

Surface Work Performed from July 3, 2009 to April 27, 2010

On the

**Ballarat Property
KIT 3 to 14 (YC07107 to YC07118)
TIK 1 to TIK (YC95394 to YC95333)
Dawson Mining District, Yukon
NTS Sheets 115J14 & 115O3
62°59'N. Lat., 139°04'W. Long.**

Operated by and Recorded to



HINTERLAND METALS INC.

(held under option from Farrell Andersen)

By

**Mark Fekete, P.Geo.
April 27, 2010**

Summary

From July 3, 2009 to April 27, 2010 Hinterland Metals Inc. completed a surface exploration program on the 94-claim (1998ha) Ballarat property located at the headwaters of Ballarat Creek some 100km due south of Dawson City, Yukon. The work included soil geochemical and airborne geophysical surveys, prospecting and rock sampling. The goal of the work was to identify potential gold-bearing structures by outlining geophysical or geochemical trends.

The Ballarat property is held 100% by Hinterland Metals Inc. under the terms of an option agreement with Farrell Anderson subject to a 2% royalty on mineral production. The property is located in an isolated part of Yukon with no local resources or infrastructure. Fuel, supplies and equipment can be barged to a landing on the Yukon River located at the mouth of Ballarat creek. There is also an airstrip at this location. A gravel road built by placer miners leads 11km from the airstrip to the south boundary of the Property.

Previous exploration work on Ballarat is limited. The property covers the southeastern slopes of Thistle Mountain. Historical cumulative placer gold production from creeks draining Thistle Mountain including Ballarat, Thistle, Kirkman, Sparkling and Barker is reported to be 104,604 ounces in the period 1913 to 2006. Quartz or hard rock prospecting in the Thistle Mountain area dates back to the Klondike Gold Rush and has continued sporadically since then. More recently values of 0.925opt Au and 2.2opt Ag were reported from quartz float and values up to 811ppb were obtained from soil samples taken on the 1km by 1km "Near" soil grid.

Ballarat lies within the Yukon-Tanana Terrane which consists of several successions of complexly deformed Late Proterozoic to Late Permian sedimentary and volcanic rocks episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous. Limited mapping on Ballarat indicates that it is underlain by quartzites and quartz-biotite schists to the north and orthogneiss to the south.

Ballarat is located in a recently recognized part of the loosely defined Tintina Gold Belt known as the White Gold district. The underexplored nature of the White Gold district was highlighted by Underworld's discovery of the Saddle and Arc zones in May 2009 approximately 15km north of Ballarat. In a few short months this project went from discovery to a current resource estimate at the Golden Saddle zone of 1,004,570 indicated ounces at 3.2gpt Au and 407,413 inferred ounces at 2.5gpt Au; and at the Arc Zone of 170,470 inferred ounces at 1.2gpt Au.

Hinterland's exploration effort at Ballarat is following an empirical deposit model based on practical survey methods including detailed geochemical surveys to identify anomalous areas and closely spaced, low altitude, helicopter-borne geophysical surveys to assist in interpreting bedrock units, structure, and alteration. Due to the deeply weathered nature of the soils in the unglaciated White Gold district, it is very important to take samples from the deeper C-horizon.

A 360 line kilometer high resolution magnetic and radiometric airborne survey flown on flight lines spaced 100m apart was completed over the entire Ballarat property in August 2009. A 1478-sample soil geochemical survey was completed over the northwest third of the property in July 2009. The soil samples were collected with hand augers at 50m sample intervals along north-south GPS traverse lines spaced 100m apart. The samples were analyzed for 36 elements by ISO 9001-accredited Acme Analytical Laboratories Ltd.

The soil samples returned gold values ranging from below detection limit (i.e. <5ppb Au) to a maximum of 68ppb Au. A total of 70 samples above the 95 percentile (i.e. >10ppb Au) are considered weakly anomalous and 32 samples above the 98 percentile (i.e. >20ppb) are considered moderately anomalous. The most interesting result of the soil geochemical survey is that most of the weakly to moderately anomalous gold values occur in the northwest corner of the Property and appear to trace two parallel, northeast-trending, linear gold anomalies. Each anomaly is roughly 2km long and they are approximately 200m apart. The southern anomaly is less definite, irregular and generally less than 50m wide. The anomalous gold area corresponds to the magnetic low that occurs on the northwestern margin of a circular magnetic high that covers most of the Property. The northern anomaly is better defined, more continuous and averages 100 to 150m wide. It corresponds almost exactly to the sharp margin of a total count high found in this area. There do not seem to be any strong correlations between the elevated gold values and elements commonly associated with gold values. It appears that the average depth of the samples was relatively shallow and did not in general reach the C-horizon. The prospecting and sampling work was very limited and did not return any notable results.

The surface work met its primary goal of outlining geophysical or geochemical trends that may potentially be gold-bearing structures. The two distinct parallel, northeast-trending, linear features located in the northwestern corner of the property are of sufficient merit to continue exploration work. As a first phase, it is recommended that a grid be cut with lines spaced at 100m in the northwest corner of the property and that a C-horizon soil geochemical survey be completed at 25m stations. Prospecting and sampling and, mechanical trenching should also be completed over the grid if possible. The data from this work should provide the confidence to spot a number of drill holes for the second phase of exploration. It is estimated that the first phase will cost \$165,000 and the second phase \$500,000. With a 20% contingency the total estimated cost for both phases is \$798,000.

Certificate of Qualifications

I, Mark Fekete, having my place of residence at 178 Dennison Boulevard in Val d'Or in the Province of Quebec do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986 and I am a Member in good standing of the Order of Geologists of Quebec (OGQ #553) and the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC #31440), and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Ballarat property on numerous occasions including most recently in September 2009;
3. I wrote and I am, as the qualified person, responsible for the contents of this technical report entitled "Surface Work Performed from July 3, 2009 to April 27, 2010 on the Ballarat Property, KIT 3 to 14 (YC07107 to YC07118), TIK 1 to TIK (YC95394 to YC95333), Dawson Mining District, Yukon, NTS Sheets 115J14 & 115O3, 62°59'N. Lat., 139°04'W. Long., Operated by and Recorded to Hinterland Metals Inc. (held under option from Farrell Andersen)," based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an Officer and Director and I beneficially hold a number of shares in Hinterland Metals Inc.;
6. I hold no direct interest in the Ballarat property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared in full compliance with National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 27th day of April, 2010,

(s) "**Mark Fekete**"

Mark Fekete, P.Geo.

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1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was retained by Hinterland Metals Inc. (“Hinterland”) to write a technical report (the “Report”) describing the surface exploration work carried out on the Ballarat property (“Ballarat” or the “Property”) in Yukon during 2009 and compiled in 2010. The Report describes a soil geochemical survey, prospecting and rock sampling. A summary of an airborne geophysical survey completed on the Property in 2009 is also included in the Report and a full description of the airborne survey is included herein as an appendix. The goal of the surface work was to identify potential gold-bearing structures by outlining geophysical or geochemical trends. The Report is based primarily on the results of the work completed on Ballarat in 2009 but also contains information obtained from a review of relevant reports and maps cited throughout the Report.

The author Mark Fekete (the “Author”) has visited and personally inspected the property on numerous occasions. The Author is the designated “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101.

The Report contains specific recommendations and proposes a budget for further work. It fully complies with National Instrument 43-101 although the main purpose of the Report is to complete statutory assessment work filings required under the Yukon Quartz Mining Act.

The metric system is used for all units of measure mentioned in the Report and all dollar amounts are in Canadian funds unless otherwise stated. All figures presented in the Report are plotted in map projection UTM NAD 83, Zone 7 unless otherwise stated.

2. Reliance on Other Experts

The Author may have relied on the technical data and interpretation found in various sources cited throughout the report. The Author may not have verified this information and takes no responsibility for its accuracy or completeness. Reference to the compliance or non-compliance with NI 43-101 standards of historical information and data referred to in this Report are made where appropriate. The Author does not offer any opinion concerning legal, title, environmental, political or other non-technical issues that may be relevant to the Report. The Report may contain links to several web-sites. The Author takes no responsibility for the security, accuracy or availability of these web-sites.

3. Location and Property Description

The Property covers an approximate area of 1998 hectares within the Dawson Mining Division of Yukon. It is located at the headwaters of Ballarat Creek, a tributary of the Yukon River and lies some 100km due south of Dawson City (Figure 1). The approximate centre of the Property is described by 62°59’23” North Latitude and 139°04’05” West Longitude on N.T.S. Sheets 115J14 and 115O05. The Property includes 94 contiguous, un-surveyed mineral titles (Figure 2) more fully described in Appendix A.

On June 19, 2009 Hinterland entered into an option agreement with Farrell Andersen (“Andersen”) of Marsh Lake, Yukon. Under the terms of the option, Hinterland has agreed to pay \$40,000 cash and issue 400,000 shares to Andersen and complete \$500,000 of exploration work scheduled over a three year period to earn a 100% interest in the Property subject to a 2% royalty on mineral production. Hinterland will have the option to purchase 1% of the royalty for \$1 Million and will have the right of first refusal on the remaining 1%. In addition Hinterland has

agreed to pay an advance royalty of \$110,000 upon the completion of a 43-101 compliant report that defines measured or indicated gold resources of 110,000 ounces or more on the Property. The transaction was subject to regulatory approval which was obtained on June 26, 2009.

The claims included in the Property were acquired under the Yukon Quartz Mining Act which grants only the mineral rights to the claim holder. The surface rights for the area of the Property are held by the Crown. To maintain the claims in good standing, a minimum of \$100 assessment work per claim must be completed annually. There are provisions to apply for more than one year work at a time up to a maximum of five years, to apply work from one claim to other adjoining claims (grouping) up to a maximum of 750 claims, to pay cash in lieu of work up to a maximum of five years.

The Quartz Mining Land Use Regulations consist of a classification system based on varying levels of specific activities. These threshold levels categorize exploration activities into four classes of operation. Classes 1 through 4 represent activities with increasing potential to cause adverse environmental impacts.

Activities within a Class 1 program are defined as “grassroots” exploration with low potential to cause adverse environmental effects, and where activities and reclamation are completed within a year. A Class 1 program does not require government approval but the operator must comply with the certain operating conditions. An assessment under the Yukon Environmental and Socio Economic Assessment Act (“YESAA”) is not required for a Class 1 program. The work described in this Report was completed as a Class 1 program.

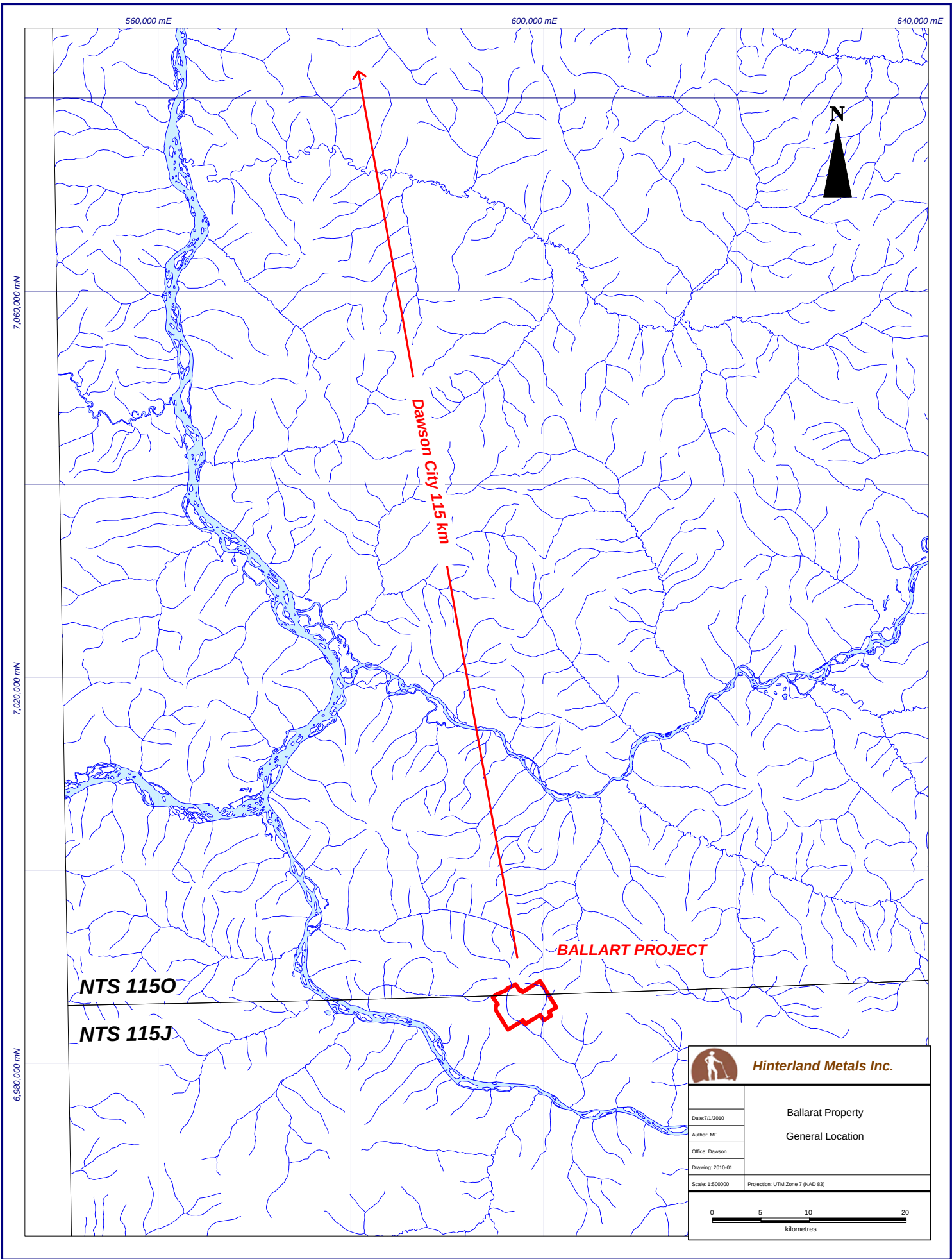
Class 2 programs are considered to represent the upper level of “grassroots” exploration activities. A notification submitted through the Mining Lands Office which outlines the activities and how they will be reclaimed is required. These programs comprise activities that have a moderate potential to cause adverse environmental effects and therefore require an assessment through YESAA. All work and reclamation must be completed within one year.

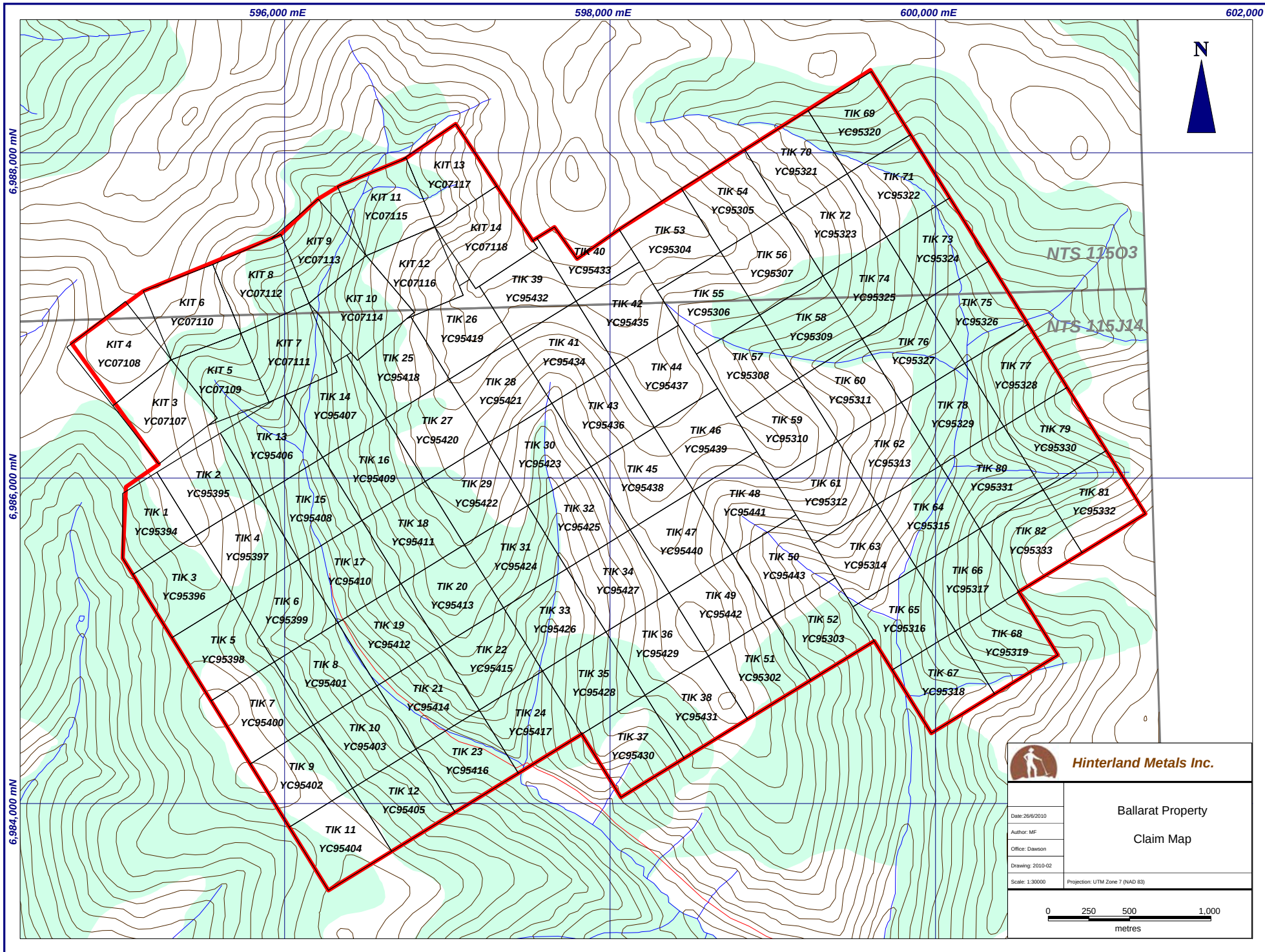
All Class 3 and Class 4 programs require submission of a detailed “Operating Plan” to the Mining Lands Office. A YESAA assessment is required. The Operating Plan must be approved before any exploration activities can be undertaken. Operating Plans may entail multi-year exploration programs to allow greater flexibility for the operator.

4. Accessibility, Local Resources, Infrastructure, Physiography and Climate

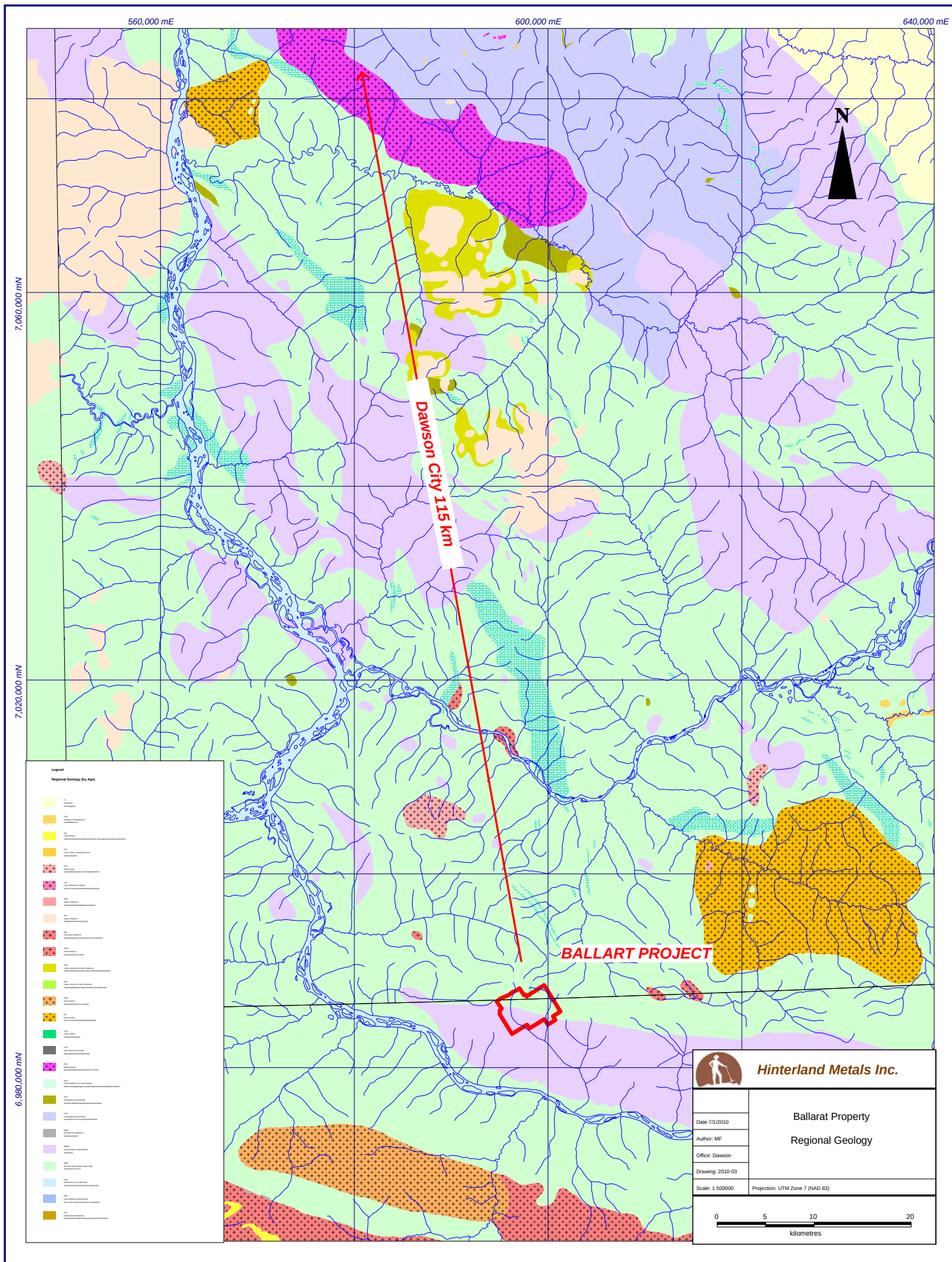
Although the Property is not reachable by road it is relatively accessible compared to other parts of the Dawson City area. Fuel, supplies and equipment can be barged to a landing on the Yukon River located at the mouth of Ballarat creek. There is also an airstrip at this location. A gravel road built by placer miners leads 11km from the airstrip to the south boundary of the Property and a rough trail leads along the west boundary over Thistle Mountain to the Thistle airstrip 20km to the north.

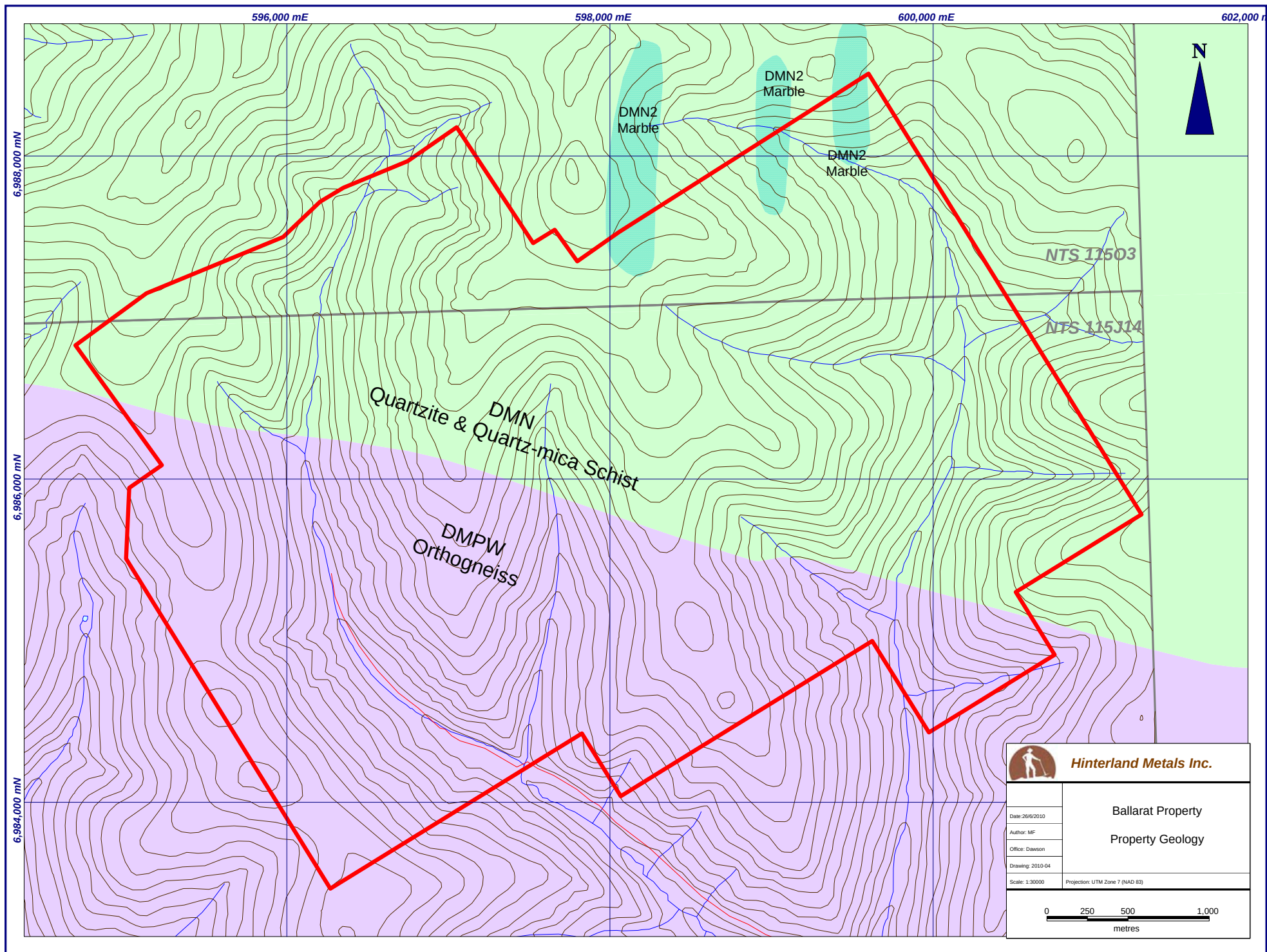
Ballarat is located in an isolated part of Yukon with no local resources or infrastructure. Although it is possible to work the Property from Dawson City by helicopter, it is preferable both in terms of cost and logistics to build a camp on the Property. An exploration camp can be supported either from Whitehorse or Dawson City where a full range of services are locally available including line-cutting, geophysics, drilling, aircraft charters etc.





 Hinterland Metals Inc.	
Ballarat Property Claim Map	
Date: 26/6/2010	
Author: MF	
Office: Dawson	
Drawing: 2010-02	
Scale: 1:30000	Projection: UTM Zone 7 (NAD 83)
	





The Property covers the headwaters of Ballarat Creek in the Dawson Range of Yukon. Unlike most parts of Yukon, the Dawson Range was not affected by the last period of continental glaciations and so it is characterized by low rolling hills incised with steep sided, V-shaped valleys. Bedrock is typically deeply weathered and there is very little (perhaps less than 5%) outcrop exposed; usually on ridges above tree-line or in rare canyons in the creek valleys. Elevations on the Property range from 1200m to 700m above sea level. Most of the Property lies below tree-line and is covered by a typical boreal mixture of pine, spruce, balsam fir, aspen and birch trees and willow and alder brush. North and west slopes are often covered with thick moss blanketing permafrost.

The Dawson City area is characterized by a semi-arid, sub-arctic continental climate with mild to hot summers and cold winters. Precipitation is generally light in the summer and overall clear skies and warm temperatures prevail. Heavy morning fog can be a problem for aircraft especially towards the end of the summer season. Forest fires are common and thick smoke at times may impede exploration work. Maximum snow accumulations in the winter are typically less than one metre. Due to the northerly latitude of the region, summer days are long and winter days very short. The best season for exploration is during the summer months from mid-May to mid-October. Although it is possible to work during the winter months, costs rise exponentially due to cold temperatures, inclement weather and short daylight hours.

5. Exploration History

The following exploration history of the Property has been compiled from the Yukon Energy and Mines and Resources Library and Yukon Geological Survey MINFILE database. There has been limited exploration work on the property. Table 1 below lists all known assessment reports that describe work done within the boundaries of the present Property in whole or in part.

Table 1 - Previous Assessment Work Files

AFR No.	Company	Year	Work	Link
092982	Sparkling Minerals Inc.	1991	Soil Geochem.	092982.pdf
093999	F. Andersen	1999	Soil Geochem.	093999.pdf
094423	F. Andersen	2003	Geophysics	094423.pdf

There are a number of mineral showings documented in the area listed in Table 2 below:

Table 2 - MINFILE Showings

MINFILE No.	MINEFILE Name	Link
115J 060	Tourleary	115J 060
115J 061	Ballarat	115J 061
115O 014	Black Fox	115O 014
115O 015	Agate	115O 015
115O 016	Nonpareil	115O 016

The Property covers the southeastern slopes of Thistle Mountain. Historical cumulative placer gold production from creeks draining Thistle Mountain including Ballarat, Thistle, Kirkman, Sparkling and Barker is reported to be 104,604 ounces in the period 1913 to 2006 (Compiled from Yukon Placer Mining Industry volumes published by Indian and Northern Affairs Canada).

Quartz or hard rock prospecting in the Thistle Mountain area dates back to the Klondike Gold Rush and has continued sporadically since then. Most of this work appears to have concentrated on the Black Fox vein described as a 0.9 m quartz vein with pockets of galena, chalcopyrite and pyrite.

The first documented program of systematic exploration work was completed by Sparkling Minerals Inc. in 1991 (AFR 092982) on the 83-claim FAR, NEAR and BYE property. The goal of the Sparkling work was to locate a bedrock source for the placer gold recovered from the creeks draining Thistle Mountain. The work consisted of contour soil sampling, prospecting and mapping followed by the detailed 1km by 1km “Near” soil grid to cover an area where values of 0.925opt Au and 2.2opt Ag were reported from quartz float (Sample No. 1625) found in Ballarat Creek. The Near soil survey returned values up to 811ppb Au and defined several short, discontinuous gold trends based on a statistical background of 16ppb Au.

The area surrounding the Near soil grid was re-staked as the KIT 3-14 claims by Farrell Andersen in 1998 and a brief prospecting and soil sampling program was completed that year (AFR 093999). In 2003 Andersen completed additional rock sampling and a limited magnetic survey (AFR 094423).

6. Geological Setting

The Property lies within the Yukon-Tanana Terrane which, due to large areas with little or no bedrock exposure and limited modern regional or detailed mapping, remains very poorly understood. Generally it consists of several successions of layered sedimentary and volcanic rocks ranging from Late Proterozoic to Late Permian age that overlay the older Nisling Terrane. These complexly deformed layered rocks have been episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous. The Yukon-Tanana has been subjected to numerous prolonged deformational events including subduction and accretion that has led to significant structural thickening. Imbricated allochthonous terranes such as Slide Mountain Terrane are evidenced by altered ultramafic fragments.

The Property lies within the White Gold district which is underlain primarily by Devonian to Mississippian quartzites and quartz-biotite schists and Late Devonian to Mississippian intermediate to mafic orthogneiss (Figure 3). The area is cut by numerous intrusions that for the most part are classified as Cretaceous. Limited mapping on the Property indicates that it is underlain by quartzites and quartz-biotite schists to the north and orthogneiss to the south (Figure 4).

7. Deposit Types

The White Gold area lies within an underexplored part of the loosely defined Tintina Gold Belt. This metallogical province has past production of 29.9 million ounces and 39.3 million ounces of resources for total gold resources of 69.2 million ounces. Notable gold deposits are Donlin Creek, Ft. Knox, Pogo and Brewery Creek. The underexplored nature of the White Gold district was highlighted by Underworld’s discovery of the Saddle and Arc zones in May 2009 on the White property located 15km north of Ballarat, and more recently by the Supremo discovery on Kaminak’s Coffee property located approximately 20km south of Ballarat.

The White Gold district lies within the larger Dawson Range area where a number of known gold and porphyry copper deposits show a wide range of styles, geological settings and geochemical

associations. Hinterland's exploration effort at Ballarat is not adhering to any firm deposit model but is instead based on practical survey methods that generate drill targets and have led to discoveries by other groups working in the area.

Detailed geochemical surveys have proven to be effective in the area, as shown by Shawn Ryan's work on the White and Coffee properties. The Dawson Range generally shows deeply weathered, oxidized soils in an unglaciated periglacial environment. This simply means that in order to collect soils that best represent the underlying bedrock it is necessary to take relatively deep soil samples that are likely less weathered and less oxidized.

Another useful exploration tool is to fly closely spaced, low altitude, helicopter-borne geophysical surveys to assist in interpreting bedrock units, structure, and alteration.

8. Mineralization

Very little *in situ* mineralization has been identified on Property to date due primarily to the lack of outcrop. A number of quartz veins and quartz breccias have been uncovered with or without disseminated sulphides.

9. 2009 and 2010 Surface Exploration Work

9.1. Introduction

Exploration work in 2009 included an airborne geophysical survey over the entire Property and a soil geochemical survey over the northwest corner. Limited prospecting and sampling was completed as well. In 2010, the 2009 data was compiled into digital maps and this Report was completed. Work commenced on July 9, 2009 and was completed on April 27, 2010. A detailed Statement of Work is included herein as Appendix B.

9.2. Airborne Geophysical Survey

The multi-sensor airborne geophysical survey was completed by Precision Geosurveys Inc. of Vancouver, British Columbia with a helicopter flying grid lines at 100 meter line spacing. A total of 300 line kilometers of data was collected. A high resolution magnetometer system was used to assist in interpreting bedrock units, structure, and alteration. A radiometric system consisting of a multichannel spectrometer with state-of-the-art design and large gamma ray sensing crystals was used to map lithologies and alteration. Included in the Report are coloured summary contour maps for the total field magnetic intensity (Figure 5), total radiometric count (Figure 6), percent potassium (Figure 7), parts per million thorium (Figure 8) and parts per million uranium (Figure 9). A full description and data CD of the airborne geophysical survey is included herein as Appendix E (Volume II).

9.3. Soil Geochemical Sampling and Analytical Procedures

A soil geochemical survey was conducted on the Property over a two week period in July and August 2009 and involved the collection and analysis of 1478 soil samples. The field work was done by geologists Farrell Andersen of Marsh Lake, Yukon and Erin Liebricht of Calgary, Alberta and technicians Casey and Adam Adshead of Whitehorse, Yukon. Mr. Andersen supervised the work and spent several days in early July preparing for the job. The Author spent several days in July 2009 planning the soil traverses and preparing digital maps. The Author also spent several days in August and September 2009 and February 2010 compiling the data and preparing preliminary digital maps. And in April 2010, the Author finalized the digital maps and wrote this Report.

The crew was flown in to the Ballarat strip by fixed wing aircraft on July 15, 2009. From there an ATV was used to move up to a cabin located at the south boundary of the Property. The work was based out of this cabin by foot and ATV. The crew was flown out on July 27, 2009.

A total of 1478 soil samples were collected with hand augers at 50m sample intervals along north-south GPS traverse lines spaced 100m apart. Sample locations were flagged in the field and recorded with Garmin 76CX GPS receivers in map datum UTM NAD 83 Zone 7. Sample locations (Figure 10) and descriptions are included as Appendix C. A data CD is also included. Material sampled varied from clay to sand with some humus samples. Sample depth varied from 5 to 90cm with an average depth of 30cm. The samplers reported that the ground was very rocky and it was often difficult to get material below the B horizon.

Samples were placed in Kraft-type paper bags with the appropriate sample numbers marked in indelible ink. Batches of samples were subsequently dried, sealed in rice bags and shipped to Acme Analytical Laboratories Ltd. ("Acme") in Vancouver, B.C. for analysis. Samples were dried and sieved to -80 mesh size and analyzed for 36 elements (including gold) by 15 gram Aqua Regia digestion, ICP-MS finish (Appendix D). Acme is accredited under ISO 9001.

9.4. Prospecting, Sampling and Analytical Procedures

On September 20 and 21, Mark Fekete, Farrell Anderson and Tom Morgan spent two days prospecting and sampling on the Property. Not much sampling was done due primarily to the lack of outcrop. A total of ten grab samples were collected. Sample locations were flagged in the field and recorded with Garmin 76CX GPS receivers in map datum UTM NAD 83 Zone 7. Samples were placed in plastic sample bags with the appropriate sample numbers marked in indelible ink and sent to Eco-Tech Laboratories ("Eco-Tech") in Kamloops, B.C. for analysis. Rock samples were prepared by crushing 1kg to 80% passing -10 mesh and then pulverizing a 250g sub-sample to 85% passing -200 mesh. From the sub sample a 30g portion was analyzed for gold by fire assay, atomic absorption finish. A 1g portion was analyzed for 30 elements by Aqua Regia digestion, ICP-AES finish (Appendix D). Eco-Tech is accredited under ISO 9001.

9.5. Data Verification

It is the Author's opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the soil and rock samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Author has relied upon the adequacy and accuracy of the analytical results provided by Acme and Eco-Tech. Independent verification of those results has not been undertaken.

9.6. Results

The magnetic survey (Figure 5) clearly shows the Property to be more magnetic to the east and less so to the west. Of particular note is a magnetic low on the margin of a magnetic high located in the northwest corner of the property.

The radiometric survey returned very interesting results as shown by the total count map (Figure 6). Potassium (Figure 7) and Thorium (Figure 8) show essentially identical signatures and appear to the most significant part of the Total Count. Uranium (Figure 9) shows no real patterns. The actual uranium values are less than 100ppm and are generally considered insignificant. A sharp break in the total count divides the southern third of the Property from the northern two-thirds. This break appears to map the contact between quartzites and quartz-biotite schists to the north and orthogneiss to the south. Also of note is a strong break in the total count in the northwest corner of the Property that generally parallels the magnetic low in this area.

The soil samples returned gold values ranging from below detection limit (i.e. <5ppb Au) to a maximum of 68ppb Au. A total of 70 samples above the 95 percentile (i.e. >10ppb Au) are considered weakly anomalous and 32 samples above the 98 percentile (i.e. >20ppb) are considered moderately anomalous. The most interesting result of the soil geochemical survey is that most of the weakly to moderately anomalous gold values occur in the northwest corner of the Property and appear to trace two parallel, northeast-trending, linear gold anomalies (Figure 10).

Each anomaly is roughly 2km long and they approximately 200m apart. The southern anomaly is less definite, irregular and generally less than 50m wide. The anomalous gold area corresponds to the magnetic low that occurs on the northwestern margin of a circular magnetic high that covers most of the Property (Figure 11). The northern anomaly is better defined, more continuous and averages 100 to 150m wide. It corresponds almost exactly to the sharp margin of a total count high found in this area (Figure 12).

There do not seem to be any strong correlations between the elevated gold values and elements commonly associated with gold values. Arsenic shows a weak correlation with gold but the overall arsenic values are very low with a maximum value of only 188ppb As. Similar patterns are seen for antimony, bismuth and silver.

Material sampled varied from clay to sand with some humus samples. Sample depth varied from 5 to 90cm with an average depth of 30cm. The samplers reported that the ground was very rocky and it was often difficult to get material below the B-horizon.

The rock samples did not return any notable gold values. The highest assay was 0.10gpt Au.

10. Adjacent Properties

No gold deposits are known to exist on the properties immediately adjacent to the Property. Significant gold mineralization has been reported approximately 15km due north of Ballarat at Kinross's White Gold deposit with a current resource estimation at the Golden Saddle zone of 1,004,570 indicated ounces at 3.2gpt Au and 407,413 inferred ounces at 2.5gpt Au; and at the Arc Zone of 170,470 inferred ounces at 1.2gpt Au (Underworld Press Release - January 19, 2010). Kaminak's discovery hole of 15.5m over 17.1gpt Au at the Supremo zone (Kaminak Press Release - May 26, 2010) is located about 20km southwest of Ballarat.

