3	25	<10	0.27	186	<5	155	1
509094- 101022	1.16	585	2	0.01	28	0.04	6	<5	7	36	<10	0.33	165	<5	117	6
509094- 101023	1.19	684	2	<0.01	47	0.05	6	<5	7	48	<10	0.23	107	<5	116	4
509094- 101024	0.83	534	1	<0.01	22	0.05	6	<5	6	49	<10	0.28	132	<5	46	5
509094- 101025	0.42	435	3	<0.01	19	0.11	5	<5	7	35	<10	0.57	222	<5	52	12
509094- 101026	0.33	323	2	<0.01	15	0.06	6	<5	5	23	<10	0.60	239	<5	37	9
509094- 101027	0.88	464	8	<0.01	23	0.05	7	<5	6	23	<10	0.42	188	<5	128	15
509094- 101028	2.45	595	12	<0.01	46	0.03	9	<5	7	29	<10	0.25	268	<5	178	9
509094- 101029	0.97	535	8	<0.01	36	0.05	6	<5	7	22	<10	0.36	202	<5	191	7
509094- 102001	1.15	337	2	<0.01	10	0.04	10	<5	4	21	<10	0.50	193	<5	57	14
509094- 102002	0.28	286	2	<0.01	4	0.03	11	<5	3	34	<10	0.60	260	<5	30	6
509094- 102003	0.39	244	1	<0.01	5	0.04	8	<5	3	32	<10	0.30	135	<5	35	4
509094- 102004	0.07	48	<1	0.01	<1	0.05	7	<5	<1	21	<10	0.03	11	<5	47	<1
509094- 102005	0.27	320	1	<0.01	3	0.03	10	<5	4	36	<10	0.51	138	<5	22	3
509094- 102006	0.13	234	<1	<0.01	1	0.02	10	<5	2	30	<10	0.42	129	<5	14	3
509094- 102007	0.22	398	1	<0.01	3	0.03	7	<5	3	30	<10	0.40	150	<5	21	3
509094- 102008	0.42	3083	1	<0.01	7	0.07	8	<5	2	21	<10	0.19	110	<5	39	1
509094- 102009	0.20	2859	2	<0.01	7	0.11	8	<5	1	12	<10	0.10	135	<5	46	<1
509094- 102010	0.24	1300	1	<0.01	4	0.04	7	<5	4	38	<10	0.59	290	<5	22	5
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094- 102011	Soil	25	0.2	1.68	7	<2	<2	0.64	<0.1	17	8	4	3.62	<3	0.07	3
509094- 102012	Soil	60	0.2	1.28	11	<2	5	0.56	<0.1	11	3	<1	4.41	<3	0.02	<2
509094- 102013	Soil	<5	0.3	2.60	10	12	<2	0.23	0.5	347	12	<1	>5.00	5	0.07	2
509094- 102014	Soil	130	<0.1	1.97	8	<2	5	0.39	<0.1	15	13	12	3.76	<3	0.05	2
509094- 102015	Soil	20	0.3	4.47	10	<2	<2	0.35	0.6	16	21	20	>5.00	4	0.05	3
509094- 102016	Soil	5	0.4	4.45	<5	<2	<2	0.21	0.1	37	22	12	>5.00	<3	0.08	5
509094- 102017	Soil	20	0.2	1.71	<5	<2	<2	0.34	<0.1	14	17	<1	4.30	<3	0.07	3
509094- 102018	Soil	40	<0.1	2.29	<5	<2	5	0.39	<0.1	12	43	<1	>5.00	<3	0.06	2
509094- 102019	Soil	15	<0.1	1.73	<5	7	5	0.39	<0.1	9	11	<1	2.27	<3	0.07	3
509094- 102020	Soil	930	0.1	0.77	<5	<2	5	0.28	<0.1	7	9	<1	0.84	<3	0.04	2
509094- 102021	Soil	<5	0.4	>5.00	<5	<2	<2	1.84	4.3	25	127	<1	4.60	<3	0.04	7
509094- 102022	Soil	<5	0.4	2.76	115	<2	<2	0.63	0.5	17	157	15	>5.00	<3	0.03	3
509094- 102023	Soil	70	0.3	2.06	306	<2	<2	0.67	0.2	16	116	29	>5.00	<3	0.02	3
509094- 102024	Soil	<5	0.2	>5.00	22	86	<2	0.95	0.3	117	144	42	>5.00	<3	0.03	4
509094- 102025	Soil	<5	0.2	1.36	78	<2	13	0.79	<0.1	27	155	<1	3.92	<3	0.02	<2
509094- 102026	Soil	<5	0.3	4.60	24	<2	6	0.33	<0.1	19	192	51	>5.00	<3	0.03	<2
509094- 102027	Soil	<5	0.2	2.82	55	<2	<2	1.17	<0.1	27	238	22	>5.00	<3	0.01	<2
509094- 102028	Soil	10	0.2	2.83	27	38	<2	0.44	<0.1	131	192	2	>5.00	<3	0.05	2
509094- 102029	Soil	5	0.1	1.05	132	<2	6	0.37	<0.1	36	120	<1	3.89	<3	0.05	2
509094- 102030	Soil	10	0.2	0.55	9	<2	11	0.57	<0.1	13	10	<1	1.72	<3	0.02	<2
509094- 102031	Soil	80	0.1	1.31	<5	3	4	0.32	<0.1	15	5	<1	1.80	<3	0.04	4
509094- 102032	Soil	<5	<0.1	1.79	<5	<2	14	0.47	<0.1	13	10	<1	3.71	<3	0.06	<2
509094- 102033	Soil	5	0.2	1.68	<5	<2	10	0.40	<0.1	13	15	<1	4.68	<3	0.06	<2
509094- 102034	Soil	55	0.3	2.53	<5	2	<2	0.29	<0.1	44	23	18	>5.00	<3	0.04	2
509094- 102035	Soil	<5	0.1	3.93	<5	<2	<2	0.26	<0.1	49	25	11	>5.00	<3	0.05	3
509094- 102036	Soil	175	0.1	1.61	<5	<2	11	0.72	<0.1	12	12	2	>5.00	<3	0.02	<2
509094- 102037	Soil	270	0.3	4.07	<5	<2	<2	0.55	<0.1	67	17	20	>5.00	<3	0.09	3
509094- 102038	Soil	10	0.3	2.63	10	<2	14	0.78	<0.1	24	26	34	>5.00	<3	0.07	<2
509094- 102039	Soil	10	0.3	3.74	5	<2	11	0.50	0.2	29	17	23	>5.00	<3	0.09	<2
509094- 102041	Soil	<5	0.1	1.57	6	<2	27	0.76	<0.1	27	7	57	>5.00	<3	0.01	<2
509094- 102042	Soil	510	0.1	0.89	<5	2	4	0.27	<0.1	3	3	<1	0.66	<3	0.02	<2
509094- 102043	Soil	35	0.1	0.62	<5	<2	3	0.59	<0.1	4	3	<1	1.09	<3	0.03	<2
509094- 102044	Soil	30	0.1	1.96	11	<2	<2	0.78	<0.1	18	12	<1	3.37	<3	0.11	>2
509094- 102046	Soil	<5	0.4	3.46	9	28	<2	0.62	<0.1	16	149	3	>5.00	<3	0.04	>2
509094- 102047	Soil	<5	<0.1	1.28	96	<2	11	0.98	<0.1	19	67	14	4.31	<3	0.03	3
509094- 102048	Soil	<5	0.2	3.17	124	23	<2	0.78	<0.1	889	173	43	>5.00	<3	0.03	4
509094- 102049	Soil	<5	0.6	3.79	83	<2	<2	0.68	0.1	164	99	55	>5.00	<3	0.03	2
509094- 102050	Soil	<5	0.2	>5.00	18	<2	<2	0.54	<0.1	14	106	2	>5.00	<3	0.03	3
509094- 102051	Soil	15	0.2	4.76	118	39	<2	0.59	2.2	24	128	18	>5.00	4	0.03	2

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094- 102011	0.60	723	1	<0.01	9	0.08	7	<5	3	34	<10	0.14	74	<5	56	1
509094- 102012	0.09	220	1	<0.01	4	0.06	7	<5	3	30	<10	0.47	235	<5	19	1
509094- 102013	0.17	5268	5	<0.01	12	0.14	15	<5	3	19	<10	0.57	406	<5	54	1
509094- 102014	0.62	400	2	<0.01	8	0.09	10	<5	3	27	<10	0.40	209	<5	44	2
509094- 102015	0.63	619	2	<0.01	12	0.09	5	<5	5	21	<10	0.25	137	<5	50	3
509094- 102016	0.66	1056	4	<0.01	11	0.08	9	<5	3	16	<10	0.16	156	<5	58	1
509094- 102017	0.45	675	2	<0.01	8	0.06	8	<5	3	31	<10	0.32	168	<5	32	1
509094- 102018	0.72	315	1	<0.01	13	0.06	7	<5	6	34	<10	0.36	235	<5	42	2
509094- 102019	0.28	119	<1	0.01	5	0.03	9	<5	3	37	<10	0.37	141	<5	21	2
509094- 102020	0.13	70	<1	<0.01	2	0.02	8	<5	2	31	<10	0.31	121	<5	13	2
509094- 102021	1.90	470	2	<0.01	33	0.07	9	<5	10	63	<10	0.10	107	<5	225	8
509094- 102022	0.59	322	3	<0.01	21	0.14	7	<5	4	12	<10	0.40	280	<5	113	8
509094- 102023	0.36	471	3	<0.01	19	0.11	10	<5	3	13	<10	0.39	258	<5	177	2
509094- 102024	0.70	>10000	3	<0.01	64	0.23	8	<5	3	23	<10	0.05	126	<5	160	<1
509094- 102025	0.76	675	1	<0.01	73	0.04	6	5	3	30	<10	0.58	188	<5	31	3
509094- 102026	1.16	275	4	<0.01	32	0.06	4	<5	6	12	<10	0.47	315	<5	45	10
509094- 102027	0.76	784	3	<0.01	36	0.07	5	<5	6	21	<10	0.57	360	<5	41	3
509094- 102028	0.67	>10000	2	<0.01	51	0.07	8	<5	4	30	<10	0.32	209	<5	65	<1
509094- 102029	0.48	2808	2	0.01	33	0.04	9	<5	3	25	<10	0.36	275	<5	19	1
509094- 102030	0.05	463	1	<0.01	5	0.03	6	<5	1	24	<10	0.45	140	<5	8	1
509094- 102031	0.13	949	1	<0.01	3	0.04	12	<5	2	30	<10	0.32	141	<5	18	<1
509094- 102032	0.53	217	1	<0.01	5	0.05	8	<5	4	27	<10	0.55	320	<5	28	2
509094- 102033	0.67	287	2	<0.01	7	0.06	8	<5	3	37	<10	0.49	267	<5	37	2
509094- 102034	0.28	>10000	2	<0.01	8	0.07	6	<5	3	24	<10	0.22	109	<5	33	<1
509094- 102035	1.02	4434	2	<0.01	10	0.06	5	<5	6	22	<10	0.20	132	<5	42	<1
509094- 102036	0.41	587	2	<0.01	6	0.04	8	<5	3	59	<10	0.51	242	<5	20	3
509094- 102037	0.83	5762	3	<0.01	12	0.18	31	<5	6	46	<10	0.55	249	<5	65	6
509094- 102038	0.46	324	3	0.01	13	0.08	35	<5	4	36	<10	0.81	391	<5	37	5
509094- 102039	0.54	686	3	<0.01	15	0.11	27	<5	5	27	<10	>1.00	469	<5	54	7
509094- 102041	0.22	203	5	<0.01	8	0.04	6	<5	4	9	<10	>1.00	445	<5	13	8
509094- 102042	0.04	40	<1	<0.01	1	0.02	8	<5	1	30	<10	0.14	94	<5	9	1
509094- 102043	0.07	128	<1	<0.01	1	0.02	6	<5	2	32	<10	0.20	89	<5	10	1
509094- 102044	1.08	580	2	0.10	11	0.06	6	<5	3	56	<10	0.29	111	<5	34	1
509094- 102046	0.71	514	2	<0.01	34	0.06	6	<5	9	32	<10	0.27	152	<5	78	5
509094- 102047	0.15	288	1	<0.01	31	0.05	7	5	2	29	<10	0.44	261	<5	25	2
509094- 102048	0.72	>10000	5	<0.01	38	0.12	8	<5	4	23	<10	0.29	263	<5	63	<1
509094- 102049	0.78	2748	4	<0.01	37	0.13	7	<5	4	15	<10	0.21	147	>5	128	1
509094- 102050	0.13	74	1	<0.01	13	0.13	8	<5	11	24	<10	0.21	127	>5	62	11
509094- 102051	2.28	421	30	<0.01	81	0.04	7	6	6	24	<10	0.19	231	>5	163	4
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094- 102052	Soil	<5	0.1	>5.00	<5	<2	<2	1.68	1.1	26	57	16	4.83	<3	0.05	2
509094- 102053	Soil	5	0.1	>5.00	29	<2	<2	0.60	1.8	34	76	53	>5.00	<3	0.03	3
509094- 102054	Soil	<5	0.1	3.23	71	<2	<2	0.92	0.7	22	66	21	>5.00	3	0.02	<2

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094- 102052	4.65	1584	8	0.01	44	0.07	<2	<5	6	80	<10	0.11	175	<5	159	5
509094- 102053	1.70	1043	7	<0.01	40	0.06	10	5	13	27	<10	0.34	230	<5	309	17
509094- 102054	1.11	613	10	<0.01	24	0.06	12	<5	4	23	<10	0.34	254	<5	169	5

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 101030	Soil	<5	0.1	2.50	68	50	<2	0.12	0.7	14	27	25	>5.00	<3	0.03	4
509094 - 101031	Soil	<5	0.2	1.50	25	<2	7	0.38	0.2	11	14	10	>5.00	<3	0.03	3
509094 - 101032	Soil	5	0.1	4.08	51	<2	<2	0.06	0.5	13	27	31	>5.00	<3	0.02	6
509094 - 101033	Soil	<5	<0.1	3.75	55	<2	<2	0.04	0.2	12	30	27	>5.00	<3	0.02	5
509094 - 101034	Soil	10	<0.1	3.46	52	<2	<2	0.08	0.5	13	31	36	>5.00	<3	0.03	6
509094 - 101035	Soil	5	0.1	3.55	55	4	<2	0.08	0.5	13	28	30	>5.00	<3	0.03	7
509094 - 101036	Soil	10	<0.1	3.68	42	<2	<2	0.08	0.4	12	37	36	4.92	<3	0.02	7
509094 - 101037	Soil	<5	<0.1	4.82	55	<2	9	0.04	0.4	12	44	35	>5.00	<3	0.04	5
509094 - 101038	Soil	5	0.1	4.40	65	6	<2	0.06	0.3	14	30	21	>5.00	<3	0.02	11
509094 - 101039	Soil	10	0.1	4.14	51	<2	<2	0.04	0.6	18	30	39	>5.00	<3	0.02	9
509094 - 101040	Soil	<5	<0.1	4.06	36	<2	<2	0.10	0.3	14	16	32	>5.00	<3	0.03	8
509094 - 101041	Soil	10	<0.1	>5.00	69	<2	<2	0.08	<0.1	22	25	39	>5.00	<3	0.04	13
509094 - 101042	Soil	5	<0.1	3.49	14	<2	<2	0.07	<0.1	7	28	13	>5.00	<3	0.03	4
509094 - 101043	Soil	<5	<0.1	5.00	11	2	<2	0.09	<0.1	13	37	10	>5.00	<3	0.03	4
509094 - 101044	Soil	5	<0.1	2.30	12	<2	5	0.06	<0.1	12	45	5	>5.00	<3	0.03	3
509094 - 101045	Soil	5	<0.1	3.72	14	<2	<2	0.11	<0.1	16	48	9	>5.00	<3	0.04	4
509094 - 101046	Soil	5	<0.1	3.54	24	<2	<2	0.03	0.1	9	13	18	>5.00	<3	0.03	3
509094 - 101047	Soil	5	0.2	>5.00	49	11	<2	0.15	0.7	24	21	40	>5.00	<3	0.05	27
509094 - 101048	Soil	<5	0.1	3.59	24	<2	<2	0.03	<0.1	13	10	13	>5.00	<3	0.03	8
509094 - 101049	Soil	15	<0.1	>5.00	104	<2	<2	0.15	0.5	20	15	41	>5.00	<3	0.04	12
509094 - 101050	Soil	5	<0.1	3.77	63	<2	<2	0.05	0.2	9	12	20	>5.00	<3	0.03	5
509094 - 101051	Soil	5	<0.1	3.04	42	<2	<2	0.04	<0.1	7	14	7	>5.00	<3	0.02	5
509094 - 101052	Soil	<5	<0.1	2.47	150	<2	<2	0.08	0.4	9	30	15	>5.00	<3	0.03	3
509094 - 101053	Soil	5	<0.1	3.90	147	<2	<2	0.06	0.3	15	35	32	>5.00	<3	0.02	5
509094 - 101054	Soil	<5	<0.1	4.25	73	<2	<2	0.07	0.2	14	37	36	>5.00	<3	0.03	6
509094 - 101055	Soil	5	<0.1	>5.00	46	<2	<2	0.40	0.4	19	41	31	>5.00	<3	0.03	6
509094 - 101056	Soil	5	0.2	3.87	47	<2	<2	0.08	0.4	11	31	19	>5.00	<3	0.02	3
509094 - 101057	Soil	<5	<0.1	4.35	69	<2	<2	0.03	0.3	10	34	17	>5.00	<3	0.02	3
509094 - 101058	Soil	<5	0.1	3.62	61	<2	8	0.03	0.2	10	64	23	>5.00	<3	0.04	4
509094 - 101059	Soil	5	0.2	2.21	82	<2	<2	0.86	4.5	26	21	47	>5.00	<3	0.04	9
509094 - 101060	Soil	10	0.1	3.15	65	<2	<2	0.14	0.6	12	12	22	4.95	<3	0.04	8
509094 - 101061	Soil	<5	0.1	2.72	41	<2	<2	0.10	0.2	10	14	29	>5.00	<3	0.03	5
509094 - 101062	Soil	<5	0.1	4.53	91	28	<2	0.14	0.6	25	19	70	>5.00	<3	0.04	14
509094 - 101063	Soil	<5	<0.1	2.08	78	<2	<2	0.05	0.1	7	14	16	>5.00	<3	0.02	3
509094 - 101064	Soil	<5	<0.1	3.76	385	<2	<2	0.72	1.2	14	21	18	>5.00	<3	0.03	18
509094 - 101065	Soil	<5	<0.1	3.57	411	<2	<2	0.50	1.5	19	23	27	>5.00	<3	0.03	12
509094 - 101066	Soil	5	<0.1	3.53	502	<2	<2	0.58	5.2	20	21	44	>5.00	<3	0.05	18
509094 - 101067	Soil	<5	<0.1	2.83	305	<2	<2	0.22	1.9	15	16	18	>5.00	<3	0.02	9
509094 - 101068	Soil	5	<0.1	>5.00	31	<2	2	0.04	0.3	15	25	20	>5.00	<3	0.02	5

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 101030	0.70	765	5	<0.01	15	0.08	10	<5	3	16	<10	0.02	69	<5	122	<1
509094 - 101031	0.41	484	3	<0.01	8	0.08	8	5	2	19	<10	0.23	61	<5	41	2
509094 - 101032	0.59	1086	5	<0.01	15	0.08	8	<5	6	10	<10	0.05	65	<5	116	<1
509094 - 101033	0.73	922	5	<0.01	17	0.06	7	<5	6	7	<10	0.04	82	<5	117	<1
509094 - 101034	0.79	807	4	<0.01	18	0.11	7	<5	7	9	10	0.07	88	<5	126	<1
509094 - 101035	0.64	696	5	<0.01	17	0.08	7	<5	6	9	10	0.02	78	<5	121	<1
509094 - 101036	0.70	466	4	<0.01	19	0.05	9	<5	6	9	<10	0.09	79	<5	128	1
509094 - 101037	0.63	1032	4	<0.01	15	0.61	7	<5	8	9	10	0.11	104	<5	105	2
509094 - 101038	0.84	973	4	<0.01	16	0.08	4	<5	7	6	<10	0.01	87	<5	74	1
509094 - 101039	0.84	1323	3	<0.01	16	0.09	6	<5	6	5	<10	0.02	79	<5	150	1
509094 - 101040	0.54	1158	3	<0.01	9	0.10	5	<5	5	9	<10	0.03	83	<5	85	1
509094 - 101041	1.02	2141	3	<0.01	14	0.17	6	<5	15	4	10	0.02	111	<5	64	3
509094 - 101042	0.43	331	2	<0.01	10	0.07	3	<5	5	4	11	0.01	91	<5	34	1
509094 - 101043	0.67	389	2	<0.01	16	0.07	2	<5	4	5	<10	0.01	86	<5	41	1
509094 - 101044	0.71	452	2	<0.01	18	0.06	3	<5	4	4	13	0.19	139	<5	31	3
509094 - 101045	0.89	645	2	<0.01	17	0.06	3	<5	6	12	12	0.20	164	<5	52	5
509094 - 101046	0.41	478	3	<0.01	10	0.10	3	<5	3	4	<10	0.03	104	<5	61	<1
509094 - 101047	0.63	2524	4	<0.01	13	0.18	5	<5	11	9	<10	0.02	107	<5	112	1
509094 - 101048	0.20	1929	4	<0.01	7	0.13	4	<5	4	3	11	0.06	116	<5	43	<1
509094 - 101049	0.64	1861	2	<0.01	11	0.15	5	<5	6	8	<10	0.03	76	<5	114	1
509094 - 101050	0.25	790	3	<0.01	7	0.11	3	<5	3	3	<10	0.03	70	<5	64	1
509094 - 101051	0.21	482	4	<0.01	6	0.08	3	<5	3	4	<10	0.01	82	<5	44	1
509094 - 101052	0.51	527	4	<0.01	13	0.06	9	<5	3	9	<10	0.07	87	<5	68	1
509094 - 101053	0.71	771	5	<0.01	16	0.06	6	<5	7	5	12	0.05	110	<5	116	1
509094 - 101054	0.50	617	6	<0.01	14	0.06	7	<5	7	5	10	0.09	138	<5	82	1
509094 - 101055	0.63	569	5	<0.01	18	0.09	8	<5	8	16	10	0.14	141	<5	117	2
509094 - 101056	0.75	843	4	<0.01	13	0.07	15	<5	4	6	<10	0.06	86	<5	85	1
509094 - 101057	0.72	473	3	<0.01	13	0.04	9	<5	8	4	11	0.06	97	<5	83	3
509094 - 101058	0.98	366	3	<0.01	16	0.03	7	<5	7	6	13	0.15	142	<5	85	8
509094 - 101059	1.18	2337	6	<0.01	21	0.12	29	<5	6	31	<10	0.02	63	<5	395	<1
509094 - 101060	0.39	1985	3	<0.01	9	0.11	6	<5	2	8	<10	0.03	70	<5	84	<1
509094 - 101061	0.88	866	2	<0.01	11	0.05	5	<5	4	7	<10	0.03	68	<5	89	<1
509094 - 101062	1.07	2350	4	<0.01	19	0.17	8	<5	12	9	<10	0.04	65	<5	160	2
509094 - 101063	0.21	321	5	<0.01	9	0.07	5	<5	2	11	<10	0.05	82	<5	50	<1
509094 - 101064	0.49	4347	9	<0.01	9	0.14	6	<5	5	23	<10	0.03	68	<5	107	1
509094 - 101065	0.68	4630	8	<0.01	12	0.14	9	<5	4	19	<10	0.03	77	<5	120	<1
509094 - 101066	1.14	4429	7	<0.01	15	0.17	6	<5	7	21	<10	0.03	72	<5	302	2
509094 - 101067	0.32	3483	13	<0.01	8	0.08	8	<5	3	9	<10	0.02	90	<5	266	<1
509094 - 101068	0.49	873	4	<0.01	11	0.12	6	<5	10	4	13	0.08	86	<5	80	5
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 101069	Soil	<5	<0.1	1.85	31	24	<2	0.20	<0.1	7	14	10	>5.00	<3	0.04	7
509094 - 101070	Soil	5	<0.1	4.99	49	<2	<2	0.11	0.3	17	26	33	>5.00	<3	0.03	14
509094 - 101071	Soil	<5	0.1	>5.00	42	<2	<2	0.14	0.2	14	26	23	>5.00	<3	0.02	32
509094 - 101072	Soil	<5	<0.1	>5.00	106	<2	<2	0.04	0.2	17	28	29	>5.00	<3	0.04	5
509094 - 101073	Soil	<5	<0.1	2.27	23	<2	<2	0.75	0.2	14	11	11	>5.00	<3	0.05	12
509094 - 101074	Soil	<5	<0.1	>5.00	28	<2	<2	0.07	0.3	10	13	11	>5.00	<3	0.02	10
509094 - 101075	Soil	5	0.1	3.44	78	<2	<2	0.25	0.5	11	11	19	>5.00	<3	0.03	9
509094 - 101076	Soil	<5	0.1	3.51	33	45	<2	0.63	1.6	20	15	31	>5.00	<3	0.02	13
509094 - 101077	Soil	<5	0.1	>5.00	32	<2	<2	0.06	0.2	12	22	19	>5.00	<3	0.02	6
509094 - 101078	Soil	15	0.1	4.06	35	<2	<2	0.25	0.4	11	20	25	>5.00	<3	0.03	8
509094 - 101079	Soil	<5	<0.1	3.65	26	<2	<2	0.27	0.5	14	28	34	4.95	<3	0.04	10
509094 - 101080	Soil	<5	0.2	1.79	22	<2	<2	0.04	<0.1	6	14	7	>5.00	<3	0.02	4
509094 - 101081	Soil	<5	<0.1	3.14	41	<2	<2	0.24	1.4	19	23	39	>5.00	<3	0.03	14
509094 - 101082	Soil	5	<0.1	4.61	39	<2	<2	0.11	1.3	15	20	23	>5.00	<3	0.01	3
509094 - 101083	Soil	<5	<0.1	3.15	37	<2	<2	0.70	1.4	17	24	25	4.81	<3	0.03	14
509094 - 101084	Soil	<5	<0.1	2.72	103	<2	<2	0.73	0.7	6	14	7	>5.00	<3	0.02	4
509094 - 101085	Soil	<5	<0.1	4.46	89	<2	<2	0.03	0.5	10	16	17	>5.00	<3	0.03	4
509094 - 101086	Soil	5	0.1	4.73	39	<2	<2	0.05	0.6	11	27	18	>5.00	<3	0.02	5
509094 - 101087	Soil	<5	0.1	3.16	37	<2	<2	0.04	0.5	6	17	17	>5.00	<3	0.02	4
509094 - 101088	Soil	5	0.1	2.70	34	<2	<2	0.03	0.2	7	20	17	>5.00	<3	0.01	2
509094 - 101089	Soil	5	<0.1	3.48	24	<2	3	0.06	0.3	13	15	12	>5.00	<3	0.04	8
509094 - 101090	Soil	5	<0.1	4.71	23	<2	<2	0.03	<0.1	12	12	21	>5.00	<3	0.03	6
509094 - 101091	Soil	15	0.2	3.24	14	<2	<2	0.02	0.2	8	8	11	>5.00	<3	0.03	4
509094 - 101092	Soil	5	<0.1	4.10	29	14	<2	0.06	0.2	20	27	28	>5.00	<3	0.04	10
509094 - 101093	Soil	5	0.1	3.60	15	13	<2	0.10	0.2	14	14	21	>5.00	<3	0.05	10
509094 - 101094	Soil	<5	<0.1	4.23	16	<2	<2	0.03	0.2	12	12	14	>5.00	<3	0.04	9
509094 - 101095	Soil	10	<0.1	2.89	19	<2	<2	0.02	0.1	4	15	5	>5.00	<3	0.02	3
509094 - 101096	Soil	5	0.1	>5.00	19	<2	<2	0.04	0.1	13	24	16	>5.00	<3	0.01	7
509094 - 101097	Soil	15	<0.1	2.36	20	<2	<2	0.02	0.1	7	19	6	>5.00	<3	0.02	4
509094 - 101098	Soil	10	<0.1	4.01	33	<2	<2	0.05	0.3	12	18	26	>5.00	<3	0.02	2
509094 - 101099	Soil	<5	<0.1	1.94	18	<2	5	0.02	0.2	6	6	10	>5.00	<3	0.03	3
509094 - 101100	Soil	5	<0.1	2.77	26	<2	<2	0.06	0.3	12	14	18	>5.00	<3	0.03	2
509094 - 101101	Soil	<5	<0.1	2.12	51	<2	<2	0.11	0.8	22	31	21	>5.00	<3	0.03	4
509094 - 101102	Soil	10	<0.1	2.49	67	5	<2	0.33	0.6	20	27	15	>5.00	<3	0.04	8
509094 - 101103	Soil	5	<0.1	2.73	20	<2	<2	0.04	0.2	9	22	15	4.94	<3	0.03	5
509094 - 101104	Soil	30	<0.1	1.77	19	4	<2	0.08	<0.1	5	16	8	>5.00	<3	0.02	2
509094 - 101105	Soil	<5	<0.1	3.39	23	3	<2	0.04	0.2	10	28	15	>5.00	<3	0.03	8
509094 - 101106	Soil	25	<0.1	1.22	20	<2	<2	0.08	<0.1	5	11	11	4.23	<3	0.02	>2
509094 - 101107	Soil	<5	<0.1	1.25	18	<2	<2	0.08	<0.1	5	10	11	4.24	<3	0.01	>2