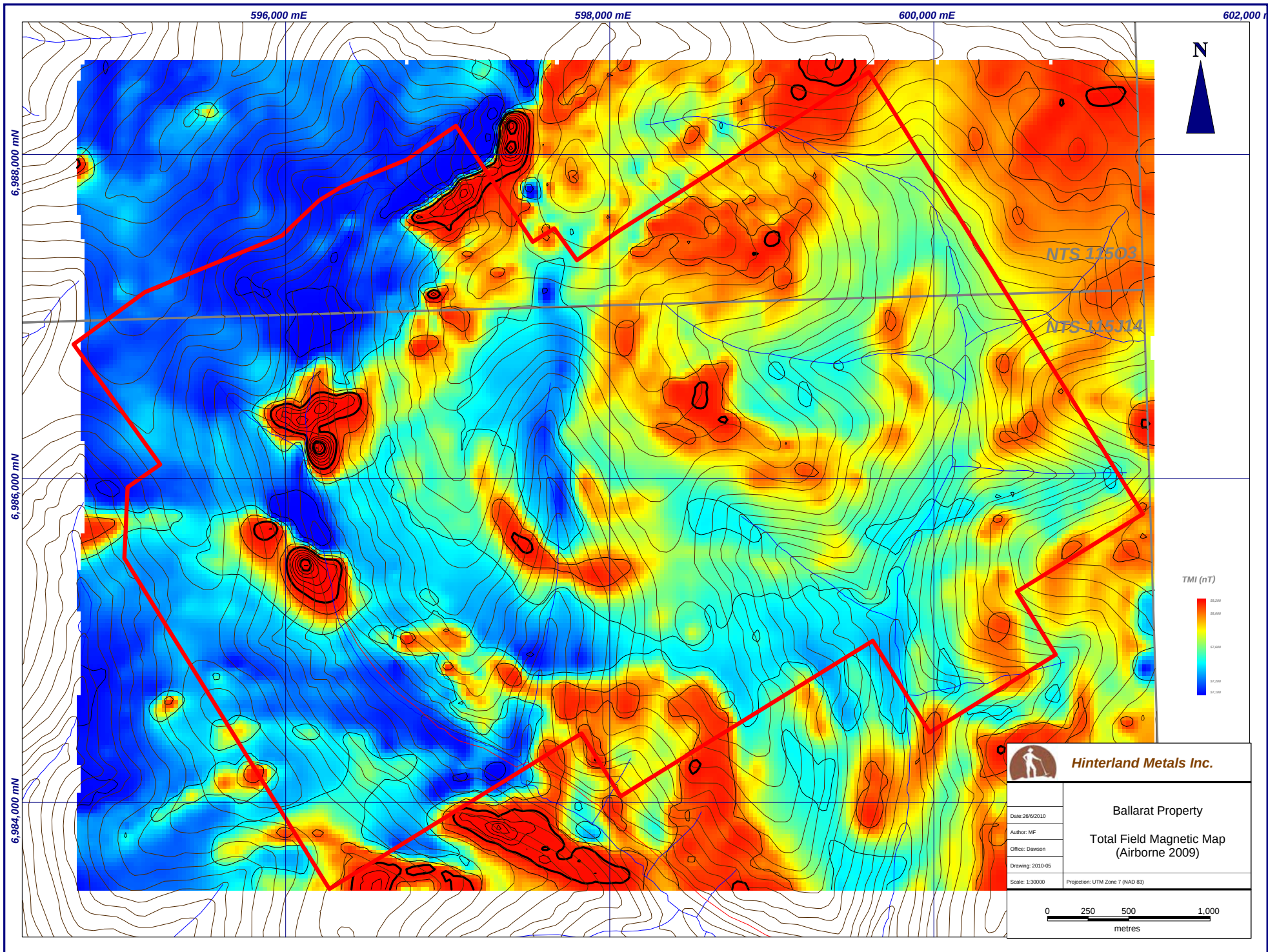
The Author has not verified the information made public on these adjacent properties and cautions that **any such information is not necessarily indicative of the mineralization on the Ballarat property**. However, this information does indicate that the White Gold district is an underexplored area that has solid potential for hosting significant gold deposits.

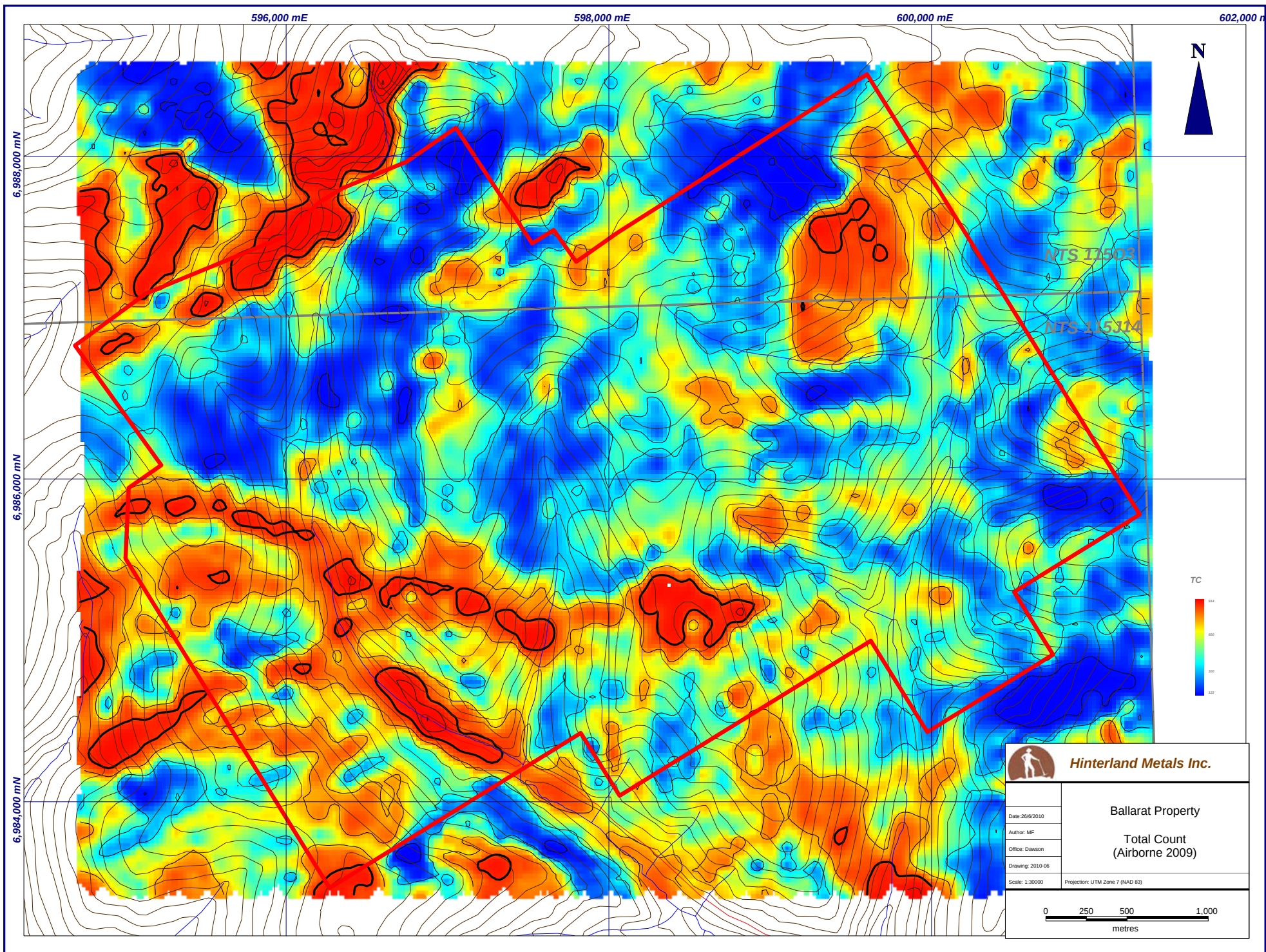
11. Mineral Processing and Metallurgical Testing

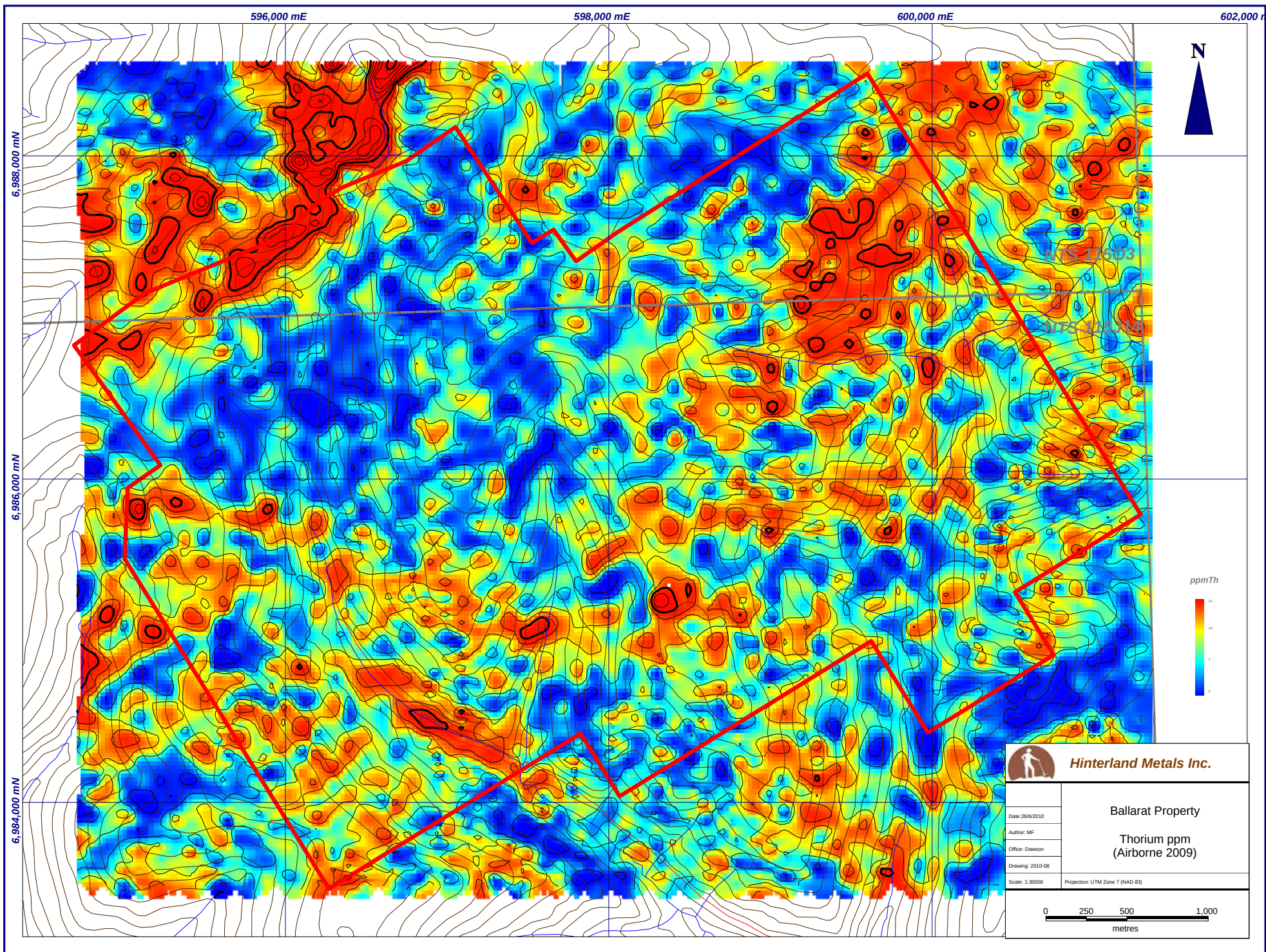
To date no mineral processing or metallurgical testing has been completed at Ballarat.

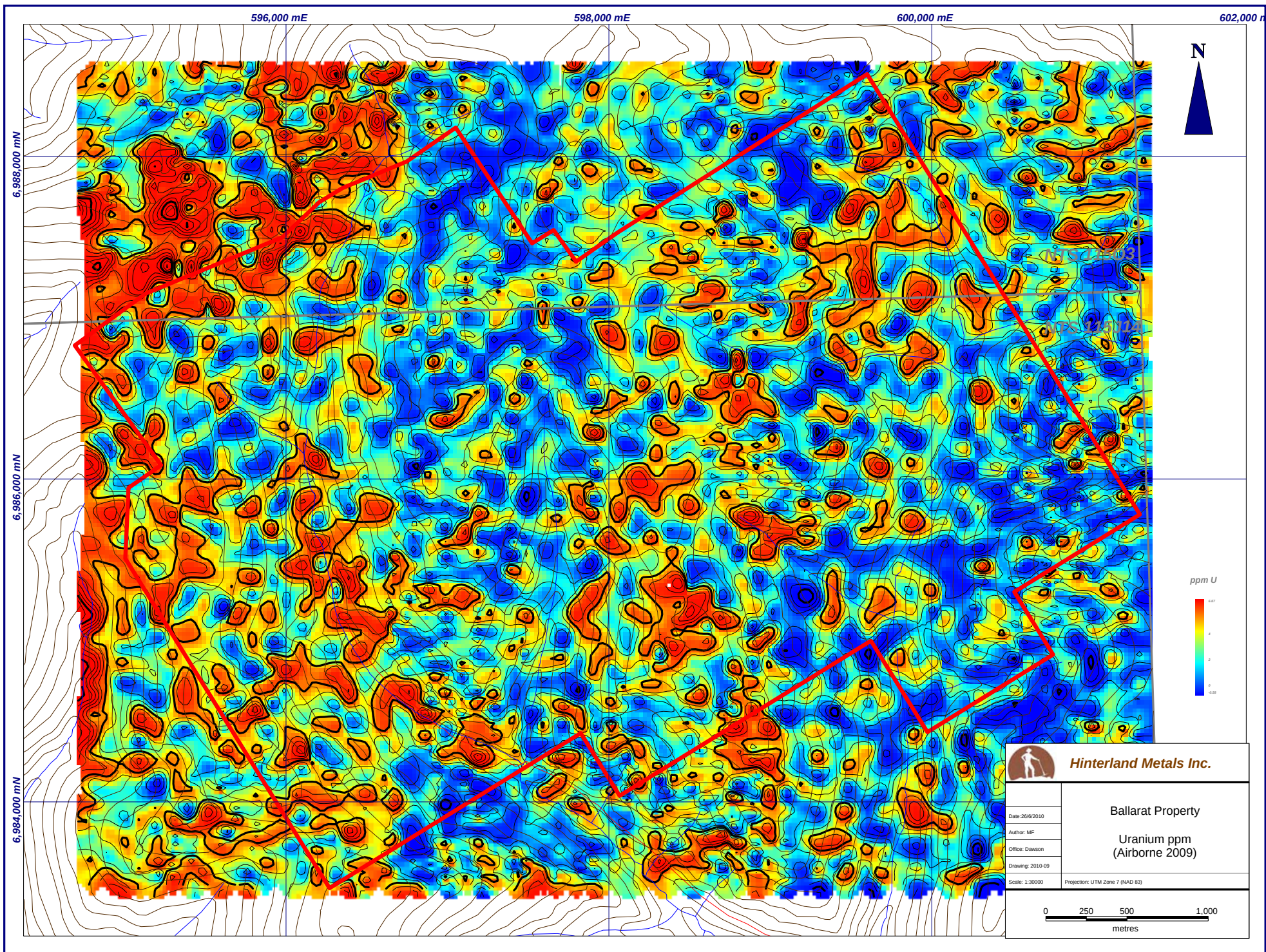
12. Mineral Resource and Mineral Reserve Estimates

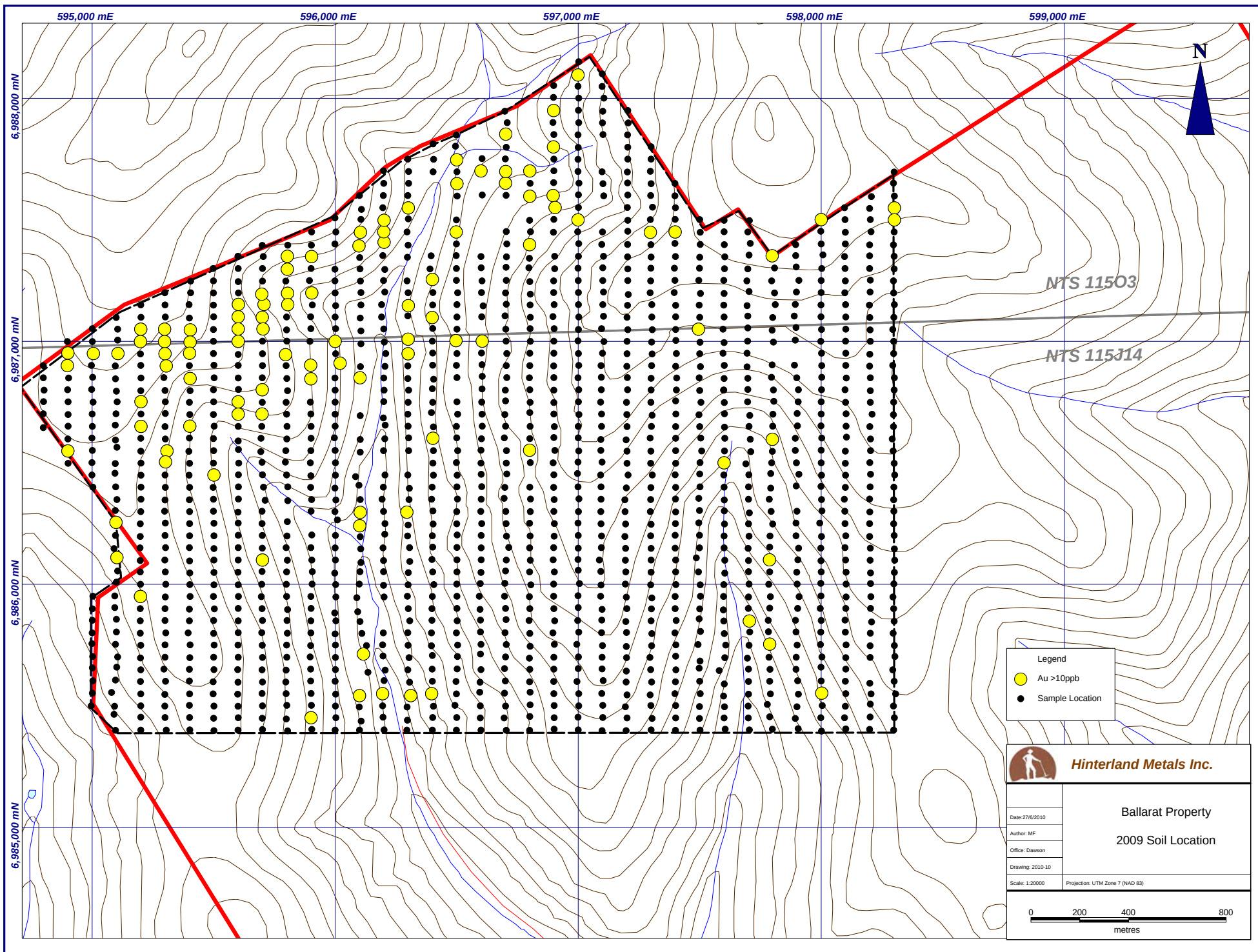
To date no mineral resource or mineral reserve estimates have been completed at Ballarat. The Property is at a "grassroots" level of exploration such that it is too early to make any resource or reserve estimates.

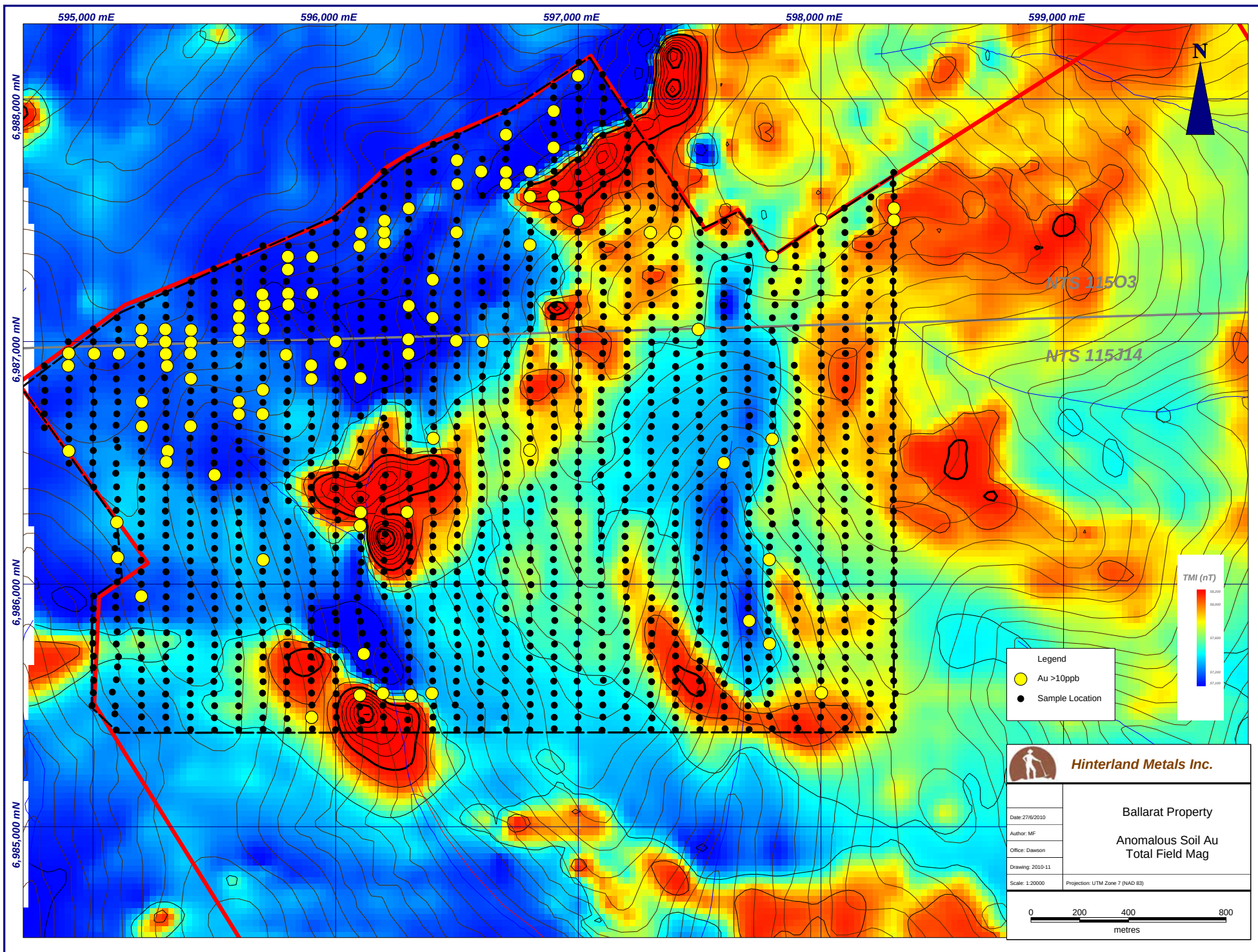


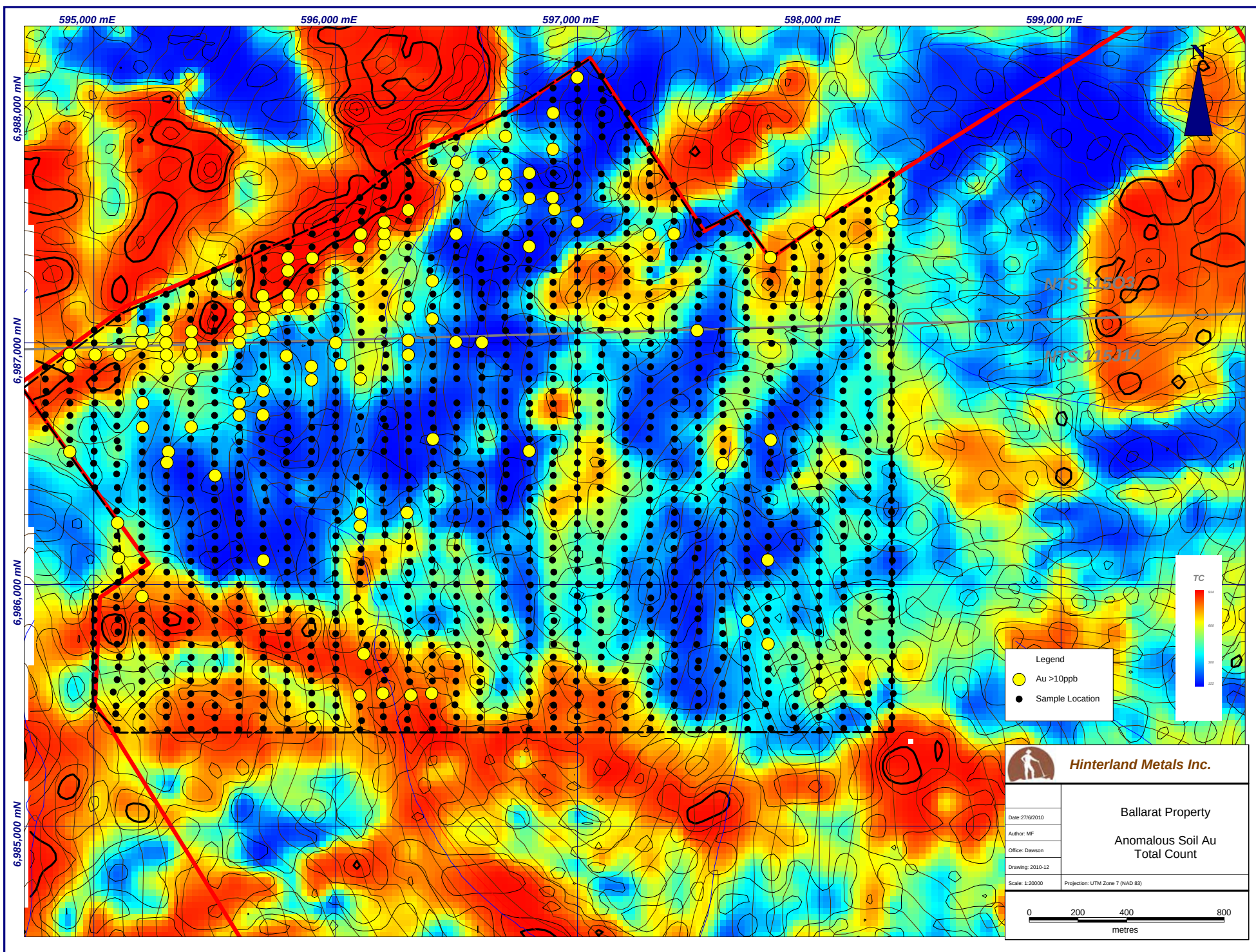












13. Other Relevant Data and Information

The Author is not aware of any other relevant data and information or explanation to make this report more understandable and not misleading.

14. Interpretation of Results and Conclusions

Overall the gold in soil results are not spectacular. However, together they do identify two distinct parallel, northeast-trending, linear features in the northwestern corner of the Property at the very headwaters of Ballarat Creek. This is the same general area of the Near grid where gold in soil values up to 811ppm Au were reported by previous workers. This area of the Property is marked by a magnetic low bounded to the south by a strong magnetic break. The northernmost of the two gold trends corresponds to the sharp margin of a total count high. Furthermore these trends line-up with and may be related to the gold mineralization known at the Black Fox showing (Minfile 115O 014) located about 400m northeast of the northeastern extent of the soil geochemical survey. Finally, it appears that the 2009 survey did not sample the deeper, less weathered, less oxidized, more representative C-horizon of the soil profile (Shawn Ryan, personal communication). It is probable that deeper sampling would have resulted in quantitatively higher gold results and better defined geochemical trends. The prospecting and sampling work was very limited and did not return any notable results.

15. Recommendations

The surface work met its primary goal of outlining geophysical or geochemical trends that may potentially be gold-bearing structures. It is the Author's opinion that the Ballarat property is of sufficient merit to recommend that exploration continue with an aggressive two-phase program. More exploration work is required at Ballarat before drill targets can be chosen. As a first phase it is recommended that a detailed grid be cut with lines spaced at 100m in the northwest corner of the Property and that a soil geochemical survey at 25m stations be completed over the grid. Collecting deeper C-horizon samples must be emphasized for this survey. Prospecting and sampling and, mechanical trenching should also be completed over the grid if possible. The data from this work should provide the confidence to spot a number of drill holes for the second phase of exploration. It is estimated that the first phase will cost \$165,000 and the second phase \$500,000. With a 20% contingency the total estimated cost for both phases is \$798,000 as outlined as follows:

Table 3 - Estimated Budget

Phase I					
Grid	35	km @	\$2,000	per km	\$70,000
Geochemical Survey	1100	samples @	\$50	per sample	\$55,000
Prospecting	10	days @	\$1,500	per day	\$15,000
Trenching	5	days @	\$5,000	per day	\$25,000
Phase II					\$165,000.00
Drilling	1000	m @	\$500	per m	\$500,000
					\$665,000
Contingency	~20%				
					\$133,000
					\$798,000

Appendix A – List of Claims

APPENDIX A - LIST OF CLAIMS

District	Option	NTS Sheet	Type	Grant No.	Claim Name	Claim No.	Expiry Date
Dawson	Andersen	115J14	Quartz	YC07107	KIT	3	1-May-15
Dawson	Andersen	115J14	Quartz	YC07108	KIT	4	1-May-15
Dawson	Andersen	115J14	Quartz	YC07109	KIT	5	1-May-15
Dawson	Andersen	115O03	Quartz	YC07110	KIT	6	1-May-15
Dawson	Andersen	115O03	Quartz	YC07111	KIT	7	1-May-15
Dawson	Andersen	115O03	Quartz	YC07112	KIT	8	1-May-15
Dawson	Andersen	115O03	Quartz	YC07113	KIT	9	1-May-15
Dawson	Andersen	115O03	Quartz	YC07114	KIT	10	1-May-15
Dawson	Andersen	115O03	Quartz	YC07115	KIT	11	1-May-15
Dawson	Andersen	115O03	Quartz	YC07116	KIT	12	1-May-15
Dawson	Andersen	115O03	Quartz	YC07117	KIT	13	1-May-15
Dawson	Andersen	115O03	Quartz	YC07118	KIT	14	1-May-15
Dawson	Andersen	115J14	Quartz	YC95394	Tik	1	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95395	Tik	2	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95396	Tik	3	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95397	Tik	4	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95398	Tik	5	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95399	Tik	6	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95400	Tik	7	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95401	Tik	8	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95402	Tik	9	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95403	Tik	10	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95404	Tik	11	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95405	Tik	12	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95406	Tik	13	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95407	Tik	14	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95408	Tik	15	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95409	Tik	16	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95410	Tik	17	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95411	Tik	18	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95412	Tik	19	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95413	Tik	20	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95414	Tik	21	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95415	Tik	22	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95416	Tik	23	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95417	Tik	24	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95418	Tik	25	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95419	Tik	26	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95420	Tik	27	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95421	Tik	28	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95422	Tik	29	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95423	Tik	30	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95424	Tik	31	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95425	Tik	32	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95426	Tik	33	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95427	Tik	34	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95428	Tik	35	4-Jun-15

District	Option	NTS Sheet	Type	Grant No.	Claim Name	Claim No.	Expiry Date
Dawson	Andersen	115J14	Quartz	YC95429	Tik	36	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95430	Tik	37	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95431	Tik	38	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95432	Tik	39	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95433	Tik	40	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95434	Tik	41	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95435	Tik	42	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95436	Tik	43	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95437	Tik	44	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95438	Tik	45	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95439	Tik	46	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95440	Tik	47	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95441	Tik	48	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95442	Tik	49	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95443	Tik	50	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95302	Tik	51	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95303	Tik	52	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95304	Tik	53	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95305	Tik	54	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95306	Tik	55	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95307	Tik	56	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95308	Tik	57	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95309	Tik	58	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95310	Tik	59	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95311	Tik	60	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95312	Tik	61	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95313	Tik	62	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95314	Tik	63	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95315	Tik	64	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95316	Tik	65	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95317	Tik	66	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95318	Tik	67	4-Jun-15
Dawson	Andersen	115J14	Quartz	YC95319	Tik	68	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95320	TIK	69	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95321	TIK	70	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95322	TIK	71	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95323	TIK	72	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95324	TIK	73	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95325	TIK	74	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95326	TIK	75	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95327	TIK	76	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95328	TIK	77	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95329	TIK	78	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95330	TIK	79	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95331	TIK	80	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95332	TIK	81	4-Jun-15
Dawson	Andersen	115O03	Quartz	YC95333	TIK	82	4-Jun-15

Appendix B – Statement of Work Expenditures

Ballarat 2009 (2)

Supplier	Invoice	Date	Geochem	Geophysics	Prospecting & Property Exam	Name Position	Date From	Date To	Rate		
			Wages & Contract	Wages & Contract	Wages & Contract						
			5150	5250	5550						
Boomerang Expl.	2009-006	07/30/09	\$ 852.50			Farrell Andersen Geologist	3-Jul-09	14-Jul-09	15.5	hours @	\$ 55.00
			\$ 180.00			Farrell Andersen Geologist	3-Jul-09	14-Jul-09	2	hours @	\$ 90.00
			\$ 7,605.00			Farrell Andersen Geologist	15-Jul-09	27-Jul-09	13	days @	\$ 585.00
			\$ 4,875.00			Casey Adshead, Tech	15-Jul-09	27-Jul-09	13	days @	\$ 375.00
			\$ 4,875.00			Adam Adshead, Tech	15-Jul-09	27-Jul-09	13	days @	\$ 375.00
			\$ 4,875.00			Erin Liebreicht, Geologiist	15-Jul-09	27-Jul-09	13	days @	\$ 375.00
			\$ 23,262.50								
BXM	556	07/31/09	\$ 3,600.00			Mark Fekete, Geologist	3-Jul-09	30-Jul-09	6	days @	\$ 600.00
BXM	559	08/31/09	\$ 900.00	\$ 1,200.00		Mark Fekete, Geologist	1-Aug-09	25-Aug-09	3.5	days @	\$ 600.00
BXM	564	09/30/09			\$ 4,875.00	Mark Fekete, Geologist	19-Sep-09	28-Sep-09	6.5	days @	\$ 750.00
Boomerang Expl.	2009-007	10/01/09			\$ 877.50	Farrell Andersen Geologist	20-Sep-09	3-Oct-09	1.5	days @	\$ 585.00
Precision	912	12/04/09		\$ 25,200.00		Survey	31-Aug-09	1-Sep-09	360	km @	\$ 70.00
				\$ 3,000.00		Processing	2-Sep-09	30-Nov-09			
				\$ 28,200.00							
Boomerang Expl.	2009-008	12/11/09	\$ 750.00			Farrell Andersen Geologist	11-Dec-09		1	days @	\$ 750.00
BXM	580	12/31/09	\$ 750.00			Mark Fekete, Geologist	10-Dec-09		1	days @	\$ 750.00
BXM	592	02/25/10	\$ 3,000.00			Mark Fekete, Geologist	5-Feb-10	15-Feb-10	4	days @	\$ 750.00
BXM	602	04/30/10	\$ 3,750.00			Mark Fekete, Geologis	19-Apr-10	27-Apr-10	5	days @	\$ 750.00
Totals			\$ 36,012.50	\$ 29,400.00	\$ 5,752.50						

Statment of Work Ballarat 2009 2010.xls

Supplier	Invoice	Date		Geochem								Total
				Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Other	Total
Name	Ref No.	Date	Month	5150	5151	5152	5153	5154	5155	5156	5157	Total
Alkan Air Ltd	7784-08	07/15/09	07-09				5608.00					5608.00
Alkan Air Ltd	7523-08	07/15/09	07-09				1785.00					1785.00
Copie Tech	47971	07/17/09	07-09						22.40			22.40
Small's Epediting Services	K2051	07/20/09	07-09	250.00								250.00
Alkan Air Ltd	7278-09	07/27/09	07-09				5600.00					5600.00
Small's Epediting Services	K2098	07/28/09	07-09			929.68						929.68
Small's Epediting Services	K2099	07/28/09	07-09				800.00					800.00
Intergraphics	85560	07/29/09	07-09						121.00			121.00
Boomerang Expl.	2009-006	07/30/09	07-09	23262.50		1526.00	1365.00	1340.00	32.00			27525.50
Edgewater Hotel	8340	07/30/09	07-09				199.00					199.00
Small's Epediting Services	K2149	07/31/09	07-09	150.00								150.00
BXM	556	07/31/09	07-09	3600.00	724.06		930.69		171.05			5425.80
Intierra	275-09	08/17/09	08-09						2500.00			2500.00
Small's Epediting Services	K2247	08/18/09	08-09	25.00								25.00
BXM	559	08/31/09	08-09	900.00			759.40	1250.00				2909.40
Small's Epediting Services	K2361	08/31/09	08-09	25.00								25.00
Alkan Air Ltd	8735-06A	09/07/09	09-09									0.00
Acmelabs	VANIO29912	09/09/09	09-09							5985.00		5985.00
Acmelabs	VANIO29917	09/09/09	09-09							6300.00		6300.00
Acmelabs	VANIO29918	09/09/09	09-09							5232.50		5232.50
Acmelabs	VANIO29919	09/09/09	09-09							2030.00		2030.00
Acmelabs	VANIO29949	09/09/09	09-09							6317.50		6317.50
Copie Tech	48212	09/18/09	09-09									0.00
Heli Dynamics	9015	09/20/09	09-09									0.00
Small's Epediting Services	K2460	09/21/09	09-09									0.00
Heli Dynamics	9016	09/21/09	09-09									0.00
Heli Dynamics	9017	09/22/09	09-09									0.00
Acmelabs	VANIO31770	09/22/09	09-09									0.00
BXM	564	09/30/09	09-09				244.94					244.94
Boomerang Expl.	2009-007	10/01/09	10-09									0.00
Eco Tech Laboratory Ltd.	AW09-8136	10/15/09	10-09									0.00
Precision	912	12/04/09	12-09									0.00
Boomerang Expl.	2009-008	12/11/09	12-09								1001.00	1001.00
BXM	580	12/31/09	12-09	750.00								750.00
Intierra	125-10	01/15/10	01-10						2500.00			2500.00
BXM	592	02/25/10	02-10	3000.00	2212.49		1784.91		125.95			7123.35
BXM	602	04/30/10	4/10	3750.00								3750.00
Totals				35,712.50	2,936.55	2,455.68	19,076.94	2,590.00	5,472.40	25,865.00	1,001.00	95,110.07
								Total Soil Geochem			95,110.07	95,110.07

Supplier	Invoice	Date		Geophysics								Total
				Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Other	Total
Name	Ref No.	Date	Month	5250	5251	5252	5253	5254	5255	5256	5257	Total
Alkan Air Ltd	7784-08	07/15/09	07-09									0.00
Alkan Air Ltd	7523-08	07/15/09	07-09									0.00
Copie Tech	47971	07/17/09	07-09									0.00
Small's Eediting Services	K2051	07/20/09	07-09									0.00
Alkan Air Ltd	7278-09	07/27/09	07-09									0.00
Small's Eediting Services	K2098	07/28/09	07-09									0.00
Small's Eediting Services	K2099	07/28/09	07-09									0.00
Intergraphics	85560	07/29/09	07-09									0.00
Boomerang Expl.	2009-006	07/30/09	07-09									0.00
Edgewater Hotel	8340	07/30/09	07-09									0.00
Small's Eediting Services	K2149	07/31/09	07-09									0.00
BXM	556	07/31/09	07-09									0.00
Intierra	275-09	08/17/09	08-09									0.00
Small's Eediting Services	K2247	08/18/09	08-09									0.00
BXM	559	08/31/09	08-09	1200.00								1200.00
Small's Eediting Services	K2361	08/31/09	08-09									0.00
Alkan Air Ltd	8735-06A	09/07/09	09-09				998.75					998.75
Acmelabs	VANIO29912	09/09/09	09-09									0.00
Acmelabs	VANIO29917	09/09/09	09-09									0.00
Acmelabs	VANIO29918	09/09/09	09-09									0.00
Acmelabs	VANIO29919	09/09/09	09-09									0.00
Acmelabs	VANIO29949	09/09/09	09-09									0.00
Copie Tech	48212	09/18/09	09-09									0.00
Heli Dynamics	9015	09/20/09	09-09									0.00
Small's Eediting Services	K2460	09/21/09	09-09									0.00
Heli Dynamics	9016	09/21/09	09-09									0.00
Heli Dynamics	9017	09/22/09	09-09									0.00
Acmelabs	VANIO31770	09/22/09	09-09									0.00
BXM	564	09/30/09	09-09				1294.59					1294.59
Boomerang Expl.	2009-007	10/01/09	10-09									0.00
Eco Tech Laboratory Ltd.	AW09-8136	10/15/09	10-09									0.00
Precision	912	12/04/09	12-09	28200.00								28200.00
Boomerang Expl.	2009-008	12/11/09	12-09									0.00
BXM	580	12/31/09	12-09									0.00
Intierra	125-10	01/15/10	01-10									0.00
BXM	592	02/25/10	02-10									0.00
BXM	602	04/30/10	4/10									0.00
Totals				29,400.00	0.00	0.00	2,293.34	0.00	0.00	0.00	0.00	31,693.34
								Total Airborne Geophysics			31,693.34	31,693.34

Supplier	Invoice	Date		Prospecting & Property Exam								Total
				Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Other	Total
Name	Ref No.	Date	Month	5550	5551	5552	5553	5554	5555	5556	5557	Total
Alkan Air Ltd	7784-08	07/15/09	07-09									0.00
Alkan Air Ltd	7523-08	07/15/09	07-09									0.00
Copie Tech	47971	07/17/09	07-09									0.00
Small's Eediting Services	K2051	07/20/09	07-09									0.00
Alkan Air Ltd	7278-09	07/27/09	07-09									0.00
Small's Eediting Services	K2098	07/28/09	07-09									0.00
Small's Eediting Services	K2099	07/28/09	07-09									0.00
Intergraphics	85560	07/29/09	07-09									0.00
Boomerang Expl.	2009-006	07/30/09	07-09									0.00
Edgewater Hotel	8340	07/30/09	07-09									0.00
Small's Eediting Services	K2149	07/31/09	07-09									0.00
BXM	556	07/31/09	07-09									0.00
Intierra	275-09	08/17/09	08-09									0.00
Small's Eediting Services	K2247	08/18/09	08-09									0.00
BXM	559	08/31/09	08-09									0.00
Small's Eediting Services	K2361	08/31/09	08-09									0.00
Alkan Air Ltd	8735-06A	09/07/09	09-09									0.00
Acmelabs	VANIO29912	09/09/09	09-09									0.00
Acmelabs	VANIO29917	09/09/09	09-09									0.00
Acmelabs	VANIO29918	09/09/09	09-09									0.00
Acmelabs	VANIO29919	09/09/09	09-09									0.00
Acmelabs	VANIO29949	09/09/09	09-09									0.00
Copie Tech	48212	09/18/09	09-09				4243.23		223.50			4466.73
Heli Dynamics	9015	09/20/09	09-09									0.00
Small's Eediting Services	K2460	09/21/09	09-09	50.00								50.00
Heli Dynamics	9016	09/21/09	09-09				3221.78					3221.78
Heli Dynamics	9017	09/22/09	09-09				4410.00					4410.00
Acmelabs	VANI031770	09/22/09	09-09							309.44		309.44
BXM	564	09/30/09	09-09	4875.00	1011.08		1449.45		262.35			7597.88
Boomerang Expl.	2009-007	10/01/09	10-09	877.50			540.65					1418.15
Eco Tech Laboratory Ltd.	AW09-8136	10/15/09	10-09							305.50		305.50
Precision	912	12/04/09	12-09									0.00
Boomerang Expl.	2009-008	12/11/09	12-09									0.00
BXM	580	12/31/09	12-09									0.00
Intierra	125-10	01/15/10	01-10									0.00
BXM	592	02/25/10	02-10									0.00
BXM	602	04/30/10	4/10									0.00
Totals				5,802.50	1,011.08	0.00	13,865.11	0.00	485.85	614.94	0.00	21,779.48
								Total Prospecting			21,779.48	21,779.48

Appendix C – Sample Locations and Descriptions

Soils 2009 Ballarat.xls

Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6000	1300	2700	595096	6985399			SAND	BROWN	Y	27	17-Jul-09	NL	None
6001	1300	2750	595090	6985465			CLAY	BROWN	N	30	17-Jul-09	NL	None
6002	1300	2800	595092	6985498			CLAY	BROWN	N	35	17-Jul-09	NL	None
6003	1300	2850	595080	6985555			CLAY	BROWN	N	30	17-Jul-09	NL	None
6004	1300	2900	595096	6985606			CLAY	BROWN	Y	40	17-Jul-09	NL	Mica schist pebbles present in soil
6005	1300	2950	595101	6985659			SAND	BROWN	N	25	17-Jul-09	NL	None
6006	1300	3000	595105	6985701			SAND	BROWN	N	40	17-Jul-09	NL	None
6007	1300	3050	595096	6985753			SAND	BROWN	N	35	17-Jul-09	NL	Rusty mica schist float
6008	1300	3100	595100	6985804			TALUS	BROWN	Y	20	17-Jul-09	NL	Moss covered TALUS, hard to get below rock
6009	1300	3150	595100	6985856			CLAY	BROWN	N	30	17-Jul-09	NL	None
6010	1300	3200	595093	6985904			SAND	BROWN	N	40	17-Jul-09	NL	None
6011	1300	3250	595093	6985952			CLAY	BROWN	N	20	17-Jul-09	NL	None
6012	1300	3300	595100	6986009			CLAY	BROWN	N	25	17-Jul-09	NL	None
6013	1300	3350	595105	6986055			CLAY	GREY	N	35	17-Jul-09	NL	None
6014	1300	3400	595102	6986110			SAND	BROWN	Y	90	17-Jul-09	NL	None
6015	1300	3450	595090	6986147			SAND	RUSTY	N	20	17-Jul-09	NL	None
6016	1300	3500	595096	6986201			SAND	BROWN	Y	15	17-Jul-09	NL	Moss covered rock, hard to get deep sample
6017	1300	3550	595098	6986255			CLAY	BROWN	Y	20	17-Jul-09	NL	None
6018	1300	3600	595095	6986304			CLAY	RUSTY	N	20	17-Jul-09	NL	Mica schist rock chips
6019	1300	3650	595102	6986349			SAND	RUSTY	Y	25	17-Jul-09	NL	None
6020	1300	3700	595097	6986401			SAND	RUSTY	N	20	17-Jul-09	NL	None
6021	1300	3750	595094	6986457			CLAY	BROWN	N	30	17-Jul-09	NL	None
6022	1300	3800	595095	6986497			CLAY	RUSTY	N	30	17-Jul-09	NL	None
6023	1300	3850	595102	6986564			CLAY	RUSTY	N	30	17-Jul-09	NL	None
6024	1300	3900	595096	6986594			CLAY	RUSTY	N	30	17-Jul-09	NL	None
6025	1300	3950	595095	6986655			CLAY	RUSTY	N	35	17-Jul-09	NL	None
6026	1300	4000	595098	6986702			CLAY	RUSTY	Y	40	17-Jul-09	NL	None
6027	1300	4050	595103	6986751			CLAY	RUSTY	Y	25	17-Jul-09	NL	None
6028	1300	4100	595100	6986795			CLAY	RUSTY	N	40	17-Jul-09	NL	None
6029	1300	4150	595096	6986846			CLAY	RUSTY	Y	40	17-Jul-09	NL	Muscovite rock chips in soil
6030	1300	4200	595095	6986899			CLAY	RUSTY	Y	40	17-Jul-09	NL	None
6031	1300	4250	595106	6986950			CLAY	BROWN	N	30	17-Jul-09	NL	None
6032	1300	4300	595105	6987005			CLAY	BROWN	Y	20	17-Jul-09	NL	None
6033	1300	4350	595105	6987050			CLAY	GREY	Y	40	17-Jul-09	NL	None
6034	1300	4400	595099	6987098			CLAY	GREY	Y	45	17-Jul-09	NL	None
6035	2100	4750	595903	6987450	1075.8		HUMUS	TAN	N	30	18-Jul-09	NL	Very rocky under moss, sample mostly top soil
6036	2100	4700	595902	6987396			SAND	GREY	N	30	18-Jul-09	NL	Biotite schist, good
6037	2100	4650	595903	6987349	1039.5		CLAY	BROWN	Y	60	18-Jul-09	NL	None
6038	2100	4600	595901	6987300	1021.8		SAND	GREY	Y	30	18-Jul-09	NL	Old flagging visible from station
6039	2100	4550	595894	6987250	1000.6		SAND	BROWN	N	35	18-Jul-09	NL	Old flagging visible from station
6040	2100	4500	595904	6987199	969.1		CLAY	BROWN	N	35	18-Jul-09	NL	None
6041	2100	4450	595906	6987150	967		CLAY	RUSTY	N	50	18-Jul-09	NL	None
6042	2100	4400	595899	6987101			CLAY	BROWN	Y	50	18-Jul-09	NL	Amphibolite rock chips with visible py
6043	2100	4350	595900	6987052	993.6		SAND	BROWN	Y	50	18-Jul-09	NL	Mafic mica schist float, very rocky slope
6044	2100	4300	595896	6987000	997		SAND	BROWN	N	40	18-Jul-09	NL	None
6046	2100	4200	595899	6986902	992		CLAY	GREY	N	35	18-Jul-09	NL	Massive quartz
6047	2100	4150	595900	6986846	1000.1		SAND	GREY	Y	90	18-Jul-09	NL	None
6049	2100	4050	595898	6986750	999.4		HUMUS	GREY	N	60	18-Jul-09	NL	Very difficult to get below rock tallus
6050	2100	4000	595900	6986701	992		HUMUS	BROWN	N	40	18-Jul-09	NL	None
6051	2100	3950	595901	6986650	980.2		HUMUS	BROWN	Y	35	18-Jul-09	NL	None
6052	2100	3900	595901	6986601	968.6		CLAY	BROWN	Y	30	18-Jul-09	NL	None