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 101069	0.33	540	3	<0.01	7	0.05	5	<5	3	8	<10	0.01	119	<5	25	<1
509094 - 101070	0.52	1127	5	<0.01	10	0.11	5	<5	14	5	12	0.01	107	<5	68	3
509094 - 101071	0.41	1412	5	<0.01	10	0.13	5	<5	14	5	<10	0.01	81	<5	69	2
509094 - 101072	0.57	981	3	<0.01	13	0.13	4	<5	9	3	12	0.02	105	<5	88	3
509094 - 101073	0.32	971	4	<0.01	8	0.07	6	<5	3	20	<10	0.05	114	<5	45	<1
509094 - 101074	0.34	497	5	<0.01	8	0.08	4	<5	6	5	12	0.04	76	<5	50	3
509094 - 101075	0.27	486	6	<0.01	8	0.08	5	<5	3	9	<10	0.02	103	<5	78	<1
509094 - 101076	0.37	5059	11	<0.01	10	0.13	6	<5	3	22	<10	0.02	69	<5	104	<1
509094 - 101077	0.54	595	3	<0.01	11	0.07	5	<5	8	4	10	0.08	95	<5	78	4
509094 - 101078	0.52	790	4	<0.01	13	0.09	6	<5	5	10	<10	0.07	73	<5	79	1
509094 - 101079	0.89	813	6	<0.01	15	0.08	6	<5	5	31	<10	0.06	86	<5	105	1
509094 - 101080	0.27	270	4	<0.01	7	0.06	5	<5	2	5	<10	0.03	100	<5	30	<1
509094 - 101081	1.02	2491	3	<0.01	17	0.14	7	<5	5	14	<10	0.04	72	<5	148	<1
509094 - 101082	0.65	687	6	<0.01	17	0.08	9	<5	5	9	<10	0.03	72	<5	127	2
509094 - 101083	0.78	4000	8	<0.01	15	0.13	6	<5	4	24	<10	0.03	73	<5	125	<1
509094 - 101084	0.34	363	15	<0.01	9	0.06	5	<5	3	22	<10	0.01	75	<5	126	<1
509094 - 101085	0.41	468	5	<0.01	8	0.07	4	<5	4	5	<10	0.02	77	<5	72	2
509094 - 101086	0.51	359	4	<0.01	13	0.07	7	<5	7	5	<10	0.06	113	<5	81	2
509094 - 101087	0.34	292	4	<0.01	8	0.06	3	<5	3	4	<10	0.03	74	<5	52	1
509094 - 101088	0.44	322	3	<0.01	9	0.04	6	<5	3	4	<10	0.06	117	<5	44	<1
509094 - 101089	0.66	656	5	<0.01	10	0.06	3	<5	5	5	<10	0.02	66	<5	58	1
509094 - 101090	0.72	642	3	<0.01	9	0.07	4	<5	8	3	10	0.03	74	<5	63	4
509094 - 101091	0.59	636	2	<0.01	7	0.08	2	<5	3	3	<10	0.01	54	<5	48	<1
509094 - 101092	1.09	2539	7	<0.01	17	0.09	4	<5	9	8	<10	0.03	80	<5	101	<1
509094 - 101093	0.96	2029	2	<0.01	11	0.11	3	<5	4	7	<10	0.02	69	<5	73	<1
509094 - 101094	0.79	732	2	<0.01	10	0.10	3	<5	4	4	11	0.02	61	<5	57	3
509094 - 101095	0.13	132	2	<0.01	6	0.05	3	<5	2	3	<10	0.01	95	<5	22	1
509094 - 101096	0.67	517	2	<0.01	11	0.10	3	<5	9	5	10	0.09	91	<5	60	8
509094 - 101097	0.24	189	3	<0.01	7	0.03	3	<5	3	4	12	0.09	159	<5	20	3
509094 - 101098	0.63	460	3	<0.01	10	0.05	6	<5	6	4	12	0.14	216	<5	50	4
509094 - 101099	0.07	182	3	<0.01	5	0.05	4	<5	2	3	<10	0.13	160	<5	19	1
509094 - 101100	0.21	1143	5	<0.01	9	0.07	5	<5	2	4	11	0.05	145	<5	40	>1
509094 - 101101	0.35	3155	8	<0.01	35	0.10	8	<5	3	24	11	0.01	94	<5	191	>1
509094 - 101102	0.48	433	10	<0.01	37	0.09	6	<5	11	51	11	0.02	74	<5	143	>1
509094 - 101103	0.29	983	4	<0.01	14	0.07	5	<5	5	8	<10	0.01	56	<5	95	>1
509094 - 101104	0.08	142	5	<0.01	10	0.04	6	<5	2	9	<10	<0.01	68	<5	55	>1
509094 - 101105	0.30	305	4	<0.01	14	0.07	7	<5	4	9	<10	0.01	82	<5	89	1
509094 - 101106	0.05	153	6	<0.01	11	0.03	6	<5	1	8	<10	0.01	68	<5	48	>1
509094 - 101107	0.05	173	6	<0.01	11	0.03	4	<5	1	8	<10	<0.01	68	<5	47	>1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 101108	Soil	<5	<0.1	2.17	49	11	<2	0.04	0.6	22	33	16	>5.00	<3	0.03	3
509094 - 101109	Soil	<5	0.1	3.59	32	4	<2	0.01	0.3	11	18	11	>5.00	<3	0.06	2
509094 - 101110	Soil	<5	<0.1	2.97	26	<2	3	0.02	0.3	14	14	23	>5.00	<3	0.03	4
509094 - 101111	Soil	20	<0.1	4.82	22	<2	<2	0.04	<0.1	13	15	32	>5.00	<3	0.04	5
509094 - 101112	Soil	10	<0.1	3.32	10	<2	5	0.02	<0.1	14	11	9	>5.00	<3	0.02	3
509094 - 101113	Soil	<5	0.2	1.64	14	<2	<2	0.03	<0.1	5	14	2	>5.00	<3	0.02	2
509094 - 101114	Soil	<5	0.1	>5.00	8	<2	<2	0.02	0.3	6	20	11	>5.00	<3	0.02	4
509094 - 101115	Soil	<5	<0.1	2.93	25	<2	<2	0.06	0.2	11	20	17	>5.00	<3	0.03	2
509094 - 101116	Soil	<5	0.1	2.41	29	12	<2	0.05	<0.1	9	13	13	>5.00	<3	0.04	3
509094 - 101117	Soil	<5	0.2	2.42	78	10	<2	0.06	<0.1	8	14	20	>5.00	<3	0.04	4
509094 - 101118	Soil	35	<0.1	2.76	39	10	<2	0.02	0.2	10	14	12	>5.00	<3	0.02	3
509094 - 101119	Soil	5	<0.1	2.25	70	10	<2	0.08	0.2	12	12	20	4.82	<3	0.04	5
509094 - 101120	Soil	<5	<0.1	2.27	17	17	<2	0.39	0.1	14	13	9	>5.00	<3	0.02	3
509094 - 101121	Soil	<5	<0.1	2.32	14	11	<2	0.04	<0.1	8	9	7	>5.00	<3	0.03	3
509094 - 101122	Soil	<5	<0.1	2.58	19	49	<2	0.03	<0.1	12	13	2	4.87	<3	0.03	2
509094 - 101123	Soil	<5	0.1	1.06	7	21	6	0.04	<0.1	5	3	1	4.05	<3	0.03	5
509094 - 101124	Soil	<5	0.1	3.89	15	13	<2	0.03	0.1	7	14	10	>5.00	<3	0.02	4
509094 - 101125	Soil	<5	0.1	4.17	14	11	<2	0.03	0.1	8	18	12	>5.00	<3	0.04	5
509094 - 101126	Soil	5	<0.1	3.37	16	15	<2	0.05	<0.1	6	17	8	>5.00	<3	0.03	3
509094 - 101127	Soil	<5	<0.1	2.44	14	6	<2	0.02	<0.1	6	20	3	>5.00	<3	0.04	3
509094 - 101128	Soil	<5	<0.1	3.87	16	<2	<2	0.04	0.1	11	14	12	>5.00	<3	0.03	4
509094 - 101129	Soil	15	<0.1	1.70	17	3	<2	0.01	<0.1	6	5	9	>5.00	<3	0.02	3
509094 - 101130	Soil	10	0.1	3.34	9	76	<2	0.72	0.7	33	19	11	>5.00	<3	0.03	7
509094 - 101131	Soil	5	<0.1	4.53	53	3	<2	2.00	0.5	29	62	12	>5.00	<3	0.02	7
509094 - 101132	Soil	<5	<0.1	1.47	61	3	<2	0.04	<0.1	16	21	2	>5.00	<3	0.04	2
509094 - 101133	Soil	<5	<0.1	3.61	29	21	<2	0.33	0.5	19	26	16	>5.00	<3	0.04	10
509094 - 101134	Soil	<5	<0.1	2.42	22	36	<2	0.07	0.2	10	27	14	>5.00	<3	0.02	5
509094 - 101135	Soil	10	0.2	3.78	26	51	2	0.03	0.2	13	31	32	>5.00	<3	0.04	6
509094 - 102045	Soil	5	0.1	2.49	35	<2	<2	0.14	0.3	12	23	16	>5.00	<3	0.04	3
509094 - 102055	Soil	5	0.1	2.37	45	2	5	0.18	0.7	12	16	19	4.51	<3	0.02	5
509094 - 102056	Soil	<5	0.2	2.95	72	<2	<2	0.21	0.7	24	34	25	>5.00	<3	0.02	2
509094 - 102057	Soil	5	0.1	2.34	44	<2	<2	0.42	0.7	33	19	45	>5.00	<3	0.04	2
509094 - 102058	Soil	25	0.4	2.00	54	<2	<2	0.20	0.2	15	28	27	>5.00	<3	0.02	2
509094 - 102059	Soil	25	0.7	2.50	36	<2	<2	0.37	1.1	24	31	33	>5.00	<3	0.04	3
509094 - 102060	Soil	55	0.3	2.57	71	11	<2	0.87	0.9	27	22	148	>5.00	<3	0.04	6
509094 - 102061	Soil	15	0.3	1.71	39	6	<2	0.33	0.3	9	13	17	>5.00	<3	0.03	3
509094 - 102062	Soil	20	0.3	2.70	58	6	<2	0.74	0.7	19	20	57	>5.00	<3	0.03	4
509094 - 102063	Soil	35	0.1	1.53	50	3	<2	0.23	0.1	8	14	9	>5.00	<3	0.02	2
509094 - 102064	Soil	10	0.2	2.91	31	<2	<2	0.19	0.5	15	21	22	>5.00	<3	0.03	3

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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INTERNATIONAL PLASMA LABORATORY LTD.





Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 101108	0.36	2052	8	<0.01	38	0.14	4	<5	3	15	13	0.02	77	<5	161	<1
509094 - 101109	0.23	276	9	<0.01	22	0.06	6	<5	5	8	13	<0.01	55	<5	86	3
509094 - 101110	0.15	1092	5	<0.01	8	0.07	5	<5	4	3	<10	0.12	164	<5	46	1
509094 - 101111	0.55	760	3	<0.01	9	0.11	5	<5	11	4	<10	0.16	166	<5	58	7
509094 - 101112	0.24	3672	2	<0.01	5	0.09	5	<5	5	2	<10	0.21	153	<5	22	1
509094 - 101113	0.12	137	2	<0.01	6	0.05	2	<5	2	10	12	0.09	141	<5	10	1
509094 - 101114	0.26	172	3	<0.01	7	0.09	2	<5	5	3	<10	0.05	79	<5	25	7
509094 - 101115	0.45	207	3	<0.01	12	0.06	5	<5	4	5	11	0.01	176	<5	31	1
509094 - 101116	0.32	593	3	<0.01	6	0.06	6	<5	3	3	<10	0.02	196	<5	23	<1
509094 - 101117	0.57	532	3	<0.01	8	0.07	4	<5	3	5	<10	0.02	81	<5	47	<1
509094 - 101118	0.31	1036	3	<0.01	9	0.06	4	<5	2	3	<10	0.04	112	<5	46	<1
509094 - 101119	0.59	788	6	<0.01	8	0.07	4	<5	3	5	<10	0.05	77	<5	67	<1
509094 - 101120	0.45	683	2	<0.01	8	0.04	5	<5	3	11	<10	0.13	178	<5	30	2
509094 - 101121	0.20	514	2	<0.01	8	0.09	2	<5	2	3	<10	0.01	86	<5	32	<1
509094 - 101122	0.55	504	1	<0.01	6	0.05	2	<5	3	2	<10	<0.01	70	<5	43	<1
509094 - 101123	0.06	143	1	<0.01	3	0.02	2	<5	1	5	<10	0.11	74	<5	10	1
509094 - 101124	0.44	269	2	<0.01	8	0.05	3	<5	3	4	<10	0.02	90	<5	32	3
509094 - 101125	0.69	426	2	<0.01	10	0.09	3	<5	3	4	<10	0.02	76	<5	43	1
509094 - 101126	0.57	307	2	<0.01	9	0.08	2	<5	3	5	10	0.01	101	<5	34	<1
509094 - 101127	0.29	307	2	<0.01	9	0.08	3	<5	2	5	10	0.06	118	<5	24	<1
509094 - 101128	0.26	813	2	<0.01	8	0.09	2	<5	3	4	<10	0.05	107	<5	43	1
509094 - 101129	0.07	479	2	<0.01	6	0.06	4	<5	2	2	<10	0.10	195	<5	20	<1
509094 - 101130	0.81	>10000	24	<0.01	12	0.10	6	<5	4	24	<10	0.04	112	<5	160	<1
509094 - 101131	1.04	2076	8	<0.01	41	0.07	5	<5	13	23	11	0.18	169	<5	101	11
509094 - 101132	0.06	235	7	<0.01	29	0.05	4	<5	3	6	13	<0.01	139	<5	47	<1
509094 - 101133	0.31	956	8	<0.01	20	0.10	6	<5	10	13	11	0.05	97	<5	125	2
509094 - 101134	0.25	448	5	<0.01	14	0.04	5	<5	5	17	<10	0.02	68	<5	79	<1
509094 - 101135	0.29	406	5	<0.01	18	0.05	6	<5	9	10	<10	0.11	104	<5	86	2
509094 - 102045	0.63	1796	5	<0.01	11	0.11	8	<5	2	7	<10	0.06	138	<5	72	<1
509094 - 102055	0.38	961	4	<0.01	10	0.07	9	<5	3	8	<10	0.03	107	<5	92	<1
509094 - 102056	1.09	2254	5	<0.01	17	0.13	13	<5	3	10	<10	0.03	97	<5	127	<1
509094 - 102057	0.55	4234	5	<0.01	12	0.15	23	<5	1	9	12	0.03	94	<5	94	<1
509094 - 102058	0.61	1515	5	<0.01	13	0.10	11	<5	2	8	<10	0.05	127	<5	85	<1
509094 - 102059	0.85	3793	4	<0.01	14	0.20	12	<5	2	16	<10	0.04	106	<5	94	>1
509094 - 102060	0.94	2126	4	<0.01	16	0.12	15	<5	4	27	<10	0.03	83	<5	182	>1
509094 - 102061	0.50	717	4	<0.01	9	0.13	18	<5	2	12	<10	0.05	144	<5	68	>1
509094 - 102062	0.87	1433	4	<0.01	13	0.10	14	<5	4	17	<10	0.02	92	<5	149	>1
509094 - 102063	0.28	811	4	<0.01	9	0.08	12	<5	1	7	<10	0.03	114	<5	45	>1
509094 - 102064	0.45	1242	4	<0.01	11	0.12	11	<5	2	7	10	0.06	118	<5	70	>1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Report: 9000400 R Battle Mountain (Canada) Inc.

Project: 75-94

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 102065	Soil	<5	<0.1	1.40	53	59	<2	0.22	0.3	7	13	12	4.79	<3	0.02	3
509094 - 102066	Soil	20	0.1	2.40	56	<2	<2	0.26	0.6	20	26	22	>5.00	<3	0.03	3
509094 - 102067	Soil	20	<0.1	1.77	69	140	<2	0.22	0.4	10	21	19	>5.00	<3	0.02	3
509094 - 102068	Soil	5	0.1	2.46	45	10	<2	0.37	1.2	22	24	30	>5.00	<3	0.03	6
509094 - 102069	Soil	<5	<0.1	2.89	63	19	<2	0.35	0.8	24	28	20	>5.00	<3	0.02	4
509094 - 102070	Soil	10	<0.1	2.86	68	10	<2	0.39	1.1	27	26	38	>5.00	<3	0.03	5
509094 - 102071	Soil	<5	<0.1	2.84	43	26	<2	0.51	0.9	21	33	39	>5.00	<3	0.03	16
509094 - 102072	Soil	<5	<0.1	3.27	66	55	<2	0.18	0.9	17	29	43	>5.00	<3	0.03	14
509094 - 102073	Soil	<5	<0.1	>5.00	18	21	<2	0.07	<0.1	17	38	35	>5.00	<3	0.03	7
509094 - 102074	Soil	<5	0.1	>5.00	15	10	<2	0.06	<0.1	16	60	31	>5.00	<3	0.03	10
509094 - 102075	Soil	<5	0.2	3.50	22	12	<2	0.13	0.5	15	27	32	>5.00	<3	0.04	5
509094 - 102076	Soil	<5	<0.1	2.86	18	23	<2	0.22	0.1	12	40	25	3.46	<3	0.03	7
509094 - 102077	Soil	<5	<0.1	2.42	16	25	<2	0.34	<0.1	11	22	13	2.54	<3	0.03	5
509094 - 102078	Soil	<5	<0.1	3.14	28	<2	6	0.03	<0.1	10	32	11	>5.00	<3	0.03	4
509094 - 102080	Soil	<5	<0.1	2.51	35	17	<2	0.57	1.0	7	25	29	3.12	<3	0.03	10
509094 - 102082	Soil	<5	<0.1	3.28	27	6	<2	0.07	0.2	13	30	23	>5.00	<3	0.02	3
509094 - 102083	Soil	<5	<0.1	2.62	34	45	<2	0.69	1.2	20	45	28	>5.00	<3	0.04	7
509094 - 102084	Soil	<5	0.1	2.19	55	12	<2	0.24	0.6	13	21	27	4.70	<3	0.02	4
509094 - 102085	Soil	5	0.6	3.88	55	<2	<2	0.45	1.2	38	39	43	>5.00	<3	0.03	8
509094 - 102086	Soil	30	<0.1	2.31	53	8	<2	0.35	1.2	21	21	37	>5.00	<3	0.03	6
509094 - 102087	Soil	285	<0.1	2.85	71	<2	<2	0.37	1.5	25	25	54	>5.00	<3	0.03	8
509094 - 102088	Soil	<5	0.3	3.12	67	32	<2	0.73	4.2	29	26	53	>5.00	<3	0.04	9
509094 - 102089	Soil	5	0.2	3.55	63	<2	<2	0.22	0.6	23	30	25	>5.00	<3	0.03	4
509094 - 102090	Soil	5	0.2	3.22	62	<2	<2	0.40	1.4	29	30	40	>5.00	<3	0.04	6
509094 - 102091	Soil	5	0.3	2.10	67	<2	<2	0.27	0.5	14	25	23	>5.00	<3	0.02	2
509094 - 102092	Soil	10	0.4	2.95	68	12	<2	0.58	1.7	24	23	102	>5.00	<3	0.02	7
509094 - 102093	Soil	5	0.2	1.89	68	<2	<2	0.18	0.4	10	24	16	>5.00	<3	0.02	2
509094 - 102094	Soil	65	0.6	2.66	70	<2	<2	0.27	0.6	15	24	32	>5.00	<3	0.03	4
509094 - 102095	Soil	<5	<0.1	2.41	64	<2	<2	0.22	0.4	16	25	22	>5.00	<3	0.03	3
509094 - 102096	Soil	5	<0.1	2.33	81	<2	<2	0.21	0.4	15	28	29	>5.00	<3	0.02	3
509094 - 102097	Soil	<5	0.3	2.68	41	<2	<2	0.12	0.3	8	26	19	>5.00	<3	0.02	2
509094 - 102098	Soil	<5	0.2	1.22	61	<2	<2	0.19	0.3	9	17	14	>5.00	<3	0.04	4
509094 - 102099	Soil	<5	0.1	2.87	77	<2	<2	0.27	1.0	25	29	28	>5.00	<3	0.03	4
509094 - 102100	Soil	5	<0.1	3.79	79	7	<2	0.34	1.6	29	29	53	>5.00	<3	0.03	9
509094 - 102101	Soil	40	0.1	3.65	254	4	<2	0.29	2.7	26	28	40	>5.00	<3	0.03	8
509094 - 102102	Soil	5	0.1	2.23	59	<2	<2	0.47	1.2	20	20	52	>5.00	<3	0.03	5
509094 - 102103	Soil	20	0.3	3.50	60	31	<2	0.72	1.1	31	32	141	>5.00	<3	0.04	10
509094 - 102104	Soil	<5	0.3	4.55	10	13	<2	1.85	0.9	19	24	43	>5.00	<3	0.07	8
509094 - 102105	Soil	<5	0.3	2.93	60	14	<2	0.59	1.8	25	24	43	>5.00	<3	0.03	8