Soils 2009 Ballarat.xls

Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6053	2100	3850	595900	6986550	959.5		HUMUS	BROWN	N	30	18-Jul-09	NL	None
6054	2100	3800	595898	6986500	957.8		SAND	RUSTY	Y	25	18-Jul-09	NL	None
6055	2100	3750	595900	6986447	955.2		SAND	BROWN	N	25	18-Jul-09	NL	None
6056	2100	3700	595899	6986399	940		SAND	RUSTY	N	25	18-Jul-09	NL	None
6057	2100	3650	595903	6986349	912.4		SAND	RUSTY	N	30	18-Jul-09	NL	None
6058	2100	3600	595901	6986301	869.6		SAND	BROWN	N	30	18-Jul-09	NL	None
6060	2100	3500	595904	6986203	871.6		SAND	BLACK	N	25	18-Jul-09	NL	None
6061	2100	3450	595900	6986151	871.6		HUMUS	BLACK	N	35	18-Jul-09	NL	None
6062	2100	3400	595904	6986100	883.8		HUMUS	BLACK	N	35	18-Jul-09	NL	None
6063	2100	3350	595906	6986052	882.1		HUMUS	BLACK	N	30	18-Jul-09	NL	None
6064	2100	3300	595905	6986001	883.6		SAND	GREY	N	45	18-Jul-09	NL	None
6065	2100	3250	595900	6985950	892		CLAY	GREY	N	45	18-Jul-09	NL	None
6066	2100	3200	595901	6985901	893.4		SAND	GREY	Y	30	18-Jul-09	NL	None
6067	1600	4550	595405	6987248	1155.4		SAND	BROWN	Y	25	19-Jul-09	NL	None
6068	1600	4500	595405	6987200	1153.7		SAND	BROWN	Y	25	19-Jul-09	NL	None
6069	1600	4450	595399	6987151	1153.9		HUMUS	BROWN	Y	25	19-Jul-09	NL	None
6070	1600	4400	595400	6987096	1147.9		CLAY	BROWN	N	35	19-Jul-09	NL	None
6071	1600	4350	595404	6987047	1136.6		CLAY	RUSTY	Y	40	19-Jul-09	NL	None
6072	1600	4300	595403	6986997	1127.3		CLAY	BROWN	Y	45	19-Jul-09	NL	None
6073	1600	4250	595401	6986951	1113.1		SAND	BROWN	Y	30	19-Jul-09	NL	None
6074	1600	4200	595400	6986900	1093.9		SAND	BROWN	Y	50	19-Jul-09	NL	None
6075	1600	4150	595403	6986847	1069.6		SAND	BROWN	N	35	19-Jul-09	NL	None
6076	1600	4100	595403	6986797	1056.1		HUMUS	BROWN	N	20	19-Jul-09	NL	Frozen ground frozen deep
6077	1600	4050	595400	6986749	1053		CLAY	RUSTY	Y	40	19-Jul-09	NL	None
6078	1600	4000	595402	6986699	1038.8		CLAY	RUSTY	Y	25	19-Jul-09	NL	None
6079	1600	3950	595402	6986651	1035		SAND	BROWN	Y	30	19-Jul-09	NL	None
6080	1600	3900	595400	6986602	1033.8		SAND	BROWN	N	35	19-Jul-09	NL	None
6081	1600	3850	595398	6986547	1028.2		CLAY	BLACK	N	85	19-Jul-09	NL	None
6082	1600	3800	595401	6986498	1028.7		CLAY	GREY	N	35	19-Jul-09	NL	None
6083	1600	3750	595399	6986449	1032.3		CLAY	GREY	Y	40	19-Jul-09	NL	None
6084	1600	3700	595401	6986399	1035.2		CLAY	GREY	Y	40	19-Jul-09	NL	None
6085	1600	3650	595400	6986348	1037.4		CLAY	GREY	N	50	19-Jul-09	NL	None
6086	1600	3600	595401	6986299	1039.8		CLAY	GREY	N	45	19-Jul-09	NL	None
6087	1600	3550	595401	6986250	1041.5		SAND	BROWN	Y	30	19-Jul-09	NL	None
6088	1600	3500	595401	6986200	1045.1		HUMUS	BLACK	N	30	19-Jul-09	NL	None
6089	1600	3450	595400	6986151	1049.2		SAND	GREY	Y	45	19-Jul-09	NL	None
6090	1600	3400	595401	6986096	1051.3		HUMUS	BLACK	N	40	19-Jul-09	NL	None
6091	1600	3350	595402	6986047	1054.7		CLAY	RUSTY	Y	45	19-Jul-09	NL	None
6092	1600	3300	595402	6985999	1059		SAND	RUSTY	N	30	19-Jul-09	NL	None
6093	1600	3250	595403	6985950	1059.7		CLAY	RUSTY	N	30	19-Jul-09	NL	None
6094	1600	3200	595400	6985898	1067.7		CLAY	RUSTY	N	35	19-Jul-09	NL	None
6095	1600	3150	595400	6985850	1063.6		SAND	BROWN	Y	40	19-Jul-09	NL	None
6096	1600	3100	595395	6985800	1073.4		SAND	RUSTY	N	20	19-Jul-09	NL	None
6097	1600	3050	595403	6985751	1072		SAND	RUSTY	N	20	19-Jul-09	NL	None
6098	1600	3000	595402	6985698	1064.1		SAND	RUSTY	N	30	19-Jul-09	NL	None
6099	1600	2950	595400	6985650	1062.9		CLAY	RUSTY	N	30	19-Jul-09	NL	None
6100	1600	2900	595400	6985602	1058		SAND	RUSTY	N	30	19-Jul-09	NL	None
6101	1600	2850	595401	6985549	1047.5		SAND	RUSTY	N	20	19-Jul-09	NL	None
6102	1600	2800	595400	6985502	1042.4		CLAY	RUSTY	Y	20	19-Jul-09	NL	None
6103	1600	2750	595401	6985452	1037.6		CLAY	RUSTY	Y	30	19-Jul-09	NL	None
6104	1600	2700	595402	6985401	1035.9		CLAY	RUSTY	Y	30	19-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6105	2700	2700	596499	6985400	872.5		TALUS	GREY	N	25	20-Jul-09	NL	None
6106	2700	2750	596500	6985452	874		HUMUS	BLACK	N	30	20-Jul-09	NL	None
6107	2700	2800	596493	6985502	882.8		SAND	BROWN	Y	35	20-Jul-09	NL	None
6108	2700	2850	596499	6985549	900.9		SAND	BROWN	N	30	20-Jul-09	NL	None
6109	2700	2900	596497	6985600	911.7		SAND	BROWN	Y	30	20-Jul-09	NL	Mica rich soil
6110	2700	2950	596502	6985652	922.7		SAND	BROWN	Y	40	20-Jul-09	NL	None
6111	2700	3000	596503	6985703	929		SAND	BROWN	Y	40	20-Jul-09	NL	None
6112	2700	3050	596504	6985750	932.8		CLAY	BROWN	Y	40	20-Jul-09	NL	None
6113	2700	3100	596499	6985800	941.5		CLAY	BROWN	Y	45	20-Jul-09	NL	None
6114	2700	3150	596502	6985850	949.7		SAND	TAN	N	45	20-Jul-09	NL	None
6115	2700	3200	596501	6985901	958.1		SAND	BROWN	Y	50	20-Jul-09	NL	None
6116	2700	3250	596501	6985951	964.3		CLAY	GREY	Y	45	20-Jul-09	NL	None
6117	2700	3300	596500	6986001	966.7		SAND	BROWN	Y	25	20-Jul-09	NL	None
6118	2700	3350	596501	6986051	981.1		CLAY	GREY	N	30	20-Jul-09	NL	Mica rich soil
6119	2700	3400	596501	6986101	987.2		TALUS	BROWN	Y	35	20-Jul-09	NL	Very dry soil, hard to get below talus
6120	2700	3450	596501	6986152	994.1		HUMUS	BLACK	N	30	20-Jul-09	NL	None
6121	2700	3500	596502	6986203	1000.6		SAND	BROWN	Y	20	20-Jul-09	NL	None
6122	2700	3550	596500	6986249	995.3		SAND	BROWN	N	20	20-Jul-09	NL	None
6123	2700	3600	596500	6986299	992		HUMUS	BLACK	N	35	20-Jul-09	NL	None
6124	2700	3650	596503	6986351	995.1		CLAY	GREY	N	40	20-Jul-09	NL	None
6125	2700	3700	596501	6986401	995.6		CLAY	GREY	N	40	20-Jul-09	NL	None
6126	2700	3750	596502	6986449	1000.1		HUMUS	BLACK	Y	45	20-Jul-09	NL	None
6127	2700	3800	596499	6986501	1006.1		CLAY	GREY	N	35	20-Jul-09	NL	None
6128	2700	3850	596504	6986550	1011.2		CLAY	GREY	N	45	20-Jul-09	NL	None
6129	2700	3900	596500	6986603	1014.1		HUMUS	GREY	N	35	20-Jul-09	NL	None
6130	2700	3950	596499	6986650	1016.7		HUMUS	BLACK	N	20	20-Jul-09	NL	None
6131	2700	4000	596504	6986700	1020.3		CLAY	GREY	Y	40	20-Jul-09	NL	None
6132	2700	4050	596501	6986751	1020.1		CLAY	GREY	Y	40	20-Jul-09	NL	None
6134	2700	4150	596501	6986851	1026.3		TALUS	BROWN	Y	35	20-Jul-09	NL	None
6135	2700	4200	596499	6986901	1022.7		TALUS	RUSTY	Y	30	20-Jul-09	NL	None
6136	2700	4250	596501	6986950	1015.8		TALUS	BROWN	Y	50	20-Jul-09	NL	None
6137	2700	4300	596497	6987003	1003.7		SAND	BROWN	Y	50	20-Jul-09	NL	None
6138	2700	4350	596501	6987050	1000.1		SAND	BROWN	Y	45	20-Jul-09	NL	None
6139	2700	4400	596501	6987100	1003.3		CLAY	BROWN	N	50	20-Jul-09	NL	None
6140	2700	4450	596501	6987151	1005.2		CLAY	BROWN	Y	40	20-Jul-09	NL	None
6141	2700	4500	596504	6987200	1004.5		SAND	RUSTY	N	45	20-Jul-09	NL	Outcrop? Mafic schist quartz veins parallel to foliation
6142	2700	4550	596499	6987251	1000.6		CLAY	GREY	Y	40	20-Jul-09	NL	None
6143	2700	4600	596499	6987300	996.8		HUMUS	BLACK	N	45	20-Jul-09	NL	None
6144	2700	4650	596498	6987353			CLAY	BROWN	N	30	20-Jul-09	NL	None
6145	2700	4700	596499	6987401	981.6		HUMUS	BLACK	N	30	20-Jul-09	NL	None
6146	2700	4750	596498	6987450	978.3		CLAY	GREY	N	30	20-Jul-09	NL	None
6147	2700	4800	596499	6987500	977.3		CLAY	GREY	N	35	20-Jul-09	NL	None
6149	2700	4900	596502	6987598	968.2		SAND	GREY	Y	45	20-Jul-09	NL	None
6150	2700	4950	596501	6987649	976.6		SAND	RUSTY	Y	45	20-Jul-09	NL	None
6151	2700	5000	596501	6987698	974.7		SAND	BROWN	Y	50	20-Jul-09	NL	None
6152	2700	5050	596500	6987747	966		SAND	BROWN	Y	40	20-Jul-09	NL	Sample taken ~1m away from creek
6153	2700	5100	596495	6987803	981.9		SAND	BROWN	Y	30	20-Jul-09	NL	None
6154	2700	5150	596499	6987849	989.8		TALUS	BROWN	N	20	20-Jul-09	NL	None
6155	3100	2700	596901	6985404	1014.3		SAND	RUSTY	N	20	21-Jul-09	NL	None
6156	3100	2750	596901	6985451	1016.2		SAND	RUSTY	N	20	21-Jul-09	NL	None
6157	3100	2800	596901	6985501	1031.1		SAND	BROWN	N	20	21-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6158	3100	2850	596900	6985550	1027		SAND	RUSTY	N	30	21-Jul-09	NL	None
6159	3100	2900	596899	6985600	1028.7		SAND	RUSTY	Y	30	21-Jul-09	NL	None
6160	3100	2950	596900	6985651	1032.6		SAND	RUSTY	Y	35	21-Jul-09	NL	None
6161	3100	3000	596900	6985700	1044.8		SAND	BROWN	N	40	21-Jul-09	NL	None
6162	3100	3050	596902	6985753	1056.6		SAND	RUSTY	N	25	21-Jul-09	NL	None
6163	3100	3100	596896	6985800	1064.3		SAND	RUSTY	N	30	21-Jul-09	NL	None
6164	3100	3150	596903	6985850	1078.7		SAND	BROWN	Y	35	21-Jul-09	NL	None
6165	3100	3200	596900	6985900	1088.8		CLAY	BROWN	Y	30	21-Jul-09	NL	None
6166	3100	3250	596899	6985951	1098.7		SAND	RUSTY	Y	30	21-Jul-09	NL	None
6167	3100	3300	596899	6986001	1104.9		CLAY	RUSTY	N	30	21-Jul-09	NL	None
6168	3100	3350	596902	6986051	1109		SAND	RUSTY	N	35	21-Jul-09	NL	None
6169	3100	3400	596897	6986101	1111.6		SAND	RUSTY	N	30	21-Jul-09	NL	None
6170	3100	3450	596899	6986151	1104.9		HUMUS	BLACK	N	40	21-Jul-09	NL	None
6171	3100	3500	596901	6986198	1116.7		SAND	BROWN	N	40	21-Jul-09	NL	None
6172	3100	3550	596902	6986250	1120.5		SAND	BROWN	N	30	21-Jul-09	NL	None
6173	3100	3600	596900	6986300	1125.3		SAND	GREY	Y	35	21-Jul-09	NL	None
6174	3100	3650	596901	6986349	1127.5		CLAY	GREY	Y	40	21-Jul-09	NL	None
6175	3100	3700	596899	6986399	1133		SAND	BROWN	Y	30	21-Jul-09	NL	None
6176	3100	3750	596900	6986451	1131.6		HUMUS	BLACK	N	30	21-Jul-09	NL	None
6177	3100	3800	596897	6986500	1146.7		SAND	BROWN	Y	45	21-Jul-09	NL	None
6178	3100	3850	596904	6986551	1153.7		SAND	BLACK	Y	45	21-Jul-09	NL	None
6179	3100	3900	596900	6986604	1149.9		SAND	GREY	N	50	21-Jul-09	NL	None
6180	3100	3950	596902	6986649	1152.5		SAND	GREY	N	40	21-Jul-09	NL	None
6181	3100	4000	596900	6986701	1158.3		SAND	BROWN	N	40	21-Jul-09	NL	None
6182	3100	4050	596900	6986748	1158.5		SAND	BROWN	N	30	21-Jul-09	NL	None
6183	3100	4100	596900	6986799	1162.6		HUMUS	GREY	N	35	21-Jul-09	NL	None
6184	3100	4150	596900	6986851	1167.4		SAND	BROWN	Y	35	21-Jul-09	NL	None
6185	3100	4200	596899	6986899	1165.7		CLAY	GREY	N	45	21-Jul-09	NL	None
6186	3100	4250	596900	6986951	1166.9		CLAY	GREY	N	45	21-Jul-09	NL	None
6187	3100	4300	596900	6987001	1169.6		SAND	BROWN	Y	20	21-Jul-09	NL	Very mica rich soil
6188	3100	4350	596901	6987052	1162.1		CLAY	GREY	N	35	21-Jul-09	NL	None
6189	3100	4400	596896	6987102	1163.6		SAND	BROWN	Y	50	21-Jul-09	NL	None
6190	3100	4450	596901	6987151	1166.9		SAND	BROWN	Y	40	21-Jul-09	NL	None
6191	3100	4500	596899	6987201	1168.1		SAND	BROWN	Y	45	21-Jul-09	NL	None
6192	3100	4550	596899	6987249	1166.9		CLAY	GREY	N	30	21-Jul-09	NL	None
6193	3100	4600	596903	6987299	1161.4		TALUS	BROWN	N	30	21-Jul-09	NL	None
6194	3100	4650	596903	6987350	1147.5		SAND	BROWN	N	35	21-Jul-09	NL	None
6195	3600	2700	597400	6985399	937.4		SAND	BROWN	N	35	22-Jul-09	NL	None
6196	3600	2750	597401	6985450	942.5		SAND	BROWN	N	40	22-Jul-09	NL	None
6197	3600	2800	597401	6985501	949.4		HUMUS	BLACK	N	40	22-Jul-09	NL	None
6198	3600	2850	597398	6985550	955.2		HUMUS	BLACK	N	40	22-Jul-09	NL	None
6199	3600	2900	597400	6985599	957.6		SAND	BROWN	N	35	22-Jul-09	NL	None
6200	3600	2950	597402	6985648	967.4		SAND	BROWN	N	40	22-Jul-09	NL	None
6201	3600	3000	597401	6985704	973.5		CLAY	BROWN	N	40	22-Jul-09	NL	None
6202	3600	3050	597402	6985751	980.7		SAND	BROWN	Y	25	22-Jul-09	NL	None
6203	3600	3100	597398	6985800	986.2		SAND	BROWN	N	20	22-Jul-09	NL	None
6204	3600	3150	597403	6985851	989.1		SAND	BROWN	Y	25	22-Jul-09	NL	None
6205	3600	3200	597399	6985900	994.6		SAND	BROWN	N	50	22-Jul-09	NL	None
6206	3600	3250	597399	6985950	1001.6		SAND	BROWN	N	40	22-Jul-09	NL	None
6207	3600	3300	597402	6985999	1007.3		SAND	BROWN	Y	35	22-Jul-09	NL	None
6208	3600	3350	597401	6986051	1013.8		SAND	BROWN	N	35	22-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6209	3600	3400	597401	6986100	1021.8		SAND	BROWN	N	30	22-Jul-09	NL	None
6210	3600	3450	597399	6986149	1029.2		SAND	BROWN	Y	30	22-Jul-09	NL	Some rusty patches, mostly brown
6211	3600	3500	597399	6986202	1022.5		SAND	BROWN	Y	50	22-Jul-09	NL	None
6212	3600	3550	597400	6986250	1030.2		SAND	BROWN	Y	35	22-Jul-09	NL	None
6213	3600	3600	597401	6986298	1043.1		SAND	BROWN	N	30	22-Jul-09	NL	None
6214	3600	3650	597400	6986351	1048.4		SAND	BROWN	N	25	22-Jul-09	NL	None
6215	3600	3700	597401	6986399	1054.4		SAND	BROWN	N	45	22-Jul-09	NL	None
6216	3600	3750	597399	6986451	1073.7		SAND	BROWN	N	30	22-Jul-09	NL	None
6217	3600	3800	597401	6986498	1084.2		HUMUS	BLACK	Y	30	22-Jul-09	NL	None
6218	3600	3850	597401	6986550	1096.7		HUMUS	BLACK	N	45	22-Jul-09	NL	None
6219	3600	3900	597401	6986601	1112.1		SAND	BROWN	N	30	22-Jul-09	NL	None
6220	3600	3950	597401	6986649	1116.4		SAND	GREY	N	30	22-Jul-09	NL	None
6221	3600	4000	597402	6986701	1136.6		HUMUS	BLACK	N	30	22-Jul-09	NL	None
6222	3600	4050	597401	6986755	1150.8		SAND	BROWN	N	30	22-Jul-09	NL	None
6223	3600	4100	597404	6986800	1161.4		SAND	BROWN	N	35	22-Jul-09	NL	None
6224	3600	4150	597405	6986849	1172.7		HUMUS	BLACK	N	45	22-Jul-09	NL	None
6225	3600	4200	597401	6986897	1184.7		HUMUS	BLACK	N	40	22-Jul-09	NL	None
6226	3600	4250	597404	6986950	1197		SAND	BROWN	N	45	22-Jul-09	NL	Very dark brown, some black
6227	3600	4300	597402	6987004	1207.8		SAND	BROWN	N	30	22-Jul-09	NL	None
6228	3600	4350	597401	6987049	1216.7		SAND	BROWN	Y	25	22-Jul-09	NL	None
6229	3600	4400	597401	6987101	1228		SAND	BROWN	N	30	22-Jul-09	NL	None
6230	3600	4450	597401	6987148	1236.4		SAND	RUSTY	N	25	22-Jul-09	NL	None
6231	3600	4500	597395	6987201	1250.8		SAND	RUSTY	N	20	22-Jul-09	NL	None
6232	3600	4550	597398	6987251	1259.4		SAND	RUSTY	N	20	22-Jul-09	NL	None
6233	3600	4600	597396	6987301	1266.7		SAND	BROWN	Y	25	22-Jul-09	NL	None
6234	3600	4650	597400	6987349	1259.2		CLAY	GREY	N	30	22-Jul-09	NL	None
6235	3600	4700	597398	6987403	1250.3		SAND	BROWN	N	30	22-Jul-09	NL	None
6236	3600	4750	597399	6987450	1249.3		CLAY	BROWN	N	30	22-Jul-09	NL	None
6237	3600	4800	597399	6987502	1244.3		CLAY	BROWN	N	45	22-Jul-09	NL	None
6238	3600	4850	597400	6987550	1239.7		SAND	BROWN	Y	40	22-Jul-09	NL	None
6239	3600	4900	597398	6987599	1240.9		SAND	BROWN	N	60	22-Jul-09	NL	None
6240	3600	4950	597398	6987650	1243.1		SAND	BROWN	N	45	22-Jul-09	NL	None
6241	3900	4800	597704	6987497	1311.6		SAND	BROWN	N	30	23-Jul-09	NL	None
6242	3900	4750	597698	6987450	1311.8		SAND	BROWN	N	45	23-Jul-09	NL	None
6243	3900	4700	597708	6987403	1304.6		HUMUS	BLACK	N	35	23-Jul-09	NL	None
6244	3900	4650	597703	6987355	1282.3		SAND	BROWN	N	30	23-Jul-09	NL	None
6245	3900	4600	597698	6987298	1277.5		SAND	BROWN	N	40	23-Jul-09	NL	None
6246	3900	4550	597694	6987249	1265.2		SAND	BROWN	N	40	23-Jul-09	NL	None
6247	3900	4500	597703	6987205	1235.4		SAND	BROWN	N	45	23-Jul-09	NL	None
6248	3900	4450	597695	6987147	1231.1		SAND	BROWN	N	30	23-Jul-09	NL	None
6249	3900	4400	597698	6987104	1224.6		SAND	BROWN	N	45	23-Jul-09	NL	None
6250	3900	4350	597698	6987055	1227.2		SAND	BROWN	N	25	23-Jul-09	NL	None
6251	3900	4300	597697	6987001	1214.5		SAND	BROWN	N	25	23-Jul-09	NL	None
6252	3900	4250	597695	6986951	1203.4		SAND	BROWN	N	20	23-Jul-09	NL	None
6253	3900	4200	597695	6986895	1154.2		SAND	BROWN	N	25	23-Jul-09	NL	Partly humus
6254	3900	4150	597698	6986848	1157.1		CLAY	BROWN	N	20	23-Jul-09	NL	None
6255	3900	4100	597698	6986802	1156.3		SAND	BROWN	N	35	23-Jul-09	NL	None
6256	3900	4050	597697	6986751	1130.1		SAND	TAN	Y	25	23-Jul-09	NL	None
6257	3900	4000	597706	6986695	1116.7		SAND	TAN	N	20	23-Jul-09	NL	None
6258	3900	3950	597703	6986650	1107.1		SAND	BROWN	N	30	23-Jul-09	NL	None
6259	3900	3900	597708	6986597	1088.8		SAND	BROWN	N	30	23-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6260	3900	3850	597710	6986546	1063.3		HUMUS	BLACK	N	30	23-Jul-09	NL	None
6261	3900	3800	597690	6986496	1030.4		SAND	BROWN	N	25	23-Jul-09	NL	None
6262	3900	3750	597702	6986451	1035.2		SAND	BROWN	N	30	23-Jul-09	NL	None
6263	3900	3700	597701	6986401	1032.6		SAND	BROWN	N	25	23-Jul-09	NL	None
6264	3900	3650	597701	6986350	1026.8		SAND	BROWN	N	20	23-Jul-09	NL	None
6265	3900	3600	597704	6986294	1034		SAND	BROWN	N	20	23-Jul-09	NL	None
6266	3900	3550	597701	6986249	1022.5		SAND	BROWN	Y	35	23-Jul-09	NL	None
6267	3900	3500	597703	6986198	1021		SAND	BROWN	N	40	23-Jul-09	NL	None
6268	3900	3450	597699	6986148	1014.1		SAND	BROWN	Y	30	23-Jul-09	NL	None
6269	3900	3400	597701	6986098	998		CLAY	BROWN	N	25	23-Jul-09	NL	None
6270	3900	3350	597701	6986052	988.1		CLAY	BROWN	N	30	23-Jul-09	NL	None
6271	3900	3300	597703	6986001	986.2		SAND	BROWN	Y	25	23-Jul-09	NL	None
6272	3900	3250	597701	6985948	985.2		SAND	BROWN	N	50	23-Jul-09	NL	None
6273	3900	3200	597700	6985901	969.4		TALUS	BROWN	Y	30	23-Jul-09	NL	None
6274	3900	3150	597704	6985849	929.5		SAND	BROWN	N	30	23-Jul-09	NL	None
6275	3900	3100	597706	6985804	920.6		SAND	BROWN	N	25	23-Jul-09	NL	None
6276	3900	3050	597703	6985749	897.8		HUMUS	GREY	N	25	23-Jul-09	NL	None
6277	3900	3000	597696	6985696	905		SAND	BROWN	Y	20	23-Jul-09	NL	None
6278	3900	2950	597701	6985651	902.6		SAND	TAN	N	30	23-Jul-09	NL	None
6279	3900	2900	597701	6985600	897.8		SAND	BROWN	N	30	23-Jul-09	NL	None
6280	3900	2850	597701	6985548	899.9		TALUS	BROWN	N	30	23-Jul-09	NL	None
6281	3900	2800	597699	6985499	883.8		TALUS	BROWN	Y	25	23-Jul-09	NL	None
6282	3900	2750	597700	6985450	873.7		SAND	BROWN	Y	60	23-Jul-09	NL	None
6283	3900	2700	597704	6985401	861		TALUS	BROWN	Y	30	23-Jul-09	NL	None
6284	4300	2700	598101	6985405	962.9		SAND	BROWN	Y	25	24-Jul-09	NL	None
6285	4300	2750	598096	6985451	972.7		TALUS	BROWN	N	30	24-Jul-09	NL	None
6286	4300	2800	598099	6985498	987.4		TALUS	TAN	N	40	24-Jul-09	NL	None
6287	4300	2850	598101	6985550	1000.9		TALUS	BROWN	Y	30	24-Jul-09	NL	None
6288	4300	2900	598099	6985601	1006.9		SAND	TAN	N	30	24-Jul-09	NL	None
6289	4300	2950	598101	6985651	1014.1		TALUS	BROWN	Y	20	24-Jul-09	NL	None
6290	4300	3000	598101	6985698	1022.7		TALUS	BROWN	Y	20	24-Jul-09	NL	None
6291	4300	3050	598102	6985751	1031.1		TALUS	BROWN	Y	25	24-Jul-09	NL	None
6292	4300	3100	598099	6985803	1041.2		SAND	BROWN	N	30	24-Jul-09	NL	None
6293	4300	3150	598098	6985853	1048.9		SAND	BROWN	Y	35	24-Jul-09	NL	None
6294	4300	3200	598101	6985901	1058.5		TALUS	BROWN	Y	35	24-Jul-09	NL	None
6295	4300	3250	598102	6985948	1067.9		SAND	BROWN	Y	35	24-Jul-09	NL	None
6296	4300	3300	598102	6986001	1073.4		TALUS	BROWN	N	20	24-Jul-09	NL	None
6297	4300	3350	598102	6986050	1075.6		TALUS	GREY	N	20	24-Jul-09	NL	None
6298	4300	3400	598100	6986100	1079.7		SAND	BROWN	Y	35	24-Jul-09	NL	None
6299	4300	3450	598098	6986151	1085.9		SAND	BROWN	Y	30	24-Jul-09	NL	None
6300	4300	3500	598101	6986200	1092.7		SAND	BROWN	Y	40	24-Jul-09	NL	None
6301	4300	3550	598098	6986250	1105.2		TALUS	BROWN	N	25	24-Jul-09	NL	None
6302	4300	3600	598097	6986301	1108		SAND	BROWN	Y	30	24-Jul-09	NL	None
6303	4300	3650	598095	6986350	1121.5		SAND	BROWN	Y	35	24-Jul-09	NL	None
6304	4300	3700	598099	6986399	1131.6		TALUS	BROWN	Y	30	24-Jul-09	NL	None
6305	4300	3750	598100	6986449	1147		SAND	BROWN	N	25	24-Jul-09	NL	None
6306	4300	3800	598099	6986498	1154.7		TALUS	RUSTY	N	25	24-Jul-09	NL	None
6307	4300	3850	598099	6986548	1161.9		TALUS	RUSTY	Y	30	24-Jul-09	NL	None
6308	4300	3900	598104	6986606	1172.2		TALUS	GREY	N	45	24-Jul-09	NL	None
6309	4300	3950	598102	6986651	1178		TALUS	BROWN	N	30	24-Jul-09	NL	Some rusty patches
6310	4300	4000	598102	6986702	1184.9		CLAY	RUSTY	N	30	24-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6311	4300	4050	598100	6986749	1187.1		TALUS	BROWN	N	30	24-Jul-09	NL	None
6312	4300	4100	598098	6986801	1194.6		SAND	RUSTY	Y	35	24-Jul-09	NL	None
6313	4300	4150	598103	6986849	1196.2		TALUS	GREY	N	35	24-Jul-09	NL	None
6314	4300	4200	598101	6986901	1198.9		CLAY	RUSTY	Y	35	24-Jul-09	NL	None
6315	4300	4250	598101	6986951	1210.7		SAND	BROWN	N	20	24-Jul-09	NL	None
6316	4300	4300	598100	6987001	1216.4		SAND	RUSTY	Y	25	24-Jul-09	NL	None
6317	4300	4350	598101	6987050	1217.9		SAND	BROWN	N	25	24-Jul-09	NL	None
6318	4300	4400	598101	6987100	1226		SAND	BROWN	N	25	24-Jul-09	NL	None
6319	4300	4450	598100	6987151	1232.8		SAND	BROWN	N	30	24-Jul-09	NL	None
6320	4300	4500	598097	6987200	1244.3		SAND	BROWN	N	20	24-Jul-09	NL	None
6321	4300	4550	598099	6987249	1253.4		SAND	RUSTY	N	25	24-Jul-09	NL	None
6322	4300	4600	598098	6987300	1262.3		SAND	BROWN	N	25	24-Jul-09	NL	None
6323	4300	4650	598096	6987349	1269.8		SAND	BROWN	Y	30	24-Jul-09	NL	None
6324	4300	4700	598099	6987401	1280.4		SAND	BROWN	Y	30	24-Jul-09	NL	None
6325	4300	4750	598099	6987449	1287.3		SAND	BROWN	N	25	24-Jul-09	NL	None
6326	4300	4800	598098	6987501	1294.3		SAND	BROWN	Y	20	24-Jul-09	NL	None
6327	4300	4850	598096	6987550	1300.5		SAND	BROWN	Y	25	24-Jul-09	NL	None
6328	3300	5400	597099	6988101	1042.4		CLAY	BROWN	N	20	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6329	3300	5350	597098	6988049	1087.6		HUMUS	BROWN	N	15	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6330	3300	5300	597106	6988001	1100.6		CLAY	BROWN	N	10	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6331	3300	5250	597101	6987947	1134.2		CLAY	BROWN	N	20	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6332	3300	5200	597100	6987899	1131.3		CLAY	BROWN	N	25	25-Jul-09	NL	None
6333	3300	5150	597102	6987851	1133		CLAY	BROWN	N	30	25-Jul-09	NL	None
6336	3300	5000	597098	6987698	1111.2		SAND	BROWN	N	30	25-Jul-09	NL	None
6337	3300	4950	597102	6987649	1106.6		SAND	BROWN	Y	30	25-Jul-09	NL	None
6338	3300	4900	597105	6987599	1103		CLAY	BROWN	N	20	25-Jul-09	NL	None
6341	3300	4750	597100	6987450			SAND	BROWN	Y	25	25-Jul-09	NL	None
6342	3300	4700	597097	6987399	1182.3		TALUS	BROWN	N	30	25-Jul-09	NL	Rock sample taken
6343	3200	4900	597001	6987603	1071		HUMUS	BROWN	N	20	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6344	3200	4950	597003	6987651	1067.4		SAND	BROWN	N	30	25-Jul-09	NL	Sample taken beside creek
6345	3200	5000	596999	6987699	1069.3		SAND	BROWN	N	20	25-Jul-09	NL	None
6346	3200	5050	596999	6987749	1072.9		SAND	BROWN	Y	30	25-Jul-09	NL	None
6347	3200	5100	597000	6987798			SAND	BROWN	Y	25	25-Jul-09	NL	None
6348	3200	5150	596999	6987850	1096.3		SAND	BROWN	Y	25	25-Jul-09	NL	None
6349	3200	5200	597002	6987900	1098.2		HUMUS	BROWN	N	30	25-Jul-09	NL	None
6350	3200	5250	597001	6987951	1098.9		HUMUS	BROWN	N	30	25-Jul-09	NL	None
6351	3200	5300	597002	6988001	1097.7		HUMUS	BROWN	N	25	25-Jul-09	NL	Ground frozen, sample taken near organic layer
6352	3200	5350	596999	6988050	1097.5		CLAY	BROWN	N	35	25-Jul-09	NL	None
6353	3200	5400	596999	6988096	1093.4		CLAY	BROWN	N	20	25-Jul-09	NL	None
6354	3200	5450	597002	6988151	1087.4		SAND	BROWN	Y	30	25-Jul-09	NL	None
6355	3100	5350	596899	6988053	1064.8		HUMUS	BROWN	N	25	25-Jul-09	NL	None
6356	3100	5300	596898	6988004	1074.2		CLAY	BROWN	N	20	25-Jul-09	NL	None
6357	3100	5250	596899	6987950	1070.8		CLAY	BROWN	N	20	25-Jul-09	NL	None
6358	3100	5200	596896	6987901	1067.2		CLAY	BROWN	N	20	25-Jul-09	NL	None
6359	3100	5150	596900	6987851	1065.7		SAND	BROWN	Y	25	25-Jul-09	NL	None
6360	3100	5100	596898	6987800	1054.2		SAND	BROWN	N	20	25-Jul-09	NL	None
6361	3100	5050	596900	6987750	1046.5		CLAY	BROWN	N	30	25-Jul-09	NL	None
6362	3100	5000	596900	6987702	1036.4		HUMUS	BLACK	N	35	25-Jul-09	NL	None
6363	3100	4950	596899	6987653	1050.1		SAND	BROWN	Y	40	25-Jul-09	NL	Rooty but seems to be good soil
6364	3100	4900	596897	6987600	1065.3		SAND	BROWN	Y	30	25-Jul-09	NL	Some rusty patches
6365	3100	4850	596905	6987551	1083.8		SAND	BROWN	Y	20	25-Jul-09	NL	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
6366	3100	4800	596900	6987502	1104.9		SAND	BROWN	Y	25	25-Jul-09	NL	None
6367	3100	4750	596898	6987449	1110.7		SAND	BROWN	Y	25	25-Jul-09	NL	None
7000	2300	4900	596100	6987600	0		CLAY	TAN	Y	30	7/17/2009	AA	None
7001	2300	4850	596108	6987543	0		SAND	TAN	Y	30	7/17/2009	AA	None
7002	2300	4800	596106	6987502	0		SAND	TAN	Y	20	7/17/2009	AA	None
7003	2300	4750	596104	6987449	0		CLAY	BROWN	Y	35	7/17/2009	AA	None
7004	2300	4700	596098	6987393	0		HUMUS	BROWN	Y	20	7/17/2009	AA	None
7005	2300	4650	596101	6987345	0		SAND	TAN	Y	20	7/17/2009	AA	None
7006	2300	4600	596102	6987298	0		SAND	TAN	Y	20	7/17/2009	AA	None
7007	2300	4550	596104	6987248	0		CLAY	TAN	N	40	7/17/2009	AA	None
7008	2300	4500	596106	6987201	0		SAND	TAN	Y	10	7/17/2009	AA	None
7009	2300	4450	596106	6987150	0		CLAY	TAN	N	35	7/17/2009	AA	None
7010	2300	4400	596103	6987096	0		CLAY	BROWN	N	20	7/17/2009	AA	None
7011	2300	4350	596106	6987043	0		SAND	GREY	Y	10	7/17/2009	AA	None
7012	2300	4300	596106	6986990	0		SAND	RUSTY	Y	10	7/17/2009	AA	None
7014	2300	4200	596104	6986896	0		HUMUS	BROWN	Y	30	7/17/2009	AA	None
7015	2300	4150	596102	6986850	0		TALUS	BROWN	Y	20	7/17/2009	AA	None
7018	2300	4000	596103	6986694	0		SAND	BROWN	Y	10	7/17/2009	AA	Between boulders
7020	2300	3900	596103	6986596	0		TALUS	BROWN	Y	40	7/17/2009	AA	None
7021	2300	3850	596103	6986544	0		CLAY	BROWN	N	20	7/17/2009	AA	None
7023	2300	3750	596084	6986443	0		TALUS	BROWN	Y	30	7/17/2009	AA	None
7024	2300	3700	596098	6986408	0		TALUS	BROWN	Y	30	7/17/2009	AA	None
7025	2300	3650	596103	6986349	0		TALUS	BROWN	Y	20	7/17/2009	AA	None
7026	2300	3600	596103	6986296	0		TALUS	TAN	Y	20	7/17/2009	AA	None
7027	2300	3550	596101	6986241	0		SAND	TAN	Y	10	7/17/2009	AA	None
7028	2300	3500	596103	6986196	0		TALUS	TAN	Y	20	7/17/2009	AA	None
7029	2300	3450	596105	6986146	0		TALUS	BROWN	Y	20	7/17/2009	AA	None
7030	2300	3400	596106	6986090	0		HUMUS	BROWN	N	30	7/17/2009	AA	None
7031	2300	3350	596102	6986052	0		SAND	TAN	Y	10	7/17/2009	AA	None
7032	2300	3300	596099	6986001	0		HUMUS	TAN	Y	20	7/17/2009	AA	None
7033	2300	3250	596089	6985945	0		CLAY	BROWN	Y	30	7/17/2009	AA	None
7034	2300	3200	596093	6985887	0		HUMUS	BROWN	Y	20	7/17/2009	AA	None
7035	2300	3150	596102	6985847	0		HUMUS	BROWN	Y	10	7/17/2009	AA	None
7036	2300	3100	596110	6985798	0		HUMUS	BROWN	Y	20	7/17/2009	AA	None
7037	2300	3050	596129	6985748	0		HUMUS	BROWN	Y	20	7/17/2009	AA	None
7038	2300	3000	596116	6985713	0		CLAY	BROWN	N	30	7/17/2009	AA	None
7039	2300	2950	596135	6985638	0		CLAY	BROWN	N	20	7/17/2009	AA	None
7041	2300	2850	596100	6985542	0		CLAY	BROWN	N	20	7/17/2009	AA	None
7042	2300	2800	596099	6985495	0		CLAY	BROWN	N	20	7/17/2009	AA	None
7043	2300	2750	596107	6985437	0		SAND	BROWN	N	20	7/17/2009	AA	None
7044	2300	2700	596100	6985400	0		CLAY	TAN	N	30	7/17/2009	AA	None
7045	1400	4450	595200	6987150	0		CLAY	BROWN	N	30	7/18/2009	AA	None
7046	1400	4400	595201	6987099	0		CLAY	BROWN	N	30	7/18/2009	AA	None
7047	1400	4350	595200	6987050	0		CLAY	BROWN	N	30	7/18/2009	AA	None
7048	1400	4300	595199	6986999	0		TALUS	BROWN	Y	30	7/18/2009	AA	None
7049	1400	4250	595199	6986948	0		CLAY	BROWN	Y	30	7/18/2009	AA	None
7050	1400	4200	595200	6986901	0		SAND	TAN	Y	20	7/18/2009	AA	None
7051	1400	4150	595201	6986849	0		SAND	TAN	Y	20	7/18/2009	AA	None
7052	1400	4100	595200	6986797	0		CLAY	BROWN	Y	30	7/18/2009	AA	None
7053	1400	4050	595201	6986752	0		SAND	BROWN	Y	30	7/18/2009	AA	None
7054	1400	4000	595201	6986701	0		CLAY	BROWN	Y	40	7/18/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7055	1400	3950	595201	6986650	0		SAND	RUSTY	Y	40	7/18/2009	AA	None
7056	1400	3900	595200	6986601	0		CLAY	TAN	Y	40	7/18/2009	AA	None
7057	1400	3850	595200	6986548	0		CLAY	RUSTY	N	40	7/18/2009	AA	None
7058	1400	3800	595201	6986499	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7059	1400	3750	595201	6986449	0		CLAY	BROWN	N	50	7/18/2009	AA	None
7060	1400	3700	595201	6986400	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7061	1400	3650	595201	6986350	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7062	1400	3600	595200	6986299	0		CLAY	RUSTY	Y	40	7/18/2009	AA	None
7063	1400	3550	595198	6986249	0		CLAY	RUSTY	Y	30	7/18/2009	AA	Rock outcrop, sample taken
7064	1400	3500	595198	6986197	0		SAND	RUSTY	Y	30	7/18/2009	AA	None
7065	1400	3450	595197	6986150	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7066	1400	3400	595198	6986098	0		CLAY	RUSTY	N	30	7/18/2009	AA	None
7067	1400	3350	595198	6986051	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7068	1400	3300	595199	6986000	0		CLAY	RUSTY	N	30	7/18/2009	AA	None
7069	1400	3250	595199	6985950	0		CLAY	RUSTY	Y	30	7/18/2009	AA	None
7070	1400	3200	595198	6985900	0		CLAY	RUSTY	Y	40	7/18/2009	AA	None
7071	1400	3150	595198	6985850	0		CLAY	RUSTY	Y	20	7/18/2009	AA	None
7072	1400	3100	595198	6985799	0		CLAY	RUSTY	N	20	7/18/2009	AA	None
7073	1400	3050	595200	6985749	0		CLAY	RUSTY	Y	25	7/18/2009	AA	None
7074	1400	3000	595199	6985697	0		CLAY	RUSTY	Y	40	7/18/2009	AA	None
7075	1400	2950	595200	6985648	0		CLAY	TAN	N	30	7/18/2009	AA	None
7076	1400	2900	595199	6985600	0		SAND	RUSTY	Y	30	7/18/2009	AA	None
7077	1400	2850	595200	6985549	0		SAND	RUSTY	N	30	7/18/2009	AA	None
7078	1400	2800	595200	6985500	0		TALUS	BROWN	Y	25	7/18/2009	AA	None
7079	1400	2750	595200	6985453	0		SAND	BROWN	Y	30	7/18/2009	AA	None
7080	1400	2700	595200	6985400	0		CLAY	BROWN	Y	25	7/18/2009	AA	None
7081	1800	4650	595600	6987350	0		CLAY	BROWN	N	20	7/19/2009	AA	None
7082	1800	4600	595601	6987300	0		SAND	TAN	Y	20	7/19/2009	AA	None
7083	1800	4550	595601	6987246	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7084	1800	4500	595602	6987199	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7085	1800	4450	595602	6987152	0		CLAY	BROWN	Y	10	7/19/2009	AA	None
7086	1800	4400	595601	6987101	0		CLAY	BROWN	Y	10	7/19/2009	AA	None
7087	1800	4350	595601	6987051	0		SAND	TAN	N	20	7/19/2009	AA	None
7088	1800	4300	595601	6987000	0		SAND	TAN	N	20	7/19/2009	AA	None
7089	1800	4250	595601	6986946	0		SAND	TAN	N	20	7/19/2009	AA	None
7090	1800	4200	595601	6986901	0		SAND	TAN	N	20	7/19/2009	AA	None
7091	1800	4150	595601	6986849	0		SAND	TAN	Y	20	7/19/2009	AA	None
7092	1800	4100	595602	6986802	0		SAND	TAN	N	20	7/19/2009	AA	None
7093	1800	4050	595601	6986751	0		SAND	TAN	N	10	7/19/2009	AA	None
7094	1800	4000	595601	6986700	0		SAND	TAN	N	25	7/19/2009	AA	None
7095	1800	3950	595601	6986650	0		SAND	TAN	N	15	7/19/2009	AA	None
7096	1800	3900	595601	6986590	0		CLAY	BROWN	Y	10	7/19/2009	AA	None
7097	1800	3850	595602	6986555	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7098	1800	3800	595603	6986499	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7099	1800	3750	595602	6986451	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7100	1800	3700	595602	6986401	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7101	1800	3650	595602	6986351	0		CLAY	BROWN	N	10	7/19/2009	AA	None
7102	1800	3600	595600	6986297	0		SAND	BROWN	N	10	7/19/2009	AA	None
7103	1800	3550	595601	6986252	0		HUMUS	BROWN	N	10	7/19/2009	AA	None
7104	1800	3500	595601	6986202	0		HUMUS	BLACK	N	10	7/19/2009	AA	None
7105	1800	3450	595601	6986151	0		HUMUS	BLACK	N	15	7/19/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7106	1800	3400	595601	6986100	0		HUMUS	BLACK	N	15	7/19/2009	AA	None
7107	1800	3350	595600	6986050	0		HUMUS	BLACK	Y	20	7/19/2009	AA	None
7108	1800	3300	595601	6985998	0		HUMUS	BROWN	Y	25	7/19/2009	AA	None
7109	1800	3250	595602	6985950	0		HUMUS	TAN	Y	20	7/19/2009	AA	None
7110	1800	3200	595601	6985901	0		SAND	TAN	Y	30	7/19/2009	AA	None
7111	1800	3150	595601	6985850	0		SAND	TAN	Y	30	7/19/2009	AA	None
7112	1800	3100	595601	6985801	0		SAND	TAN	Y	30	7/19/2009	AA	None
7113	1800	3050	595600	6985750	0		SAND	TAN	Y	30	7/19/2009	AA	None
7114	1800	3000	595601	6985700	0		SAND	TAN	Y	25	7/19/2009	AA	Green in soil
7115	1800	2950	595599	6985649	0		SAND	TAN	Y	30	7/19/2009	AA	None
7116	1800	2900	595600	6985597	0		SAND	TAN	Y	30	7/19/2009	AA	None
7117	1800	2850	595599	6985548	0		SAND	TAN	Y	20	7/19/2009	AA	None
7118	1800	2800	595600	6985498	0		SAND	TAN	Y	20	7/19/2009	AA	None
7119	1800	2750	595601	6985451	0		SAND	TAN	N	25	7/19/2009	AA	None
7120	1800	2700	595600	6985400	0		SAND	TAN	N	20	7/19/2009	AA	None
7121	2800	2700	596600	6985400	0		SAND	BROWN	N	20	7/20/2009	AA	None
7122	2800	2750	596597	6985450	0		SAND	BROWN	N	20	7/20/2009	AA	None
7123	2800	2800	596597	6985500	0		CLAY	BROWN	N	30	7/20/2009	AA	None
7124	2800	2850	596595	6985556	0		SAND	BROWN	N	20	7/20/2009	AA	None
7125	2800	2900	596596	6985597	0		SAND	TAN	N	20	7/20/2009	AA	None
7126	2800	2950	596600	6985649	0		SAND	TAN	Y	30	7/20/2009	AA	None
7127	2800	3000	596598	6985713	0		SAND	TAN	Y	15	7/20/2009	AA	None
7128	2800	3050	596600	6985753	0		CLAY	BROWN	Y	20	7/20/2009	AA	None
7129	2800	3100	596598	6985804	0		SAND	TAN	Y	10	7/20/2009	AA	None
7130	2800	3150	596598	6985853	0		TALUS	TAN	Y	15	7/20/2009	AA	None
7131	2800	3200	596596	6985897	0		TALUS	BROWN	Y	30	7/20/2009	AA	None
7132	2800	3250	596593	6985951	0		TALUS	TAN	Y	20	7/20/2009	AA	None
7133	2800	3300	596597	6986003	0		HUMUS	BLACK	N	20	7/20/2009	AA	None
7134	2800	3350	596600	6986049	0		CLAY	BROWN	N	20	7/20/2009	AA	None
7135	2800	3400	596601	6986101	0		CLAY	BROWN	Y	25	7/20/2009	AA	None
7136	2800	3450	596601	6986150	0		CLAY	BROWN	Y	20	7/20/2009	AA	None
7137	2800	3500	596601	6986201	0		HUMUS	BLACK	N	25	7/20/2009	AA	None
7138	2800	3550	596603	6986250	0		TALUS	TAN	Y	20	7/20/2009	AA	None
7139	2800	3600	596599	6986300	0		HUMUS	BLACK	N	25	7/20/2009	AA	None
7140	2800	3650	596601	6986350	0		HUMUS	BLACK	N	20	7/20/2009	AA	None
7141	2800	3700	596603	6986402	0		TALUS	TAN	Y	25	7/20/2009	AA	None
7142	2800	3750	596601	6986453	0		HUMUS	BLACK	N	15	7/20/2009	AA	Frozen
7143	2800	3800	596600	6986499	0		HUMUS	BLACK	N	15	7/20/2009	AA	None
7144	2800	3850	596600	6986552	0		SAND	TAN	N	10	7/20/2009	AA	None
7145	2800	3900	596602	6986599	0		SAND	TAN	Y	20	7/20/2009	AA	None
7146	2800	3950	596605	6986651	0		HUMUS	BLACK	N	10	7/20/2009	AA	Frozen
7147	2800	4000	596604	6986700	0		SAND	TAN	N	20	7/20/2009	AA	None
7148	2800	4050	596603	6986750	0		HUMUS	BLACK	N	20	7/20/2009	AA	None
7149	2800	4100	596604	6986804	0		TALUS	TAN	Y	35	7/20/2009	AA	Rock outcrop, no veining
7150	2800	4150	596605	6986856	0		TALUS	TAN	Y	25	7/20/2009	AA	None
7151	2800	4200	596604	6986904	0		TALUS	TAN	Y	35	7/20/2009	AA	None
7152	2800	4250	596602	6986952	0		TALUS	TAN	Y	25	7/20/2009	AA	None
7153	2800	4300	596605	6987001	0		TALUS	TAN	Y	40	7/20/2009	AA	None
7155	2800	4400	596603	6987101	0		CLAY	BLACK	N	15	7/20/2009	AA	Frozen
7156	2800	4450	596609	6987146	0		TALUS	BROWN	Y	40	7/20/2009	AA	None
7157	2800	4500	596602	6987201	0		TALUS	TAN	Y	30	7/20/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7158	2800	4550	596604	6987249	0		CLAY	BROWN	N	20	7/20/2009	AA	None
7159	2800	4600	596601	6987303	0		TALUS	TAN	Y	25	7/20/2009	AA	None
7160	2800	4650	596600	6987349	0		CLAY	BLACK	N	15	7/20/2009	AA	None
7161	3300	2700	597098	6985398	0		SAND	TAN	Y	20	7/21/2009	AA	None
7162	3300	2750	597101	6985452	0		SAND	RUSTY	Y	25	7/21/2009	AA	None
7163	3300	2800	597101	6985502	0		SAND	RUSTY	Y	30	7/21/2009	AA	None
7164	3300	2850	597097	6985551	0		SAND	RUSTY	Y	25	7/21/2009	AA	None
7165	3300	2900	597103	6985604	0		SAND	RUSTY	Y	35	7/21/2009	AA	None
7166	3300	2950	597098	6985652	0		SAND	RUSTY	Y	35	7/21/2009	AA	None
7167	3300	3000	597098	6985700	0		SAND	RUSTY	Y	30	7/21/2009	AA	None
7168	3300	3050	597100	6985748	0		SAND	RUSTY	Y	20	7/21/2009	AA	None
7169	3300	3100	597096	6985801	0		SAND	RUSTY	N	20	7/21/2009	AA	None
7170	3300	3150	597097	6985853	0		SAND	RUSTY	N	20	7/21/2009	AA	None
7171	3300	3200	597098	6985897	0		SAND	RUSTY	Y	30	7/21/2009	AA	None
7172	3300	3250	597092	6985951	0		SAND	RUSTY	Y	25	7/21/2009	AA	None
7173	3300	3300	597094	6985997	0		CLAY	RUSTY	N	25	7/21/2009	AA	None
7174	3300	3350	597093	6986053	0		SAND	RUSTY	N	10	7/21/2009	AA	Rock outcrop
7175	3300	3400	597087	6986100	0		SAND	TAN	N	20	7/21/2009	AA	None
7176	3300	3450	597095	6986151	0		CLAY	BLACK	N	30	7/21/2009	AA	None
7177	3300	3500	597096	6986199	0		CLAY	BLACK	N	30	7/21/2009	AA	None
7178	3300	3550	597094	6986249	0		CLAY	BROWN	N	25	7/21/2009	AA	None
7179	3300	3600	597093	6986299	0		SAND	TAN	N	20	7/21/2009	AA	None
7180	3300	3650	597094	6986350	0		SAND	TAN	N	20	7/21/2009	AA	None
7181	3300	3700	597094	6986401	0		SAND	TAN	N	15	7/21/2009	AA	None
7182	3300	3750	597092	6986450	0		SAND	TAN	N	20	7/21/2009	AA	None
7183	3300	3800	597098	6986503	0		HUMUS	BLACK	N	30	7/21/2009	AA	None
7184	3300	3850	597093	6986551	0		HUMUS	BROWN	N	40	7/21/2009	AA	None
7185	3300	3900	597093	6986596	0		CLAY	RUSTY	N	30	7/21/2009	AA	None
7186	3300	3950	597096	6986650	0		CLAY	BROWN	N	40	7/21/2009	AA	None
7187	3300	4000	597096	6986701	0		CLAY	BROWN	N	30	7/21/2009	AA	None
7188	3300	4050	597092	6986750	0		SAND	RUSTY	N	30	7/21/2009	AA	None
7189	3300	4100	597095	6986801	0		HUMUS	BLACK	N	30	7/21/2009	AA	None
7190	3300	4150	597095	6986852	0		SAND	RUSTY	N	20	7/21/2009	AA	None
7191	3300	4200	597094	6986900	0		SAND	RUSTY	N	30	7/21/2009	AA	None
7192	3300	4250	597100	6986951	0		SAND	RUSTY	Y	25	7/21/2009	AA	None
7193	3300	4300	597106	6986999	0		SAND	RUSTY	N	25	7/21/2009	AA	None
7194	3300	4350	597096	6987052	0		SAND	RUSTY	N	20	7/21/2009	AA	None
7195	3300	4400	597104	6987103	0		SAND	RUSTY	N	30	7/21/2009	AA	None
7196	3300	4450	597101	6987151	0		HUMUS	BLACK	N	50	7/21/2009	AA	None
7197	3300	4500	597104	6987203	0		SAND	BROWN	Y	50	7/21/2009	AA	None
7198	3300	4550	597101	6987250	0		SAND	BROWN	Y	20	7/21/2009	AA	None
7199	3300	4600	597101	6987303	0		SAND	BROWN	Y	30	7/21/2009	AA	None
7200	3300	4650	597104	6987350	0		TALUS	BROWN	Y	30	7/21/2009	AA	None
7201	3400	5250	597204	6987950	0		HUMUS	BLACK	N	15	7/22/2009	AA	None
7202	3400	5200	597206	6987899	0		HUMUS	BLACK	N	20	7/22/2009	AA	None
7203	3400	5150	597203	6987850	0		HUMUS	BLACK	N	25	7/22/2009	AA	None
7204	3400	5100	597204	6987799	0		HUMUS	BLACK	N	15	7/22/2009	AA	None
7205	3400	5050	597204	6987750	0		CLAY	BROWN	N	20	7/22/2009	AA	None
7206	3400	5000	597202	6987697	0		TALUS	BROWN	Y	20	7/22/2009	AA	None
7207	3400	4950	597203	6987652	0		SAND	BROWN	N	20	7/22/2009	AA	None
7208	3400	4900	597204	6987602	0		TALUS	TAN	Y	50	7/22/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7209	3400	4850	597202	6987551	0		HUMUS	BLACK	N	20	7/22/2009	AA	None
7210	3400	4800	597204	6987498	0		TALUS	TAN	Y	50	7/22/2009	AA	None
7211	3400	4750	597204	6987453	0		HUMUS	BLACK	N	20	7/22/2009	AA	None
7212	3400	4700	597203	6987399	0		CLAY	BLACK	N	20	7/22/2009	AA	None
7213	3400	4650	597203	6987348	0		CLAY	BLACK	Y	25	7/22/2009	AA	None
7214	3400	4600	597204	6987298	0		TALUS	TAN	Y	30	7/22/2009	AA	None
7215	3400	4550	597204	6987250	0		CLAY	BLACK	N	15	7/22/2009	AA	Frozen
7216	3400	4500	597206	6987193	0		SAND	RUSTY	Y	20	7/22/2009	AA	None
7217	3400	4450	597203	6987148	0		CLAY	RUSTY	Y	25	7/22/2009	AA	None
7218	3400	4400	597201	6987099	0		SAND	RUSTY	N	30	7/22/2009	AA	None
7219	3400	4350	597204	6987048	0		TALUS	RUSTY	Y	20	7/22/2009	AA	None
7220	3400	4300	597201	6987000	0		SAND	RUSTY	N	35	7/22/2009	AA	None
7221	3400	4250	597201	6986949	0		SAND	RUSTY	Y	20	7/22/2009	AA	None
7222	3400	4200	597200	6986897	0		SAND	RUSTY	Y	30	7/22/2009	AA	None
7223	3400	4150	597202	6986851	0		SAND	BROWN	N	30	7/22/2009	AA	None
7224	3400	4100	597203	6986801	0		HUMUS	BLACK	N	50	7/22/2009	AA	None
7225	3400	4050	597199	6986749	0		SAND	BROWN	Y	30	7/22/2009	AA	None
7226	3400	4000	597200	6986699	0		HUMUS	BLACK	N	40	7/22/2009	AA	None
7227	3400	3950	597201	6986649	0		HUMUS	BLACK	N	25	7/22/2009	AA	None
7228	3400	3900	597197	6986595	0		HUMUS	BLACK	N	40	7/22/2009	AA	None
7229	3400	3850	597201	6986548	0		HUMUS	BLACK	N	20	7/22/2009	AA	None
7230	3400	3800	597201	6986498	0		HUMUS	BLACK	N	25	7/22/2009	AA	None
7231	3400	3750	597205	6986450	0		SAND	BROWN	Y	25	7/22/2009	AA	None
7232	3400	3700	597198	6986397	0		SAND	TAN	Y	30	7/22/2009	AA	None
7233	3400	3650	597192	6986348	0		SAND	RUSTY	Y	30	7/22/2009	AA	None
7234	3400	3600	597193	6986299	0		SAND	RUSTY	Y	30	7/22/2009	AA	None
7235	3400	3550	597195	6986248	0		CLAY	BROWN	N	30	7/22/2009	AA	None
7236	3400	3500	597192	6986197	0		SAND	BROWN	N	20	7/22/2009	AA	None
7237	3400	3450	597195	6986148	0		CLAY	BROWN	N	30	7/22/2009	AA	None
7238	3400	3400	597194	6986099	0		SAND	BROWN	Y	30	7/22/2009	AA	None
7239	3400	3350	597196	6986051	0		SAND	BROWN	Y	25	7/22/2009	AA	None
7240	3400	3300	597194	6986001	0		SAND	BROWN	N	20	7/22/2009	AA	None
7241	3400	3250	597198	6985947	0		SAND	BROWN	Y	25	7/22/2009	AA	None
7242	3400	3200	597200	6985900	0		SAND	TAN	Y	30	7/22/2009	AA	None
7243	3400	3150	597196	6985847	0		SAND	TAN	N	25	7/22/2009	AA	None
7244	3400	3100	597199	6985802	0		SAND	BROWN	Y	25	7/22/2009	AA	None
7245	3400	3050	597198	6985744	0		SAND	RUSTY	N	35	7/22/2009	AA	None
7246	3400	3000	597199	6985698	0		SAND	BROWN	Y	25	7/22/2009	AA	None
7247	3400	2950	597198	6985643	0		SAND	BROWN	N	20	7/22/2009	AA	None
7248	3400	2900	597197	6985598	0		TALUS	RUSTY	Y	35	7/22/2009	AA	None
7249	3400	2850	597201	6985545	0		SAND	RUSTY	Y	30	7/22/2009	AA	None
7250	3400	2800	597194	6985496	0		SAND	RUSTY	Y	30	7/22/2009	AA	None
7251	3400	2750	597201	6985450	0		SAND	BROWN	Y	45	7/22/2009	AA	None
7252	3400	2700	597197	6985398	0		SAND	BROWN	Y	30	7/22/2009	AA	None
7253	4000	2700	597799	6985404	0		SAND	GREY	N	25	7/23/2009	AA	None
7254	4000	2750	597788	6985455	0		SAND	BROWN	N	30	7/23/2009	AA	None
7255	4000	2800	597778	6985506	0		SAND	BROWN	N	20	7/23/2009	AA	None
7256	4000	2850	597791	6985549	0		SAND	BROWN	N	20	7/23/2009	AA	None
7257	4000	2900	597788	6985601	0		SAND	BROWN	Y	20	7/23/2009	AA	None
7258	4000	2950	597789	6985650	0		SAND	BROWN	N	20	7/23/2009	AA	None
7259	4000	3000	597785	6985700	0		SAND	BROWN	Y	20	7/23/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7260	4000	3050	597788	6985754	0		SAND	GREY	N	20	7/23/2009	AA	None
7261	4000	3100	597783	6985805	0		SAND	BROWN	Y	20	7/23/2009	AA	None
7262	4000	3150	597782	6985852	0		SAND	BROWN	Y	30	7/23/2009	AA	None
7263	4000	3200	597788	6985902	0		SAND	BROWN	Y	15	7/23/2009	AA	None
7264	4000	3250	597791	6985949	0		SAND	BROWN	Y	20	7/23/2009	AA	None
7265	4000	3300	597784	6986000	0		SAND	BROWN	Y	30	7/23/2009	AA	None
7266	4000	3350	597788	6986051	0		CLAY	BROWN	N	50	7/23/2009	AA	None
7267	4000	3400	597787	6986101	0		CLAY	BROWN	N	50	7/23/2009	AA	None
7268	4000	3450	597788	6986153	0		SAND	TAN	N	30	7/23/2009	AA	None
7269	4000	3500	597789	6986199	0		HUMUS	BROWN	N	40	7/23/2009	AA	None
7270	4000	3550	597800	6986248	0		CLAY	BROWN	N	50	7/23/2009	AA	None
7271	4000	3600	597794	6986300	0		CLAY	BROWN	N	50	7/23/2009	AA	None
7272	4000	3650	597786	6986350	0		CLAY	BROWN	N	20	7/23/2009	AA	None
7273	4000	3700	597792	6986396	0		CLAY	BROWN	N	30	7/23/2009	AA	None
7274	4000	3750	597792	6986456	0		CLAY	BROWN	N	20	7/23/2009	AA	None
7275	4000	3800	597796	6986500	0		CLAY	BROWN	N	30	7/23/2009	AA	None
7276	4000	3850	597799	6986547	0		CLAY	BLACK	N	20	7/23/2009	AA	None
7277	4000	3900	597799	6986597	0		CLAY	BROWN	N	20	7/23/2009	AA	None
7278	4000	3950	597800	6986651	0		CLAY	BROWN	N	30	7/23/2009	AA	None
7279	4000	4000	597801	6986700	0		SAND	TAN	N	10	7/23/2009	AA	None
7280	4000	4050	597805	6986753	0		SAND	BROWN	N	10	7/23/2009	AA	None
7281	4000	4100	597803	6986800	0		SAND	TAN	Y	30	7/23/2009	AA	None
7282	4000	4150	597795	6986852	0		SAND	TAN	Y	20	7/23/2009	AA	None
7283	4000	4200	597798	6986903	0		CLAY	BROWN	N	30	7/23/2009	AA	None
7285	4000	4300	597803	6986997	0		SAND	TAN	N	20	7/23/2009	AA	None
7286	4000	4350	597798	6987046	0		SAND	BROWN	N	30	7/23/2009	AA	None
7287	4000	4400	597800	6987098	0		HUMUS	BLACK	N	30	7/23/2009	AA	None
7288	4000	4450	597811	6987151	0		CLAY	BLACK	N	20	7/23/2009	AA	None
7289	4000	4500	597808	6987199	0		CLAY	BLACK	N	20	7/23/2009	AA	None
7290	4000	4550	597796	6987249	0		CLAY	BROWN	N	20	7/23/2009	AA	None
7291	4000	4600	597808	6987302	0		CLAY	BROWN	N	15	7/23/2009	AA	None
7292	4000	4650	597798	6987352	0		CLAY	BROWN	N	20	7/23/2009	AA	None
7293	4400	4900	598206	6987596	0		CLAY	BROWN	N	30	7/24/2009	AA	None
7294	4400	4850	598199	6987547	0		TALUS	BROWN	Y	30	7/24/2009	AA	None
7295	4400	4800	598202	6987501	0		TALUS	TAN	Y	30	7/24/2009	AA	None
7296	4400	4750	598205	6987451	0		TALUS	TAN	Y	20	7/24/2009	AA	None
7297	4400	4700	598199	6987397	0		CLAY	TAN	Y	30	7/24/2009	AA	None
7298	4400	4650	598199	6987352	0		SAND	TAN	Y	10	7/24/2009	AA	None
7299	4400	4600	598199	6987300	0		SAND	TAN	Y	15	7/24/2009	AA	None
7300	4400	4550	598202	6987252	0		SAND	TAN	Y	30	7/24/2009	AA	None
7301	4400	4500	598201	6987203	0		SAND	TAN	Y	40	7/24/2009	AA	None
7302	4400	4450	598198	6987149	0		SAND	TAN	Y	30	7/24/2009	AA	None
7303	4400	4400	598200	6987098	0		SAND	TAN	Y	40	7/24/2009	AA	None
7304	4400	4350	598201	6987047	0		SAND	TAN	Y	40	7/24/2009	AA	None
7305	4400	4300	598202	6987000	0		SAND	TAN	Y	40	7/24/2009	AA	None
7306	4400	4250	598200	6986947	0		SAND	TAN	Y	40	7/24/2009	AA	None
7307	4400	4200	598199	6986898	0		SAND	RUSTY	Y	30	7/24/2009	AA	None
7308	4400	4150	598202	6986850	0		SAND	RUSTY	Y	30	7/24/2009	AA	None
7309	4400	4100	598202	6986797	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7310	4400	4050	598202	6986749	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7311	4400	4000	598209	6986700	0		SAND	RUSTY	Y	30	7/24/2009	AA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
7312	4400	3950	598200	6986649	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7313	4400	3900	598203	6986598	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7314	4400	3850	598203	6986550	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7315	4400	3800	598200	6986501	0		SAND	RUSTY	Y	15	7/24/2009	AA	None
7316	4400	3750	598203	6986453	0		SAND	RUSTY	Y	30	7/24/2009	AA	None
7317	4400	3700	598201	6986401	0		SAND	BROWN	Y	30	7/24/2009	AA	None
7318	4400	3650	598199	6986351	0		SAND	BROWN	Y	35	7/24/2009	AA	None
7319	4400	3600	598200	6986298	0		SAND	BROWN	Y	20	7/24/2009	AA	None
7320	4400	3550	598199	6986250	0		SAND	BROWN	Y	25	7/24/2009	AA	None
7321	4400	3500	598199	6986197	0		SAND	RUSTY	Y	30	7/24/2009	AA	None
7322	4400	3450	598202	6986149	0		SAND	BROWN	Y	20	7/24/2009	AA	None
7323	4400	3400	598201	6986099	0		SAND	RUSTY	Y	25	7/24/2009	AA	None
7324	4400	3350	598203	6986047	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7325	4400	3300	598203	6986003	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7326	4400	3250	598204	6985949	0		SAND	RUSTY	Y	30	7/24/2009	AA	None
7327	4400	3200	598203	6985901	0		SAND	RUSTY	Y	15	7/24/2009	AA	None
7328	4400	3150	598207	6985845	0		SAND	BROWN	Y	20	7/24/2009	AA	None
7329	4400	3100	598202	6985799	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7330	4400	3050	598201	6985747	0		SAND	BROWN	Y	20	7/24/2009	AA	None
7331	4400	3000	598201	6985699	0		SAND	BROWN	Y	30	7/24/2009	AA	None
7333	4400	2900	598200	6985593	0		SAND	RUSTY	Y	20	7/24/2009	AA	None
7334	4400	2850	598205	6985549	0		SAND	BROWN	Y	25	7/24/2009	AA	None
7335	4400	2800	598202	6985507	0		SAND	BROWN	Y	20	7/24/2009	AA	None
7336	4400	2750	598201	6985454	0		SAND	BROWN	N	20	7/24/2009	AA	None
7337	4400	2700	598199	6985403	0		HUMUS	BROWN	N	20	7/24/2009	AA	None
7344	3000	5000	596801	6987701	0		TALUS	BROWN	Y	25	7/25/2009	AA	None
7345	3000	4950	596802	6987650	0		HUMUS	BLACK	N	30	7/25/2009	AA	None
7346	3000	4900	596801	6987597	0		TALUS	BROWN	Y	30	7/25/2009	AA	None
7348	3000	4800	596800	6987498	0		TALUS	BROWN	Y	25	7/25/2009	AA	None
7349	3000	4750	596804	6987451	0		HUMUS	BLACK	N	20	7/25/2009	AA	None
7350	2900	4750	596704	6987452	0		HUMUS	BLACK	N	25	7/25/2009	AA	None
7353	2900	4900	596703	6987601	0		TALUS	TAN	Y	35	7/25/2009	AA	None
7354	2900	4950	596701	6987651	0		TALUS	TAN	Y	40	7/25/2009	AA	None
7355	2900	5000	596702	6987699	0		TALUS	TAN	Y	30	7/25/2009	AA	None
7356	2900	5050	596700	6987751	0		TALUS	TAN	Y	30	7/25/2009	AA	None
7357	2900	5100	596704	6987799	0		TALUS	TAN	Y	35	7/25/2009	AA	None
7358	2900	5150	596702	6987853	0		SAND	BROWN	Y	20	7/25/2009	AA	None
7359	2900	5200	596708	6987900	0		SAND	TAN	Y	25	7/25/2009	AA	None
7360	2900	5250	596698	6987947	0		SAND	TAN	Y	35	7/25/2009	AA	None
7364	2800	5050	596604	6987752	0		TALUS	BROWN	Y	30	7/25/2009	AA	None
7365	2800	5000	596600	6987701	0		TALUS	TAN	Y	50	7/25/2009	AA	None
7367	2800	4900	596605	6987602	0		TALUS	TAN	Y	20	7/25/2009	AA	None
7376	2600	5000	596403	6987698	0		TALUS	TAN	Y	Y	7/25/2009	AA	None
7377	2600	5050	596405	6987749	0		SAND	TAN	N	N	7/25/2009	AA	None
7378	2600	5100	596403	6987813	0		SAND	RUSTY	N	N	7/25/2009	AA	None
8000	2200	4800	595999	6987508	1075.6		SAND	BROWN	N	20	7/17/2009	FA	Under talus, micaceous
8001	2200	4750	596003	6987450	1066.2		TALUS	BROWN	N	20	7/17/2009	FA	Between talus, poor
8002	2200	4700	595999	6987401	1054		SAND	BROWN	N	15	7/17/2009	FA	Biotite schist, good
8003	2200	4650	595600	6987350			SAND	BROWN	N	15	7/17/2009	FA	Biotite schist, good
8004	2200	4600	595999	6987297	1010.7		SAND	TAN	N	20	7/17/2009	FA	Biotite schist, good
8005	2200	4550	595999	6987249	974.7		TALUS	BROWN	Y	15	7/17/2009	FA	Between talus, good

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8006	2200	4500	596000	6987199	954.2		TALUS	TAN	N	25	7/17/2009	FA	Between talus, poor
8007	2200	4450	596002	6987147	938.4		TALUS	GREY	N	35	7/17/2009	FA	Between talus, poor
8008	2200	4400	596000	6987100	950.4		SAND	BROWN	N	30	7/17/2009	FA	Biotite schist o/c with foliation 062°/57°
8009	2200	4350	596002	6987052	956.4		SAND	BROWN	Y	25	7/17/2009	FA	Good
8010	2200	4300	596000	6987000			SAND	BROWN	N	30	7/17/2009	FA	Good
8011	2200	4250	596002	6986949	946.8		SAND	BROWN	N	50	7/17/2009	FA	Under fallen tree
8012	2200	4200	596020	6986910	941.2		SAND	TAN	Y	25	7/17/2009	FA	Had to move 14m downslope
8013	2200	4150	595999	6986849	954.2		SAND	BROWN	N	30	7/17/2009	FA	Good, gneiss/schist o/c & talus
8014	2200	4100	596000	6986799	956.1		TALUS	BROWN	N	40	7/17/2009	FA	Scraped from talus
8015	2200	4050	596000	6986750	954		SAND	TAN	N	25	7/17/2009	FA	Biotite schist, good
8016	2200	4000	596000	6986700	945.1		SAND	TAN	N	25	7/17/2009	FA	Good
8017	2200	3950	596000	6986651	936.2		TALUS	BROWN	N	45	7/17/2009	FA	Poor, roots
8018	2200	3900	595997	6986603	925.6		CLAY	BROWN	N	25	7/17/2009	FA	Fluffy but gritty-poor?
8019	2200	3850	596000	6986551	915.1		SAND	TAN	N	25	7/17/2009	FA	Good
8020	2200	3800	596001	6986500	905.7		SAND	BROWN	N	30	7/17/2009	FA	C horizon, good
8021	2200	3750	596001	6986449	897.8		SAND	BROWN	N	20	7/17/2009	FA	Good
8022	2200	3700	595999	6986396	894.4		SAND	BROWN	N	40	7/17/2009	FA	Deep into talus-good
8023	2200	3650	596003	6986347	885		SAND	BROWN	N	30	7/17/2009	FA	Biotite schist, good
8024	2200	3600	595999	6986299	873.7		SAND	BROWN	N	40	7/17/2009	FA	Good
8025	2200	3550	596009	6986265	848.2		SAND	BROWN	N	25	7/17/2009	FA	Base of cliff
8026	2200	3500	596001	6986201	840.1		HUMUS	BLACK	N	40	7/17/2009	FA	Patchy frozen ground
8027	2200	3450	596000	6986150	836.9		HUMUS	BLACK	N	30	7/17/2009	FA	Patchy frozen ground
8028	2200	3400	596001	6986100	837.7		HUMUS	BLACK	N	40	7/17/2009	FA	Micaceous
8029	2200	3350	595998	6986046	832.4		SAND	BROWN	N	30	7/17/2009	FA	Locates in drainage-sample from dry rivulet
8030	2200	3300	596002	6985999	831.2		HUMUS	BLACK	N	15	7/17/2009	FA	Frozen
8031	2200	3250	596003	6985948	836		HUMUS	BLACK	N	45	7/17/2009	FA	Under fallen tree
8032	2200	3200	595998	6985882	855.5		SAND	BROWN	N	40	7/17/2009	FA	Vole den
8033	2200	3150	596003	6985850	847		SAND	BLACK	N	30	7/17/2009	FA	C horizon, good
8034	2200	3100	596000	6985796	854		HUMUS	BLACK	N	45	7/17/2009	FA	Frozen, chlortie schist talus
8035	2200	3050	596001	6985750	846.6		SAND	BROWN	N	30	7/17/2009	FA	Good
8036	2200	3000	596001	6985699	859.1		SAND	BROWN	N	40	7/17/2009	FA	Good
8037	2200	2950	596001	6985649	863.6		SAND	BROWN	N	30	7/17/2009	FA	Good
8038	2200	2900	596000	6985601	869.4		SAND	BROWN	N	40	7/17/2009	FA	C horizon, good
8039	2200	2850	596002	6985548	877.3		SAND	BROWN	N	40	7/17/2009	FA	Minor humus, good
8040	2200	2800	596001	6985499	880.7		SAND	BROWN	N	30	7/17/2009	FA	Minor humus, good
8041	2200	2750	596003	6985451	884.5		SAND	BROWN	N	35	7/17/2009	FA	Good
8042	2200	2700	596000	6985400	883.8		SAND	BROWN	N	25	7/17/2009	FA	End traverse-good
8043	1500	4500	595299	6987200	1179.4		CLAY	BROWN	N	25	7/18/2009	FA	Damp-good
8044	1500	4450	595300	6987150	1168.1		SAND	BROWN	N	25	7/18/2009	FA	Good
8045	1500	4400	595301	6987100	1159.7		SAND	BROWN	N	20	7/18/2009	FA	Good
8046	1500	4350	595298	6987050	1152.5		CLAY	BROWN	N	35	7/18/2009	FA	Poor
8047	1500	4300	595298	6986999	1140.7		CLAY	BROWN	N	25	7/18/2009	FA	Good
8048	1500	4250	595300	6986949	1128.9		CLAY	BROWN	Y	40	7/18/2009	FA	Good
8049	1500	4200	595305	6986899	1116.9		SAND	BROWN	N	20	7/18/2009	FA	Some humus
8050	1500	4150	595295	6986851	1106.4		SAND	BROWN	N	20	7/18/2009	FA	Good
8051	1500	4100	595300	6986798	1094.6		SAND	BROWN	N	20	7/18/2009	FA	None
8052	1500	4050	595301	6986751	1086.6		SAND	TAN	N	25	7/18/2009	FA	Chlorite schist talus, good
8053	1500	4000	595301	6986703	1077.3		SAND	BROWN	N	20	7/18/2009	FA	Good
8054	1500	3950	595300	6986649	1073.7		SAND	BROWN	N	20	7/18/2009	FA	Very gritty, wet-good
8055	1500	3900	595301	6986598	1064.5		SAND	BROWN	Y	30	7/18/2009	FA	Some C horizon
8056	1500	3850	595308	6986549	1059.7		SAND	BROWN	N	35	7/18/2009	FA	Patchy frozen ground, oxidized mica schist

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8057	1500	3800	595302	6986504	1062.6		SAND	BROWN	N	25	7/18/2009	FA	Good
8058	1500	3750	595300	6986450	1067.4		SAND	BROWN	N	20	7/18/2009	FA	Biotite schist, good
8059	1500	3700	595301	6986399	1066.5		SAND	BROWN	N	15	7/18/2009	FA	Chlorite schist talus, good
8060	1500	3650	595300	6986347	1066.2		SAND	BROWN	N	15	7/18/2009	FA	Some C horizon
8061	1500	3600	595298	6986301	1068.1		SAND	TAN	N	15	7/18/2009	FA	Gabbro, good
8062	1500	3550	595301	6986252	1068.4		SAND	BROWN	N	10	7/18/2009	FA	Greyish brown, micaceous, good
8063	1500	3500	595300	6986201	1071.5		SAND	BROWN	N	25	7/18/2009	FA	Good
8064	1500	3450	595302	6986151	1071.7		SAND	BROWN	N	20	7/18/2009	FA	Good
8065	1500	3400	595299	6986100	1072.7		SAND	BROWN	Y	25	7/18/2009	FA	Good
8066	1500	3350	595301	6986051	1072.5		CLAY	BROWN	N	35	7/18/2009	FA	Good
8067	1500	3300	595303	6986000	1072.9		CLAY	TAN	N	15	7/18/2009	FA	Good
8068	1500	3250	595301	6985948	1073.2		CLAY	BROWN	N	10	7/18/2009	FA	Overtop mica schist talus-good
8069	1500	3200	595300	6985900	1075.6		CLAY	BROWN	N	20	7/18/2009	FA	Good
8070	1500	3150	595300	6985851	1073.9		CLAY	RUSTY	N	20	7/18/2009	FA	Poor, talus
8071	1500	3100	595303	6985800	1071.3		CLAY	BROWN	N	30	7/18/2009	FA	Within & under talus-good
8072	1500	3050	595300	6985751	1067.4		SAND	BROWN	N	25	7/18/2009	FA	Good
8073	1500	3000	595300	6985700	1063.1		SAND	BROWN	N	25	7/18/2009	FA	Good, biotite schist
8074	1500	2950	595295	6985651	1054.9		SAND	BROWN	N	15	7/18/2009	FA	Good, overtop talus
8075	1500	2900	595302	6985601	1049.6		SAND	BROWN	N	25	7/18/2009	FA	Good
8076	1500	2850	595299	6985547	1040.5		SAND	BROWN	N	30	7/18/2009	FA	Good
8077	1500	2800	595299	6985499	1029.9		SAND	BROWN	N	25	7/18/2009	FA	Good, micaceous
8078	1500	2750	595300	6985452	1025.1		SAND	BROWN	N	25	7/18/2009	FA	Good
8079	1500	2700	595305	6985400	1022.5		SAND	BROWN	N	20	7/18/2009	FA	Good
8080	1900	4700	595700	6987395	1081.8		SAND	BROWN	N	35	7/19/2009	FA	None
8081	1900	4650	595704	6987349	1070.3		SAND	BROWN	N	35	7/19/2009	FA	Good
8082	1900	4600	595701	6987300	1049.4		CLAY	BROWN	N	40	7/19/2009	FA	Some humus
8083	1900	4550	595701	6987248	1033.1		SAND	BROWN	N	15	7/19/2009	FA	Mix with humus, frozen, 25cm of moss
8084	1900	4500	595698	6987194	1041.9		TALUS	BROWN	Y	20	7/19/2009	FA	Quartz-mica schist
8085	1900	4450	595707	6987152	1055.2		TALUS	BROWN	Y	35	7/19/2009	FA	No soil, quartz-mica schist
8086	1900	4400	595700	6987099	1060		SAND	RUSTY	N	35	7/19/2009	FA	Good, thick moss
8087	1900	4350	595703	6987051	1064.8		SAND	BROWN	Y	30	7/19/2009	FA	Good, biotite-quartz gneiss
8088	1900	4300	595701	6987001	1073.7		SAND	BROWN	N	15	7/19/2009	FA	Good, biotite schist
8089	1900	4250	595701	6986949	1076.6		SAND	BROWN	N	20	7/19/2009	FA	Poor, talus from under rock
8090	1900	4200	595701	6986900	1071		CLAY	BROWN	N	20	7/19/2009	FA	Good
8091	1900	4150	595700	6986850	1070.8		SAND	BROWN	N	25	7/19/2009	FA	Good
8092	1900	4100	595700	6986801	1065.3		SAND	BROWN	N	25	7/19/2009	FA	Good
8093	1900	4050	595700	6986749	1045.3		SAND	BROWN	N	15	7/19/2009	FA	Good
8094	1900	4000	595699	6986701	1028.7		SAND	BROWN	N	20	7/19/2009	FA	Good
8095	1900	3950	595698	6986650	1006.4		CLAY	BROWN	N	25	7/19/2009	FA	Good
8096	1900	3900	595695	6986601	993.6		CLAY	BROWN	N	20	7/19/2009	FA	Good, steep slope, GPS weak
8097	1900	3850	595694	6986546	979.7		TALUS	BROWN	N	5	7/19/2009	FA	Poor, fluffy soil, GPS weak due to cliff face
8098	1900	3800	595699	6986502	949.4		CLAY	BROWN	N	25	7/19/2009	FA	Poor, within colluvium, GPS weak
8099	1900	3750	595701	6986451	918.4		SAND	BROWN	N	30	7/19/2009	FA	Very wet, north side of gully
8100	1900	3700	595705	6986400	911.2		HUMUS	BROWN	N	35	7/19/2009	FA	Frozen
8101	1900	3650	595712	6986346	939.8		HUMUS	BLACK	N	30	7/19/2009	FA	Good, GPS weak due to steep E facing slope
8102	1900	3600	595699	6986301	931.9		SAND	BROWN	N	20	7/19/2009	FA	Frozen at depth
8103	1900	3550	595699	6986250	940.3		SAND	GREY	N	25	7/19/2009	FA	Good, within colluvium
8104	1900	3500	595700	6986201	941.5		HUMUS	BLACK	N	20	7/19/2009	FA	Good, over 30cm thick moss
8105	1900	3450	595700	6986149	948.9		SAND	BLACK	Y	25	7/19/2009	FA	Quartz colluvium
8106	1900	3400	595701	6986100	951.6		SAND	BROWN	Y	45	7/19/2009	FA	Felsic schist
8107	1900	3350	595699	6986053	960		HUMUS	BLACK	N	50	7/19/2009	FA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8108	1900	3300	595698	6986000	967.4		SAND	BROWN	N	25	7/19/2009	FA	Good
8109	1900	3250	595696	6985949	978.5		SAND	BROWN	N	15	7/19/2009	FA	Good
8110	1900	3200	595699	6985900	981.9		SAND	BROWN	Y	20	7/19/2009	FA	Good
8111	1900	3150	595701	6985851	994.4		SAND	BROWN	Y	20	7/19/2009	FA	C horizon, good
8112	1900	3100	595698	6985801	1000.1		SAND	BROWN	N	20	7/19/2009	FA	Good
8113	1900	3050	595700	6985749	1009.5		CLAY	BROWN	N	15	7/19/2009	FA	No soil
8114	1900	3000	595701	6985699	1009.7		SAND	BROWN	N	25	7/19/2009	FA	Good, biotite schist
8115	1900	2950	595699	6985648	1008.5		SAND	BROWN	N	20	7/19/2009	FA	Good, olive brown
8116	1900	2900	595701	6985598	1009		SAND	BROWN	N	15	7/19/2009	FA	Good, felsic granite between stations
8117	1900	2850	595699	6985551	1008.5		SAND	BROWN	N	15	7/20/2009	FA	Good
8118	1900	2800	595701	6985500	1007.8		SAND	BROWN	N	20	7/20/2009	FA	Good, foliated granite
8119	1900	2750	595700	6985449	1002.3		SAND	BROWN	N	25	7/20/2009	FA	Good
8120	1900	2700	595701	6985402	1000.6		SAND	BROWN	N	25	7/20/2009	FA	Good
8121	2600	2700	596400	6985400	835.3		SAND	BROWN	N	20	7/20/2009	FA	Outcrop foliated biotite granite
8122	2600	2750	596401	6985452	852.6		SAND	BROWN	Y	20	7/20/2009	FA	Good, atop outcrop granite gneiss
8123	2600	2800	596404	6985498	874.2		SAND	BROWN	Y	20	7/20/2009	FA	Good
8124	2600	2850	596397	6985550	863.6		SAND	GREY	N	25	7/20/2009	FA	Good, some humus
8125	2600	2900	596400	6985601	881.2		SAND	BROWN	N	35	7/20/2009	FA	Good
8126	2600	2950	596399	6985651	883.1		SAND	BROWN	N	25	7/20/2009	FA	Good
8127	2600	3000	596400	6985707	879		HUMUS	BROWN	Y	45	7/20/2009	FA	Good
8128	2600	3050	596396	6985747	894.9		SAND	BROWN	N	35	7/20/2009	FA	Humus & rocky C
8129	2600	3100	596396	6985800	905.2		SAND	BROWN	N	35	7/20/2009	FA	Good
8130	2600	3150	596398	6985852	918.9		SAND	BROWN	N	30	7/20/2009	FA	Good, on claim line
8131	2600	3200	596398	6985900	923		SAND	BROWN	N	35	7/20/2009	FA	Good
8132	2600	3250	596400	6985950	938.1		SAND	BROWN	N	25	7/20/2009	FA	Good
8133	2600	3300	596406	6985999	946.1		SAND	BROWN	N	30	7/20/2009	FA	Good
8134	2600	3350	596401	6986051	941.5		HUMUS	BROWN	N	30	7/20/2009	FA	Overtop granite gneiss talus
8135	2600	3400	596398	6986102	953		CLAY	BROWN	N	45	7/20/2009	FA	Mix with humus
8136	2600	3450	596401	6986153	964.3		SAND	BROWN	N	20	7/20/2009	FA	No soil, granite gneiss
8137	2600	3500	596400	6986200	968.2		SAND	BROWN	N	30	7/20/2009	FA	Good
8138	2600	3550	596403	6986248	959.8		HUMUS	BROWN	N	30	7/20/2009	FA	Frozen, micaceous
8139	2600	3600	596402	6986302	958.1		SAND	BROWN	N	25	7/20/2009	FA	Good
8140	2600	3650	596397	6986350	954.7		SAND	BROWN	N	30	7/20/2009	FA	Good, wet
8141	2600	3700	596399	6986400	959.8		SAND	BROWN	N	35	7/20/2009	FA	Minor humus
8142	2600	3750	596404	6986449	962.9		CLAY	BROWN	N	25	7/20/2009	FA	None
8143	2600	3800	596402	6986499	967.7		CLAY	BROWN	N	30	7/20/2009	FA	Frozen at 30cm
8144	2600	3850	596404	6986550	973.7		SAND	BROWN	N	35	7/20/2009	FA	Frozen at 30cm
8145	2600	3900	596402	6986601	973.7		CLAY	BROWN	N	30	7/20/2009	FA	Mix with humus
8146	2600	3950	596404	6986648	970.6		CLAY	BROWN	N	20	7/20/2009	FA	Frozen at 20cm
8147	2600	4000	596396	6986707	974.9		CLAY	BROWN	N	20	7/20/2009	FA	Frozen at 20cm
8148	2600	4050	596401	6986749	978.5		CLAY	BROWN	N	30	7/20/2009	FA	Frozen at depth, garnet biotite granite schist to north
8149	2600	4100	596400	6986805	983.5		CLAY	BROWN	N	20	7/20/2009	FA	Frozen with organics overtop talus
8150	2600	4150	596405	6986844	973.9		SAND	BROWN	Y	30	7/20/2009	FA	Overtop talus
8151	2600	4200	596401	6986902	976.8		SAND	BROWN	Y	20	7/20/2009	FA	None
8152	2600	4250	596401	6986952	974.2		TALUS	BROWN	N	10	7/20/2009	FA	In granite gneiss talus field
8153	2600	4300	596400	6987001	961.4		TALUS	BROWN	N	20	7/20/2009	FA	Within talus
8154	2600	4350	596401	6987053	945.1		HUMUS	BROWN	N	40	7/20/2009	FA	Frozen, north side of gully
8155	2600	4400	596399	6987098	956.9		SAND	BROWN	N	25	7/20/2009	FA	Good, in talus under moss
8156	2600	4450	596401	6987150	968.2		SAND	BROWN	N	25	7/20/2009	FA	None
8157	2600	4500	596402	6987201	966.5		SAND	BROWN	N	20	7/20/2009	FA	Frozen at 20cm, over 30cm thickmoss
8158	2600	4550	596400	6987255	964.1		SAND	BROWN	N	20	7/20/2009	FA	Under talus

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8159	2600	4600	596390	6987298	951.1		CLAY	GREY	N	25	7/20/2009	FA	In talus field, no soil
8160	2600	4650	596395	6987352	950.9		TALUS	BROWN	N	20	7/20/2009	FA	Poor, scraped off talus
8162	3000	2700	596800	6985399	990.8		SAND	BROWN	N	20	7/21/2009	FA	Good
8163	3000	2750	596801	6985456	990		SAND	BROWN	N	20	7/21/2009	FA	Good, yellow brown
8164	3000	2800	596802	6985504	999.6		SAND	BROWN	N	20	7/21/2009	FA	Good, yellow brown
8165	3000	2850	596802	6985556	995.1		SAND	BROWN	Y	15	7/21/2009	FA	Good
8166	3000	2900	596800	6985599	999.6		SAND	BROWN	N	20	7/21/2009	FA	Good
8167	3000	2950	596801	6985650	1010.7		SAND	BROWN	N	15	7/21/2009	FA	Good, overtop talus
8168	3000	3000	596799	6985696	1018.2		CLAY	BROWN	N	20	7/21/2009	FA	Patchy permafrost
8169	3000	3050	596802	6985745	1032.1		HUMUS	BLACK	N	30	7/21/2009	FA	Frozen at depth
8170	3000	3100	596801	6985798	1056.1		SAND	BROWN	N	25	7/21/2009	FA	Poor, no soil
8171	3000	3150	596798	6985851	1058		CLAY	BROWN	N	20	7/21/2009	FA	Good
8172	3000	3200	596801	6985900	1071.5		SAND	GREY	N	15	7/21/2009	FA	None
8173	3000	3250	596799	6985949	1084.5		SAND	BROWN	N	15	7/21/2009	FA	Good
8174	3000	3300	596805	6985998	1089.8		SAND	BROWN	N	25	7/21/2009	FA	Good
8175	3000	3350	596800	6986051	1089.8		SAND	BROWN	N	30	7/21/2009	FA	Good
8176	3000	3400	596803	6986099	1095.3		SAND	GREY	N	25	7/21/2009	FA	None
8177	3000	3450	596800	6986150	1094.8		SAND	BROWN	N	25	7/21/2009	FA	Good
8178	3000	3500	596802	6986199	1098.4		SAND	BROWN	N	25	7/21/2009	FA	Good
8179	3000	3550	596800	6986251	1100.6		SAND	BROWN	N	25	7/21/2009	FA	Good
8180	3000	3600	596803	6986299	1102.5		SAND	BROWN	N	25	7/21/2009	FA	Good
8181	3000	3650	596804	6986351	1107.8		SAND	BROWN	N	20	7/21/2009	FA	Good
8182	3000	3700	596801	6986400	1116.7		SAND	BROWN	Y	35	7/21/2009	FA	None
8184	3000	3800	596803	6986501	1128.2		SAND	BROWN	N	15	7/21/2009	FA	Good
8185	3000	3850	596800	6986552	1119.1		SAND	BROWN	N	30	7/21/2009	FA	Good, some humus
8186	3000	3900	596801	6986600	1123.2		SAND	BROWN	N	30	7/21/2009	FA	None
8187	3000	3950	596802	6986650	1130.6		CLAY	BROWN	N	45	7/21/2009	FA	Mix with humus
8188	3000	4000	596801	6986707	1130.9		HUMUS	BLACK	N	30	7/21/2009	FA	No soil, overtop large talus boulders
8189	3000	4050	596802	6986749	1135.2		SAND	BROWN	N	25	7/21/2009	FA	Some humus
8190	3000	4100	596801	6986801	1142.2		SAND	BROWN	N	25	7/21/2009	FA	Coarse sand taken on moose trail
8191	3000	4150	596799	6986850	1146.5		SAND	GREY	N	25	7/21/2009	FA	Good
8192	3000	4200	596801	6986900	1148.2		SAND	BROWN	N	25	7/21/2009	FA	Good
8193	3000	4250	596801	6986951	1139.5		SAND	BROWN	N	35	7/21/2009	FA	None
8194	3000	4300	596803	6987000	1134.2		SAND	BROWN	N	25	7/21/2009	FA	Good
8195	3000	4350	596802	6987052	1127.7		SAND	BROWN	N	20	7/21/2009	FA	Some humus
8196	3000	4400	596803	6987099	1135.2		HUMUS	BROWN	N	35	7/21/2009	FA	Frozen at 30cm, some sand
8197	3000	4450	596802	6987150	1132.8		SAND	BROWN	N	25	7/21/2009	FA	None
8198	3000	4500	596803	6987194	1131.6		HUMUS	BROWN	N	30	7/21/2009	FA	Overtop talus
8199	3000	4550	596801	6987246	1128		CLAY	BROWN	N	20	7/21/2009	FA	Soliflucted slope
8200	3000	4600	596797	6987303	1117.6		SAND	GREY	N	30	7/21/2009	FA	Soliflucted slope
8201	3000	4650	596799	6987342	1097		SAND	GREY	N	30	7/21/2009	FA	Within talus, wet
8202	3000	4700	596800	6987398	1095.5		SAND	RUSTY	N	20	7/21/2009	FA	None
8203	3700	2700	597501	6985400	910.7		SAND	BROWN	N	20	7/22/2009	FA	Good
8204	3700	2750	597499	6985448	900.4		CLAY	BROWN	N	20	7/22/2009	FA	Fluffy soil overtop talus
8205	3700	2800	597499	6985497	905		SAND	BROWN	N	30	7/22/2009	FA	Good
8206	3700	2850	597502	6985550	915.1		CLAY	BROWN	N	20	7/22/2009	FA	Some humus
8207	3700	2900	597500	6985601	923		HUMUS	BLACK	Y	30	7/22/2009	FA	Some C horizon
8208	3700	2950	597498	6985655	929.2		SAND	BROWN	N	20	7/22/2009	FA	Good
8209	3700	3000	597501	6985684	947.5		CLAY	BROWN	N	20	7/22/2009	FA	Good, GPS weak
8210	3700	3050	597493	6985752	944.1		CLAY	BROWN	N	30	7/22/2009	FA	Good, GPS weak
8211	3700	3100	597503	6985806	963.8		CLAY	BROWN	N	20	7/22/2009	FA	Poor, GPS weak

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8212	3700	3150	597498	6985858	959.5		CLAY	BROWN	Y	25	7/22/2009	FA	Good, GPS weak
8213	3700	3200	597500	6985899	956.1		CLAY	BROWN	N	20	7/22/2009	FA	Overtop talus, GPS weak
8214	3700	3250	597503	6985951	960.5		CLAY	BROWN	N	25	7/22/2009	FA	Fine sand from root hairs, GPS weak
8215	3700	3300	597502	6985998	952.5		CLAY	BROWN	N	15	7/22/2009	FA	Fine, fluffy sand, GPS weak
8216	3700	3350	597495	6986051	976.3		SAND	BROWN	Y	40	7/22/2009	FA	C horizon in mafic talus, GPS weak
8217	3700	3400	597486	6986109	980.2		CLAY	BROWN	N	35	7/22/2009	FA	Overtop talus, GPS weak
8218	3700	3450	597499	6986150	975.4		CLAY	BROWN	N	25	7/22/2009	FA	GPS weak
8219	3700	3500	597499	6986202	978		CLAY	RUSTY	N	10	7/22/2009	FA	Overtop & between talus, GPS weak
8220	3700	3550	597496	6986253	978.7		SAND	BROWN	N	15	7/22/2009	FA	Good, GPS weak
8221	3700	3600	597499	6986304	997.5		SAND	BROWN	N	25	7/22/2009	FA	Good, GPS weak
8222	3700	3650	597496	6986354	1007.6		CLAY	BROWN	N	35	7/22/2009	FA	Some humus, GPS weak
8223	3700	3700	597501	6986401	1024.9		CLAY	RUSTY	N	15	7/22/2009	FA	Good, GPS weak
8224	3700	3750	597500	6986454	1037.6		CLAY	BROWN	Y	15	7/22/2009	FA	Poor, GPS weak
8225	3700	3800	597501	6986501	1048.4		CLAY	BROWN	N	15	7/22/2009	FA	Overtop talus, GPS weak
8226	3700	3850	597508	6986549	1063.1		CLAY	BROWN	N	45	7/22/2009	FA	GPS weak
8227	3700	3900	597504	6986602	1077.5		SAND	BROWN	N	25	7/22/2009	FA	Good, GPS weak
8228	3700	3950	597500	6986649	1096.7		SAND	BROWN	Y	15	7/22/2009	FA	GPS weak
8229	3700	4000	597497	6986698	1113.1		CLAY	BROWN	N	15	7/22/2009	FA	Poor, GPS weak
8230	3700	4050	597505	6986749	1126.5		HUMUS	BLACK	N	30	7/22/2009	FA	Frozen at 30cm
8231	3700	4100	597500	6986798	1144.1		SAND	BROWN	N	30	7/22/2009	FA	None
8232	3700	4150	597498	6986850	1162.8		SAND	RUSTY	N	20	7/22/2009	FA	Good
8233	3700	4200	597503	6986896	1174.4		HUMUS	BLACK	Y	40	7/22/2009	FA	Organic rich overtop talus
8234	3700	4250	597500	6986949	1186.1		SAND	BROWN	Y	30	7/22/2009	FA	C horizon
8235	3700	4300	597501	6986996	1201.8		CLAY	BROWN	N	40	7/22/2009	FA	Silt & humus mix
8236	3700	4350	597495	6987050	1215.2		CLAY	BROWN	N	20	7/22/2009	FA	None
8237	3700	4400	597500	6987099	1228.4		CLAY	BROWN	N	20	7/22/2009	FA	Some humus
8238	3700	4450	597498	6987149	1239.7		CLAY	BROWN	N	45	7/22/2009	FA	Silt & humus mix
8239	3700	4500	597503	6987197	1247.2		CLAY	BROWN	N	25	7/22/2009	FA	Good
8240	3700	4550	597496	6987251	1255.6		CLAY	BROWN	N	5	7/22/2009	FA	Good
8241	3700	4600	597499	6987301	1264.7		SAND	RUSTY	N	20	7/22/2009	FA	Good
8242	3700	4650	597500	6987346	1270.5		SAND	RUSTY	Y	10	7/22/2009	FA	Good
8243	3700	4700	597502	6987399	1272.9		CLAY	BROWN	N	30	7/22/2009	FA	Grey & brown mottled, wet
8244	3700	4750	597502	6987449	1273.6		CLAY	BROWN	N	15	7/22/2009	FA	Frozen, collected from several sites
8245	3700	4800	597500	6987501	1266.4		CLAY	BROWN	N	25	7/22/2009	FA	Soliflucted slope
8246	3800	4800	597600	6987498	1293.8		CLAY	BROWN	N	20	7/23/2009	FA	None
8247	3800	4750	597600	6987451	1290.4		CLAY	BROWN	N	25	7/23/2009	FA	On claim line
8248	3800	4700	597601	6987398	1286.1		CLAY	BROWN	N	20	7/23/2009	FA	None
8249	3800	4650	597603	6987348	1278.2		SAND	BROWN	N	15	7/23/2009	FA	None
8250	3800	4600	597602	6987299	1267.4		CLAY	BROWN	N	25	7/23/2009	FA	None
8251	3800	4550	597599	6987251	1258.7		SAND	GREY	N	35	7/23/2009	FA	None
8252	3800	4500	597600	6987197	1248.9		SAND	GREY	N	35	7/23/2009	FA	None
8253	3800	4450	597599	6987149	1238.1		SAND	BROWN	N	40	7/23/2009	FA	None
8254	3800	4400	597600	6987100	1230.8		HUMUS	BLACK	N	55	7/23/2009	FA	Poor, some sand, humus is not micaceous
8255	3800	4350	597596	6987050	1214.3		HUMUS	BROWN	N	35	7/23/2009	FA	Silt & humus mix
8256	3800	4300	597600	6986995	1195.8		SAND	BROWN	N	45	7/23/2009	FA	None
8257	3800	4250	597596	6986951	1183		HUMUS	BLACK	N	50	7/23/2009	FA	Some sand
8258	3800	4200	597601	6986901	1164.5		HUMUS	BLACK	N	35	7/23/2009	FA	None
8259	3800	4150	597600	6986847	1153.7		SAND	BROWN	N	25	7/23/2009	FA	None
8260	3800	4100	597599	6986800	1147.9		SAND	BROWN	N	20	7/23/2009	FA	None
8261	3800	4100	597598	6986799	1133.3		SAND	BROWN	N	20	7/23/2009	FA	Messed up, field duplicate of 8260
8262	3800	4050	597601	6986748	1104		SAND	BROWN	N	0	7/23/2009	FA	From surface on moose trail

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8263	3800	4000	597602	6986702	1076.8		SAND	BROWN	Y	25	7/23/2009	FA	Foliated granite talus
8264	3800	3950	597602	6986647	1059.5		SAND	BROWN	N	40	7/23/2009	FA	Mix with humus
8265	3800	3900	597603	6986601	1048		SAND	BROWN	N	20	7/23/2009	FA	Foliated granite talus
8266	3800	3850	597602	6986549	1027.8		SAND	RUSTY	N	30	7/23/2009	FA	Foliated granite talus
8267	3800	3800	597600	6986500			SAND	RUSTY	N	20	7/23/2009	FA	Foliated granite talus
8268	3800	3750	597599	6986450	996.8		HUMUS	BLACK	N	50	7/23/2009	FA	In centre of valley
8269	3800	3700	597600	6986400	986.9		SAND	BROWN	N	0	7/23/2009	FA	Dry bed stream sample
8270	3800	3650	597601	6986347	976.8		SAND	BROWN	N	25	7/23/2009	FA	East side of stream
8271	3800	3600	597601	6986302	968.2		SAND	BROWN	N	25	7/23/2009	FA	None
8272	3800	3550	597602	6986248	954		SAND	BROWN	N	20	7/23/2009	FA	None
8273	3800	3500	597600	6986199	949.2		CLAY	BROWN	N	30	7/23/2009	FA	None
8274	3800	3450	597600	6986150	941		CLAY	BROWN	N	30	7/23/2009	FA	None
8275	3800	3400	597603	6986099	932.4		CLAY	BROWN	N	15	7/23/2009	FA	Frozen at 15cm
8276	3800	3350	597603	6986046	917.7		CLAY	BROWN	N	15	7/23/2009	FA	Now on west side of stream
8277	3800	3300	597599	6985999	923		CLAY	BROWN	N	20	7/23/2009	FA	Overtop & between talus
8278	3800	3250	597598	6985950	916		CLAY	BROWN	N	20	7/23/2009	FA	Mix with humus
8279	3800	3200	597597	6985895	908.3		CLAY	BROWN	N	20	7/23/2009	FA	Mafic schist
8280	3800	3150	597599	6985849	903.3		CLAY	BROWN	N	25	7/23/2009	FA	Within talus
8281	3800	3100	597601	6985797	899.4		CLAY	BROWN	N	15	7/23/2009	FA	Fine silt in roothairs
8282	3800	3050	597607	6985750	889.8		CLAY	BROWN	N	35	7/23/2009	FA	Fine silt in roothairs
8283	3800	3000	597603	6985698	904.2		CLAY	TAN	N	30	7/23/2009	FA	Mafic schist
8284	3800	2950	597580	6985645	900.2		CLAY	TAN	N	30	7/23/2009	FA	Good, GPS weak
8285	3800	2900	597601	6985590	895.1		SAND	BROWN	N	25	7/23/2009	FA	Mafic schist
8286	3800	2850	597598	6985540	900.2		CLAY	BROWN	N	30	7/23/2009	FA	Taken within vole hole
8287	3800	2800	597602	6985496	871.8		CLAY	TAN	N	30	7/23/2009	FA	Good, fluffy soil
8288	3800	2750	597600	6985450			SAND	BROWN	Y	30	7/23/2009	FA	Mafic schist
8289	3800	2700	597605	6985404	858.3		SAND	TAN	N	30	7/23/2009	FA	None
8290	4200	2700	598001	6985396	950.4		SAND	BROWN	N	15	7/24/2009	FA	Good
8291	4200	2750	597998	6985451	952.3		CLAY	BROWN	N	10	7/24/2009	FA	Overtop talus
8292	4200	2800	598004	6985501			CLAY	TAN	N	20	7/24/2009	FA	Good
8293	4200	2850	598002	6985552	981.4		SAND	TAN	N	15	7/24/2009	FA	Good
8294	4200	2900	598000	6985602	987.4		SAND	TAN	N	10	7/24/2009	FA	Overtop talus
8295	4200	2950	597999	6985659	990		SAND	TAN	N	20	7/24/2009	FA	Good
8296	4200	3000	598003	6985701	993.4		SAND	TAN	Y	20	7/24/2009	FA	Good
8297	4200	3050	597997	6985752	1008.8		SAND	TAN	N	25	7/24/2009	FA	None
8298	4200	3100	597998	6985803	1014.1		SAND	TAN	N	20	7/24/2009	FA	Good
8299	4200	3150	598000	6985851	1024.4		SAND	TAN	N	25	7/24/2009	FA	Good
8300	4200	3200	597996	6985901	1035.7		SAND	TAN	N	30	7/24/2009	FA	Good
8301	4200	3250	597999	6985952	1036.7		SAND	BROWN	N	15	7/24/2009	FA	Good
8302	4200	3300	597998	6986004	1046		SAND	TAN	N	25	7/24/2009	FA	None
8303	4200	3350	598000	6986051	1053.5		SAND	BROWN	Y	10	7/24/2009	FA	Good, under talus
8304	4200	3400	597999	6986097	1062.4		CLAY	TAN	Y	15	7/24/2009	FA	Within talus
8305	4200	3450	597998	6986149	1067.9		SAND	BROWN	N	25	7/24/2009	FA	Good
8306	4200	3500	598001	6986197	1075.8		CLAY	BROWN	N	25	7/24/2009	FA	Wet
8307	4200	3550	597994	6986252	1081.1		SAND	GREY	N	20	7/24/2009	FA	Within talus
8308	4200	3600	598003	6986302	1094.6		CLAY	GREY	N	20	7/24/2009	FA	Talus under moss
8309	4200	3650	598001	6986349	1101.3		SAND	BROWN	N	30	7/24/2009	FA	None
8310	4200	3700	597999	6986403	1113.3		SAND	BROWN	N	25	7/24/2009	FA	Good
8311	4200	3750	598001	6986449	1124.4		TALLUS	BROWN	Y	15	7/24/2009	FA	Poor
8312	4200	3800	598000	6986500	1134.5		CLAY	BROWN	N	15	7/24/2009	FA	Good, talus under moss, soil pocket
8313	4200	3850	598000	6986552	1144.1		CLAY	BROWN	N	15	7/24/2009	FA	Poor