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 102065	0.27	822	4	<0.01	9	0.06	9	<5	1	10	<10	0.02	105	<5	44	<1
509094 - 102066	0.94	1644	4	<0.01	13	0.10	18	<5	3	11	<10	0.02	93	<5	128	<1
509094 - 102067	0.67	577	5	<0.01	13	0.06	15	<5	2	12	<10	0.02	96	<5	101	<1
509094 - 102068	0.88	1889	5	<0.01	16	0.11	16	<5	4	23	<10	0.03	94	<5	143	<1
509094 - 102069	1.28	1606	5	<0.01	16	0.07	16	<5	5	14	<10	0.04	84	<5	153	<1
509094 - 102070	1.19	1865	5	<0.01	17	0.10	16	<5	5	21	<10	0.03	86	<5	186	<1
509094 - 102071	1.22	2386	5	<0.01	23	0.12	8	<5	7	33	<10	0.02	76	<5	143	<1
509094 - 102072	0.74	1604	5	<0.01	24	0.10	6	<5	6	24	<10	0.04	78	<5	118	<1
509094 - 102073	0.67	430	4	<0.01	23	0.09	5	<5	11	13	<10	0.16	117	<5	91	6
509094 - 102074	0.83	861	3	<0.01	21	0.11	5	<5	14	26	<10	0.10	82	<5	101	7
509094 - 102075	0.36	793	4	<0.01	16	0.09	5	<5	4	13	<10	0.10	97	<5	89	1
509094 - 102076	1.50	1497	5	<0.01	19	0.12	6	<5	6	26	<10	0.02	83	<5	160	<1
509094 - 102077	0.79	250	3	<0.01	11	0.07	4	<5	2	27	<10	0.03	57	<5	71	<1
509094 - 102078	0.60	289	3	<0.01	11	0.04	4	<5	5	4	12	0.16	137	<5	35	6
509094 - 102080	0.83	215	3	<0.01	15	0.10	6	<5	3	48	<10	0.02	64	<5	73	<1
509094 - 102082	0.66	626	3	<0.01	15	0.06	5	<5	5	8	<10	0.12	149	<5	57	2
509094 - 102083	1.25	2838	4	<0.01	32	0.08	5	<5	7	55	<10	0.06	78	<5	149	<1
509094 - 102084	0.89	694	4	<0.01	12	0.06	13	<5	3	14	<10	0.02	79	<5	142	<1
509094 - 102085	1.03	2033	3	<0.01	18	0.16	15	<5	6	15	<10	0.06	79	<5	151	1
509094 - 102086	1.03	1698	4	<0.01	15	0.10	16	<5	3	16	<10	0.02	75	<5	185	<1
509094 - 102087	1.23	1909	4	<0.01	19	0.09	15	<5	6	15	<10	0.03	82	<5	229	<1
509094 - 102088	1.14	6424	5	<0.01	19	0.22	20	<5	5	39	<10	0.02	74	<5	265	<1
509094 - 102089	0.64	1617	6	<0.01	13	0.09	17	<5	4	10	<10	0.03	96	<5	134	<1
509094 - 102090	1.26	3064	4	<0.01	19	0.18	15	<5	5	22	<10	0.04	91	<5	224	<1
509094 - 102091	0.71	750	5	<0.01	14	0.06	15	<5	3	10	<10	0.04	102	<5	100	<1
509094 - 102092	1.11	1951	5	<0.01	18	0.13	14	<5	6	20	<10	0.02	79	<5	215	<1
509094 - 102093	0.75	499	5	<0.01	15	0.09	13	<5	2	10	<10	0.04	97	<5	110	<1
509094 - 102094	0.86	1853	5	<0.01	13	0.12	16	<5	3	11	<10	0.02	95	<5	154	<1
509094 - 102095	0.98	1367	5	<0.01	15	0.06	16	<5	3	9	<10	0.02	90	<5	132	<1
509094 - 102096	0.89	1619	6	<0.01	14	0.15	20	<5	4	9	11	0.03	107	<5	117	<1
509094 - 102097	0.51	453	6	<0.01	12	0.08	9	<5	2	6	<10	0.07	145	<5	62	<1
509094 - 102098	0.37	896	4	<0.01	8	0.08	11	<5	1	8	<10	0.03	107	<5	52	<1
509094 - 102099	1.31	1886	4	<0.01	16	0.09	17	<5	5	12	<10	0.05	96	<5	172	<1
509094 - 102100	1.43	2237	5	<0.01	20	0.11	20	<5	8	17	<10	0.03	87	<5	261	1
509094 - 102101	1.37	1932	6	<0.01	23	0.11	20	<5	8	15	<10	0.03	80	<5	469	1
509094 - 102102	0.92	1704	4	<0.01	16	0.10	14	<5	3	17	<10	0.02	76	<5	172	<1
509094 - 102103	1.43	2153	5	<0.01	26	0.16	12	<5	14	37	<10	0.08	94	<5	205	1
509094 - 102104	1.07	1782	2	<0.01	16	0.14	10	<5	6	118	<10	0.13	54	<5	125	4
509094 - 102105	1.17	2239	5	<0.01	19	0.11	15	<5	6	34	<10	0.03	79	<5	227	<1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 102106	Soil	90	<0.1	>5.00	<5	41	<2	0.03	0.3	8	7	6	>5.00	<3	0.02	3
509094 - 102107	Soil	<5	<0.1	2.25	20	<2	<2	0.03	<0.1	8	14	4	>5.00	<3	0.01	<2
509094 - 102108	Soil	<5	<0.1	3.88	20	<2	<2	0.04	<0.1	10	22	19	>5.00	<3	0.02	4
509094 - 102109	Soil	<5	<0.1	4.98	16	<2	3	0.04	0.1	10	22	21	>5.00	<3	0.03	7
509094 - 102110	Soil	5	<0.1	2.94	12	<2	10	0.04	0.3	11	19	11	>5.00	<3	0.03	5
509094 - 102111	Soil	<5	<0.1	2.77	15	<2	4	0.06	<0.1	8	11	1	>5.00	<3	0.03	4
509094 - 102112	Soil	25	0.1	1.91	53	<2	<2	1.77	1.0	14	20	140	3.37	<3	0.02	7
509094 - 102113	Soil	5	<0.1	3.00	55	2	<2	0.45	0.5	13	24	24	>5.00	<3	0.02	2
509094 - 102114	Soil	<5	<0.1	2.79	211	2	<2	0.73	1.6	21	26	21	>5.00	<3	0.03	7
509094 - 102115	Soil	<5	0.1	2.35	51	2	<2	1.20	1.1	14	27	24	3.29	<3	0.02	7
509094 - 102116	Soil	<5	<0.1	2.19	67	8	2	0.82	0.9	13	25	14	3.53	<3	0.04	6
509094 - 102117	Soil	60	0.1	1.64	75	<2	<2	1.86	1.8	11	18	21	3.20	<3	0.03	10
509094 - 102118	Soil	<5	0.1	3.34	17	51	<2	0.76	0.3	25	20	39	>5.00	<3	0.09	7
509094 - 102119	Soil	<5	<0.1	3.01	18	27	<2	0.50	0.3	20	19	29	>5.00	<3	0.07	6
509094 - 102120	Soil	<5	<0.1	3.24	17	38	5	0.63	0.3	23	19	32	>5.00	<3	0.07	6
509094 - 102121	Soil	<5	<0.1	2.78	18	31	6	0.83	0.4	21	18	43	4.82	<3	0.09	6
509094 - 102122	Soil	5	<0.1	3.22	18	38	<2	0.45	0.2	26	18	34	>5.00	<3	0.07	8
509094 - 102123	Soil	10	0.1	2.21	21	23	<2	1.06	0.4	19	17	64	4.65	<3	0.05	4
509094 - 102124	Soil	15	0.2	2.40	29	15	3	0.78	0.6	21	19	76	>5.00	<3	0.06	6
509094 - 102125	Soil	5	<0.1	2.75	22	23	3	0.38	0.2	19	18	27	4.99	<3	0.07	6
509094 - 102126	Soil	5	<0.1	2.90	36	3	<2	0.54	0.4	9	29	15	3.01	<3	0.04	10
509094 - 102127	Soil	5	0.4	2.78	27	20	<2	0.86	0.8	23	21	50	>5.00	<3	0.08	7
509094 - 102128	Soil	30	<0.1	2.93	20	23	<2	0.78	0.3	23	21	52	>5.00	<3	0.08	6
509094 - 102129	Soil	5	0.3	3.28	14	35	8	0.58	0.4	23	20	41	>5.00	<3	0.08	7
509094 - 102130	Soil	<5	<0.1	3.17	17	33	<2	0.54	0.3	21	18	37	>5.00	<3	0.08	7
509094 - 102131	Soil	<5	<0.1	3.06	15	33	4	0.56	0.2	20	18	38	4.78	<3	0.08	6
509094 - 102132	Soil	<5	0.2	3.11	20	33	3	0.47	0.1	21	18	38	>5.00	<3	0.09	7
509094 - 102133	Soil	5	<0.1	2.74	19	23	3	0.51	0.1	22	17	30	>5.00	<3	0.09	5
509094 - 102134	Soil	<5	<0.1	3.21	19	32	5	0.48	0.4	24	19	41	>5.00	<3	0.08	8
509094 - 102135	Soil	<5	<0.1	2.67	18	30	<2	0.71	0.3	23	17	29	>5.00	<3	0.07	5
509094 - 102137	Soil	<5	<0.1	2.95	24	28	<2	0.85	0.3	22	20	72	>5.00	<3	0.07	6
509094 - 102140	Soil	5	<0.1	1.96	16	8	<2	0.46	0.2	9	8	12	3.63	<3	0.04	6
509094 - 102141	Soil	15	0.2	3.47	38	35	<2	0.83	0.4	26	38	173	>5.00	<3	0.04	9
509094 - 102142	Soil	25	<0.1	1.96	37	24	<2	0.71	0.5	16	21	30	4.23	<3	0.06	12
509094 - 102143	Soil	20	<0.1	2.50	95	<2	<2	0.25	0.2	19	26	25	>5.00	<3	0.04	6
509094 - 102144	Soil	<5	<0.1	2.41	133	9	<2	0.14	0.5	18	25	21	>5.00	<3	0.02	4
509094 - 102146	Soil	5	<0.1	3.74	27	42	<2	0.07	0.1	11	29	29	4.92	<3	0.02	4
509094 - 102147	Soil	<5	<0.1	4.87	39	<2	<2	0.05	<0.1	9	25	22	>5.00	<3	0.03	3
509094 - 102148	Soil	<5	<0.1	2.67	36	<2	<2	0.04	0.1	6	19	13	5.00	<3	0.03	3
Minimum Detection		5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 102106	0.42	214	1	<0.01	8	0.05	3	<5	4	8	<10	0.11	101	<5	19	6
509094 - 102107	0.24	201	3	<0.01	10	0.07	5	<5	2	5	<10	0.14	135	<5	21	2
509094 - 102108	0.63	382	3	<0.01	12	0.06	5	<5	4	5	<10	0.09	126	<5	38	2
509094 - 102109	0.40	290	2	<0.01	10	0.10	3	<5	7	4	<10	0.16	108	<5	40	7
509094 - 102110	0.10	264	2	<0.01	8	0.05	5	<5	3	6	<10	0.31	118	<5	22	18
509094 - 102111	0.27	517	2	<0.01	7	0.06	3	<5	1	10	<10	0.21	63	<5	35	4
509094 - 102112	0.72	466	3	<0.01	17	0.10	10	<5	3	80	<10	0.02	51	<5	177	<1
509094 - 102113	1.08	449	5	<0.01	14	0.04	13	<5	5	22	<10	0.03	81	<5	157	1
509094 - 102114	1.48	1237	10	<0.01	19	0.08	9	<5	6	37	<10	0.03	89	<5	206	<1
509094 - 102115	0.94	557	3	<0.01	17	0.09	8	<5	4	71	<10	0.03	62	<5	169	1
509094 - 102116	0.92	1138	4	<0.01	13	0.07	8	<5	4	53	<10	0.03	65	<5	115	<1
509094 - 102117	0.55	1148	3	<0.01	12	0.06	8	<5	3	87	<10	0.02	58	<5	91	<1
509094 - 102118	1.63	1514	2	0.02	16	0.09	7	<5	9	61	<10	0.15	100	<5	106	1
509094 - 102119	1.50	842	3	0.02	16	0.07	6	<5	7	45	<10	0.12	96	<5	89	1
509094 - 102120	1.63	1171	3	0.02	15	0.08	7	<5	8	47	<10	0.16	101	<5	95	1
509094 - 102121	1.46	1086	2	0.01	17	0.10	6	<5	7	57	<10	0.12	85	<5	112	1
509094 - 102122	1.56	1558	3	0.01	13	0.06	7	<5	8	40	<10	0.13	99	<5	90	1
509094 - 102123	1.21	1492	2	0.01	17	0.09	5	<5	6	60	<10	0.08	72	<5	114	1
509094 - 102124	1.30	1331	3	0.01	18	0.09	6	<5	6	51	<10	0.08	76	<5	120	1
509094 - 102125	1.40	742	3	0.01	12	0.06	7	<5	6	37	<10	0.10	91	<5	85	1
509094 - 102126	1.00	290	3	<0.01	14	0.07	10	<5	5	52	<10	0.03	68	<5	101	1
509094 - 102127	1.41	1381	3	0.01	20	0.10	7	<5	8	51	<10	0.12	90	<5	136	1
509094 - 102128	1.58	1193	3	0.01	19	0.09	6	<5	8	55	<10	0.14	94	<5	114	1
509094 - 102129	1.61	1101	3	0.02	14	0.08	7	<5	9	53	<10	0.17	100	<5	98	1
509094 - 102130	1.57	889	2	0.02	14	0.08	6	<5	8	42	<10	0.15	97	<5	100	1
509094 - 102131	1.58	812	3	0.02	14	0.09	6	<5	8	50	<10	0.15	94	<5	100	1
509094 - 102132	1.59	1118	2	0.01	14	0.10	7	<5	7	44	<10	0.12	95	<5	105	1
509094 - 102133	1.40	1497	3	0.01	13	0.08	7	<5	5	40	<10	0.11	91	<5	93	1
509094 - 102134	1.59	1391	3	0.02	16	0.07	6	<5	9	49	<10	0.13	96	<5	94	1
509094 - 102135	1.40	1497	3	0.01	14	0.09	6	<5	6	56	<10	0.11	88	<5	101	1
509094 - 102137	1.53	908	3	0.01	16	0.09	6	<5	9	53	<10	0.13	91	<5	113	1
509094 - 102140	0.36	373	2	<0.01	9	0.07	4	<5	4	50	<10	0.12	52	<5	47	1
509094 - 102141	1.15	1061	5	<0.01	31	0.08	6	<5	12	102	<10	0.11	78	<5	126	2
509094 - 102142	0.82	1061	4	<0.01	22	0.08	6	<5	8	95	<10	0.04	34	<5	123	1
509094 - 102143	0.68	1099	6	<0.01	20	0.06	5	<5	5	59	<10	0.05	56	<5	117	<1
509094 - 102144	0.57	937	7	<0.01	18	0.06	5	<5	3	37	<10	0.03	58	<5	113	<1
509094 - 102146	0.65	453	6	<0.01	14	0.05	5	<5	10	14	<10	0.11	102	<5	57	4
509094 - 102147	0.67	265	7	<0.01	13	0.03	6	<5	9	14	<10	0.07	83	<5	71	10
509094 - 102148	0.47	156	5	<0.01	8	0.03	5	<5	4	8	<10	0.06	108	<5	35	1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
509094 - 102149	Soil	<5	0.1	2.76	33	<2	<2	0.17	0.2	11	17	27	4.34	<3	0.03	3
509094 - 102150	Soil	<5	<0.1	3.42	29	<2	<2	0.13	0.1	8	22	24	>5.00	<3	0.02	2
509094 - 102151	Soil	<5	0.2	3.01	29	<2	<2	0.09	0.2	11	19	22	>5.00	<3	0.03	<2
509094 - 102152	Soil	<5	1.0	3.12	49	<2	<2	0.06	0.1	11	15	37	>5.00	<3	0.03	3
509094 - 102153	Soil	<5	0.1	>5.00	29	<2	<2	0.06	0.1	11	21	26	>5.00	<3	0.02	5