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8314	4200	3900	598002	6986602	1152.7		CLAY	BROWN	N	15	7/24/2009	FA	None
8315	4200	3950	597999	6986652	1160.2		CLAY	BROWN	N	15	7/24/2009	FA	None
8316	4200	4000	598000	6986701	1168.6		CLAY	BROWN	N	15	7/24/2009	FA	Within talus
8317	4200	4050	598000	6986751	1174.6		CLAY	BROWN	N	10	7/24/2009	FA	Overtop talus
8318	4200	4100	598001	6986801	1184.5		SAND	BROWN	N	15	7/24/2009	FA	Good
8319	4200	4150	598002	6986852	1193.6		CLAY	BROWN	N	10	7/24/2009	FA	Overtop & within talus
8320	4200	4200	598002	6986900	1199.8		CLAY	RUSTY	N	25	7/24/2009	FA	Good
8321	4200	4250	598001	6986951	1210.9		CLAY	BROWN	N	25	7/24/2009	FA	Good, some C horizon, mafic schist
8322	4200	4300	597998	6987000	1217.1		CLAY	BROWN	N	25	7/24/2009	FA	Good
8323	4200	4350	598001	6987049	1226.5		CLAY	BROWN	N	35	7/24/2009	FA	Good, deep moss
8324	4200	4400	597999	6987101	1237.3		CLAY	BROWN	N	20	7/24/2009	FA	Talus under moss
8325	4200	4450	597999	6987150	1247.2		CLAY	BROWN	N	30	7/24/2009	FA	Good
8326	4200	4500	598000	6987201	1258.5		SAND	BROWN	N	25	7/24/2009	FA	Good
8327	4200	4550	598000	6987250	1270.5		CLAY	BROWN	N	30	7/24/2009	FA	Good
8328	4200	4600	598002	6987300	1279.9		CLAY	BROWN	N	25	7/24/2009	FA	Good
8329	4200	4650	598007	6987356	1289.5		CLAY	BROWN	N	30	7/24/2009	FA	Moved station to find soil
8330	4200	4700	598000	6987401	1295.7		CLAY	BROWN	N	25	7/24/2009	FA	Good
8331	4200	4750	597998	6987453	1303.2		CLAY	BROWN	N	25	7/24/2009	FA	Good
8332	4200	4800	598000	6987501	1309.2		CLAY	BROWN	N	20	7/24/2009	FA	None
8335	2400	4500	596204	6987203	905		CLAY	BROWN	N	30	7/25/2009	FA	Good, patchy frost
8336	2400	4550	596199	6987250	910.7		SAND	BROWN	N	25	7/25/2009	FA	Good, under talus
8337	2400	4600	596204	6987296	945.1		TALUS	BROWN	Y	20	7/25/2009	FA	Within talus
8338	2400	4650	596196	6987353	952.5		TALUS	TAN	Y	30	7/25/2009	FA	Fine sand in roothairs
8339	2400	4700	596201	6987408	983.8		TALUS	BROWN	Y	30	7/25/2009	FA	Good, soil pocket
8340	2400	4750	596200	6987451	999.4		TALUS	TAN	Y	40	7/25/2009	FA	Good, soil pocket
8341	2400	4800	596201	6987498	1010.2		SAND	BROWN	N	40	7/25/2009	FA	Good, soil pocket
8342	2400	4850	596196	6987550	1024.2		TALUS	BROWN	Y	20	7/25/2009	FA	Within talus
8343	2400	4900	596198	6987600	1030.4		TALUS	RUSTY	Y	30	7/25/2009	FA	None
8344	2400	4950	596200	6987650	1033.1		TALUS	BROWN	Y	35	7/25/2009	FA	Good
8345	2400	5000	596199	6987702	1026.3		SAND	BROWN	Y	30	7/25/2009	FA	Patchy frozen ground
8346	2500	5050	596299	6987750	992.7		CLAY	BROWN	Y	30	7/25/2009	FA	Wet, rocky
8347	2500	5000	596302	6987699	984		TALUS	BROWN	Y	40	7/25/2009	FA	Wet
8348	2500	4950	596302	6987650	995.8		SAND	RUSTY	Y	25	7/25/2009	FA	Under talus, botitei granite gneiss
8349	2500	4900	596299	6987600	991.2		SAND	BROWN	N	30	7/25/2009	FA	Poor
8350	2500	4850	596301	6987549	986.4		CLAY	BROWN	N	45	7/25/2009	FA	Fresh soil pit? between stn 8350 & 8351
8351	2500	4800	596301	6987504	978.5		SAND	BROWN	N	30	7/25/2009	FA	Good
8352	2500	4750	596296	6987450	961.4		CLAY	TAN	N	20	7/25/2009	FA	Within & under talus-good;poor GPS
8353	2500	4700	596300	6987396	946.5		CLAY	BROWN	N	25	7/25/2009	FA	Under talus, steep slope
8354	2500	4650	596297	6987346	941.7		CLAY	BROWN	N	25	7/25/2009	FA	Within talus
8356	2500	4550	596296	6987249	917.9		CLAY	BROWN	N	25	7/25/2009	FA	Frozen at 25cm
8357	2500	4500	596300	6987200	920.1		CLAY	BROWN	N	30	7/25/2009	FA	Frozen
8358	2500	4450	596301	6987147	917.2		HUMUS	BLACK	N	30	7/25/2009	FA	Frozen
8359	2500	4400	596299	6987105	922.5		SAND	BROWN	Y	30	7/25/2009	FA	Good, from vole hole
8360	2500	4300	596300	6987009	927.1		HUMUS	BLACK	N	30	7/25/2009	FA	Skipped stn 4350, in creek
8361	2500	4250	596300	6986949	929.5		SAND	BROWN	Y	25	7/25/2009	FA	Under talus
8362	2500	4200	596299	6986899	932.1		CLAY	BROWN	N	15	7/25/2009	FA	Overtop & under talus
8363	2500	4150	596299	6986847	938.6		SAND	BROWN	Y	35	7/25/2009	FA	None
8364	2500	4100	596302	6986799	929.5		HUMUS	BROWN	N	35	7/25/2009	FA	Some silt
8365	2500	4050	596300	6986749	922		HUMUS	BROWN	N	30	7/25/2009	FA	Frozen, some silt
8366	2500	4000	596299	6986700	920.6		HUMUS	BROWN	N	30	7/25/2009	FA	Frozen
8367	2500	3950	596300	6986651	922.7		HUMUS	BROWN	N	15	7/25/2009	FA	Good, loamy soil

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
8368	2500	3900	596302	6986603	929.5		CLAY	BROWN	N	0	7/25/2009	FA	Fine sand on surface, seep 10m uphill
8369	2500	3850	596302	6986550	917		CLAY	BROWN	N	25	7/25/2009	FA	Fine sand
8371	2500	3750	596299	6986450	915.1		CLAY	BROWN	N	30	7/25/2009	FA	From uprooted tree trunk
8372	2500	3700	596305	6986395	917.5		CLAY	BROWN	N	35	7/25/2009	FA	Thick alder patch, loamy soil, GPS weak
8373	2500	3650	596304	6986349	921.8		SAND	BROWN	N	45	7/25/2009	FA	GPS weak
8374	2500	3600	596295	6986297	905		SAND	BROWN	Y	35	7/25/2009	FA	Out of alder patch
8375	2500	3550	596300	6986244	910.7		SAND	BROWN	N	35	7/25/2009	FA	None
8376	2500	3500	596298	6986199	914.6		SAND	RUSTY	N	20	7/25/2009	FA	GPS weak
8377	2500	3450	596306	6986151	917.5		SAND	RUSTY	N	20	7/25/2009	FA	GPS weak
8378	2500	3400	596307	6986094	915.8		SAND	BROWN	N	25	7/25/2009	FA	GPS weak
8379	2500	3350	596301	6986048	909.8		SAND	BROWN	N	45	7/25/2009	FA	North side of claim line
8380	2500	3300	596300	6985998	903		CLAY	BROWN	N	40	7/25/2009	FA	Loamy soil
8381	2500	3250	596297	6985951	899.2		CLAY	BROWN	N	35	7/25/2009	FA	Loamy soil
8382	2500	3200	596301	6985900	893.4		SAND	BROWN	N	30	7/25/2009	FA	None
8383	2500	3150	596307	6985850	893.4		CLAY	BROWN	N	50	7/25/2009	FA	Loamy soil
8384	2500	3100	596299	6985801	883.1		SAND	BROWN	N	45	7/25/2009	FA	Coarse loamy soil
8385	2500	3050	596300	6985749	873.5		CLAY	TAN	N	25	7/25/2009	FA	Start getting talus again
8386	2500	3000	596304	6985698	839.8		SAND	TAN	N	20	7/25/2009	FA	None
8387	2500	2950	596299	6985648	836.9		SAND	RUSTY	N	25	7/25/2009	FA	None
8388	2500	2900	596306	6985597	839.1		CLAY	TAN	N	15	7/25/2009	FA	None
8389	2500	2850	596311	6985542	830.9		HUMUS	BLACK	N	75	7/25/2009	FA	None
8390	2500	2800	596296	6985495	812		CLAY	BROWN	N	40	7/25/2009	FA	None
8391	2500	2750	596297	6985441	815.6		SAND	BROWN	N	45	7/25/2009	FA	Back into loamy soil
8392	2500	2700	596295	6985400	800.2		SAND	RUSTY	N	20	7/25/2009	FA	None
8393	2400	4450	596191	6987151	901.1		SAND	BROWN	Y	20	7/26/2009	FA	On cat road, in place
8394	2400	4400	596191	6987100	893.4		SAND	BROWN	Y	20	7/26/2009	FA	On cat road, in place
8395	2400	4350	596200	6987051	893.2		SAND	TAN	Y	30	7/26/2009	FA	On edge of pingo gulch
8396	2400	4300	596202	6986997	874.4		SAND	BROWN	Y	60	7/26/2009	FA	Taken from bank, turns out to be placer tailings
8397	2400	4250	596208	6986950	882.4		CLAY	BROWN	N	35	7/26/2009	FA	Within talus, moved E to avoid disturbed ground
8398	2400	4200	596205	6986897	876.4		TALUS	BROWN	Y	30	7/26/2009	FA	Within talus, staying on undisturbed ground
8399	2400	4150	596200	6986849	872		CLAY	BROWN	N	25	7/26/2009	FA	Overtop talus
8400	2400	4100	596201	6986799	875.4		CLAY	BROWN	N	30	7/26/2009	FA	Overtop talus
8401	2400	4050	596200	6986752	873.2		HUMUS	BLACK	N	30	7/26/2009	FA	Frozen at depth
8402	2400	4000	596198	6986685	874.4		CLAY	BROWN	N	60	7/26/2009	FA	Moved 10m south to get sample
9000	1200	2800	594996	6985500	959.3		SAND	BROWN	Y	15	7/17/2009	CA	None
9001	1200	2850	595001	6985552	969.6		SAND	BROWN	N	30	7/17/2009	CA	None
9002	1200	2900	595003	6985603	973.2		HUMUS	BROWN	Y	15	7/17/2009	CA	None
9003	1200	2950	595001	6985656	976.3		SAND	BROWN	Y	60	7/17/2009	CA	None
9004	1200	3000	595002	6985703	982.6		SAND	BROWN	Y	15	7/17/2009	CA	None
9005	1200	3050	594999	6985756	987.9		SAND	BROWN	Y	15	7/17/2009	CA	None
9006	1200	3100	595000	6985800	993.6		SAND	BROWN	Y	30	7/17/2009	CA	None
9007	1200	3150	595001	6985852	1000.9		SAND	RUSTY	Y	45	7/17/2009	CA	None
9008	1200	3200	595001	6985899	1005.9		TALUS	GREY	Y	30	7/17/2009	CA	None
9009	1200	3250	595003	6985951	1008.5		HUMUS	BLACK	Y	60	7/17/2009	CA	None
9010	1200	3700	595003	6986400	1090.7		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9011	1200	3750	594999	6986450	1098.7		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9012	1200	3800	594999	6986501	1111.6		CLAY	RUSTY	N	60	7/17/2009	CA	None
9013	1200	3850	595001	6986551	1119.3		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9014	1200	3900	594999	6986602	1126.5		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9015	1200	3950	595001	6986650	1130.4		CLAY	RUSTY	Y	15	7/17/2009	CA	None
9016	1200	4000	595000	6986701	1134.2		CLAY	TAN	N	45	7/17/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9017	1200	4050	595004	6986750	1138.1		CLAY	RUSTY	N	30	7/17/2009	CA	None
9018	1200	4100	594998	6986802	1146		CLAY	TAN	Y	30	7/17/2009	CA	None
9019	1200	4150	595002	6986852	1152.3		CLAY	BROWN	Y	60	7/17/2009	CA	None
9020	1200	4200	594997	6986901	1157.1		TALUS	BROWN	Y	30	7/17/2009	CA	None
9021	1200	4250	595005	6986950	1161.9		CLAY	RUSTY	Y	45	7/17/2009	CA	None
9022	1200	4300	595001	6986999	1166.9		CLAY	BROWN	N	60	7/17/2009	CA	None
9023	1200	4350	595001	6987052	1174.8		CLAY	BROWN	N	60	7/17/2009	CA	None
9024	1100	4300	594898	6986999	1158.5		TALUS	RUSTY	Y	30	7/17/2009	CA	None
9025	1100	4250	594900	6986952	1152.3		CLAY	BROWN	N	60	7/17/2009	CA	None
9026	1100	4200	594898	6986900	1148.9		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9027	1100	4150	594903	6986849	1143.8		CLAY	RUSTY	Y	45	7/17/2009	CA	None
9028	1100	4100	594899	6986801	1140.7		CLAY	BROWN	Y	30	7/17/2009	CA	None
9029	1100	4050	594901	6986751	1139		CLAY	BROWN	Y	30	7/17/2009	CA	None
9030	1100	4000	594901	6986699	1134.7		CLAY	RUSTY	Y	30	7/17/2009	CA	None
9031	1100	3950	594901	6986651	1129.9		CLAY	RUSTY	Y	15	7/17/2009	CA	None
9032	1100	3900	594900	6986598	1122.5		CLAY	BROWN	Y	30	7/17/2009	CA	None
9033	1100	3850	594900	6986549	1113.3		CLAY	BROWN	Y	45	7/17/2009	CA	None
9034	1100	3800	594901	6986498	1102.3		CLAY	TAN	Y	15	7/17/2009	CA	None
9035	1000	3950	594799	6986645	1120.3		CLAY	RUSTY	Y	30	7/17/2009	CA	None
9036	1000	4000	594799	6986702	1127.7		CLAY	RUSTY	N	45	7/17/2009	CA	None
9037	1000	4050	594800	6986752	1130.4		CLAY	BROWN	Y	60	7/17/2009	CA	None
9038	1000	4100	594802	6986799	1133.8		CLAY	RUSTY	Y	60	7/17/2009	CA	None
9039	1000	4150	594799	6986850	1134.2		CLAY	GREY	Y	60	7/17/2009	CA	None
9040	1000	4200	594799	6986900	1140.2		CLAY	GREY	N	60	7/17/2009	CA	None
9041	2000	4700	595805	6987396	1054		CLAY	BROWN	N	60	7/18/2009	CA	None
9042	2000	4650	595803	6987350	1053		TALUS	TAN	N	15	7/18/2009	CA	None
9043	2000	4600	595803	6987297	1033.8		TALUS	BLACK	N	60	7/18/2009	CA	None
9044	2000	4550	595797	6987248	1011.2		TALUS	TAN	Y	15	7/18/2009	CA	None
9045	2000	4500	595804	6987198	1000.1		TALUS	BROWN	N	30	7/18/2009	CA	None
9046	2000	4450	595805	6987151	1010.9		TALUS	BLACK	N	45	7/18/2009	CA	None
9047	2000	4400	595800	6987100	1025.8		TALUS	GREY	N	15	7/18/2009	CA	None
9048	2000	4350	595800	6987047	1032.6		TALUS	TAN	Y	15	7/18/2009	CA	None
9049	2000	4300	595801	6987001	1037.9		TALUS	GREY	Y	30	7/18/2009	CA	None
9050	2000	4250	595796	6986945	1040.3		TALUS	RUSTY	Y	15	7/18/2009	CA	None
9051	2000	4200	595798	6986900	1042.4		TALUS	RUSTY	Y	15	7/18/2009	CA	None
9052	2000	4150	595801	6986847	1043.1		TALUS	RUSTY	Y	15	7/18/2009	CA	None
9053	2000	4100	595804	6986797	1044.6		TALUS	RUSTY	N	60	7/18/2009	CA	None
9054	2000	4050	595798	6986749	1035		TALUS	RUSTY	Y	15	7/18/2009	CA	None
9055	2000	4000	595800	6986700	1026.1		CLAY	RUSTY	N	30	7/18/2009	CA	None
9056	2000	3950	595802	6986650	1013.3		CLAY	RUSTY	N	30	7/18/2009	CA	None
9057	2000	3900	595801	6986598	1002.5		CLAY	BROWN	N	45	7/18/2009	CA	None
9058	2000	3850	595797	6986550	998.2		CLAY	BROWN	N	30	7/18/2009	CA	None
9059	2000	3800	595795	6986503	968.6		TALUS	TAN	N	15	7/18/2009	CA	None
9060	2000	3750	595800	6986450	960.5		TALUS	RUSTY	N	10	7/18/2009	CA	None
9061	2000	3700	595805	6986401	928.8		TALUS	TAN	N	45	7/18/2009	CA	None
9062	2000	3650	595805	6986344	886		HUMUS	BLACK	N	45	7/18/2009	CA	None
9064	2000	3550	595803	6986258	900.9		HUMUS	BLACK	N	15	7/18/2009	CA	None
9065	2000	3500	595802	6986199	909.5		HUMUS	BLACK	N	15	7/18/2009	CA	None
9066	2000	3450	595798	6986151	913.9		HUMUS	BLACK	N	30	7/18/2009	CA	None
9067	2000	3400	595803	6986099	920.1		HUMUS	BLACK	N	45	7/18/2009	CA	None
9068	2000	3350	595800	6986051	921.5		HUMUS	BLACK	Y	60	7/18/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9069	2000	3300	595799	6986000	926.1		HUMUS	BLACK	N	60	7/18/2009	CA	None
9070	2000	3250	595800	6985950	933.8		HUMUS	GREY	Y	60	7/18/2009	CA	None
9071	2000	3200	595804	6985896	930.2		TALUS	TAN	Y	45	7/18/2009	CA	None
9072	2000	3150	595802	6985851	944.4		TALUS	TAN	Y	30	7/18/2009	CA	None
9073	2000	3100	595803	6985799	947.5		CLAY	TAN	N	60	7/18/2009	CA	None
9074	2000	3050	595800	6985750	955.7		TALUS	TAN	Y	15	7/18/2009	CA	None
9075	2000	3000	595801	6985700	964.1		TALUS	TAN	N	15	7/18/2009	CA	None
9076	2000	2950	595798	6985647	969.8		TALUS	TAN	Y	30	7/18/2009	CA	None
9077	2000	2900	595797	6985598	973.5		TALUS	TAN	Y	30	7/18/2009	CA	None
9078	2000	2850	595798	6985550	971.8		TALUS	TAN	N	15	7/18/2009	CA	None
9079	2000	2800	595801	6985502	967		TALUS	TAN	Y	15	7/18/2009	CA	None
9080	2000	2750	595799	6985446	968.9		TALUS	BROWN	Y	15	7/18/2009	CA	None
9081	2000	2700	595804	6985397	971.5		TALUS	TAN	Y	15	7/18/2009	CA	None
9082	2100	2700	595904	6985403	930.9		TALUS	TAN	Y	60	7/18/2009	CA	None
9083	2100	2750	595901	6985451	926.6		TALUS	TAN	Y	60	7/18/2009	CA	None
9084	2100	2800	595902	6985502	931.6		TALUS	BROWN	Y	60	7/18/2009	CA	None
9085	2100	2850	595901	6985551	929.7		TALUS	TAN	Y	60	7/18/2009	CA	None
9086	2100	2900	595899	6985602	923.9		HUMUS	BROWN	Y	60	7/18/2009	CA	None
9087	2100	2950	595899	6985651	922		TALUS	TAN	Y	45	7/18/2009	CA	None
9088	2100	3000	595897	6985701	917.9		HUMUS	BROWN	Y	60	7/18/2009	CA	None
9089	2100	3050	595899	6985748	905		HUMUS	BROWN	Y	60	7/18/2009	CA	None
9090	2100	3100	595900	6985800	898.2		TALUS	TAN	Y	60	7/18/2009	CA	None
9091	2100	3150	595900	6985850	895.1		HUMUS	BROWN	Y	60	7/18/2009	CA	None
9092	1700	4600	595498	6987300	1133.3		HUMUS	BROWN	N	30	7/19/2009	CA	None
9093	1700	4550	595499	6987249	1128.7		HUMUS	BLACK	Y	30	7/19/2009	CA	None
9094	1700	4500	595499	6987199	1128.2		HUMUS	BLACK	N	30	7/19/2009	CA	None
9095	1700	4450	595499	6987149	1116.4		TALUS	TAN	N	15	7/19/2009	CA	None
9096	1700	4400	595500	6987101	1119.1		TALUS	TAN	N	15	7/19/2009	CA	None
9097	1700	4350	595499	6987049	1120.5		TALUS	BROWN	Y	30	7/19/2009	CA	None
9098	1700	4300	595499	6987000	1115.5		HUMUS	BROWN	N	30	7/19/2009	CA	None
9099	1700	4250	595499	6986950	1104		TALUS	BROWN	Y	30	7/19/2009	CA	None
9100	1700	4200	595501	6986902	1098.7		HUMUS	BROWN	N	30	7/19/2009	CA	None
9101	1700	4150	595502	6986850	1078.2		TALUS	BROWN	Y	30	7/19/2009	CA	None
9102	1700	4100	595499	6986801	1055.9		TALUS	TAN	N	15	7/19/2009	CA	None
9103	1700	4050	595500	6986751	1031.6		TALUS	BROWN	Y	30	7/19/2009	CA	None
9104	1700	4000	595499	6986699	1017.2		HUMUS	BLACK	N	60	7/19/2009	CA	None
9105	1700	3950	595502	6986651	998.7		TALUS	RUSTY	N	45	7/19/2009	CA	None
9106	1700	3900	595499	6986600	1000.6		HUMUS	RUSTY	N	30	7/19/2009	CA	None
9107	1700	3850	595500	6986550	988.8		TALUS	RUSTY	N	30	7/19/2009	CA	None
9108	1700	3800	595499	6986499	990.3		HUMUS	BROWN	Y	30	7/19/2009	CA	None
9109	1700	3750	595501	6986450	993.4		HUMUS	BROWN	N	45	7/19/2009	CA	None
9110	1700	3700	595498	6986399	998.9		HUMUS	BROWN	N	45	7/19/2009	CA	None
9111	1700	3650	595499	6986350	1002.1		HUMUS	BROWN	N	45	7/19/2009	CA	None
9112	1700	3600	595499	6986301	1008.8		HUMUS	BLACK	N	60	7/19/2009	CA	None
9113	1700	3550	595501	6986251	1010.5		HUMUS	GREY	N	45	7/19/2009	CA	None
9114	1700	3500	595501	6986200	1011.9		HUMUS	GREY	Y	45	7/19/2009	CA	None
9115	1700	3450	595501	6986147	1018.9		HUMUS	BLACK	Y	60	7/19/2009	CA	None
9116	1700	3400	595501	6986100	1023.7		HUMUS	BLACK	N	60	7/19/2009	CA	None
9117	1700	3350	595501	6986049	1030.2		HUMUS	BLACK	Y	45	7/19/2009	CA	None
9118	1700	3300	595501	6985998	1034.5		HUMUS	TAN	Y	30	7/19/2009	CA	None
9119	1700	3250	595499	6985950	1043.9		HUMUS	TAN	Y	60	7/19/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9120	1700	3200	595503	6985899	1052.8		TALUS	GREY	Y	45	7/19/2009	CA	None
9121	1700	3150	595500	6985851	1058		HUMUS	TAN	N	45	7/19/2009	CA	None
9122	1700	3100	595500	6985798	1061.9		TALUS	RUSTY	N	45	7/19/2009	CA	None
9123	1700	3050	595502	6985750	1062.1		TALUS	RUSTY	Y	30	7/19/2009	CA	None
9124	1700	3000	595500	6985700	1064.5		TALUS	GREY	N	30	7/19/2009	CA	None
9125	1700	2950	595501	6985649	1065.7		TALUS	RUSTY	N	45	7/19/2009	CA	None
9126	1700	2900	595498	6985599	1061.4		TALUS	RUSTY	N	30	7/19/2009	CA	None
9127	1700	2850	595498	6985549	1057.6		TALUS	RUSTY	N	30	7/19/2009	CA	None
9128	1700	2800	595501	6985499	1055.4		CLAY	RUSTY	N	30	7/19/2009	CA	None
9129	1700	2750	595500	6985449	1051.6		CLAY	RUSTY	N	30	7/19/2009	CA	None
9130	1700	2700	595501	6985398	1045.6		TALUS	BROWN	Y	30	7/19/2009	CA	None
9131	2900	2700	596704	6985399	951.3		SAND	TAN	Y	15	7/20/2009	CA	None
9132	2900	2750	596695	6985450	957.6		SAND	GREY	N	15	7/20/2009	CA	None
9133	2900	2800	596701	6985499	957.4		SAND	GREY	N	15	7/20/2009	CA	None
9134	2900	2850	596697	6985552	961.4		SAND	BROWN	N	20	7/20/2009	CA	None
9135	2900	2900	596700	6985602	969.4		SAND	GREY	N	60	7/20/2009	CA	None
9136	2900	2950	596697	6985653	981.1		HUMUS	BLACK	Y	30	7/20/2009	CA	None
9137	2900	3000	596701	6985701	994.6		SAND	BROWN	Y	30	7/20/2009	CA	None
9138	2900	3050	596704	6985752	1007.1		SAND	TAN	Y	30	7/20/2009	CA	None
9139	2900	3100	596699	6985801	1016.7		TALUS	TAN	Y	30	7/20/2009	CA	None
9140	2900	3150	596703	6985855	1024.4		TALUS	TAN	Y	15	7/20/2009	CA	None
9141	2900	3200	596701	6985901	1029		SAND	TAN	N	30	7/20/2009	CA	None
9142	2900	3250	596697	6985951	1034.7		SAND	BROWN	Y	30	7/20/2009	CA	None
9143	2900	3300	596698	6986004	1047.5		TALUS	TAN	Y	30	7/20/2009	CA	None
9144	2900	3350	596701	6986055	1055.4		TALUS	TAN	N	45	7/20/2009	CA	None
9145	2900	3400	596704	6986100	1062.6		HUMUS	BLACK	N	30	7/20/2009	CA	None
9146	2900	3450	596714	6986152	1068.9		TALUS	TAN	Y	30	7/20/2009	CA	None
9147	2900	3500	596705	6986198	1069.1		HUMUS	BLACK	N	60	7/20/2009	CA	None
9148	2900	3550	596703	6986250	1071		CLAY	BROWN	N	30	7/20/2009	CA	None
9149	2900	3600	596702	6986300	1069.6		HUMUS	BLACK	N	60	7/20/2009	CA	None
9150	2900	3650	596695	6986354	1078		HUMUS	BLACK	N	60	7/20/2009	CA	None
9151	2900	3700	596698	6986399	1078.5		TALUS	GREY	Y	60	7/20/2009	CA	None
9152	2900	3750	596706	6986454	1082.8		TALUS	BROWN	Y	30	7/20/2009	CA	None
9153	2900	3800	596704	6986499	1081.8		TALUS	BROWN	Y	30	7/20/2009	CA	None
9154	2900	3850	596705	6986550	1085.2		HUMUS	BLACK	N	30	7/20/2009	CA	None
9155	2900	3900	596696	6986603	1089.5		TALUS	GREY	Y	30	7/20/2009	CA	None
9156	2900	3950	596701	6986651	1095.3		SAND	TAN	N	30	7/20/2009	CA	None
9157	2900	4000	596698	6986699	1096.3		CLAY	BROWN	N	60	7/20/2009	CA	None
9158	2900	4050	596701	6986755	1106.4		CLAY	BROWN	N	60	7/20/2009	CA	None
9159	2900	4100	596700	6986799	1112.4		CLAY	BROWN	N	30	7/20/2009	CA	None
9160	2900	4150	596706	6986851	1113.6		TALUS	BROWN	N	15	7/20/2009	CA	None
9161	2900	4200	596704	6986900	1114.8		TALUS	TAN	Y	15	7/20/2009	CA	None
9162	2900	4250	596706	6986950	1106.8		HUMUS	BLACK	N	30	7/20/2009	CA	None
9163	2900	4300	596703	6987001	1097.7		HUMUS	BLACK	N	45	7/20/2009	CA	None
9164	2900	4350	596702	6987050	1090.7		HUMUS	BLACK	N	60	7/20/2009	CA	None
9165	2900	4400	596699	6987105	1093.4		HUMUS	BLACK	N	30	7/20/2009	CA	None
9166	2900	4450	596704	6987153	1097.7		TALUS	GREY	N	15	7/20/2009	CA	None
9167	2900	4500	596701	6987199	1093.4		TALUS	TAN	N	15	7/20/2009	CA	None
9168	2900	4550	596704	6987251	1084		CLAY	BROWN	N	30	7/20/2009	CA	None
9169	2900	4600	596703	6987305	1077.3		CLAY	BROWN	N	30	7/20/2009	CA	None
9170	2900	4650	596705	6987348	1071.3		SAND	BROWN	Y	30	7/20/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9171	2900	4700	596706	6987401	1065.7		HUMUS	BROWN	Y	30	7/20/2009	CA	None
9172	3200	2700	597000	6985401	1018.9		SAND	TAN	N	30	7/21/2009	CA	None
9173	3200	2750	596999	6985453	1025.1		SAND	TAN	N	30	7/21/2009	CA	None
9174	3200	2800	597002	6985500	1037.6		SAND	TAN	N	30	7/21/2009	CA	None
9175	3200	2850	597002	6985550	1044.1		SAND	TAN	N	30	7/21/2009	CA	None
9176	3200	2900	596995	6985600	1050.6		SAND	TAN	Y	30	7/21/2009	CA	None
9177	3200	2950	597000	6985653	1062.6		SAND	TAN	N	30	7/21/2009	CA	None
9178	3200	3000	597001	6985701	1059		SAND	TAN	N	30	7/21/2009	CA	None
9179	3200	3050	596994	6985753	1072.9		SAND	TAN	N	20	7/21/2009	CA	None
9180	3200	3100	597002	6985803	1083.8		SAND	TAN	N	15	7/21/2009	CA	None
9181	3200	3150	596998	6985851	1094.8		SAND	TAN	N	15	7/21/2009	CA	None
9182	3200	3200	597000	6985904	1102		SAND	TAN	N	20	7/21/2009	CA	None
9183	3200	3250	596999	6985953	1111.6		SAND	TAN	N	30	7/21/2009	CA	None
9184	3200	3300	597005	6986003	1113.8		SAND	TAN	Y	20	7/21/2009	CA	None
9185	3200	3350	597000	6986058	1122		SAND	TAN	N	30	7/21/2009	CA	None
9186	3200	3400	596999	6986102	1126.5		CLAY	BROWN	Y	25	7/21/2009	CA	None
9187	3200	3450	597000	6986149	1126.1		SAND	TAN	N	15	7/21/2009	CA	None
9188	3200	3500	597000	6986201	1127.7		CLAY	BROWN	N	25	7/21/2009	CA	None
9189	3200	3550	596999	6986252	1129.9		CLAY	TAN	N	20	7/21/2009	CA	None
9190	3200	3600	597001	6986299	1134.5		SAND	RUSTY	N	20	7/21/2009	CA	None
9191	3200	3650	597003	6986352	1139.3		SAND	RUSTY	N	25	7/21/2009	CA	None
9192	3200	3700	596999	6986401	1145		SAND	TAN	N	20	7/21/2009	CA	None
9193	3200	3750	596997	6986456	1154.2		SAND	RUSTY	N	25	7/21/2009	CA	None
9194	3200	3800	596999	6986503	1162.8		CLAY	BROWN	N	30	7/21/2009	CA	None
9195	3200	3850	597002	6986549	1169.8		SAND	RUSTY	N	30	7/21/2009	CA	None
9196	3200	3900	597000	6986603	1176.3		TALUS	BROWN	Y	30	7/21/2009	CA	None
9197	3200	3950	597000	6986650	1184.9		SAND	RUSTY	N	20	7/21/2009	CA	None
9198	3200	4000	597003	6986699	1195.5		SAND	RUSTY	N	20	7/21/2009	CA	None
9199	3200	4050	597001	6986751	1195.3		SAND	BROWN	N	15	7/21/2009	CA	None
9200	3200	4100	597002	6986801	1187.6		CLAY	BROWN	N	80	7/21/2009	CA	None
9201	3200	4150	596999	6986850	1184.2		SAND	GREY	N	30	7/21/2009	CA	None
9202	3200	4200	597002	6986901	1187.1		CLAY	GREY	N	45	7/21/2009	CA	None
9203	3200	4250	597001	6986950	1190.2		CLAY	BROWN	Y	60	7/21/2009	CA	None
9204	3200	4300	596999	6987002	1192.2		CLAY	BROWN	N	80	7/21/2009	CA	None
9205	3200	4350	597001	6987049	1196.5		SAND	BROWN	N	60	7/21/2009	CA	None
9206	3200	4400	597002	6987100	1195		SAND	TAN	Y	80	7/21/2009	CA	None
9207	3200	4450	597001	6987151	1186.9		HUMUS	BLACK	N	60	7/21/2009	CA	None
9208	3200	4500	597001	6987201	1192.2		TALUS	GREY	N	30	7/21/2009	CA	None
9209	3200	4550	597000	6987250	1192.9		HUMUS	BLACK	N	45	7/21/2009	CA	None
9210	3200	4600	596999	6987301	1189.7		SAND	TAN	N	40	7/21/2009	CA	None
9211	3200	4650	597001	6987350	1178.2		SAND	TAN	Y	30	7/21/2009	CA	None
9212	3200	4700	597002	6987402	1157.3		CLAY	BROWN	N	40	7/21/2009	CA	None
9213	3200	4750	596998	6987451	1134.7		HUMUS	BROWN	N	40	7/21/2009	CA	None
9214	3200	4800	596999	6987500	1111.9		SAND	TAN	Y	60	7/21/2009	CA	None
9215	3200	4850	597001	6987551	1097		CLAY	BROWN	N	45	7/21/2009	CA	None
9216	3500	5100	597300	6987801	1197.7		HUMUS	BROWN	N	30	7/22/2009	CA	None
9217	3500	5050	597300	6987750	1201		TALUS	BROWN	N	15	7/22/2009	CA	None
9218	3500	5000	597297	6987700	1201		CLAY	BROWN	N	30	7/22/2009	CA	None
9219	3500	4950	597300	6987649	1203.4		CLAY	BROWN	N	60	7/22/2009	CA	None
9220	3500	4900	597298	6987600	1199.8		CLAY	BROWN	N	10	7/22/2009	CA	None
9221	3500	4850	597306	6987552	1198.9		SAND	TAN	N	15	7/22/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9222	3500	4800	597297	6987501	1204.6		SAND	TAN	N	15	7/22/2009	CA	None
9223	3500	4750	597297	6987449	1222.2		SAND	TAN	N	35	7/22/2009	CA	None
9224	3500	4700	597299	6987398	1239		CLAY	BROWN	N	30	7/22/2009	CA	None
9225	3500	4650	597300	6987347	1251.3		CLAY	BROWN	N	30	7/22/2009	CA	None
9226	3500	4600	597299	6987301	1260.4		SAND	TAN	N	60	7/22/2009	CA	None
9227	3500	4550	597298	6987249	1265		SAND	BROWN	N	15	7/22/2009	CA	None
9228	3500	4500	597296	6987200	1263.3		SAND	RUSTY	N	15	7/22/2009	CA	None
9229	3500	4450	597303	6987151	1249.1		SAND	RUSTY	Y	15	7/22/2009	CA	None
9230	3500	4400	597303	6987100	1236.1		SAND	BROWN	N	15	7/22/2009	CA	None
9231	3500	4350	597305	6987048	1223.6		SAND	GREY	Y	30	7/22/2009	CA	None
9232	3500	4300	597302	6986997	1215.5		CLAY	BROWN	Y	30	7/22/2009	CA	None
9233	3500	4250	597304	6986948	1205.9		CLAY	BROWN	N	45	7/22/2009	CA	None
9234	3500	4200	597302	6986900	1197		CLAY	BROWN	N	60	7/22/2009	CA	None
9235	3500	4150	597300	6986848	1187.6		HUMUS	BLACK	N	60	7/22/2009	CA	None
9236	3500	4100	597300	6986800	1177		HUMUS	BLACK	N	60	7/22/2009	CA	None
9237	3500	4050	597299	6986749	1165.7		HUMUS	BLACK	N	60	7/22/2009	CA	None
9238	3500	4000	597304	6986696	1153.9		SAND	BROWN	N	60	7/22/2009	CA	None
9239	3500	3950	597301	6986650	1143.6		HUMUS	BLACK	N	60	7/22/2009	CA	None
9240	3500	3900	597296	6986602	1134		HUMUS	BLACK	N	60	7/22/2009	CA	None
9241	3500	3850	597299	6986548	1125.6		SAND	TAN	N	20	7/22/2009	CA	None
9242	3500	3800	597298	6986498	1112.1		HUMUS	BLACK	N	25	7/22/2009	CA	None
9243	3500	3750	597305	6986450	1102.7		SAND	BLACK	N	30	7/22/2009	CA	None
9244	3500	3700	597299	6986398	1093.1		SAND	TAN	N	45	7/22/2009	CA	None
9245	3500	3650	597298	6986349	1087.4		SAND	BROWN	N	60	7/22/2009	CA	None
9246	3500	3600	597297	6986299	1078.7		SAND	TAN	N	15	7/22/2009	CA	None
9247	3500	3550	597300	6986247	1073.4		SAND	TAN	N	20	7/22/2009	CA	None
9248	3500	3500	597298	6986200	1066.5		SAND	TAN	N	15	7/22/2009	CA	None
9249	3500	3450	597300	6986148	1059.5		SAND	TAN	N	20	7/22/2009	CA	None
9250	3500	3400	597300	6986100	1054.9		SAND	BROWN	N	30	7/22/2009	CA	None
9251	3500	3350	597300	6986050	1050.8		SAND	TAN	N	30	7/22/2009	CA	None
9252	3500	3300	597298	6985998	1047.2		CLAY	BROWN	N	30	7/22/2009	CA	None
9253	3500	3250	597303	6985944	1040		SAND	TAN	N	30	7/22/2009	CA	None
9254	3500	3200	597301	6985899	1037.1		SAND	BROWN	N	20	7/22/2009	CA	None
9255	3500	3150	597300	6985850	1033.1		SAND	BROWN	N	25	7/22/2009	CA	None
9256	3500	3100	597303	6985797	1026.8		SAND	TAN	N	30	7/22/2009	CA	None
9257	3500	3050	597302	6985747	1023.4		SAND	TAN	N	30	7/22/2009	CA	None
9258	3500	3000	597295	6985699	1018.9		SAND	TAN	N	25	7/22/2009	CA	None
9259	3500	2950	597298	6985649	1008.8		SAND	TAN	N	30	7/22/2009	CA	None
9260	3500	2900	597302	6985598	1001.6		HUMUS	BLACK	N	60	7/22/2009	CA	None
9261	3500	2850	597296	6985545	992		SAND	BROWN	N	30	7/22/2009	CA	None
9262	3500	2800	597299	6985501	987.4		CLAY	BROWN	N	60	7/22/2009	CA	None
9263	3500	2750	597304	6985448	986.7		SAND	TAN	N	60	7/22/2009	CA	None
9264	3500	2700	597300	6985401	971.5		SAND	TAN	N	60	7/22/2009	CA	None
9265	4100	2700	597905	6985406	905		HUMUS	TAN	N	15	7/23/2009	CA	None
9266	4100	2750	597893	6985448	923.2		SAND	TAN	N	15	7/23/2009	CA	None
9267	4100	2800	597900	6985496	934		SAND	BROWN	Y	20	7/23/2009	CA	None
9268	4100	2850	597906	6985548	939.3		SAND	TAN	N	20	7/23/2009	CA	None
9269	4100	2900	597903	6985603	935.2		SAND	TAN	N	20	7/23/2009	CA	None
9270	4100	2950	597896	6985650	943.7		SAND	TAN	Y	30	7/23/2009	CA	None
9271	4100	3000	597897	6985700	955.4		SAND	TAN	Y	30	7/23/2009	CA	None
9272	4100	3050	597901	6985750	977.3		HUMUS	TAN	N	35	7/23/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9273	4100	3100	597896	6985804	978.5		SAND	TAN	Y	35	7/23/2009	CA	None
9274	4100	3150	597894	6985852	985.2		SAND	TAN	N	40	7/23/2009	CA	None
9275	4100	3200	597903	6985901	986		TALUS	TAN	Y	30	7/23/2009	CA	None
9276	4100	3250	597909	6985949	1003.3		SAND	TAN	N	30	7/23/2009	CA	None
9277	4100	3300	597901	6986001	1009		CLAY	TAN	N	30	7/23/2009	CA	None
9278	4100	3350	597899	6986050	1013.8		HUMUS	GREY	N	15	7/23/2009	CA	None
9279	4100	3400	597904	6986101	1027.8		CLAY	BROWN	N	45	7/23/2009	CA	None
9280	4100	3450	597907	6986149	1039.3		CLAY	BROWN	N	45	7/23/2009	CA	None
9281	4100	3500	597896	6986200	1045.1		HUMUS	BLACK	N	60	7/23/2009	CA	None
9282	4100	3550	597896	6986252	1055.6		CLAY	BROWN	N	60	7/23/2009	CA	None
9283	4100	3600	597900	6986301	1066		SAND	TAN	N	45	7/23/2009	CA	None
9285	4100	3700	597897	6986405	1090.3		HUMUS	BROWN	N	15	7/23/2009	CA	None
9286	4100	3750	597908	6986453	1097.5		SAND	TAN	N	15	7/23/2009	CA	None
9287	4100	3800	597898	6986500	1101.3		HUMUS	TAN	N	15	7/23/2009	CA	None
9288	4100	3850	597893	6986551	1112.1		SAND	TAN	N	30	7/23/2009	CA	None
9289	4100	3900	597893	6986601	1124.9		SAND	TAN	N	25	7/23/2009	CA	None
9290	4100	3950	597902	6986652	1140		HUMUS	BLACK	Y	15	7/23/2009	CA	None
9291	4100	4000	597901	6986703	1145.5		HUMUS	BROWN	N	30	7/23/2009	CA	None
9292	4100	4050	597905	6986751	1158.3		SAND	TAN	N	15	7/23/2009	CA	None
9293	4100	4100	597906	6986801	1169.3		CLAY	BROWN	Y	30	7/23/2009	CA	None
9294	4100	4150	597899	6986850	1177.5		CLAY	BROWN	N	30	7/23/2009	CA	None
9295	4100	4200	597890	6986902	1188.8		SAND	TAN	N	30	7/23/2009	CA	None
9297	4100	4300	597893	6987005	1214.3		SAND	TAN	N	15	7/23/2009	CA	None
9298	4100	4350	597896	6987057	1227		SAND	TAN	N	30	7/23/2009	CA	None
9299	4100	4400	597889	6987104	1237.8		SAND	TAN	N	30	7/23/2009	CA	None
9300	4100	4450	597893	6987152	1249.1		SAND	TAN	N	30	7/23/2009	CA	None
9301	4100	4500	597898	6987203	1261.8		CLAY	TAN	N	30	7/23/2009	CA	None
9302	4100	4550	597908	6987251	1272.9		CLAY	TAN	N	30	7/23/2009	CA	None
9303	4100	4600	597897	6987306	1286.8		SAND	TAN	N	30	7/23/2009	CA	None
9304	4100	4650	597895	6987353	1297.4		SAND	TAN	N	20	7/23/2009	CA	None
9305	4100	4700	597895	6987398	1303.4		SAND	TAN	Y	30	7/23/2009	CA	None
9306	4500	5000	598300	6987697	1280.1		SAND	TAN	N	30	7/24/2009	CA	None
9307	4500	4950	598297	6987651	1285.2		SAND	TAN	Y	35	7/24/2009	CA	None
9308	4500	4900	598301	6987598	1283		CLAY	TAN	N	40	7/24/2009	CA	None
9309	4500	4850	598301	6987549	1284.9		SAND	TAN	N	30	7/24/2009	CA	None
9310	4500	4800	598301	6987500	1279.6		SAND	BROWN	Y	30	7/24/2009	CA	None
9311	4500	4750	598300	6987450	1271.9		SAND	TAN	N	40	7/24/2009	CA	None
9312	4500	4700	598297	6987397	1263.3		CLAY	TAN	N	15	7/24/2009	CA	None
9313	4500	4650	598300	6987350	1256.3		CLAY	BROWN	N	30	7/24/2009	CA	None
9314	4500	4600	598300	6987298	1243.6		CLAY	BROWN	N	30	7/24/2009	CA	None
9315	4500	4550	598297	6987249	1232		CLAY	BROWN	N	40	7/24/2009	CA	None
9316	4500	4500	598298	6987199	1218.3		SAND	TAN	N	15	7/24/2009	CA	None
9317	4500	4450	598301	6987151	1207.1		SAND	TAN	Y	30	7/24/2009	CA	None
9318	4500	4400	598299	6987099	1196.7		SAND	TAN	N	30	7/24/2009	CA	None
9319	4500	4350	598294	6987049	1192.2		SAND	TAN	N	30	7/24/2009	CA	None
9320	4500	4300	598298	6987000	1188.3		SAND	TAN	N	40	7/24/2009	CA	None
9321	4500	4250	598298	6986950	1189		SAND	TAN	N	30	7/24/2009	CA	None
9322	4500	4200	598294	6986901	1188.1		SAND	TAN	N	20	7/24/2009	CA	None
9323	4500	4150	598301	6986850	1186.6		CLAY	BROWN	Y	15	7/24/2009	CA	None
9324	4500	4100	598300	6986800	1187.3		SAND	BROWN	N	30	7/24/2009	CA	None
9325	4500	4050	598298	6986750	1188.3		CLAY	TAN	Y	35	7/24/2009	CA	None