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
509094 - 102149	0.60	526	4	<0.01	13	0.06	5	<5	5	29	<10	0.05	67	<5	78	2
509094 - 102150	0.54	267	4	<0.01	10	0.05	5	<5	5	10	<10	0.09	114	<5	41	5
509094 - 102151	0.49	534	4	<0.01	10	0.06	4	<5	6	12	<10	0.09	158	<5	40	3
509094 - 102152	0.65	358	9	<0.01	9	0.04	7	<5	8	10	11	0.11	181	<5	40	7
509094 - 102153	0.65	259	4	<0.01	11	0.05	6	<5	8	10	<10	0.09	82	<5	66	13

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102163	Soil	<5	<0.1	4.28	7	30	<2	0.12	<0.1	9	6	8	>5.00	<3	0.03	2
102164	Soil	<5	0.1	4.26	6	<2	<2	0.18	<0.1	14	6	13	>5.00	<3	0.05	5
102165	Soil	<5	<0.1	1.25	6	<2	6	0.09	<0.1	7	7	<1	>5.00	<3	0.04	2
102166	Soil	<5	<0.1	>5.00	8	<2	<2	0.04	<0.1	7	11	4	>5.00	<3	0.02	4
102167	Soil	5	0.1	2.49	12	<2	<2	0.04	<0.1	5	8	2	>5.00	<3	0.04	4
102168	Soil	<5	<0.1	2.51	10	<2	<2	0.05	<0.1	6	10	1	>5.00	<3	0.03	2
102169	Soil	5	<0.1	2.69	11	<2	<2	0.03	<0.1	5	11	4	>5.00	<3	0.03	3
102170	Soil	<5	<0.1	1.80	9	<2	<2	0.05	<0.1	4	9	2	>5.00	<3	0.03	3
102171	Soil	<5	<0.1	2.52	9	<2	<2	0.01	<0.1	4	16	<1	>5.00	<3	0.02	<2
102172	Soil	<5	<0.1	4.10	9	<2	<2	0.06	<0.1	9	12	9	>5.00	<3	0.03	3
102173	Soil	<5	<0.1	3.08	11	<2	<2	0.03	<0.1	5	11	1	>5.00	<3	0.03	3
102174	Soil	<5	0.1	2.85	15	<2	<2	0.03	<0.1	4	9	<1	>5.00	<3	0.02	2
102175	Soil	<5	<0.1	2.75	12	<2	<2	0.02	<0.1	4	11	3	>5.00	<3	0.02	3
102176	Soil	<5	<0.1	3.66	5	<2	<2	0.11	<0.1	11	14	11	>5.00	<3	0.04	4
102177	Soil	5	0.1	>5.00	<5	<2	<2	0.08	<0.1	17	21	97	>5.00	<3	0.04	4
102178	Soil	10	0.1	4.66	9	<2	<2	0.03	<0.1	6	13	6	>5.00	<3	0.02	4
102179	Soil	<5	<0.1	4.12	9	<2	<2	0.08	<0.1	5	9	12	>5.00	<3	0.03	4
BC 2005	Rock	<5	<0.1	1.40	<5	12	<2	2.25	<0.1	6	32	3	4.05	<3	0.10	7

Minimum Detection 5 0.1 0.01 5 2 2 0.01 0.1 1 1 1 0.01 3 0.01 2  
 Maximum Detection 10000 100.0 5.00 10000 10000 10000 10.00 10000.0 10000 10000 20000 5.00 10000 10.00 10000  
 Method FA/AAS ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102163	0.64	820	2	<0.01	5	0.28	3	<5	4	5	10	0.06	66	<5	54	2
102164	1.13	969	1	<0.01	5	0.15	2	<5	6	3	<10	0.11	55	<5	83	5
102165	0.19	253	2	<0.01	4	0.07	4	<5	3	3	<10	0.21	79	<5	20	4
102166	0.65	596	2	<0.01	7	0.13	2	<5	4	2	<10	0.03	49	<5	46	5
102167	0.32	549	1	<0.01	5	0.09	2	<5	1	3	<10	0.02	63	<5	25	<1
102168	0.51	383	2	<0.01	8	0.13	3	<5	2	3	13	0.02	65	<5	29	<1
102169	0.51	362	2	<0.01	6	0.09	2	<5	2	3	10	0.01	54	<5	33	1
102170	0.18	176	1	<0.01	4	0.11	2	<5	2	3	11	0.02	85	<5	14	<1
102171	0.45	271	2	<0.01	7	0.09	2	<5	2	1	10	<0.01	59	<5	25	<1
102172	0.95	646	1	<0.01	7	0.08	2	<5	4	2	<10	0.02	49	<5	62	2
102173	0.40	273	2	<0.01	6	0.08	2	<5	2	2	13	0.03	72	<5	29	1
102174	0.30	212	2	<0.01	6	0.08	<2	<5	2	4	10	0.02	69	<5	19	<1
102175	0.22	182	1	<0.01	4	0.06	2	<5	2	3	<10	0.01	66	<5	19	2
102176	1.09	578	2	<0.01	8	0.05	3	<5	6	6	<10	0.02	77	<5	53	4
102177	1.14	569	6	<0.01	12	0.09	<2	<5	5	3	10	<0.01	58	<5	78	1
102178	0.40	237	2	<0.01	6	0.08	2	<5	4	3	<10	0.01	75	<5	30	1
102179	0.43	360	2	<0.01	5	0.08	2	<5	4	4	<10	0.01	63	<5	33	2
BC 2005	0.72	1028	1	0.03	3	0.09	<2	<5	5	18	<10	<0.01	6	<5	47	<1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102180	Soil	16	<0.1	1.89	136	22	<2	1.19	3.6	26	23	178	>5.00	<3	0.05	10
102181	Soil	28	<0.1	1.96	119	22	<2	1.08	3.1	27	23	132	>5.00	<3	0.08	11
102182	Soil	10	<0.1	>5.00	30	26	<2	0.23	0.3	16	17	35	>5.00	<3	0.03	4
102183	Soil	<5	<0.1	3.00	72	34	<2	0.67	1.0	16	27	25	>5.00	<3	0.04	7
102184	Soil	<5	<0.1	2.23	282	19	<2	0.26	0.8	21	24	23	>5.00	<3	0.04	5
102185	Soil	<5	<0.1	2.98	164	19	<2	0.55	0.6	8	30	14	4.40	<3	0.03	<2
102186	Soil	<5	<0.1	2.46	215	20	<2	0.76	3.1	23	32	33	>5.00	<3	0.04	7
102187	Soil	10	<0.1	2.19	25	19	<2	0.53	0.4	15	33	33	4.66	<3	0.05	6
102188	Soil	5	<0.1	2.46	24	20	<2	0.86	0.5	16	28	43	4.72	<3	0.03	7
102189	Soil	<5	<0.1	1.99	58	20	<2	1.42	1.8	15	23	74	4.43	<3	0.04	7
102190	Soil	<5	0.1	4.16	19	16	<2	0.09	0.3	14	30	32	>5.00	<3	0.03	6
102191	Soil	<5	<0.1	>5.00	12	18	<2	0.52	0.3	27	25	35	4.85	<3	0.03	6
102192	Soil	<5	0.1	2.79	24	24	<2	0.54	0.5	17	33	45	>5.00	<3	0.04	9
102193	Soil	<5	0.1	>5.00	31	33	<2	0.12	0.3	20	34	48	>5.00	<3	0.05	7
102194	Soil	<5	<0.1	>5.00	29	24	<2	0.12	0.3	22	39	59	>5.00	<3	0.02	7
102195	Soil	<5	<0.1	>5.00	14	6	<2	0.07	<0.1	14	48	35	>5.00	<3	0.01	4
102196	Soil	10	<0.1	3.05	21	8	3	0.07	0.1	10	34	22	>5.00	<3	0.01	2
102197	Soil	<5	<0.1	3.56	18	21	<2	0.72	0.5	18	30	31	4.74	<3	0.02	7
102198	Soil	<5	<0.1	>5.00	<5	10	<2	0.08	0.1	10	37	30	4.62	<3	0.02	6
102199	Soil	<5	<0.1	4.12	19	14	<2	0.10	0.4	17	26	37	>5.00	<3	0.03	9
102200	Soil	<5	0.1	3.82	23	15	<2	0.09	0.5	15	24	17	>5.00	<3	0.02	9
102201	Soil	20	<0.1	3.82	34	4	<2	0.06	0.2	13	47	23	>5.00	<3	0.01	7
102202	Soil	15	0.1	3.82	65	6	<2	0.03	0.4	17	51	20	>5.00	<3	0.02	8
102203	Soil	<5	0.1	2.71	31	6	<2	0.09	0.1	11	36	19	4.53	<3	0.01	4
102204	Soil	<5	<0.1	4.08	38	<2	<2	0.03	0.1	12	55	19	>5.00	<3	0.01	6
102205	Soil	<5	<0.1	0.83	55	3	<2	0.32	0.1	14	21	8	4.21	<3	0.02	2
102206	Soil	8	<0.1	1.88	44	<2	<2	0.54	0.2	10	24	9	>5.00	<3	0.01	2
102207	Soil	<5	<0.1	4.29	33	<2	<2	2.65	0.1	17	54	8	4.65	<3	0.01	5
102208	Soil	<5	<0.1	1.86	35	<2	<2	2.07	0.2	14	37	3	>5.00	<3	<0.01	>2
102209	Soil	6	0.1	>5.00	22	7	<2	2.90	1.3	14	51	9	>5.00	<3	0.03	8
102210	Soil	<5	<0.1	4.78	36	16	<2	0.70	0.6	20	29	28	>5.00	<3	0.03	13
102211	Soil	5	<0.1	2.50	29	5	<2	0.04	0.3	9	26	14	>5.00	<3	0.02	3
102212	Soil	<5	<0.1	4.08	38	10	<2	0.02	0.5	12	24	24	>5.00	<3	0.02	5
102213	Soil	<5	<0.1	3.08	34	9	<2	0.84	0.4	10	25	15	>5.00	<3	0.02	4
102214	Soil	<5	0.1	1.83	30	<2	<2	0.03	0.5	8	24	17	>5.00	<3	0.01	>2
102215	Soil	<5	<0.1	3.38	54	10	<2	0.05	0.5	17	27	5	>5.00	<3	0.03	5
102216	Soil	<5	0.1	2.64	21	6	<2	0.09	0.2	12	26	15	>5.00	<3	0.01	5
102217	Soil	<5	0.1	2.50	26	15	<2	0.46	0.8	11	29	25	4.45	<3	0.01	9
102218	Soil	<5	0.1	2.36	28	20	<2	0.23	0.5	17	19	19	>5.00	<3	0.02	8