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Sample #	Grid mE	Grid mN	UTM mE	UTM mN	Elev (m)	Claim No.	Type	Colour	Rocky Y/N	Depth (cm)	Date	Name	Notes
9326	4500	4000	598297	6986698	1190.5		SAND	BROWN	N	20	7/24/2009	CA	None
9327	4500	3950	598297	6986649	1190.9		HUMUS	GREY	Y	10	7/24/2009	CA	None
9328	4500	3900	598292	6986598	1188.1		HUMUS	BROWN	N	15	7/24/2009	CA	None
9329	4500	3850	598296	6986549	1184.7		SAND	BROWN	Y	20	7/24/2009	CA	None
9330	4500	3800	598300	6986498	1176.5		CLAY	GREY	N	25	7/24/2009	CA	None
9331	4500	3750	598302	6986450	1169.8		SAND	TAN	N	20	7/24/2009	CA	None
9332	4500	3700	598299	6986400	1161.1		SAND	TAN	N	15	7/24/2009	CA	None
9333	4500	3650	598298	6986348	1152.5		SAND	TAN	N	20	7/24/2009	CA	None
9334	4500	3600	598299	6986301	1142.6		SAND	TAN	N	35	7/24/2009	CA	None
9335	4500	3550	598298	6986249	1134.5		SAND	RUSTY	N	30	7/24/2009	CA	None
9336	4500	3500	598300	6986201	1124.9		CLAY	TAN	N	35	7/24/2009	CA	None
9337	4500	3450	598301	6986146	1117.6		SAND	BROWN	N	20	7/24/2009	CA	None
9338	4500	3400	598302	6986099	1110.9		SAND	TAN	N	25	7/24/2009	CA	None
9339	4500	3350	598301	6986049	1108.3		HUMUS	GREY	N	10	7/24/2009	CA	None
9340	4500	3300	598299	6986002	1102.5		SAND	RUSTY	N	30	7/24/2009	CA	None
9341	4500	3250	598295	6985948	1095.5		SAND	RUSTY	N	30	7/24/2009	CA	None
9342	4500	3200	598298	6985900	1089.3		SAND	RUSTY	N	30	7/24/2009	CA	None
9343	4500	3150	598300	6985848	1083.3		SAND	RUSTY	N	35	7/24/2009	CA	None
9344	4500	3100	598296	6985799	1081.6		SAND	RUSTY	N	25	7/24/2009	CA	None
9345	4500	3050	598301	6985748	1077.8		SAND	RUSTY	N	30	7/24/2009	CA	None
9346	4500	3000	598303	6985703	1075.4		SAND	RUSTY	N	20	7/24/2009	CA	None
9347	4500	2950	598294	6985648	1076.6		CLAY	BROWN	N	25	7/24/2009	CA	None
9348	4500	2900	598300	6985601	1073.2		SAND	RUSTY	N	25	7/24/2009	CA	None
9349	4500	2850	598306	6985549	1064.8		SAND	RUSTY	N	20	7/24/2009	CA	None
9350	4500	2800	598297	6985499	1046.8		SAND	RUSTY	N	35	7/24/2009	CA	None
9351	4500	2750	598301	6985451	1044.8		SAND	BROWN	N	10	7/24/2009	CA	None
9352	4500	2700	598298	6985400	1041.5		SAND	RUSTY	Y	30	7/24/2009	CA	None
9353	2400	2700	596201	6985401	776.9		CLAY	BROWN	N	35	7/25/2009	CA	None
9354	2400	2750	596197	6985453	789.8		CLAY	BROWN	Y	30	7/25/2009	CA	None
9355	2400	2800	596195	6985500	790.8		CLAY	BROWN	N	60	7/25/2009	CA	None
9356	2400	2850	596195	6985550	783.8		CLAY	BROWN	N	40	7/25/2009	CA	None
9357	2400	2900	596201	6985604	791.3		CLAY	BROWN	N	40	7/25/2009	CA	None
9358	2400	2950	596206	6985647	793.2		HUMUS	BLACK	N	40	7/25/2009	CA	None
9359	2400	3000	596197	6985705	796.6		CLAY	BROWN	Y	30	7/25/2009	CA	None
9360	2400	3050	596195	6985751	798		CLAY	BROWN	N	35	7/25/2009	CA	None
9361	2400	3100	596198	6985800	812.4		HUMUS	BLACK	N	45	7/25/2009	CA	None
9364	2400	3250	596201	6985948	840.8		SAND	BROWN	Y	45	7/25/2009	CA	None
9365	2400	3300	596199	6985996	848.7		SAND	BROWN	Y	40	7/25/2009	CA	None
9366	2400	3350	596199	6986052	852.6		SAND	TAN	N	30	7/25/2009	CA	None
9367	2400	3400	596199	6986098	869.6		SAND	BROWN	Y	45	7/25/2009	CA	None
9368	2400	3450	596197	6986150	867.7		SAND	TAN	N	25	7/25/2009	CA	None
9369	2400	3500	596204	6986206	872.5		SAND	BROWN	Y	35	7/25/2009	CA	None
9370	2400	3550	596205	6986250	867.5		SAND	GREY	Y	30	7/25/2009	CA	None
9371	2400	3600	596199	6986300	866.7		SAND	TAN	N	35	7/25/2009	CA	None
9372	2400	3650	596193	6986350	863.9		SAND	TAN	N	65	7/25/2009	CA	None
9373	2400	3700	596198	6986400	872.3		SAND	TAN	N	60	7/25/2009	CA	None
9374	2400	3750	596205	6986450	871.6		SAND	BROWN	N	40	7/25/2009	CA	None
9376	2400	3850	596199	6986550	871.8		SAND	BROWN	N	45	7/25/2009	CA	None
9377	2400	3900	596204	6986599	872.8		SAND	BROWN	N	10	7/25/2009	CA	None
9378	2400	3950	596206	6986655	871.6		SAND	BROWN	N	5	7/25/2009	CA	None

Appendix D – Analytical Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Hinterland Metals Inc.**
203 - 680 Third Ave.
Val d'Or QC J9P 1S5 Canada

Submitted By: Mark Fekete
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 14, 2009
Page: 1 of 13

CERTIFICATE OF ANALYSIS

VAN09003416.1

CLIENT JOB INFORMATION

Project: Ballarat
Shipment ID: 20090731
P.O. Number
Number of Samples: 351

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Hinterland Metals Inc.
203 - 680 Third Ave.
Val d'Or QC J9P 1S5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	342	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	342	Dry at 60C			VAN
1DX15	342	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

Ballarat

Report Date:

August 14, 2009

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Part 1

CERTIFICATE OF ANALYSIS

VAN09003416.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
6000	Soil	0.9	48.0	14.0	167	0.1	23.3	30.8	1675	5.28	2.1	0.9	1.6	1.9	50	0.2	0.1	0.1	120	0.96	0.181
6001	Soil	1.2	31.4	42.6	93	0.4	14.7	19.3	726	3.35	4.0	0.8	2.1	0.9	36	0.2	0.2	0.1	86	0.62	0.086
6002	Soil	1.0	34.4	36.9	88	0.4	13.6	20.0	919	3.30	3.9	0.7	3.1	0.8	40	0.2	0.2	<0.1	83	0.73	0.091
6003	Soil	0.6	32.4	18.2	148	0.1	14.0	15.1	461	3.29	4.3	0.4	2.8	1.4	21	0.1	0.2	0.2	84	0.33	0.076
6004	Soil	0.6	34.2	8.1	114	0.1	13.4	19.9	665	4.01	3.0	0.3	1.9	0.9	25	0.1	0.1	<0.1	105	0.47	0.115
6005	Soil	0.6	21.8	5.9	58	<0.1	13.2	12.2	294	3.06	4.7	0.3	5.8	1.3	22	<0.1	0.2	<0.1	81	0.32	0.080
6006	Soil	0.5	37.3	8.6	85	<0.1	12.0	14.7	383	3.65	3.7	0.3	1.7	1.1	29	<0.1	0.1	<0.1	95	0.40	0.086
6007	Soil	0.6	63.5	5.2	129	<0.1	13.7	17.4	625	4.17	3.7	0.5	2.4	2.4	28	0.1	0.1	<0.1	94	0.65	0.219
6008	Soil	0.8	35.3	6.6	98	0.1	15.2	12.0	574	3.30	3.5	0.8	2.3	3.2	20	0.1	0.1	0.1	72	0.28	0.084
6009	Soil	0.8	22.1	6.0	88	<0.1	13.1	12.7	432	3.94	4.9	0.6	4.1	2.4	19	<0.1	0.2	<0.1	95	0.34	0.109
6010	Soil	1.1	23.1	12.4	145	<0.1	17.8	16.4	947	5.14	16.4	0.5	4.3	2.4	14	0.1	0.1	<0.1	102	0.40	0.158
6011	Soil	1.2	26.2	6.2	71	0.2	35.7	14.7	597	3.80	7.4	0.7	2.9	2.3	30	0.1	0.2	0.1	71	0.69	0.110
6012	Soil	2.2	39.8	8.8	90	0.2	28.1	11.5	476	3.64	43.4	0.7	3.2	2.6	23	0.2	0.7	0.1	79	0.37	0.069
6013	Soil	2.3	30.8	9.3	69	0.2	19.9	9.8	382	3.04	20.0	0.7	4.4	2.9	20	0.3	0.3	0.2	77	0.28	0.035
6014	Soil	0.7	19.8	4.6	104	<0.1	14.2	19.8	678	3.64	3.2	0.3	12.2	1.0	43	0.2	0.2	<0.1	80	0.71	0.100
6015	Soil	1.1	44.1	6.2	79	<0.1	35.3	12.3	495	3.39	4.0	0.4	0.5	1.2	17	<0.1	0.2	<0.1	90	0.25	0.065
6016	Soil	2.3	20.1	19.2	69	<0.1	14.5	18.9	1314	3.12	14.2	0.4	2.2	1.7	10	0.2	0.3	0.2	99	0.12	0.029
6017	Soil	0.9	17.1	8.3	41	<0.1	19.3	8.3	223	2.69	8.0	0.5	18.8	1.2	14	<0.1	0.3	0.2	71	0.16	0.038
6018	Soil	1.0	21.4	8.4	46	<0.1	18.3	9.3	258	2.88	7.0	0.4	4.0	1.7	14	0.1	0.4	0.2	74	0.17	0.034
6019	Soil	1.0	29.9	8.5	60	<0.1	24.0	12.6	335	3.58	8.6	0.5	2.8	2.1	18	<0.1	0.4	0.1	83	0.19	0.036
6020	Soil	1.2	34.4	8.1	59	<0.1	14.3	10.4	337	3.65	5.5	0.4	3.2	1.0	11	<0.1	0.4	0.1	86	0.17	0.035
6021	Soil	1.0	31.9	9.5	59	<0.1	23.7	12.6	330	3.55	8.9	0.7	3.9	3.0	15	<0.1	0.5	0.2	80	0.15	0.033
6022	Soil	1.2	16.9	11.5	47	<0.1	14.4	6.5	201	3.03	7.6	0.5	3.1	2.0	13	0.1	0.5	0.2	74	0.12	0.028
6023	Soil	1.0	34.4	11.0	63	<0.1	23.6	15.0	469	3.58	11.3	0.5	6.8	2.9	16	0.1	0.6	0.1	77	0.20	0.037
6024	Soil	0.9	17.6	9.8	48	<0.1	19.6	9.3	218	2.92	9.7	0.5	4.6	2.7	16	<0.1	0.5	0.1	68	0.16	0.025
6025	Soil	1.1	21.9	9.0	52	<0.1	17.6	10.4	363	3.31	7.8	0.4	0.7	2.0	19	<0.1	0.6	0.2	83	0.21	0.033
6026	Soil	0.8	18.7	6.8	51	<0.1	17.5	10.7	337	3.03	7.5	0.5	1.5	1.7	18	<0.1	0.4	0.1	69	0.19	0.036
6027	Soil	1.1	20.2	8.1	47	<0.1	17.6	9.0	288	2.93	8.8	0.6	2.5	2.2	13	<0.1	0.6	0.1	71	0.14	0.038
6028	Soil	1.2	22.3	9.8	55	<0.1	23.6	10.4	312	3.24	10.7	0.6	3.2	3.7	14	<0.1	0.4	0.2	71	0.17	0.032
6029	Soil	1.4	17.2	9.2	45	<0.1	18.2	7.7	260	2.49	9.1	0.5	4.1	2.6	12	<0.1	0.4	0.1	53	0.14	0.026



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Project: Ballarat
Report Date: August 14, 2009

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CERTIFICATE OF ANALYSIS

VAN09003416.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6000	Soil	13	42	2.47	645	0.253	<1	3.29	0.011	0.86	<0.1	0.02	4.0	0.3	<0.05	9	<0.5
6001	Soil	6	23	1.15	332	0.100	2	2.07	0.013	0.07	<0.1	0.04	4.0	0.1	0.07	6	<0.5
6002	Soil	7	23	1.05	355	0.089	2	1.89	0.013	0.06	0.1	0.05	4.0	<0.1	0.07	5	<0.5
6003	Soil	5	26	1.27	330	0.147	<1	2.14	0.015	0.35	0.1	0.01	3.0	0.2	<0.05	6	<0.5
6004	Soil	4	21	1.51	380	0.204	<1	2.45	0.017	0.46	0.1	0.01	2.5	0.2	<0.05	7	<0.5
6005	Soil	5	26	1.06	230	0.146	<1	2.01	0.012	0.20	<0.1	<0.01	1.9	0.1	<0.05	6	<0.5
6006	Soil	4	21	1.25	276	0.176	<1	2.16	0.013	0.26	<0.1	0.01	2.2	0.1	<0.05	7	<0.5
6007	Soil	11	25	1.51	426	0.182	<1	2.38	0.020	0.84	<0.1	0.02	2.6	0.3	<0.05	6	<0.5
6008	Soil	21	31	0.87	294	0.139	2	1.79	0.009	0.36	0.1	0.02	2.8	0.2	<0.05	6	<0.5
6009	Soil	11	24	1.20	378	0.198	<1	2.33	0.011	0.64	0.2	<0.01	2.8	0.3	<0.05	8	<0.5
6010	Soil	9	33	1.49	297	0.261	<1	2.88	0.008	1.11	0.1	<0.01	3.9	0.6	<0.05	9	<0.5
6011	Soil	13	66	1.16	321	0.158	<1	2.31	0.010	0.29	0.1	0.03	4.4	0.2	<0.05	7	<0.5
6012	Soil	12	45	0.80	388	0.067	<1	1.94	0.010	0.07	0.1	0.03	4.8	0.1	<0.05	6	0.8
6013	Soil	13	33	0.64	343	0.079	<1	1.64	0.010	0.08	0.1	0.02	3.8	0.1	<0.05	6	<0.5
6014	Soil	4	25	1.95	278	0.183	2	2.51	0.010	0.46	0.1	<0.01	2.0	0.2	<0.05	7	<0.5
6015	Soil	5	70	1.42	159	0.169	<1	2.24	0.008	0.20	0.1	<0.01	2.9	0.1	<0.05	8	<0.5
6016	Soil	7	29	0.64	209	0.126	1	1.62	0.008	0.13	0.1	0.01	5.6	0.1	<0.05	8	<0.5
6017	Soil	7	32	0.51	133	0.073	<1	1.78	0.009	0.05	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
6018	Soil	8	32	0.55	141	0.087	1	1.96	0.011	0.05	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5
6019	Soil	8	37	0.70	220	0.090	1	2.37	0.011	0.06	0.1	<0.01	3.5	0.1	<0.05	7	<0.5
6020	Soil	5	29	0.78	192	0.088	<1	2.01	0.010	0.08	0.1	<0.01	4.2	<0.1	<0.05	8	<0.5
6021	Soil	9	38	0.71	198	0.076	<1	2.58	0.010	0.06	<0.1	0.03	4.8	<0.1	<0.05	6	<0.5
6022	Soil	9	29	0.38	177	0.053	1	2.01	0.009	0.03	0.1	0.01	2.5	0.1	<0.05	8	<0.5
6023	Soil	9	36	0.83	272	0.106	<1	2.54	0.011	0.08	0.1	0.02	4.9	<0.1	<0.05	6	<0.5
6024	Soil	9	32	0.56	183	0.084	2	2.09	0.009	0.05	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
6025	Soil	9	34	0.65	241	0.086	1	1.98	0.011	0.05	0.1	0.02	3.8	0.1	<0.05	7	<0.5
6026	Soil	9	30	0.66	191	0.088	2	1.87	0.011	0.07	<0.1	0.01	3.0	0.1	<0.05	6	<0.5
6027	Soil	10	30	0.51	152	0.078	2	1.80	0.010	0.06	0.1	0.01	3.3	<0.1	<0.05	6	<0.5
6028	Soil	12	38	0.59	204	0.084	1	2.22	0.008	0.07	0.1	0.02	3.5	0.1	<0.05	7	<0.5
6029	Soil	11	28	0.42	153	0.063	1	1.42	0.010	0.06	0.2	0.01	2.4	0.1	<0.05	6	<0.5



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Project: Ballarat
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CERTIFICATE OF ANALYSIS

VAN09003416.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
6030	Soil	1.5	25.7	9.6	47	0.2	30.4	8.7	323	2.83	13.4	0.8	6.0	3.3	22	<0.1	0.9	0.1	56	0.31
6031	Soil	1.6	26.3	11.1	54	<0.1	36.2	13.0	309	3.41	18.2	0.8	36.3	4.4	18	<0.1	1.3	0.1	65	0.23
6032	Soil	1.0	43.2	4.2	51	<0.1	337.0	35.9	478	3.76	4.9	0.5	2.0	1.5	19	<0.1	0.1	<0.1	86	0.41
6033	Soil	1.2	163.6	8.0	56	0.2	66.5	25.2	359	3.10	4.8	3.5	7.0	2.1	23	<0.1	0.3	0.1	77	0.53
6034	Soil	2.4	27.9	12.1	47	0.1	29.8	21.1	1650	3.42	6.3	2.5	3.6	2.6	24	<0.1	0.2	0.2	75	0.40
6035	Soil	1.0	22.6	8.9	47	0.2	24.0	11.9	342	2.63	6.2	1.0	5.1	4.3	23	<0.1	0.4	0.1	55	0.29
6036	Soil	1.0	25.9	9.2	48	0.1	27.5	8.8	197	2.48	4.7	0.8	4.8	4.7	24	<0.1	0.3	0.2	54	0.30
6037	Soil	1.5	36.2	11.0	63	0.1	36.7	14.9	369	3.18	6.5	1.4	12.2	9.5	27	0.2	0.3	0.2	60	0.36
6038	Soil	1.3	20.1	11.1	52	<0.1	22.9	10.7	319	2.83	7.7	0.6	5.8	4.0	17	0.1	0.3	0.2	71	0.22
6039	Soil	1.1	25.2	7.4	52	<0.1	23.6	11.5	343	3.11	8.3	0.3	1.6	2.4	14	<0.1	0.3	0.2	74	0.16
6040	Soil	1.4	29.1	15.9	53	0.2	28.4	9.8	249	2.54	6.4	0.9	12.7	3.2	20	0.1	0.2	0.1	55	0.36
6041	Soil	1.2	21.0	8.5	49	<0.1	17.2	10.0	325	3.25	7.4	0.4	1.9	2.3	8	0.1	0.3	0.2	77	0.09
6042	Soil	0.8	26.6	5.8	55	<0.1	12.6	10.2	357	2.45	3.8	0.3	1.3	0.8	13	<0.1	0.2	0.1	62	0.23
6043	Soil	1.0	27.4	5.5	60	0.1	16.6	12.3	424	2.80	4.4	0.3	<0.5	1.0	12	0.1	0.2	0.1	66	0.20
6044	Soil	0.9	22.6	6.3	48	<0.1	16.9	12.1	277	2.90	5.8	0.3	1.5	1.7	10	<0.1	0.3	0.1	75	0.14
6045	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6046	Soil	3.1	40.8	12.9	67	0.3	19.7	13.9	830	2.60	3.7	1.7	23.0	2.3	34	0.2	0.3	0.1	52	0.72
6047	Soil	6.1	71.7	5.8	91	0.2	14.8	16.9	874	3.42	3.4	0.6	17.7	1.7	32	0.8	0.2	0.2	80	0.71
6048	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6049	Soil	0.7	22.4	4.7	22	<0.1	7.0	3.6	104	1.10	1.8	0.2	1.0	0.5	9	0.1	0.1	<0.1	35	0.16
6050	Soil	1.6	56.0	5.9	39	0.1	17.1	16.3	421	2.80	5.2	0.3	1.8	1.1	17	<0.1	0.2	0.1	74	0.31
6051	Soil	1.0	48.7	5.7	43	<0.1	18.4	11.7	256	2.92	6.7	0.4	1.5	1.4	16	<0.1	0.3	0.1	81	0.23
6052	Soil	0.7	26.5	7.0	36	<0.1	17.8	8.4	213	2.58	6.6	0.3	2.2	1.5	20	<0.1	0.3	0.1	75	0.30
6053	Soil	0.9	19.8	5.9	33	<0.1	15.4	7.1	168	2.23	6.1	0.3	<0.5	1.1	14	<0.1	0.2	0.1	63	0.20
6054	Soil	1.0	23.0	6.6	48	<0.1	22.2	11.1	320	2.80	9.0	0.3	<0.5	1.7	18	<0.1	0.4	0.1	75	0.28
6055	Soil	0.8	19.5	6.1	45	<0.1	18.0	11.1	226	2.63	6.0	0.3	1.3	1.4	18	0.1	0.4	0.1	70	0.23
6056	Soil	0.9	17.7	6.7	62	<0.1	20.4	14.0	433	3.06	6.8	0.3	1.6	1.9	14	0.1	0.4	0.1	84	0.19
6057	Soil	0.6	23.3	3.4	39	0.1	121.3	24.9	570	2.72	2.7	0.1	4.7	0.7	16	<0.1	0.2	<0.1	59	0.40
6058	Soil	1.0	24.5	5.4	42	<0.1	25.2	13.5	420	2.86	5.9	0.4	0.9	1.9	19	0.1	0.3	<0.1	79	0.29
6059	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6030	Soil	29	39	0.47	344	0.044	2	1.46	0.010	0.06	<0.1	0.03	3.2	0.2	<0.05	6	<0.5
6031	Soil	14	40	0.59	269	0.069	<1	2.13	0.009	0.06	<0.1	0.06	4.0	0.2	<0.05	6	0.5
6032	Soil	6	572	2.83	237	0.105	<1	2.40	0.009	0.04	<0.1	0.02	5.2	0.1	<0.05	7	<0.5
6033	Soil	13	87	1.28	421	0.097	1	2.06	0.014	0.08	0.1	0.06	5.5	0.3	<0.05	6	<0.5
6034	Soil	13	49	1.14	601	0.075	<1	2.30	0.012	0.04	0.1	0.02	4.4	0.3	<0.05	7	<0.5
6035	Soil	28	31	0.52	278	0.074	2	1.54	0.012	0.10	<0.1	0.04	3.0	0.2	<0.05	6	<0.5
6036	Soil	26	37	0.59	368	0.109	2	1.64	0.016	0.17	0.1	0.02	3.0	0.1	<0.05	6	<0.5
6037	Soil	32	49	0.72	573	0.112	1	1.72	0.012	0.20	0.1	0.02	3.8	0.2	0.05	6	<0.5
6038	Soil	13	39	0.56	192	0.114	2	1.64	0.011	0.11	0.1	0.01	2.7	0.1	<0.05	7	<0.5
6039	Soil	7	40	0.72	281	0.073	1	2.02	0.008	0.06	0.1	0.02	2.9	<0.1	<0.05	5	<0.5
6040	Soil	21	49	0.63	407	0.067	<1	1.48	0.008	0.09	0.1	0.05	2.9	0.1	<0.05	5	<0.5
6041	Soil	8	31	0.41	147	0.064	3	2.03	0.007	0.05	0.1	0.02	2.8	0.1	<0.05	7	<0.5
6042	Soil	7	25	0.57	223	0.055	<1	1.32	0.012	0.07	0.1	0.02	3.6	<0.1	<0.05	5	<0.5
6043	Soil	5	32	0.66	246	0.084	1	1.49	0.015	0.14	0.1	0.03	2.7	<0.1	<0.05	5	<0.5
6044	Soil	6	29	0.49	120	0.066	<1	1.72	0.007	0.04	0.1	0.02	2.5	<0.1	<0.05	5	<0.5
6045	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6046	Soil	25	27	0.50	556	0.050	1	1.34	0.013	0.11	0.3	0.06	5.7	0.1	<0.05	5	1.0
6047	Soil	14	24	0.91	548	0.104	2	1.55	0.009	0.35	0.1	0.05	7.2	<0.1	0.05	6	0.8
6048	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6049	Soil	4	12	0.17	136	0.044	<1	0.68	0.011	0.06	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5
6050	Soil	7	26	0.55	174	0.075	<1	1.51	0.009	0.10	0.1	0.03	2.8	<0.1	<0.05	6	<0.5
6051	Soil	7	31	0.67	170	0.075	<1	1.88	0.008	0.06	0.1	0.03	3.1	<0.1	<0.05	6	<0.5
6052	Soil	7	29	0.50	172	0.061	<1	1.74	0.010	0.04	0.2	0.02	3.6	<0.1	<0.05	5	<0.5
6053	Soil	6	26	0.33	107	0.057	<1	1.42	0.010	0.04	0.1	0.02	2.3	<0.1	<0.05	6	<0.5
6054	Soil	7	32	0.59	136	0.067	<1	1.73	0.009	0.06	0.1	0.01	2.9	<0.1	<0.05	5	<0.5
6055	Soil	6	30	0.49	208	0.057	<1	1.77	0.010	0.05	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5
6056	Soil	7	34	0.65	207	0.085	<1	1.96	0.009	0.09	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5
6057	Soil	4	303	1.63	257	0.074	<1	1.95	0.010	0.16	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5
6058	Soil	7	38	0.76	316	0.109	<1	1.65	0.014	0.15	0.1	0.02	3.6	<0.1	<0.05	5	<0.5
6059	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
6060	Soil		0.7	26.4	5.6	57	<0.1	18.7	8.9	312	2.17	5.0	0.7	1.3	0.9	34	0.2	0.2	<0.1	58	1.54	0.051		
6061	Soil		0.9	27.5	7.6	62	<0.1	15.6	9.7	505	2.20	8.3	0.9	0.9	0.8	41	0.3	0.2	<0.1	59	1.88	0.046		
6062	Soil		0.7	29.6	7.2	69	<0.1	16.2	8.6	477	2.01	7.2	1.0	4.1	0.7	48	0.4	0.2	<0.1	53	2.47	0.058		
6063	Soil		0.8	33.2	5.8	73	0.1	20.3	10.7	564	2.45	5.4	0.8	4.5	1.0	37	0.2	0.2	<0.1	64	1.65	0.076		
6064	Soil		0.6	39.3	4.9	72	<0.1	18.8	13.7	623	2.77	3.7	0.6	<0.5	0.9	39	0.2	<0.1	<0.1	79	1.54	0.085		
6065	Soil		0.8	29.4	5.4	59	0.1	19.7	9.7	713	1.89	3.5	0.7	1.1	0.7	52	0.3	0.2	<0.1	51	2.51	0.053		
6066	Soil		3.2	44.7	7.1	97	0.2	22.0	14.8	584	3.75	23.9	0.8	2.7	2.3	27	0.2	0.2	<0.1	91	0.57	0.108		
6067	Soil		1.6	60.5	10.4	47	0.1	58.3	13.8	243	2.96	82.8	1.2	3.6	2.3	21	<0.1	7.8	0.1	70	0.41	0.049		
6068	Soil		1.1	35.8	8.9	50	<0.1	28.9	11.5	256	2.88	13.9	0.7	5.1	2.0	18	0.1	1.1	0.1	70	0.29	0.048		
6069	Soil		1.1	28.8	7.0	25	0.1	11.3	4.1	127	1.41	5.0	0.6	1.4	<0.1	15	0.4	1.0	0.1	39	0.16	0.047		
6070	Soil		1.0	20.7	8.0	45	<0.1	26.6	8.7	226	2.55	15.2	0.4	2.3	2.2	16	<0.1	0.9	0.1	72	0.23	0.033		
6071	Soil		1.2	28.8	7.7	55	<0.1	36.5	12.7	317	3.18	13.7	0.6	13.6	4.0	13	<0.1	0.7	0.1	70	0.18	0.026		
6072	Soil		1.6	30.4	10.4	58	0.1	28.6	13.1	463	3.07	15.7	0.7	20.8	3.3	15	0.1	0.5	0.1	72	0.21	0.038		
6073	Soil		1.2	24.2	8.8	50	<0.1	24.5	10.1	274	2.91	13.1	0.6	17.1	3.2	12	<0.1	0.6	0.1	74	0.19	0.041		
6074	Soil		1.1	26.3	12.2	58	0.1	18.4	12.2	653	2.72	7.2	0.4	0.8	1.3	21	0.3	0.5	0.1	71	0.31	0.053		
6075	Soil		1.3	33.0	8.8	51	0.1	24.0	12.6	633	2.60	8.0	1.2	10.3	1.9	35	<0.1	1.2	0.1	59	0.81	0.066		
6076	Soil		0.8	23.4	7.3	35	0.1	14.4	5.6	147	1.80	3.5	0.4	1.7	0.9	16	0.1	0.3	0.1	55	0.32	0.038		
6077	Soil		0.9	19.6	7.0	56	<0.1	23.2	11.1	351	3.17	7.5	0.4	1.1	2.5	13	<0.1	0.4	0.1	84	0.19	0.034		
6078	Soil		1.4	14.3	18.7	56	<0.1	11.4	6.5	278	2.65	8.2	0.5	3.5	1.3	11	0.2	0.8	0.2	73	0.13	0.035		
6079	Soil		1.1	63.4	6.0	126	<0.1	18.2	12.4	656	4.38	6.4	0.9	10.1	3.2	23	<0.1	0.3	<0.1	100	0.39	0.098		
6080	Soil		1.0	27.6	7.5	74	<0.1	19.0	12.2	339	3.25	7.2	0.5	1.9	2.8	18	0.1	0.4	0.1	81	0.32	0.094		
6081	Soil		0.5	19.1	7.5	63	0.2	12.8	8.3	289	2.04	2.7	0.4	4.2	0.6	29	0.3	0.5	0.1	52	0.59	0.084		
6082	Soil		0.9	23.2	11.9	62	0.2	14.4	9.1	261	2.23	3.2	0.6	3.5	0.9	22	0.3	0.3	0.1	54	0.39	0.066		
6083	Soil		1.1	25.4	8.4	59	0.1	16.1	12.5	354	2.81	5.6	0.5	2.4	1.4	21	0.1	0.2	0.1	80	0.37	0.060		
6084	Soil		1.3	40.0	8.6	63	0.2	17.5	14.1	511	2.87	6.0	0.6	1.9	1.0	29	0.2	0.3	0.1	67	0.46	0.069		
6085	Soil		0.8	31.0	9.2	63	0.1	21.3	12.1	256	2.87	6.0	0.7	3.3	1.9	26	<0.1	0.3	0.2	73	0.41	0.055		
6086	Soil		1.3	34.0	6.9	52	0.1	30.0	13.7	387	2.76	4.0	1.1	2.3	1.2	47	0.2	0.2	0.1	67	0.70	0.062		
6087	Soil		1.3	34.0	7.8	52	0.2	22.8	12.6	412	2.73	3.6	1.1	2.8	2.6	21	0.2	0.2	0.1	76	0.30	0.043		
6088	Soil		1.3	50.8	11.8	63	0.2	24.0	11.4	496	2.86	19.2	1.4	3.2	1.7	43	0.3	0.4	0.1	71	1.55	0.064		
6089	Soil		3.2	57.7	8.1	105	0.2	33.4	19.1	917	4.71	6.2	0.9	5.0	3.0	29	0.3	0.3	0.1	107	0.79	0.121		