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample



2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102180	0.83	1316	7	<0.01	26	0.09	16	<5	8	76	<10	0.04	56	<5	322	<1
102181	0.77	1493	7	<0.01	27	0.10	21	<5	9	77	<10	0.04	53	<5	294	<1
102182	0.68	630	4	<0.01	12	0.08	5	<5	11	40	<10	0.05	71	<5	102	11
102183	0.55	537	7	<0.01	27	0.05	8	<5	10	52	<10	0.03	83	<5	151	<1
102184	0.68	795	6	<0.01	25	0.05	10	<5	8	34	<10	0.04	63	<5	173	<1
102185	0.71	200	5	<0.01	14	0.04	13	<5	5	50	<10	0.02	100	<5	179	<1
102186	0.97	1847	8	<0.01	30	0.09	12	<5	7	59	<10	0.03	98	<5	265	1
102187	1.00	928	4	<0.01	19	0.06	5	<5	7	42	<10	0.09	70	<5	116	1
102188	0.73	1059	5	<0.01	17	0.07	5	<5	7	54	<10	0.07	63	<5	120	1
102189	0.53	848	6	<0.01	22	0.07	6	<5	6	84	<10	0.04	50	<5	154	1
102190	0.38	343	4	<0.01	15	0.05	5	<5	11	14	<10	0.23	119	<5	88	7
102191	0.65	948	3	<0.01	22	0.09	4	<5	8	55	<10	0.10	68	<5	137	2
102192	0.85	1105	5	<0.01	18	0.08	4	<5	9	32	<10	0.09	70	<5	116	1
102193	1.09	480	4	<0.01	25	0.06	4	<5	16	20	<10	0.07	105	<5	153	6
102194	0.91	478	4	<0.01	34	0.06	4	<5	20	23	<10	0.23	89	<5	152	13
102195	0.58	385	3	<0.01	18	0.07	4	<5	16	10	<10	0.21	85	<5	94	23
102196	0.12	129	4	<0.01	10	0.03	10	<5	5	6	<10	0.25	163	<5	48	8
102197	0.87	1612	4	<0.01	22	0.10	5	<5	7	53	<10	0.08	71	<5	137	1
102198	0.46	497	2	<0.01	17	0.08	4	<5	13	18	<10	0.10	61	<5	89	13
102199	0.76	1054	4	<0.01	19	0.09	4	<5	10	14	<10	0.11	72	<5	124	2
102200	0.21	1167	6	<0.01	16	0.09	6	<5	7	16	<10	0.05	68	<5	113	<1
102201	0.64	572	4	<0.01	11	0.06	4	<5	12	4	<10	0.16	113	<5	85	5
102202	0.65	454	3	<0.01	13	0.05	4	5	15	4	<10	0.21	117	<5	86	12
102203	0.56	498	3	<0.01	10	0.05	4	<5	6	8	<10	0.12	97	<5	76	4
102204	0.65	515	4	<0.01	11	0.06	5	<5	13	4	<10	0.20	118	<5	82	6
102205	0.12	465	2	<0.01	5	0.05	10	17	3	10	<10	0.40	138	<5	47	4
102206	0.17	329	4	<0.01	7	0.06	9	<5	4	7	<10	0.26	114	<5	65	10
102207	0.42	681	5	<0.01	14	0.05	7	<5	13	27	<10	0.29	109	<5	104	19
102208	0.19	214	6	<0.01	11	0.03	30	<5	5	13	<10	0.43	150	<5	61	11
102209	0.43	639	19	<0.01	31	0.09	11	<5	8	49	<10	0.12	94	<5	142	6
102210	0.47	1310	5	<0.01	23	0.06	6	<5	17	69	<10	0.10	93	>5	115	2
102211	0.24	314	5	<0.01	13	0.04	5	<5	4	9	<10	0.06	96	>5	72	1
102212	0.43	484	5	<0.01	17	0.06	6	<5	8	9	<10	0.04	89	>5	112	2
102213	0.27	424	4	<0.01	16	0.06	7	<5	3	62	<10	0.04	73	>5	99	>1
102214	0.35	204	4	<0.01	12	0.03	6	<5	3	8	<10	0.10	101	>5	59	1
102215	0.35	648	3	<0.01	26	0.14	4	<5	6	48	<10	0.01	81	>5	127	1
102216	0.24	594	5	<0.01	13	0.05	4	<5	5	9	<10	0.10	94	>5	70	2
102217	0.44	2062	6	<0.01	19	0.08	6	<5	6	28	<10	0.02	57	>5	119	>1
102218	0.42	1547	6	<0.01	24	0.08	3	<5	7	41	<10	0.02	53	>5	133	>1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102219	Soil	<5	<0.1	3.63	43	8	<2	0.05	0.4	17	38	14	>5.00	<3	0.02	4
102220	Soil	<5	<0.1	1.85	49	3	<2	0.05	0.3	13	21	14	>5.00	<3	0.02	2
102221	Soil	<5	0.1	1.85	62	4	<2	0.05	0.6	17	53	10	>5.00	<3	0.03	2
102222	Soil	<5	<0.1	1.93	34	9	<2	0.38	0.5	12	20	22	4.81	<3	0.12	5
102223	Soil	6	0.1	4.40	15	10	<2	2.46	0.4	26	21	92	4.61	<3	0.05	6
102224	Soil	10	0.2	>5.00	15	55	<2	0.56	0.9	35	31	61	>5.00	<3	0.06	21
102225	Soil	15	<0.1	>5.00	79	9	<2	1.00	2.8	34	118	61	>5.00	<3	0.03	7
102226	Soil	10	0.4	>5.00	107	<2	<2	0.43	1.5	21	157	35	>5.00	<3	0.03	7
102227	Soil	6	<0.1	4.19	153	<2	<2	0.55	0.8	8	118	20	>5.00	<3	0.02	4
102228	Soil	6	<0.1	1.09	63	2	<2	0.78	<0.1	11	66	17	3.07	<3	0.02	2
102229	Soil	<5	<0.1	1.00	8	2	<2	0.55	<0.1	8	32	19	1.66	<3	0.04	<2
102230	Soil	6	0.2	0.95	25	13	<2	0.30	<0.1	21	28	11	2.32	<3	0.05	2
102231	Soil	130	0.1	1.63	24	4	<2	0.30	0.1	12	10	12	>5.00	<3	0.03	<2
102232	Soil	160	0.3	2.94	23	6	<2	0.29	0.3	20	29	18	>5.00	<3	0.03	2
102233	Soil	50	0.6	1.32	15	6	<2	0.34	<0.1	9	9	2	4.09	<3	0.04	<2
102234	Soil	128	0.5	3.35	58	8	<2	0.36	0.7	20	13	85	>5.00	<3	0.09	2
102235	Soil	40	<0.1	2.61	50	5	<2	0.27	0.3	174	14	12	>5.00	<3	0.04	2
102236	Soil	170	0.1	1.80	32	6	<2	0.33	0.1	19	10	23	>5.00	<3	0.02	2
102237	Soil	45	0.7	1.96	17	4	<2	0.40	0.1	14	11	25	4.98	<3	0.03	<2
102238	Soil	20	0.2	1.95	20	2	<2	0.33	0.5	14	16	15	>5.00	<3	0.04	<2
102239	Soil	110	0.2	2.80	<5	13	<2	0.21	0.6	76	26	28	3.61	<3	0.03	4
102240	Soil	20	0.1	3.84	7	14	<2	0.44	0.6	271	36	56	>5.00	<3	0.04	5
102241	Soil	18	0.1	2.23	10	6	<2	0.33	0.1	15	18	19	3.33	<3	0.09	3
102242	Soil	6	<0.1	2.85	10	<2	<2	0.42	0.3	13	10	30	3.88	<3	0.03	4
102243	Soil	<5	0.2	3.06	9	<2	<2	0.59	0.3	10	11	26	4.65	<3	0.04	3
102244	Soil	<5	0.3	3.14	15	<2	<2	0.51	0.6	16	51	20	>5.00	<3	0.05	2
102245	Soil	<5	<0.1	2.38	15	<2	<2	0.75	0.5	18	63	23	>5.00	<3	0.03	<2
102246	Soil	8	0.1	2.58	18	4	<2	0.78	0.5	25	91	35	>5.00	<3	0.05	2
102247	Soil	<5	<0.1	1.92	6	5	<2	0.72	0.3	8	5	3	3.59	<3	0.04	3
102248	Soil	<5	0.1	>5.00	8	<2	<2	0.31	0.5	15	23	38	>5.00	<3	0.03	2
102249	Soil	12	0.1	1.45	5	8	<2	0.56	0.1	7	4	12	2.17	<3	0.05	3
102250	Soil	80	<0.1	1.35	15	4	<2	0.31	0.3	18	5	13	>5.00	<3	0.04	<2
102251	Soil	12	<0.1	2.88	6	4	<2	0.55	0.3	31	28	36	>5.00	<3	0.05	3
102252	Soil	<5	<0.1	2.33	10	10	<2	1.16	0.2	41	33	22	4.05	<3	0.04	2
102253	Soil	10	0.1	3.85	5	4	<2	0.23	0.4	30	18	19	>5.00	<3	0.03	3
102254	Soil	<5	0.2	1.48	17	15	<2	0.40	<0.1	19	25	21	>5.00	<3	0.04	<2
102255	Soil	80	<0.1	2.16	29	2	<2	0.65	0.1	17	8	8	>5.00	<3	0.04	2
102256	Soil	<5	0.2	1.34	23	18	<2	0.44	0.1	14	18	18	3.40	<3	0.04	<2
102257	Soil	70	<0.1	0.78	9	7	<2	0.30	<0.1	12	3	10	3.65	<3	0.03	<2

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102219	0.44	838	9	<0.01	24	0.06	5	<5	8	15	<10	0.13	116	<5	112	3
102220	0.22	503	9	<0.01	22	0.05	5	<5	3	9	<10	0.10	134	<5	86	1
102221	0.21	338	11	<0.01	35	0.05	4	6	5	28	10	0.18	100	<5	123	6
102222	0.43	1305	8	<0.01	18	0.09	8	<5	4	31	<10	0.02	65	<5	98	<1
102223	1.05	1175	3	0.01	21	0.07	6	<5	11	383	<10	0.10	75	<5	140	4
102224	0.89	1958	6	0.01	32	0.15	8	<5	25	186	<10	0.24	98	<5	175	6
102225	1.36	1098	5	<0.01	44	0.15	8	<5	18	34	<10	0.25	193	<5	510	7
102226	1.08	3962	3	<0.01	30	0.15	9	<5	6	9	<10	0.13	150	<5	521	1
102227	0.13	604	4	<0.01	14	0.56	10	<5	4	7	<10	0.12	157	<5	432	3
102228	0.35	264	2	<0.01	14	0.09	5	<5	3	15	<10	0.27	148	<5	25	1
102229	0.37	316	1	0.01	9	0.04	8	<5	2	12	<10	0.11	89	<5	22	1
102230	0.26	505	2	<0.01	9	0.05	6	<5	2	21	<10	0.18	118	<5	23	1
102231	0.19	296	2	<0.01	8	0.05	6	<5	3	19	<10	0.35	255	<5	21	2
102232	0.51	655	2	<0.01	10	0.04	4	<5	4	20	<10	0.27	184	<5	34	4
102233	0.21	298	2	<0.01	7	0.05	6	<5	2	20	<10	0.19	124	<5	24	1
102234	0.97	395	3	0.03	16	0.05	6	<5	5	38	<10	0.26	203	<5	96	2
102235	0.69	4871	2	<0.01	<1	0.07	6	<5	2	32	<10	0.12	112	<5	40	<1
102236	0.49	182	2	<0.01	10	0.04	6	<5	4	35	<10	0.43	206	<5	21	3
102237	0.27	152	2	<0.01	8	0.04	5	<5	4	20	<10	0.43	240	<5	22	3
102238	0.37	867	2	<0.01	9	0.06	4	<5	4	18	<10	0.35	181	<5	32	2
102239	0.47	8208	2	<0.01	12	0.11	8	<5	1	14	<10	0.06	70	<5	38	<1
102240	0.34	>10000	5	<0.01	13	0.08	10	<5	4	18	<10	0.18	180	<5	52	<1
102241	0.31	414	2	<0.01	8	0.03	6	<5	4	18	<10	0.28	143	<5	26	1
102242	0.20	286	2	<0.01	8	0.06	6	<5	3	15	<10	0.20	116	<5	23	2
102243	0.31	191	2	<0.01	7	0.07	5	<5	4	17	<10	0.24	141	<5	27	3
102244	0.50	239	3	<0.01	<1	0.07	5	<5	5	16	<10	0.44	204	<5	31	9
102245	0.86	309	2	<0.01	20	0.03	4	5	5	26	<10	0.40	202	<5	36	7
102246	0.72	1069	3	<0.01	20	0.12	6	5	5	29	<10	0.46	225	<5	59	9
102247	0.38	183	1	<0.01	6	0.03	8	<5	4	36	<10	0.19	116	<5	27	5
102248	0.81	201	3	<0.01	11	0.05	4	<5	8	11	<10	0.43	225	<5	36	16
102249	0.14	104	1	<0.01	4	0.04	6	<5	2	28	<10	0.18	90	<5	24	2
102250	0.15	309	3	<0.01	8	0.05	6	<5	3	19	<10	0.68	406	<5	23	2
102251	1.29	1201	2	<0.01	17	0.16	5	<5	6	39	<10	0.26	134	<5	58	1
102252	1.45	2631	2	0.01	13	0.10	5	<5	6	69	<10	0.17	108	<5	42	1
102253	0.51	3606	2	<0.01	10	0.07	4	<5	6	16	<10	0.23	129	<5	40	1
102254	0.38	467	2	0.01	11	0.07	7	5	3	29	<10	0.51	260	<5	24	3
102255	0.51	633	2	<0.01	8	0.07	5	<5	4	33	<10	0.30	195	<5	31	3
102256	0.63	379	1	0.01	7	0.05	4	<5	3	38	<10	0.21	128	<5	22	2
102257	0.07	109	2	<0.01	4	0.04	4	<5	2	22	<10	0.39	229	<5	16	1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102258	Soil	190	<0.1	0.61	8	5	<2	0.30	<0.1	12	5	7	4.59	<3	0.02	<2
102259	Soil	200	<0.1	1.53	23	8	<2	0.27	0.1	13	13	12	>5.00	<3	0.02	<2
102260	Soil	170	0.5	2.13	34	4	<2	0.24	0.5	16	95	22	>5.00	<3	0.04	<2
102261	Soil	16	<0.1	>5.00	94	12	<2	0.43	0.3	51	258	177	>5.00	<3	0.08	2
102262	Soil	<5	<0.1	1.89	31	8	<2	0.36	0.1	16	90	7	3.20	<3	0.09	<2
102263	Soil	<5	<0.1	4.60	75	4	<2	0.36	0.5	39	215	38	>5.00	<3	0.05	2
102264	Soil	<5	<0.1	4.60	121	2	<2	0.71	0.4	10	205	10	>5.00	<3	0.03	5
102265	Soil	<5	0.1	>5.00	5	<2	<2	0.84	0.1	8	136	25	>5.00	<3	0.02	10
102266	Soil	<5	<0.1	>5.00	62	<2	<2	0.60	0.8	12	140	25	>5.00	<3	0.01	8
102267	Soil	<5	<0.1	>5.00	66	<2	<2	0.32	1.3	13	89	11	>5.00	<3	0.04	5
102268	Soil	<5	<0.1	2.82	26	<2	<2	0.51	0.5	56	20	37	4.30	<3	0.05	3
102269	Soil	30	<0.1	1.14	7	2	<2	0.77	<0.1	15	9	3	3.06	<3	0.03	2
102270	Soil	10	<0.1	2.60	13	<2	<2	0.52	0.3	24	11	10	>5.00	<3	0.03	2
102271	Soil	45	<0.1	2.72	<5	7	<2	0.41	0.3	81	14	8	4.92	<3	0.05	4
102272	Soil	200	<0.1	2.36	6	6	<2	0.29	0.1	8	9	14	2.08	<3	0.04	4
102273	Soil	40	<0.1	1.88	7	3	<2	0.31	0.2	9	5	12	3.44	<3	0.03	3
102274	Soil	400	<0.1	2.10	8	6	<2	0.49	<0.1	12	10	18	2.91	<3	0.04	2
102275	Soil	40	<0.1	1.83	9	<2	<2	0.33	<0.1	16	9	11	>5.00	<3	0.03	<2
102276	Soil	5	0.1	2.65	8	2	<2	0.12	0.5	14	16	30	>5.00	<3	0.04	3
102277	Soil	8	<0.1	2.56	13	13	<2	0.14	0.5	11	18	14	>5.00	<3	0.07	2
102278	Soil	16	<0.1	2.11	6	19	<2	0.32	<0.1	13	22	8	2.46	<3	0.05	3
102279	Soil	<5	<0.1	0.67	<5	8	3	0.14	<0.1	9	1	2	0.53	<3	0.02	2
102280	Soil	15	<0.1	0.25	<5	5	<2	0.29	<0.1	3	12	3	0.41	<3	0.08	<2
102281	Soil	25	<0.1	1.15	<5	10	<2	0.16	<0.1	4	5	2	0.67	<3	0.05	<2
102282	Soil	110	0.2	0.67	<5	5	6	0.42	<0.1	5	15	7	0.66	<3	0.04	<2
102283	Soil	20	0.2	3.57	38	8	<2	0.30	0.6	38	10	90	>5.00	<3	0.02	<2
102284	Soil	60	0.1	1.33	36	<2	<2	0.36	0.2	19	69	70	>5.00	<3	0.04	<2
102285	Soil	<5	<0.1	2.50	83	<2	<2	0.20	0.4	14	165	35	>5.00	<3	0.03	<2
102286	Soil	8	0.2	3.09	26	10	<2	0.27	0.2	276	100	33	4.08	<3	0.03	3
102287	Soil	36	<0.1	2.53	41	9	<2	0.49	0.5	139	138	28	>5.00	<3	0.04	3
102288	Soil	6	0.1	4.29	5	19	<2	2.83	0.8	13	115	13	2.53	<3	0.04	6
102289	Soil	<5	<0.1	4.87	39	<2	<2	0.44	0.3	15	92	3	>5.00	<3	0.04	5
102290	Soil	40	0.1	>5.00	45	15	<2	0.39	1.5	26	59	43	>5.00	<3	0.09	2
102291	Soil	<5	<0.1	2.73	43	3	<2	0.59	0.3	18	98	16	>5.00	<3	0.04	>2
102292	Soil	<5	0.2	>5.00	93	4	<2	0.93	3.8	28	77	15	>5.00	<3	0.04	5
102293	Soil	<5	0.1	4.86	55	<2	<2	0.33	2.0	25	45	48	>5.00	<3	0.03	>2
102294	Soil	<5	<0.1	>5.00	56	<2	<2	0.54	1.6	20	87	32	>5.00	<3	0.03	2
102295	Soil	5	<0.1	>5.00	42	4	<2	1.04	1.5	44	75	67	>5.00	<3	0.03	4
102296	Soil	5	<0.1	>5.00	70	<2	<2	0.26	0.8	15	133	33	>5.00	<3	0.03	3

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
-- = Not Analysed	unr = Not Requested	ins = Insufficient Sample													



2036 Columbia Street  
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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102258	0.03	170	1	<0.01	5	0.05	4	8	1	38	<10	0.38	152	<5	19	1
102259	0.13	182	2	<0.01	7	0.04	6	<5	2	20	<10	0.39	234	<5	22	1
102260	0.31	212	3	<0.01	19	0.08	4	5	3	15	<10	0.37	275	<5	27	2
102261	3.56	1552	3	<0.01	121	0.05	3	9	10	22	<10	0.17	130	<5	95	1
102262	1.70	517	3	<0.01	44	0.08	9	5	2	14	<10	0.21	140	<5	49	1
102263	2.22	509	3	0.01	80	0.06	4	6	7	15	<10	0.27	153	<5	100	3
102264	0.28	224	3	<0.01	18	0.37	8	<5	6	11	<10	0.24	259	<5	53	5
102265	0.09	227	4	<0.01	17	1.25	7	<5	11	16	<10	0.07	105	<5	72	16
102266	0.23	246	4	<0.01	18	0.71	7	<5	11	11	<10	0.12	166	<5	173	20
102267	1.01	136	10	<0.01	53	0.31	6	<5	9	12	<10	0.04	79	<5	182	6
102268	0.44	2529	3	<0.01	7	0.08	7	<5	2	18	<10	0.14	99	<5	48	1
102269	0.14	334	2	<0.01	5	0.04	7	<5	3	16	<10	0.56	241	<5	21	2
102270	0.41	1391	2	<0.01	10	0.06	5	5	4	22	<10	0.36	191	<5	42	1
102271	0.42	5808	2	<0.01	10	0.06	6	<5	4	20	<10	0.25	182	<5	50	<1
102272	0.36	227	2	<0.01	5	0.05	10	<5	2	19	<10	0.14	84	<5	28	1
102273	0.18	163	2	<0.01	4	0.04	6	<5	3	16	<10	0.30	149	<5	20	1
102274	0.45	173	3	<0.01	8	0.05	10	<5	3	18	<10	0.43	193	<5	28	2
102275	0.23	370	3	<0.01	7	0.07	4	<5	2	13	<10	0.52	345	<5	23	2
102276	0.49	549	3	<0.01	9	0.09	10	<5	3	12	<10	0.25	181	<5	31	2
102277	0.64	307	2	<0.01	9	0.05	3	<5	5	16	<10	0.29	168	<5	33	3
102278	0.47	161	1	0.01	8	0.03	8	6	6	22	<10	0.50	227	<5	30	3
102279	0.16	68	<1	0.01	1	0.02	8	7	2	9	<10	0.38	44	<5	13	3
102280	0.11	212	1	0.01	4	0.05	8	<5	1	18	<10	0.06	36	<5	25	<1
102281	0.13	58	<1	0.01	3	0.03	8	<5	2	14	<10	0.15	128	<5	16	1
102282	0.18	94	7	0.01	3	0.03	5	<5	2	19	<10	0.11	60	<5	20	1
102283	0.56	523	3	<0.01	11	0.09	3	<5	5	20	<10	0.29	168	<5	72	4
102284	0.23	146	4	<0.01	27	0.09	3	5	2	13	<10	0.34	182	<5	21	2
102285	0.60	127	2	<0.01	34	0.05	2	<5	6	7	<10	0.23	205	<5	29	2
102286	0.53	2745	2	<0.01	33	0.08	3	<5	3	13	<10	0.08	67	<5	48	<1
102287	0.40	5623	4	<0.01	25	0.11	7	<5	4	13	<10	0.14	139	<5	118	<1
102288	0.52	6411	1	0.06	24	0.36	4	<5	3	173	<10	0.04	58	<5	151	2
102289	0.26	997	2	<0.01	16	0.18	6	<5	8	12	<10	0.10	90	<5	94	5
102290	2.00	415	19	<0.01	47	0.05	6	<5	8	21	<10	0.17	165	<5	165	5
102291	1.22	234	5	0.01	34	0.03	6	5	5	22	<10	0.37	206	<5	78	4
102292	0.79	2796	9	<0.01	42	0.09	18	<5	7	43	<10	0.09	186	<5	761	1
102293	0.57	285	5	<0.01	14	0.06	4	7	7	9	10	0.52	306	<5	132	12
102294	0.96	342	6	<0.01	31	0.05	5	<5	5	16	<10	0.26	147	<5	305	7
102295	0.82	601	5	<0.01	49	0.06	5	<5	8	39	<10	0.21	130	<5	375	8
102296	0.64	234	6	<0.01	30	0.07	3	<5	7	11	<10	0.21	152	<5	232	11

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

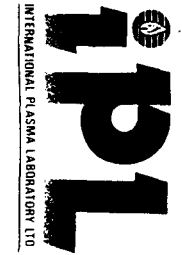


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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102297	Soil	10	0.1	>5.00	46	<2	<2	0.25	0.5	17	122	40	>5.00	<3	0.02	4
102298	Soil	<5	0.4	2.89	71	<2	<2	0.35	0.7	18	152	21	>5.00	<3	0.02	<2
102299	Soil	<5	0.1	1.52	76	4	<2	0.31	0.4	15	101	16	>5.00	<3	0.05	2
102300	Soil	<5	0.2	1.15	6	6	<2	0.38	0.2	15	60	10	2.51	<3	0.04	<2
102301	Soil	<5	0.5	4.93	11	<2	<2	0.04	0.1	10	89	45	0.59	<3	0.02	4
102302	Soil	30	0.6	>5.00	11	<2	<2	0.36	0.5	13	58	35	>5.00	<3	0.02	3
102303	Soil	6	0.2	4.64	11	<2	<2	0.45	0.5	14	53	34	>5.00	<3	0.02	2
102304	Soil	<5	<0.1	1.58	10	<2	<2	0.14	0.6	12	5	5	>5.00	<3	0.03	<2
102305	Soil	<5	<0.1	2.40	51	<2	<2	0.16	<0.1	21	17	15	1.78	<3	0.02	5
102306	Soil	<5	0.3	2.29	43	6	<2	0.13	0.3	21	13	22	4.89	<3	0.05	5
102307	Soil	46	0.5	1.37	747	<2	<2	0.45	2.7	59	46	468	>5.00	<3	0.04	<2
102308	Soil	12	<0.1	1.56	57	9	<2	0.62	0.1	34	53	64	3.53	<3	0.05	3
102309	Soil	<5	<0.1	2.19	18	13	<2	0.38	0.2	11	87	5	4.41	<3	0.04	2
102310	Soil	<5	<0.1	3.20	6	15	<2	0.29	0.4	227	106	18	>5.00	<3	0.04	<2
102311	Soil	14	<0.1	>5.00	80	<2	<2	0.35	0.3	16	112	188	>5.00	<3	0.03	4
102312	Soil	<5	<0.1	2.31	47	<2	<2	0.40	0.3	11	41	31	>5.00	<3	0.03	2
102313	Soil	<5	0.7	4.21	66	<2	<2	0.37	0.9	19	74	70	>5.00	<3	0.03	<2
102314	Soil	38	0.4	3.00	308	<2	<2	0.46	1.0	93	88	74	>5.00	<3	0.02	4
102315	Soil	5	0.2	3.66	79	2	<2	0.54	0.7	34	86	102	>5.00	<3	0.02	4
102316	Soil	<5	<0.1	1.37	8	7	<2	0.14	<0.1	3	27	18	0.36	<3	0.02	2
102317	Soil	24	<0.1	1.48	17	6	<2	0.25	0.2	11	89	2	3.44	<3	0.09	3
102318	Soil	25	0.1	0.44	<5	8	5	0.24	<0.1	2	23	3	0.26	<3	0.03	<2
102319	Soil	80	<0.1	1.13	50	<2	<2	0.37	<0.1	15	42	14	>5.00	<3	0.02	<2
102320	Soil	<5	<0.1	2.22	18	<2	<2	0.62	0.4	13	32	12	>5.00	<3	0.03	<2
102321	Soil	<5	<0.1	2.37	8	6	<2	0.19	0.1	4	21	20	0.64	<3	0.05	6
102322	Soil	10	<0.1	2.98	35	<2	<2	0.26	0.7	63	35	21	>5.00	<3	0.03	2
102323	Soil	12	<0.1	2.45	16	<2	<2	0.31	0.4	15	28	14	>5.00	<3	0.02	2
102324	Soil	15	<0.1	2.15	<5	10	<2	0.41	0.1	107	31	16	3.14	<3	0.04	4
102325	Soil	<5	0.2	3.15	25	8	<2	0.17	0.2	69	20	21	4.00	<3	0.05	3
102326	Soil	40	0.2	3.09	57	9	<2	0.35	0.3	45	67	21	3.44	<3	0.05	3
102327	Soil	30	<0.1	0.87	<5	8	<2	0.21	<0.1	2	13	7	0.27	<3	0.03	2
102328	Soil	10	<0.1	1.62	12	5	2	0.84	<0.1	12	153	7	3.39	<3	0.03	<2
102329	Soil	6	0.2	2.14	46	6	<2	1.25	0.1	73	106	21	4.79	<3	0.03	2
102330	Soil	<5	0.6	3.14	13	24	<2	0.72	0.1	41	33	18	>5.00	<3	0.10	2
102331	Soil	<5	0.5	2.97	52	16	<2	0.90	0.5	31	79	21	>5.00	<3	0.03	<2
102332	Soil	14	0.2	1.43	<5	49	<2	0.72	0.3	110	46	15	3.63	<3	0.05	3
102333	Soil	<5	0.6	2.80	54	32	<2	0.92	1.8	29	26	54	>5.00	<3	0.06	15
102334	Soil	10	0.5	>5.00	43	15	<2	0.17	1.3	675	241	40	>5.00	<3	0.05	2
102335	Soil	<5	0.5	2.94	34	5	<2	0.53	0.2	19	96	7	4.73	<3	0.07	<2

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample



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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102297	0.44	254	2	<0.01	23	0.09	4	5	9	14	<10	0.26	126	<5	133	17
102298	0.76	215	3	<0.01	35	0.05	3	<5	3	14	<10	0.40	232	<5	50	4
102299	0.59	160	3	<0.01	30	0.09	4	<5	3	13	<10	0.27	241	<5	48	1
102300	1.04	169	2	0.02	40	0.08	5	5	2	15	<10	0.25	129	<5	29	1
102301	0.05	73	1	<0.01	4	0.74	5	<5	1	3	<10	0.01	27	<5	20	1
102302	0.67	296	2	<0.01	13	0.05	2	<5	9	12	<10	0.21	117	<5	41	12
102303	0.48	377	3	<0.01	11	0.05	2	<5	8	13	<10	0.30	201	<5	33	12
102304	0.12	126	3	<0.01	7	0.06	4	<5	3	6	<10	0.32	346	<5	26	2
102305	0.04	1649	7	<0.01	2	0.05	4	<5	2	10	<10	0.09	122	<5	37	<1
102306	0.09	534	4	<0.01	5	0.12	5	<5	1	11	<10	0.05	97	<5	35	<1
102307	0.09	717	33	<0.01	27	0.09	11	<5	3	6	21	0.38	386	<5	55	3
102308	0.59	1480	15	<0.01	14	0.05	6	<5	3	11	<10	0.13	161	<5	39	1
102309	1.04	172	3	0.01	27	0.02	3	<5	3	14	<10	0.19	206	<5	28	1
102310	1.52	>10000	6	<0.01	41	0.06	3	<5	4	12	<10	0.15	157	<5	58	<1
102311	0.72	336	3	<0.01	17	0.11	2	6	14	17	<10	0.22	96	<5	49	12
102312	0.27	302	3	<0.01	9	0.04	3	<5	3	13	<10	0.22	201	<5	21	3
102313	0.79	446	4	<0.01	17	0.05	3	5	6	16	<10	0.32	146	<5	151	7
102314	0.66	2847	6	<0.01	16	0.30	4	<5	4	7	<10	0.13	137	<5	95	<1
102315	1.16	5636	5	<0.01	27	0.35	5	<5	5	15	<10	0.10	128	<5	326	<1
102316	0.10	172	1	<0.01	7	0.12	5	<5	<1	8	<10	0.02	17	<5	27	<1
102317	0.57	960	1	<0.01	16	0.05	6	6	3	19	<10	0.32	190	<5	23	1
102318	0.04	511	1	<0.01	3	0.05	5	<5	1	12	<10	0.03	11	<5	25	<1
102319	0.10	227	2	<0.01	8	0.05	4	<5	2	24	<10	0.50	326	<5	19	1
102320	0.34	322	2	<0.01	9	0.05	3	<5	4	18	<10	0.34	165	<5	32	6
102321	0.07	47	1	<0.01	5	0.15	7	<5	<1	9	<10	0.01	35	<5	26	1
102322	0.46	1007	5	<0.01	15	0.08	5	<5	5	10	<10	0.24	260	<5	42	2
102323	0.46	311	3	<0.01	11	0.03	3	<5	5	12	<10	0.31	231	<5	41	3
102324	0.25	5704	2	<0.01	8	0.06	8	<5	2	15	<10	0.15	114	<5	32	<1
102325	0.57	3322	2	<0.01	12	0.07	3	<5	2	10	<10	0.08	75	<5	39	<1
102326	1.59	3209	4	0.01	40	0.05	2	<5	3	19	<10	0.10	74	<5	55	<1
102327	0.06	64	1	<0.01	3	0.10	3	<5	<1	11	<10	0.01	11	<5	14	<1
102328	0.68	271	2	<0.01	24	0.02	5	7	4	23	<10	0.39	221	<5	29	2
102329	1.48	2331	3	<0.01	64	0.06	2	<5	6	41	<10	0.24	132	<5	49	2
102330	1.02	1777	1	0.02	13	0.14	7	<5	6	37	<10	0.35	155	<5	61	3
102331	0.50	494	3	<0.01	30	0.05	6	<5	6	26	<10	0.37	182	<5	58	6
102332	0.35	>10000	4	<0.01	13	0.06	6	<5	3	34	<10	0.19	118	<5	36	<1
102333	0.97	1723	5	<0.01	27	0.09	9	<5	17	70	<10	0.04	77	<5	207	1
102334	0.33	>10000	4	<0.01	27	0.13	6	<5	6	11	<10	0.14	152	<5	58	<1
102335	2.23	538	2	0.06	56	0.05	<2	<5	3	22	<10	0.22	153	<5	43	1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
102336	Soil	6	<0.1	1.01	76	12	<2	0.65	0.4	99	123	8	4.48	<3	0.03	<2
102337	Soil	12	0.2	1.10	47	<2	<2	0.42	0.4	20	66	2	>5.00	<3	0.02	2
102338	Soil	15	0.2	3.27	105	<2	<2	0.26	0.9	22	120	40	>5.00	<3	0.02	4
102339	Soil	<5	0.5	4.89	56	13	<2	2.64	2.6	21	113	21	>5.00	<3	0.05	2
102340	Soil	<5	0.5	>5.00	24	10	<2	0.34	0.1	26	206	13	>5.00	<3	0.09	<2
102341	Soil	10	0.6	3.59	128	18	<2	0.57	0.2	27	237	120	>5.00	<3	0.06	<2
102342	Soil	10	<0.1	>5.00	279	<2	<2	0.20	0.7	22	608	148	>5.00	<3	0.12	<2
102343	Soil	30	0.1	>5.00	43	7	<2	0.89	2.5	22	96	19	>5.00	<3	0.03	4
102344	Soil	10	0.1	3.16	70	<2	<2	0.46	1.1	21	38	25	>5.00	<3	0.03	<2
102345	Soil	15	<0.1	>5.00	25	7	<2	1.07	1.6	44	46	154	>5.00	<3	0.04	5
102346	Soil	8	0.1	2.18	36	10	<2	0.90	1.2	18	64	19	>5.00	<3	0.02	2
102347	Soil	34	0.2	3.20	48	5	<2	1.05	1.1	26	61	48	>5.00	<3	0.02	2
102348	Soil	10	0.1	>5.00	25	<2	<2	0.64	1.0	19	60	45	>5.00	<3	0.03	<2
102349	Soil	<5	<0.1	2.66	11	<2	<2	0.20	0.3	12	78	50	>5.00	<3	0.07	2
102350	Soil	<5	0.2	1.84	30	25	<2	0.33	0.1	17	67	47	>5.00	<3	0.06	2
102351	Soil	<5	0.4	3.76	68	13	<2	0.41	0.2	22	126	41	>5.00	<3	0.06	<2
102352	Soil	<5	0.2	1.86	33	45	<2	0.33	0.1	17	68	48	>5.00	<3	0.05	<2
102353	Soil	<5	0.5	2.18	24	22	<2	1.74	<0.1	26	144	48	>5.00	<3	0.07	<2

Minimum Detection      5    0.1    0.01    5    2    2    0.01    0.1    1    1    1    0.01    3    0.01    2  
 Maximum Detection    10000   100.0   5.00   10000   10000   10000   10.00   10000.0   10000   10000   20000   5.00   10000   10.00   10000  
 Method                FA/AAS   ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP    ICP  
 -- = Not Analysed    unr = Not Requested    ins = Insufficient Sample

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
102336	0.37	4243	1	<0.01	73	0.10	4	6	3	19	<10	0.19	148	<5	59	<1
102337	0.09	744	4	<0.01	11	0.07	6	5	2	7	<10	0.54	282	<5	495	7
102338	0.56	1014	5	<0.01	24	0.09	4	6	6	16	<10	0.41	295	<5	97	4
102339	1.57	725	11	0.02	46	0.09	10	<5	7	54	<10	0.21	199	<5	292	9
102340	5.05	570	2	0.01	129	0.04	4	11	7	15	<10	0.24	102	<5	94	6
102341	1.25	720	6	0.01	57	0.09	5	12	6	24	<10	0.49	258	<5	146	8
102342	3.04	495	3	0.01	155	0.06	3	17	7	11	<10	0.15	98	<5	457	4
102343	1.82	902	15	<0.01	39	0.04	7	<5	9	27	<10	0.16	216	<5	156	6
102344	0.50	470	9	<0.01	23	0.04	8	<5	3	17	<10	0.17	247	<5	202	3
102345	1.70	694	5	<0.01	34	0.06	6	<5	11	30	<10	0.15	123	<5	214	7
102346	0.77	825	7	<0.01	25	0.03	6	<5	4	24	<10	0.31	178	<5	233	3
102347	0.35	456	6	<0.01	20	0.06	5	7	6	19	<10	0.57	259	<5	117	8
102348	0.52	342	5	<0.01	18	0.05	4	<5	8	14	<10	0.37	147	<5	81	20
102349	0.67	320	2	<0.01	10	0.06	3	<5	5	17	<10	0.30	174	<5	34	3
102350	0.89	677	3	0.01	14	0.07	9	<5	4	10	<10	0.29	242	<5	61	3
102351	2.07	477	3	0.01	64	0.05	5	6	6	20	<10	0.25	136	<5	61	3
102352	0.89	680	3	0.01	15	0.08	8	7	4	10	<10	0.29	245	<5	61	2
102353	0.58	503	2	0.01	41	0.09	6	5	4	23	<10	0.36	253	<5	37	4

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
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APPENDIX 3

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
BC 2000	Rock	<5	<0.1	2.17	12	<2	<2	2.46	0.2	18	32	38	4.47	<3	0.03	5
BC 2001	Rock	5	<0.1	2.59	6	22	6	3.91	<0.1	18	45	26	>5.00	<3	0.05	9
BC 2002	Rock	<5	<0.1	2.83	<5	<2	2	2.12	<0.1	18	18	44	4.27	<3	0.10	6
BC 2003	Rock	5	<0.1	2.17	<5	24	<2	5.26	<0.1	9	12	<1	4.66	<3	0.17	9
BC 2004	Rock	5	<0.1	1.63	<5	<2	<2	3.72	<0.1	6	23	<1	4.61	<3	0.13	9

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
2000	1.93	827	1	0.03	13	0.08	8	<5	11	34	<10	0.16	120	<5	89	6
2001	1.60	787	7	0.17	15	0.18	4	5	13	633	<10	0.31	81	<5	109	21
2002	1.52	948	1	0.03	4	0.10	2	<5	10	129	<10	0.23	74	<5	60	14
2003	1.17	1650	2	0.02	9	0.13	2	<5	4	71	<10	0.01	21	<5	62	2
2004	0.89	1237	2	0.02	4	0.13	<2	<5	1	49	<10	0.02	7	<5	50	2

Minimum Detection 0.01 1 1 0.01 1 0.01 2 5 1 1 10 0.01 5 5 1 1  
 Minimum Detection 10.00 10000 1000 5.00 10000 5.00 20000 1000 10000 10000 1000 1.00 10000 1000 20000 10000  
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 = Not Analysed unr = Not Requested ins = Insufficient Sample

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
BC 2005	Rock	<5	<0.1	1.40	<5	12	<2	2.25	<0.1	6	32	3	4.05	<3	0.10	7

Minimum Detection	5	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection	10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
BC 2005	0.72	1028	1	0.03	3	0.09	<2	<5	5	18	<10	<0.01	6	<5	47	<1

Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
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Sample Name	Type	Au ppb	Au oz/st	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %
2006	Rock	10	--	<0.1	1.96	10	<2	<2	0.87	0.3	11	44	10	4.76	<3	0.01
2007	Rock	5	--	<0.1	1.59	8	5	<2	1.77	<0.1	9	105	<1	2.14	<3	0.04
2008	Rock	45	--	<0.1	1.49	6	<2	<2	2.28	<0.1	6	98	<1	1.79	<3	0.02
2009	Rock	<2	--	<0.1	1.84	52	<2	<2	1.15	0.2	53	245	<1	2.38	<3	0.02
2010	Rock	<2	--	<0.1	1.56	32	<2	<2	1.37	<0.1	41	196	<1	1.86	<3	0.09
2011	Rock	10	--	<0.1	2.88	9	<2	<2	1.80	0.1	10	85	<1	4.44	<3	<0.01
2012	Rock	<2	--	<0.1	2.36	10	4	<2	1.64	<0.1	20	27	7	3.26	<3	0.21
2013	Rock	<2	--	<0.1	2.01	8	2	<2	2.14	<0.1	10	56	<1	2.89	<3	0.06
2014	Rock	5	--	0.1	2.61	44	<2	<2	3.22	<0.1	17	129	1	2.76	<3	0.17
2015	Rock	5	--	0.1	3.29	59	<2	<2	2.85	0.1	31	256	<1	2.77	<3	0.37
2016	Rock	<2	--	<0.1	>5.00	62	66	<2	3.47	<0.1	50	24	<1	4.29	<3	0.77
2017	Rock	15	--	<0.1	1.45	8	<2	<2	2.36	<0.1	14	71	<1	1.46	<3	0.01
2018	Rock	<2	--	<0.1	1.96	11	21	<2	1.62	0.1	17	72	<1	2.38	<3	0.04
2019	Rock	65	--	<0.1	1.89	11	<2	<2	1.85	<0.1	19	106	<1	2.18	<3	0.02
2020	Rock	5	--	<0.1	1.91	7	<2	<2	1.74	0.1	8	93	<1	2.60	<3	<0.01
2021	Rock	20	--	<0.1	2.00	8	46	<2	1.23	0.1	12	52	<1	3.22	<3	0.09
2022	Rock	150	--	0.6	2.14	8	31	<2	1.21	<0.1	12	94	<1	3.64	<3	0.06
2023	Rock	5	--	<0.1	3.74	6	106	<2	1.04	0.3	23	19	31	>5.00	<3	1.87
2024	Rock	<2	--	<0.1	1.68	<5	2	<2	3.01	<0.1	7	49	<1	2.68	<3	0.04
2025	Rock	<2	--	<0.1	1.86	<5	<2	<2	2.41	0.1	18	33	45	2.65	<3	0.04
2026	Rock	<2	--	<0.1	2.87	7	22	<2	1.33	0.1	15	38	<1	4.53	<3	0.63
2027	Rock	<2	--	<0.1	2.26	5	19	<2	1.93	0.1	8	40	<1	3.02	<3	0.11
2028	Rock	10	--	<0.1	2.03	5	15	<2	1.81	0.1	8	21	13	2.53	<3	0.06
2029	Rock	<2	--	0.1	3.64	7	58	<2	2.19	0.2	25	11	77	4.02	<3	0.55
2030	Rock	5	--	<0.1	2.69	23	12	<2	3.84	<0.1	9	169	1	0.84	<3	0.16
2031	Rock	<2	--	<0.1	4.10	47	<2	<2	5.86	0.9	18	78	17	4.84	<3	0.14
2032	Rock	<2	--	<0.1	0.22	7	<2	<2	>10.00	0.1	1	4	<1	0.25	<3	0.01
2033	Rock	5	--	1.1	2.02	32	<2	<2	0.74	4.6	473	70	1845	>5.00	<3	0.11
2034	Rock	30	--	<0.1	1.70	5	26	<2	2.19	<0.1	14	43	22	2.75	<3	0.06
2035	Rock	5	--	<0.1	1.77	<5	<2	<2	>10.00	<0.1	2	48	1	5.00	<3	0.01
2036	Rock	<2	--	0.1	0.94	<5	<2	<2	7.28	<0.1	3	11	<1	1.73	<3	0.11
2037	Rock	<2	--	<0.1	1.77	<5	<2	<2	>10.00	<0.1	1	47	10	>5.00	<3	0.01
2038	Rock	<2	--	<0.1	2.72	11	14	<2	2.82	1.1	35	4	111	>5.00	<3	0.41

Minimum Detection	2	0.002	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01
Maximum Detection	10000	1000.000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00
Method	FA/AAS	FAGrav	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
-- = Not Analysed	unr = Not Requested	ins = Insufficient Sample													

Sample Name	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
2006	8	0.95	1241	2	0.08	4	0.13	2	7	8	54	<10	0.22	13	<5	98	11
2007	2	0.88	674	1	<0.01	9	0.10	2	7	6	192	<10	0.16	55	<5	17	5
2008	<2	0.65	916	1	<0.01	9	0.10	2	6	4	197	<10	0.14	43	<5	20	5
2009	<2	1.87	2356	2	0.01	91	0.03	2	10	4	73	<10	0.15	48	<5	46	1
2010	<2	1.33	439	1	0.02	99	0.04	<2	9	3	75	<10	0.16	41	<5	20	4
2011	<2	1.95	2333	2	<0.01	17	0.09	<2	6	8	188	<10	0.12	80	<5	52	3
2012	6	1.47	465	1	0.18	16	0.10	<2	6	4	66	<10	0.28	86	<5	47	4
2013	2	1.17	1388	1	0.02	8	0.04	<2	7	4	277	<10	0.12	42	<5	34	4
2014	4	1.78	1073	2	0.20	49	0.12	<2	8	10	159	<10	0.14	51	<5	38	5
2015	<2	2.46	607	2	0.21	99	0.03	<2	8	4	232	<10	0.18	82	<5	41	4
2016	<2	3.09	594	3	0.46	34	0.08	<2	<5	3	332	<10	0.21	123	<5	53	2
2017	<2	0.81	655	1	<0.01	7	0.08	2	7	3	162	<10	0.11	36	<5	29	3
2018	2	1.69	902	1	<0.01	4	0.07	2	7	5	151	<10	0.18	54	<5	24	6
2019	2	1.17	786	1	<0.01	10	0.08	<2	9	4	200	<10	0.15	53	<5	24	3
2020	<2	1.26	798	1	<0.01	10	0.05	2	8	4	182	<10	0.14	64	<5	27	4
2021	<2	1.33	855	1	0.01	15	0.05	<2	5	8	125	<10	0.17	96	<5	39	2
2022	<2	1.41	981	2	<0.01	15	0.04	2	6	10	126	<10	0.19	85	<5	32	2
2023	<2	2.50	876	2	0.16	20	0.01	<2	<5	18	81	<10	0.25	107	<5	85	3
2024	5	1.57	1067	2	0.06	9	0.16	<2	<5	6	140	<10	0.13	148	<5	38	4
2025	3	1.51	907	2	0.07	11	0.08	<2	<5	4	71	<10	0.17	101	<5	33	3
2026	<2	1.67	1051	2	0.04	14	0.02	<2	<5	8	196	<10	0.21	81	<5	41	4
2027	3	1.49	1219	2	0.15	11	0.08	<2	5	4	120	<10	0.15	103	<5	34	5
2028	3	1.55	722	2	0.09	17	0.09	<2	<5	3	120	<10	0.13	70	<5	31	4
2029	3	1.92	659	2	0.23	13	0.08	2	<5	2	151	<10	0.28	144	<5	49	3
2030	13	0.53	304	1	0.27	14	0.97	2	5	5	299	<10	0.12	86	<5	21	4
2031	3	0.33	84	2	0.13	20	0.17	4	<5	6	264	<10	0.18	84	<5	205	7
2032	<2	0.23	188	1	<0.01	2	0.01	3	<5	<1	317	10	0.03	7	<5	2	<1
2033	<2	0.84	706	4	<0.01	32	0.11	3	7	4	33	43	0.08	74	<5	119	3
2034	3	0.97	802	1	0.02	9	0.10	<2	5	5	165	<10	0.20	47	<5	26	5
2035	<2	0.24	1474	3	<0.01	3	0.02	<2	<5	1	24	<10	0.03	15	<5	3	4
2036	3	0.46	566	2	0.04	1	0.07	<2	<5	1	78	<10	0.05	5	<5	19	1
2037	<2	0.21	1738	2	<0.01	3	0.02	<2	<5	1	23	<10	0.02	8	<5	2	8
2038	<2	1.26	861	3	0.29	8	0.08	3	<5	15	62	<10	0.30	175	<5	154	11

Minimum Detection	2	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10000	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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APPENDIX 4

## RULES FOR CHOICE OF SIZE CODING OR CONTOURING INTERVALS

- (1) Examine both arithmetic and logarithmic histograms for each geochemical survey. Choose the histogram which most closely approximates a normal (or lognormal) distribution. If several populations are present on the histogram, subjectively divide the data into a series of (overlapping ?) normal or lognormal distributions. Always avoid interpreting histograms which are strongly skewed. Portions of arithmetic or logarithmic histograms may be chosen over specific metal concentration intervals, if this allows for the best portrayal of the data in graphitcal form.
- (2) Choose, as two of the coding intervals, points which represent between 90% and 95%, and 95% and 97.5% of the data; two different numbers. These choices highlight from 1 in 10 to 1 in 20 samples which are considered slightly anomalous and definately anomalous, respectively. These limits are optimistic in that the two categories are defined to be anomalous regardless of the distribution of values on the remainder of the histogram. A rigorous statistical approach would suggest that only values above the 97.5 percentile should be considered anomalous. Choice of any of the above percentiles is entirely subjective and meant to highlight the highest values of the survey.
- (3) Divide the remaining portion of the histogram into recognizable populations. The dividing point of each of these populations is chosen as a coding interval. Artifacts introduced as a consequence of detection limit considerations are ignored. These artificial breaks in the histogram can be recognized by referring to the laboratory reports and scanning data results.
- (4) For each population, choose one or two numbers which correspond to the 90% and 95% cumulative frequencies for that population (1 in 10 and 1 in 20 samples for that population). These will also be used to represent anomalous conditions for each population. Coding intervals can be no closer than 2X the detection limit for each element being considered.
- (5) A maximum of six numbers can be chosen to plot symbol maps. This number is dictated by the ability to present data in graphical form with sufficiently different symbol sizes for them to be easily distinguishable, particularly if maps are to be reduced. The seven defined concentration classes are normally sufficient to represent geochemical data on a map. More intervals can be chosen if data are to be contoured. Avoid choosing arithmetic intervals without considering rules (1) and (4).

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APPENDIX 5

CERTIFICATE OF AUTHOR

List of Qualifications - M.E. Caron

B.Sc. 1974 - University of British Columbia (Hons., Geology)

List of Publications

B.Sc. thesis - University of British Columbia (unpublished)

Relevant Experience

1974 to 1985 - field geologist, Duval Corporation, extensive exploration work in the western and southeastern United States.

1985 to 1990 - senior geologist, Battle Mountain Gold Company, exploration carried out primarily in Nevada and British Columbia.

A handwritten signature in black ink, appearing to be 'M.E. Caron', written in a cursive style.

CERTIFICATE OF AUTHOR

List of Qualifications - W.D. Harris

B.Sc. 1987 - University of British Columbia (Geology)

Relevant Experience

1984 to 1986 - geological assistant, St. Joe of Canada Inc. and Orcan Minerals Ltd., field work in northern British Columbia.

1987 to 1990 - geologist, Orcan Minerals Ltd., Harold M. Jones and Associates Inc., World Wide Minerals, B.P. Resources Canada Ltd., Geological Survey of Canada, Minnova Inc., Battle Mountain (Canada) Inc., exploration carried out in British Columbia and Saskatchewan.

*Wade Harris.*



APPENDIX 6

**STATEMENT OF COSTS:**

1. Salaries:	W. Harris (mapping) - 34 days @ \$150/day =	\$5,100.00
	E. MacKenzie (mag, geochemistry) -	
	12 days @ \$150/day =	1,800.00
	22 days @ \$125/day =	2,750.00
	M. Caron (supervision) -	
	3 days @ \$250/day =	750.00
2. Travel and Subsistence:		3,660.79
3. Vehicle Costs:	rental - 34 days @ \$43.34/day =	1,473.56
	fuel	589.98
	repairs	49.00
4. Field Supplies:		2,149.65
5. Geochemistry: analytical (soils)		
	281 samples @ \$11.00 =	3,091.00
	173 samples @ \$12.00 =	2,076.00
	analytical (rocks)	
	39 samples @ \$14.00 =	546.00
	freight	280.80
6. Linecutting: De la Mothe Exploration Ltd.		6,629.26
7. Magnetometer: rental (Scintrex)		1,252.5
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	TOTAL:	\$32,198.57