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6060	Soil	9	33	0.72	332	0.075	<1	1.29	0.012	0.13	<0.1	0.04	3.5	<0.1	0.06	4	0.8
6061	Soil	8	28	0.69	358	0.074	1	1.20	0.011	0.15	0.1	0.05	3.3	0.1	0.09	4	0.6
6062	Soil	8	30	0.75	444	0.067	3	1.17	0.010	0.18	0.1	0.05	3.2	0.1	0.13	4	0.7
6063	Soil	10	38	0.99	370	0.083	1	1.44	0.011	0.17	0.2	0.04	3.5	0.2	0.09	5	0.6
6064	Soil	7	40	1.30	316	0.114	<1	1.66	0.011	0.23	0.1	0.03	3.5	0.2	0.08	5	<0.5
6065	Soil	9	39	0.66	441	0.060	1	1.21	0.011	0.08	<0.1	0.06	2.9	<0.1	0.10	3	<0.5
6066	Soil	13	42	1.17	382	0.121	<1	1.88	0.009	0.25	0.1	0.03	4.8	0.1	<0.05	7	0.5
6067	Soil	11	77	0.90	301	0.080	<1	1.85	0.011	0.05	0.1	0.20	4.3	0.4	<0.05	5	0.7
6068	Soil	12	40	0.56	342	0.068	<1	2.09	0.009	0.06	0.1	0.11	3.7	0.3	<0.05	6	<0.5
6069	Soil	8	20	0.15	141	0.029	<1	0.87	0.009	0.04	<0.1	0.04	0.9	<0.1	<0.05	4	<0.5
6070	Soil	11	37	0.54	177	0.084	<1	1.59	0.009	0.05	0.2	0.03	3.1	0.1	<0.05	6	<0.5
6071	Soil	13	44	0.60	140	0.091	<1	2.02	0.008	0.07	<0.1	0.04	3.7	0.2	<0.05	6	<0.5
6072	Soil	19	37	0.56	229	0.075	<1	1.73	0.007	0.08	0.1	0.05	3.4	0.2	<0.05	6	<0.5
6073	Soil	12	37	0.56	159	0.076	<1	1.79	0.009	0.06	0.1	0.04	3.3	0.1	<0.05	6	<0.5
6074	Soil	14	30	0.53	295	0.061	<1	1.55	0.014	0.08	0.1	0.05	3.3	<0.1	<0.05	6	<0.5
6075	Soil	17	36	0.57	444	0.047	<1	1.51	0.012	0.05	<0.1	0.10	4.4	0.2	0.05	5	<0.5
6076	Soil	9	29	0.32	193	0.053	<1	0.97	0.011	0.05	0.1	0.05	3.1	0.1	<0.05	5	<0.5
6077	Soil	7	44	0.64	134	0.086	<1	2.06	0.009	0.08	<0.1	0.02	4.0	0.1	<0.05	7	<0.5
6078	Soil	7	23	0.34	157	0.067	1	1.32	0.013	0.07	0.1	0.04	2.4	0.1	<0.05	7	<0.5
6079	Soil	10	43	1.54	590	0.212	2	2.41	0.011	0.81	0.1	0.02	4.9	0.3	<0.05	8	<0.5
6080	Soil	9	37	0.80	322	0.101	<1	1.66	0.013	0.10	0.1	0.03	3.4	<0.1	<0.05	7	<0.5
6081	Soil	6	28	0.67	328	0.032	2	1.40	0.017	0.05	0.1	0.08	4.1	0.1	0.05	6	<0.5
6082	Soil	6	27	0.65	169	0.061	2	1.42	0.016	0.04	0.1	0.05	3.5	<0.1	<0.05	6	<0.5
6083	Soil	7	30	0.74	179	0.090	1	1.60	0.016	0.05	0.2	0.03	3.8	<0.1	<0.05	7	<0.5
6084	Soil	7	30	0.63	214	0.068	1	1.60	0.017	0.05	0.1	0.04	3.4	<0.1	<0.05	6	0.9
6085	Soil	9	37	0.70	270	0.077	1	1.86	0.016	0.05	0.2	0.03	3.8	<0.1	<0.05	6	<0.5
6086	Soil	12	42	0.79	313	0.064	1	1.80	0.015	0.06	0.1	0.03	4.4	<0.1	<0.05	6	<0.5
6087	Soil	15	42	0.72	348	0.109	1	1.75	0.018	0.11	0.1	0.02	4.5	<0.1	<0.05	7	<0.5
6088	Soil	18	33	0.65	727	0.080	2	1.51	0.016	0.14	<0.1	0.05	6.0	0.2	0.06	5	0.6
6089	Soil	15	52	1.33	467	0.174	1	2.46	0.015	0.46	0.1	0.02	7.9	0.2	<0.05	9	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
6090	Soil																							
6091	Soil																							
6092	Soil																							
6093	Soil																							
6094	Soil																							
6095	Soil																							
6096	Soil																							
6097	Soil																							
6098	Soil																							
6099	Soil																							
6100	Soil																							
6101	Soil																							
6102	Soil																							
6103	Soil																							
6104	Soil																							
6105	Soil																							
6106	Soil																							
6107	Soil																							
6108	Soil																							
6109	Soil																							
6110	Soil																							
6111	Soil																							
6112	Soil																							
6113	Soil																							
6114	Soil																							
6115	Soil																							
6116	Soil																							
6117	Soil																							
6118	Soil																							
6119	Soil																							



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6090	Soil	12	39	0.57	421	0.043	3	1.39	0.021	0.05	0.1	0.09	3.9	<0.1	0.12	4	<0.5
6091	Soil	15	35	0.99	586	0.126	1	2.47	0.013	0.24	0.1	0.03	6.6	0.1	<0.05	9	0.6
6092	Soil	10	50	0.90	191	0.142	1	2.38	0.014	0.22	0.1	0.02	3.7	0.1	<0.05	8	<0.5
6093	Soil	10	43	0.90	208	0.122	<1	2.28	0.010	0.14	0.1	0.02	3.6	0.1	<0.05	8	<0.5
6094	Soil	18	43	0.70	221	0.099	1	2.37	0.012	0.10	0.1	0.03	5.1	0.2	<0.05	6	<0.5
6095	Soil	14	42	1.02	291	0.179	<1	2.07	0.014	0.54	0.1	0.02	3.1	0.3	<0.05	7	<0.5
6096	Soil	10	31	0.43	157	0.083	<1	1.91	0.007	0.07	0.1	0.03	2.0	0.1	<0.05	9	<0.5
6097	Soil	12	38	0.79	313	0.102	<1	2.52	0.017	0.05	0.1	0.02	4.2	0.1	<0.05	8	<0.5
6098	Soil	8	32	1.15	235	0.184	<1	2.60	0.012	0.16	0.1	<0.01	2.7	0.1	<0.05	7	<0.5
6099	Soil	8	42	0.76	192	0.125	<1	2.53	0.013	0.07	0.1	0.01	3.6	0.1	<0.05	8	<0.5
6100	Soil	6	26	1.32	267	0.181	<1	2.43	0.014	0.43	0.1	<0.01	2.2	0.2	<0.05	6	<0.5
6101	Soil	8	13	0.29	187	0.095	<1	0.97	0.013	0.07	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5
6102	Soil	10	30	0.67	184	0.127	<1	1.75	0.013	0.08	0.1	<0.01	3.4	<0.1	<0.05	9	<0.5
6103	Soil	11	34	0.73	206	0.097	<1	2.23	0.010	0.05	0.2	<0.01	3.6	<0.1	<0.05	7	<0.5
6104	Soil	15	36	0.62	223	0.076	<1	2.10	0.012	0.04	0.1	0.01	3.7	<0.1	<0.05	7	<0.5
6105	Soil	15	33	0.75	342	0.109	<1	1.93	0.013	0.14	0.1	0.03	4.1	0.2	<0.05	7	<0.5
6106	Soil	35	41	0.90	436	0.104	1	1.88	0.016	0.22	<0.1	0.04	5.2	0.2	0.11	6	0.8
6107	Soil	18	29	0.57	434	0.070	1	1.57	0.013	0.13	0.2	0.03	5.4	<0.1	<0.05	5	<0.5
6108	Soil	9	37	0.90	319	0.162	<1	1.76	0.014	0.36	0.1	<0.01	4.1	0.1	<0.05	8	<0.5
6109	Soil	39	30	0.56	636	0.096	<1	1.51	0.024	0.16	0.1	0.06	6.0	0.1	<0.05	6	0.8
6110	Soil	10	32	1.42	512	0.194	<1	2.23	0.024	0.58	<0.1	<0.01	5.0	0.3	0.15	7	<0.5
6111	Soil	16	64	1.39	542	0.139	<1	2.15	0.021	0.37	<0.1	0.03	6.8	0.1	0.14	7	2.8
6112	Soil	25	50	1.13	379	0.092	2	1.76	0.024	0.34	<0.1	0.08	6.0	0.3	0.12	6	2.7
6113	Soil	18	51	1.13	393	0.108	<1	1.81	0.017	0.30	0.1	0.05	5.3	0.3	0.09	6	1.8
6114	Soil	15	33	0.91	408	0.125	1	1.65	0.016	0.21	0.1	0.03	4.7	0.2	<0.05	7	0.7
6115	Soil	10	24	1.44	449	0.209	<1	2.10	0.013	0.77	<0.1	0.03	7.7	0.2	<0.05	8	<0.5
6116	Soil	9	20	0.46	461	0.085	2	1.03	0.023	0.14	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5
6117	Soil	14	28	1.02	468	0.145	2	1.80	0.017	0.37	0.1	0.02	5.7	0.1	<0.05	7	<0.5
6118	Soil	10	27	0.96	407	0.140	3	1.70	0.017	0.25	0.1	0.03	5.5	0.1	<0.05	7	<0.5
6119	Soil	9	30	1.10	422	0.140	1	1.84	0.018	0.32	0.1	0.04	4.8	0.1	<0.05	7	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
6120	Soil	1.1	44.4	9.1	76	0.2	12.9	48.0	2332	3.60	2.6	1.5	1.0	1.0	60	0.3	0.3	<0.1	91	1.77	0.122
6121	Soil	0.9	29.7	14.1	87	0.1	16.4	13.2	627	3.20	4.1	0.7	<0.5	1.9	34	0.1	0.3	0.1	85	0.61	0.067
6122	Soil	1.2	29.2	14.5	100	0.1	14.9	18.4	1176	3.28	5.1	0.7	1.4	1.8	31	0.3	0.3	0.1	97	0.54	0.083
6123	Soil	1.0	32.8	6.4	75	0.1	14.9	10.6	616	2.32	6.2	1.7	3.8	0.9	86	0.3	0.4	<0.1	56	2.41	0.079
6124	Soil	1.9	39.2	8.1	70	0.2	15.9	17.1	603	3.22	5.7	0.8	3.0	1.6	36	0.1	0.2	0.1	84	0.65	0.081
6125	Soil	0.9	37.0	7.4	76	0.2	23.5	11.7	376	2.64	3.8	0.8	3.0	2.1	25	0.1	0.2	0.1	57	0.43	0.078
6126	Soil	1.4	32.8	7.9	75	0.1	19.7	14.2	1036	2.82	6.5	0.8	4.7	1.5	48	0.2	0.3	0.1	75	1.28	0.084
6127	Soil	1.2	25.1	13.4	78	0.3	15.0	8.0	259	2.33	4.8	0.8	1.1	1.5	23	0.3	0.3	0.2	63	0.36	0.057
6128	Soil	1.1	26.1	13.0	78	0.2	17.4	6.2	213	2.40	3.6	1.0	0.9	1.7	25	0.2	0.2	0.1	52	0.34	0.058
6129	Soil	1.1	18.2	9.1	58	<0.1	13.8	6.1	188	2.17	3.4	0.6	<0.5	1.8	15	0.1	0.2	0.1	70	0.18	0.027
6130	Soil	1.2	25.5	9.9	68	0.1	17.0	11.9	383	2.77	4.4	0.8	0.9	1.9	24	<0.1	0.2	0.1	70	0.43	0.082
6131	Soil	1.0	29.8	9.9	59	0.2	16.3	9.3	242	2.63	5.4	0.7	1.3	1.4	21	0.1	0.2	0.1	72	0.32	0.059
6132	Soil	0.9	31.3	5.3	37	0.2	11.9	9.6	171	2.26	2.4	0.6	1.2	0.7	20	<0.1	0.2	0.1	70	0.27	0.052
6133	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6134	Soil	1.0	29.3	5.3	29	0.1	10.9	6.6	308	1.73	2.2	0.4	3.2	0.3	13	0.3	0.2	0.1	54	0.17	0.054
6135	Soil	1.5	20.6	9.7	36	0.1	13.4	6.1	207	2.95	6.0	0.4	5.6	1.3	11	0.2	0.4	0.2	108	0.14	0.041
6136	Soil	1.2	43.5	7.9	74	0.1	26.9	17.5	581	3.64	3.9	0.6	2.5	1.3	19	0.1	0.2	0.1	99	0.35	0.093
6137	Soil	1.7	34.7	15.5	84	0.1	10.0	6.9	352	2.92	2.9	0.6	43.2	1.2	13	0.2	0.2	0.3	64	0.12	0.063
6138	Soil	1.2	29.0	10.7	71	0.1	29.0	11.2	296	2.83	4.4	0.6	0.8	1.3	18	0.1	0.2	0.1	80	0.30	0.068
6139	Soil	1.0	30.7	12.3	67	0.2	18.2	11.6	444	2.91	4.4	0.7	1.7	1.2	19	0.2	0.3	0.1	84	0.32	0.069
6140	Soil	1.4	34.2	13.3	77	0.1	16.8	13.7	536	3.56	5.6	0.5	5.9	1.7	16	0.2	0.3	0.2	96	0.24	0.070
6141	Soil	1.3	31.6	9.5	77	<0.1	16.8	23.8	839	3.79	4.7	0.4	7.8	1.8	22	0.1	0.3	0.1	101	0.24	0.044
6142	Soil	1.3	37.1	10.6	85	0.2	16.8	16.8	534	2.71	2.9	0.8	7.6	1.6	26	0.2	0.4	0.1	73	0.38	0.071
6143	Soil	1.2	31.4	7.7	36	0.2	8.8	4.4	115	2.26	3.0	0.8	3.2	0.4	22	0.1	0.2	0.1	38	0.31	0.084
6144	Soil	0.8	22.3	12.7	34	0.1	9.6	4.5	147	1.58	2.7	0.6	3.2	0.9	19	0.2	0.2	0.1	32	0.25	0.057
6145	Soil	0.5	20.1	9.2	26	0.1	8.8	3.4	87	1.34	0.9	0.6	1.3	0.5	21	0.2	0.2	<0.1	20	0.32	0.072
6146	Soil	1.6	30.3	12.5	76	0.2	18.1	17.0	828	2.74	4.2	0.8	12.7	1.6	28	0.2	0.4	0.1	71	0.48	0.072
6147	Soil	0.5	13.9	5.8	23	0.1	6.6	3.1	80	0.83	0.8	0.4	3.1	0.3	12	0.1	0.2	<0.1	20	0.13	0.037
6148	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6149	Soil	0.8	32.6	7.9	54	0.2	11.4	9.5	222	2.42	3.1	0.7	1.4	0.9	20	0.1	0.2	0.1	68	0.26	0.066



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6120	Soil	12	19	1.17	538	0.118	2	1.82	0.023	0.54	<0.1	0.07	4.8	0.2	0.10	6	0.6
6121	Soil	9	32	1.20	308	0.140	1	1.86	0.016	0.17	0.1	0.03	4.3	0.1	<0.05	8	0.5
6122	Soil	10	30	1.03	344	0.132	1	1.71	0.017	0.23	0.1	0.03	4.6	0.1	<0.05	7	<0.5
6123	Soil	9	21	0.71	418	0.077	4	1.26	0.019	0.20	<0.1	0.06	3.1	<0.1	0.13	5	0.8
6124	Soil	8	33	0.82	302	0.111	2	1.46	0.021	0.16	<0.1	0.04	3.3	0.1	<0.05	6	0.7
6125	Soil	10	54	0.97	257	0.124	2	1.77	0.019	0.24	0.1	0.05	3.9	0.2	<0.05	7	<0.5
6126	Soil	10	33	0.78	359	0.112	2	1.46	0.019	0.18	0.2	0.04	3.6	0.1	<0.05	5	0.5
6127	Soil	9	32	0.69	227	0.115	2	1.48	0.017	0.12	0.1	0.05	3.3	0.1	<0.05	6	<0.5
6128	Soil	13	34	0.80	305	0.120	2	1.60	0.018	0.17	0.1	0.04	3.2	0.1	<0.05	7	0.6
6129	Soil	8	31	0.73	139	0.134	2	1.43	0.013	0.10	0.1	0.03	3.0	0.1	<0.05	7	<0.5
6130	Soil	10	34	0.81	219	0.120	1	1.50	0.016	0.16	0.1	0.04	3.6	0.1	<0.05	6	<0.5
6131	Soil	8	33	0.67	184	0.109	2	1.45	0.020	0.10	0.1	0.04	3.2	<0.1	<0.05	7	<0.5
6132	Soil	7	26	0.73	217	0.102	1	1.37	0.021	0.14	<0.1	0.03	3.1	0.1	<0.05	6	<0.5
6133	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6134	Soil	6	25	0.33	136	0.072	1	0.94	0.017	0.08	<0.1	0.05	1.8	<0.1	<0.05	5	<0.5
6135	Soil	7	34	0.32	92	0.101	1	1.41	0.014	0.06	<0.1	0.04	2.6	<0.1	<0.05	9	<0.5
6136	Soil	7	57	1.09	222	0.137	2	1.90	0.021	0.27	0.1	0.04	5.1	0.1	<0.05	7	<0.5
6137	Soil	10	23	0.68	162	0.089	2	1.34	0.020	0.22	0.1	0.04	4.9	<0.1	<0.05	7	0.7
6138	Soil	7	59	0.99	151	0.127	2	1.68	0.017	0.14	0.1	0.04	3.6	0.1	<0.05	7	<0.5
6139	Soil	9	35	0.75	203	0.118	1	1.65	0.021	0.13	0.1	0.05	3.8	0.1	<0.05	7	<0.5
6140	Soil	8	33	0.87	178	0.132	2	1.80	0.021	0.19	0.1	0.03	5.2	0.1	<0.05	8	<0.5
6141	Soil	6	29	1.09	246	0.182	1	2.21	0.019	0.32	0.1	0.04	4.1	0.1	<0.05	6	<0.5
6142	Soil	11	29	0.89	414	0.119	2	1.87	0.019	0.26	0.1	0.07	5.9	0.1	<0.05	6	0.5
6143	Soil	8	18	0.35	211	0.047	2	0.92	0.017	0.07	<0.1	0.10	2.5	<0.1	0.08	4	1.2
6144	Soil	10	21	0.31	170	0.063	2	1.09	0.017	0.06	0.1	0.06	2.9	0.1	<0.05	5	<0.5
6145	Soil	8	22	0.28	133	0.057	4	0.86	0.020	0.06	0.1	0.08	2.6	0.1	<0.05	4	0.6
6146	Soil	14	34	0.61	290	0.076	3	1.48	0.021	0.08	0.2	0.08	4.8	0.1	<0.05	6	0.6
6147	Soil	6	16	0.20	107	0.043	3	0.61	0.022	0.04	<0.1	0.04	1.9	<0.1	<0.05	4	<0.5
6148	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6149	Soil	8	31	0.70	188	0.119	2	1.52	0.016	0.18	0.1	0.05	3.3	<0.1	<0.05	7	0.6



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Report Date: August 14, 2009

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
6150	Soil	1.6	45.2	12.1	82	<0.1	23.2	26.7	661	4.00	5.9	0.6	10.4	2.3	19	0.2	0.5	0.1	97	0.27	0.062
6151	Soil	1.9	55.0	20.1	94	<0.1	25.6	21.6	634	3.87	4.9	1.0	8.0	2.4	21	0.2	0.8	<0.1	104	0.32	0.070
6152	Soil	1.4	35.0	6.2	71	<0.1	17.2	16.4	446	3.13	4.5	0.6	20.9	1.4	12	0.1	0.2	0.1	83	0.21	0.050
6153	Soil	0.9	22.9	6.0	55	0.1	16.3	10.8	336	2.38	4.4	0.5	3.3	1.8	14	<0.1	0.1	0.1	61	0.23	0.037
6154	Soil	1.5	19.2	7.1	47	0.1	17.3	6.9	249	2.18	7.1	0.4	2.6	1.6	10	0.1	0.2	0.1	61	0.18	0.045
6155	Soil	0.9	12.9	5.0	77	<0.1	14.5	10.4	658	3.18	4.5	0.3	2.3	2.2	14	<0.1	0.1	0.1	82	0.24	0.033
6156	Soil	1.2	11.3	6.2	48	0.2	7.4	8.8	744	1.92	3.2	0.2	1.2	0.6	13	0.2	0.2	0.2	61	0.22	0.038
6157	Soil	1.3	14.0	6.3	37	0.4	9.3	8.5	674	1.80	3.2	0.4	3.1	0.5	20	0.2	0.2	0.2	58	0.34	0.047
6158	Soil	1.0	18.5	6.5	75	0.1	18.0	8.1	493	2.71	4.6	0.4	1.4	1.5	21	<0.1	0.2	0.1	90	0.37	0.058
6159	Soil	2.1	28.5	7.4	74	0.3	20.4	10.5	631	2.95	9.1	0.7	3.0	2.3	20	0.4	0.3	0.1	68	0.38	0.049
6160	Soil	1.4	31.0	5.5	93	<0.1	18.0	10.6	471	3.45	5.2	0.4	0.8	1.8	13	0.1	0.2	<0.1	94	0.30	0.056
6161	Soil	1.4	20.3	6.9	55	<0.1	13.2	12.4	626	2.92	5.6	0.3	1.7	1.4	13	<0.1	0.3	0.1	83	0.21	0.031
6162	Soil	1.1	16.4	5.7	94	<0.1	11.4	9.9	451	3.67	5.1	0.4	1.2	1.6	10	0.2	0.2	<0.1	78	0.17	0.031
6163	Soil	1.0	28.0	4.4	68	<0.1	14.4	14.8	488	3.84	4.4	0.3	0.8	1.0	13	<0.1	0.2	<0.1	107	0.22	0.025
6164	Soil	1.2	21.8	5.7	53	<0.1	14.6	11.4	498	2.72	4.8	0.4	2.0	1.1	22	0.2	0.2	0.1	73	0.41	0.047
6165	Soil	1.1	17.5	6.2	47	<0.1	13.8	8.1	340	2.44	6.0	0.3	1.3	1.3	13	<0.1	0.3	0.1	70	0.20	0.027
6166	Soil	0.9	30.0	5.5	71	<0.1	15.9	12.6	456	2.99	4.4	0.4	1.8	1.4	19	<0.1	0.4	<0.1	76	0.41	0.031
6167	Soil	1.0	33.7	6.2	63	<0.1	17.5	12.1	301	3.40	6.6	0.3	1.9	1.4	14	<0.1	0.3	0.1	94	0.21	0.023
6168	Soil	1.4	22.5	7.2	49	<0.1	14.4	8.8	234	2.89	6.5	0.8	1.9	1.5	12	<0.1	0.3	0.2	87	0.15	0.019
6169	Soil	0.9	31.0	4.9	70	<0.1	11.1	9.0	268	3.00	3.4	0.3	1.5	1.0	14	<0.1	0.2	0.1	75	0.19	0.029
6170	Soil	1.0	60.4	6.0	39	0.3	15.1	9.3	263	2.38	3.1	0.7	2.8	0.2	27	0.3	0.2	0.2	56	0.40	0.067
6171	Soil	1.7	69.4	9.8	92	0.6	25.2	21.3	635	4.64	7.0	1.3	9.3	1.4	25	0.2	0.5	0.2	90	0.41	0.066
6172	Soil	0.9	22.7	7.3	46	0.3	13.7	7.7	262	2.46	8.2	0.5	1.7	1.2	15	0.1	0.4	0.1	58	0.24	0.031
6173	Soil	1.3	28.7	13.0	63	0.5	12.1	4.8	116	2.04	4.7	0.8	2.1	0.5	19	0.6	0.2	0.2	48	0.28	0.042
6174	Soil	1.6	23.4	5.6	41	0.3	13.0	9.1	380	2.52	3.4	0.8	1.3	1.1	21	0.1	0.2	0.1	59	0.46	0.052
6175	Soil	1.1	34.4	7.2	57	<0.1	20.7	16.6	617	3.36	9.3	1.0	2.1	2.4	27	<0.1	0.9	0.1	72	0.68	0.062
6176	Soil	0.8	28.2	3.6	30	0.1	14.0	7.3	686	1.12	3.1	0.5	1.4	0.4	82	0.5	0.3	<0.1	32	2.36	0.097
6177	Soil	0.6	32.3	6.1	66	<0.1	19.7	12.4	586	2.78	5.0	0.7	1.3	1.8	40	<0.1	0.5	<0.1	69	0.97	0.077
6178	Soil	1.1	39.5	5.1	48	0.1	17.9	12.4	633	2.45	3.8	1.0	3.2	0.9	38	0.1	0.6	<0.1	61	1.05	0.072
6179	Soil	1.2	49.0	5.1	67	0.2	21.2	16.0	698	3.49	6.7	1.0	2.0	1.4	28	0.1	0.3	0.1	98	0.82	0.093



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6150	Soil	10	46	0.92	331	0.115	3	1.95	0.019	0.18	0.1	0.04	6.1	0.1	<0.05	8	<0.5
6151	Soil	9	47	0.92	311	0.121	2	1.91	0.020	0.24	0.1	0.05	6.5	<0.1	<0.05	8	<0.5
6152	Soil	6	32	0.81	201	0.104	2	1.54	0.015	0.21	<0.1	0.02	4.5	0.1	<0.05	6	<0.5
6153	Soil	9	35	0.68	264	0.090	<1	1.38	0.011	0.15	0.1	0.03	3.2	<0.1	<0.05	6	<0.5
6154	Soil	8	32	0.47	189	0.084	<1	1.06	0.010	0.13	0.1	0.03	1.9	0.1	<0.05	6	<0.5
6155	Soil	7	26	1.00	155	0.153	<1	1.77	0.011	0.34	0.1	<0.01	4.1	0.3	<0.05	7	<0.5
6156	Soil	5	15	0.29	183	0.090	1	0.79	0.012	0.11	0.1	0.02	2.1	<0.1	<0.05	6	<0.5
6157	Soil	9	19	0.25	355	0.052	<1	0.97	0.013	0.09	0.1	0.05	2.2	<0.1	<0.05	5	<0.5
6158	Soil	6	49	0.89	274	0.120	2	1.69	0.009	0.15	<0.1	0.02	3.4	0.2	<0.05	8	<0.5
6159	Soil	15	32	0.55	546	0.066	<1	1.61	0.010	0.11	<0.1	0.04	3.8	<0.1	<0.05	6	<0.5
6160	Soil	6	33	1.12	306	0.167	<1	1.98	0.009	0.48	0.1	0.01	4.6	0.2	<0.05	8	0.5
6161	Soil	7	28	0.64	382	0.109	1	1.56	0.011	0.18	0.2	0.02	2.6	<0.1	<0.05	6	<0.5
6162	Soil	8	20	0.86	314	0.117	2	2.05	0.008	0.49	<0.1	0.02	3.6	0.1	<0.05	7	<0.5
6163	Soil	5	27	1.23	453	0.161	2	2.14	0.010	0.47	<0.1	0.01	4.5	0.2	<0.05	7	<0.5
6164	Soil	9	24	0.66	496	0.094	2	1.67	0.013	0.15	0.1	0.03	3.4	0.1	<0.05	6	<0.5
6165	Soil	7	23	0.50	234	0.092	<1	1.30	0.008	0.09	0.1	0.01	2.6	<0.1	<0.05	6	<0.5
6166	Soil	6	24	0.78	469	0.109	1	1.79	0.016	0.19	0.2	0.02	3.6	<0.1	<0.05	6	<0.5
6167	Soil	6	27	0.71	235	0.100	<1	2.03	0.009	0.10	<0.1	0.01	3.9	0.1	<0.05	7	<0.5
6168	Soil	7	26	0.50	160	0.083	<1	1.75	0.009	0.07	0.1	<0.01	2.9	<0.1	<0.05	7	<0.5
6169	Soil	5	19	0.69	295	0.092	<1	1.69	0.013	0.16	<0.1	0.01	2.8	0.1	<0.05	5	0.7
6170	Soil	10	18	0.31	557	0.042	1	1.51	0.013	0.13	<0.1	0.03	3.3	<0.1	0.07	5	1.0
6171	Soil	19	39	0.70	855	0.046	2	3.34	0.014	0.16	0.1	0.13	12.9	0.2	<0.05	8	1.0
6172	Soil	9	21	0.27	368	0.039	<1	1.47	0.015	0.07	<0.1	0.03	4.0	<0.1	<0.05	5	0.5
6173	Soil	17	21	0.23	301	0.038	2	1.28	0.015	0.05	<0.1	0.06	2.6	<0.1	<0.05	5	<0.5
6174	Soil	24	20	0.49	438	0.072	1	1.42	0.014	0.11	0.1	0.07	4.8	<0.1	<0.05	6	0.6
6175	Soil	13	30	0.66	374	0.066	1	1.63	0.012	0.09	<0.1	0.05	5.7	<0.1	<0.05	5	1.0
6176	Soil	7	17	0.25	487	0.038	3	0.91	0.019	0.04	<0.1	0.07	2.1	<0.1	0.16	3	1.1
6177	Soil	11	27	0.82	442	0.098	3	1.73	0.015	0.17	0.1	0.04	3.9	0.1	<0.05	5	0.5
6178	Soil	11	23	0.78	550	0.066	2	1.56	0.013	0.06	<0.1	0.05	4.3	<0.1	<0.05	4	<0.5
6179	Soil	7	42	1.15	368	0.136	2	1.82	0.012	0.24	0.1	0.03	6.4	0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
6180	Soil	2.2	32.0	4.8	57	0.1	18.4	11.0	646	2.60	5.2	1.0	2.1	1.2	31	0.2	0.3	<0.1	69	1.12	0.092
6181	Soil	1.1	19.8	5.9	34	<0.1	13.2	5.7	164	1.80	3.6	0.6	1.3	0.4	18	<0.1	0.2	<0.1	48	0.27	0.041
6182	Soil	2.2	24.2	11.0	90	<0.1	31.4	9.4	357	3.29	5.9	0.4	2.0	1.7	12	0.2	0.2	0.1	102	0.18	0.033
6183	Soil	1.2	31.2	8.9	60	0.2	16.3	10.1	562	2.32	6.4	0.9	2.5	1.2	38	0.2	0.3	0.1	59	0.99	0.082
6184	Soil	0.9	20.9	7.4	55	<0.1	17.1	11.7	361	2.56	6.0	0.5	1.6	1.1	25	<0.1	0.2	0.1	68	0.56	0.057
6185	Soil	0.9	26.7	6.1	55	0.1	18.5	10.3	552	2.36	4.5	0.6	1.7	1.2	27	0.2	0.2	0.1	60	0.52	0.068
6186	Soil	1.3	27.2	44.7	68	0.3	19.5	11.1	818	2.68	6.4	1.1	2.7	1.6	23	0.2	0.3	0.1	69	0.42	0.075
6187	Soil	1.2	54.2	4.3	97	0.3	33.6	18.8	664	4.29	4.5	0.4	1.0	1.4	17	0.1	0.1	<0.1	110	0.53	0.106
6188	Soil	0.9	46.1	4.9	44	0.3	20.7	8.5	361	1.74	2.8	0.8	1.0	0.6	18	0.1	0.2	<0.1	42	0.27	0.061
6189	Soil	1.1	22.2	4.6	34	<0.1	7.4	2.9	102	1.12	2.5	0.4	1.1	0.6	27	1.0	0.2	<0.1	36	0.54	0.037
6190	Soil	1.0	22.4	27.6	80	0.1	20.2	18.2	755	2.80	5.0	0.6	3.8	1.9	22	0.3	0.2	0.1	73	0.38	0.073
6191	Soil	0.9	21.2	13.5	72	<0.1	16.1	7.4	278	2.40	5.4	0.5	6.9	1.7	19	0.3	0.2	0.1	63	0.31	0.051
6192	Soil	0.8	27.7	16.9	57	0.2	13.2	5.4	204	1.74	4.6	0.9	2.4	1.0	19	0.2	0.3	0.1	44	0.24	0.044
6193	Soil	1.2	31.7	9.4	56	<0.1	13.7	7.4	292	3.05	6.7	0.4	2.0	1.0	16	0.2	0.4	0.2	76	0.17	0.048
6194	Soil	1.0	36.0	7.1	58	0.1	11.4	6.4	216	2.30	4.6	0.5	3.5	1.0	14	0.3	0.3	0.1	64	0.13	0.034
6195	Soil	0.7	29.2	7.6	59	0.1	18.5	10.2	749	2.80	5.9	1.1	2.6	2.2	42	0.4	0.6	<0.1	56	1.21	0.068
6196	Soil	1.0	37.7	7.5	81	0.1	19.3	15.3	838	4.43	13.3	1.0	1.6	3.3	34	0.1	0.5	0.1	87	1.07	0.090
6197	Soil	1.0	25.7	6.1	53	0.1	13.6	9.2	645	2.10	5.0	1.0	2.9	1.0	60	0.3	0.7	<0.1	38	2.08	0.067
6198	Soil	0.8	25.2	7.1	68	0.1	12.7	10.7	599	2.47	4.4	0.8	2.8	1.2	46	0.4	0.5	<0.1	50	1.38	0.053
6199	Soil	0.8	38.8	6.0	56	0.2	14.4	13.5	576	3.43	4.8	0.8	4.2	1.6	33	0.1	0.5	0.1	70	0.88	0.053
6200	Soil	0.5	27.9	5.3	59	0.1	14.9	13.6	475	3.54	5.5	0.5	1.9	2.2	22	0.1	0.4	<0.1	74	0.43	0.049
6201	Soil	0.6	38.2	6.2	46	0.3	13.7	9.0	235	2.68	4.3	0.9	3.4	1.4	32	0.1	0.3	0.1	64	0.68	0.050
6202	Soil	0.6	34.2	5.6	94	0.1	16.5	13.0	704	3.33	5.2	0.4	2.2	1.8	29	0.6	0.3	<0.1	78	0.49	0.047
6203	Soil	0.6	31.6	6.1	63	<0.1	14.7	11.7	315	3.05	5.7	0.6	2.1	2.2	18	<0.1	0.3	<0.1	76	0.27	0.039
6204	Soil	0.8	31.3	5.5	58	0.1	15.1	12.7	420	2.95	5.9	0.6	3.4	1.4	30	0.4	0.3	<0.1	71	0.49	0.071
6205	Soil	0.8	23.9	6.2	61	<0.1	17.1	13.2	396	3.28	6.2	0.4	3.1	1.7	20	<0.1	0.3	0.1	77	0.32	0.041
6206	Soil	0.6	29.9	5.3	63	<0.1	15.0	13.9	435	3.27	5.3	0.5	1.6	1.7	21	0.2	0.3	<0.1	79	0.42	0.044
6207	Soil	0.6	37.7	4.6	48	0.1	16.5	13.3	596	2.56	5.1	0.6	3.3	1.5	25	0.2	0.3	<0.1	59	0.40	0.067
6208	Soil	0.9	40.4	7.4	49	0.2	15.6	12.0	341	3.15	5.5	0.6	3.3	1.6	22	0.2	0.3	0.2	80	0.31	0.034
6209	Soil	0.9	30.1	7.4	64	0.2	17.1	17.2	743	3.02	5.1	0.7	2.9	1.2	25	0.2	0.3	0.1	71	0.37	0.065



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6180	Soil	8	26	0.68	318	0.087	<1	1.37	0.014	0.18	0.2	0.04	4.3	0.1	0.07	5	0.8
6181	Soil	7	25	0.52	185	0.067	2	1.13	0.013	0.10	<0.1	0.02	1.7	<0.1	<0.05	5	0.6
6182	Soil	8	62	1.00	227	0.175	2	1.79	0.009	0.25	0.1	0.01	2.6	0.1	<0.05	9	<0.5
6183	Soil	15	28	0.62	342	0.066	2	1.35	0.013	0.10	0.1	0.05	4.1	<0.1	0.07	5	<0.5
6184	Soil	6	30	0.64	270	0.080	<1	1.47	0.013	0.07	<0.1	0.02	3.2	0.1	<0.05	6	<0.5
6185	Soil	10	30	0.66	323	0.085	1	1.44	0.013	0.08	0.1	0.04	3.6	<0.1	0.06	5	<0.5
6186	Soil	11	37	0.73	414	0.082	1	1.59	0.011	0.10	0.1	0.07	4.3	0.1	<0.05	5	0.5
6187	Soil	6	68	1.38	327	0.169	1	2.05	0.009	0.55	<0.1	0.01	4.5	0.2	<0.05	7	0.6
6188	Soil	5	50	0.59	239	0.070	2	0.98	0.023	0.13	<0.1	0.04	2.2	<0.1	0.07	4	0.7
6189	Soil	6	10	0.24	271	0.065	1	0.55	0.020	0.11	<0.1	0.03	1.4	<0.1	0.12	3	0.6
6190	Soil	9	39	0.98	298	0.143	1	1.71	0.016	0.30	<0.1	0.03	3.6	0.2	<0.05	6	0.7
6191	Soil	9	30	0.71	226	0.121	2	1.34	0.015	0.14	0.1	0.02	2.9	0.1	<0.05	5	<0.5
6192	Soil	11	24	0.51	248	0.075	<1	1.17	0.017	0.12	0.1	0.05	2.7	0.1	<0.05	5	<0.5
6193	Soil	6	27	0.55	116	0.095	3	1.80	0.016	0.08	0.1	0.06	2.8	<0.1	<0.05	7	<0.5
6194	Soil	8	22	0.56	152	0.094	<1	1.24	0.021	0.13	<0.1	0.02	3.8	<0.1	0.06	6	<0.5
6195	Soil	14	24	0.64	577	0.071	2	1.52	0.019	0.15	0.1	0.04	5.0	0.1	<0.05	4	0.7
6196	Soil	13	30	1.09	569	0.131	3	1.86	0.020	0.31	0.1	0.03	8.1	0.2	<0.05	6	0.5
6197	Soil	12	18	0.50	527	0.050	4	0.99	0.026	0.10	<0.1	0.05	3.7	<0.1	0.12	3	0.7
6198	Soil	9	19	0.59	560	0.067	3	1.26	0.025	0.15	<0.1	0.04	5.0	<0.1	0.08	4	0.6
6199	Soil	12	20	0.60	582	0.077	2	1.65	0.022	0.12	<0.1	0.04	8.5	0.1	<0.05	5	0.7
6200	Soil	9	23	0.68	349	0.102	2	1.51	0.017	0.20	0.1	0.02	6.8	0.1	<0.05	5	<0.5
6201	Soil	16	23	0.52	546	0.064	2	1.74	0.022	0.08	0.1	0.05	7.0	0.1	<0.05	6	0.5
6202	Soil	10	23	0.59	526	0.094	2	1.58	0.023	0.13	0.1	0.01	5.7	<0.1	<0.05	5	<0.5
6203	Soil	10	25	0.62	277	0.107	1	1.80	0.020	0.09	0.2	0.03	5.6	<0.1	<0.05	6	<0.5
6204	Soil	8	26	0.62	301	0.091	1	1.61	0.020	0.10	0.2	0.04	4.9	<0.1	<0.05	5	<0.5
6205	Soil	7	28	0.70	187	0.101	2	1.87	0.019	0.10	0.1	0.01	4.3	<0.1	<0.05	6	<0.5
6206	Soil	8	26	0.71	249	0.105	2	1.69	0.027	0.12	<0.1	0.03	6.2	<0.1	<0.05	6	<0.5
6207	Soil	11	23	0.56	286	0.077	2	1.49	0.019	0.07	0.1	0.04	4.3	<0.1	0.06	4	<0.5
6208	Soil	8	29	0.54	354	0.093	2	2.22	0.022	0.09	0.1	0.03	5.2	0.1	<0.05	7	<0.5
6209	Soil	8	32	0.67	364	0.085	3	1.99	0.020	0.10	0.1	0.04	5.3	<0.1	0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
6210	Soil	0.7	16.0	5.8	29	0.2	7.7	5.0	135	2.09	3.3	0.3	1.8	1.1	16	0.2	0.2	0.1	64	0.24	0.017
6211	Soil	0.7	34.0	5.1	52	0.2	15.1	10.8	420	2.98	4.2	0.9	3.1	1.2	41	0.2	0.4	<0.1	67	0.80	0.069
6212	Soil	0.6	39.9	5.1	57	0.1	14.2	11.6	355	2.95	4.4	0.4	1.9	1.4	18	0.2	0.3	<0.1	80	0.29	0.041
6213	Soil	0.7	26.3	4.3	50	0.1	10.6	10.6	585	2.28	2.9	0.5	1.9	0.8	22	0.1	0.2	<0.1	63	0.36	0.056
6214	Soil	0.9	34.0	6.3	71	<0.1	13.2	11.4	371	3.31	5.4	0.8	2.1	1.9	25	<0.1	0.2	0.1	75	0.40	0.051
6215	Soil	0.7	34.1	5.3	78	<0.1	12.8	14.2	420	3.32	4.5	0.5	3.5	1.6	29	0.2	0.2	<0.1	85	0.47	0.053
6216	Soil	1.1	27.6	7.2	68	0.1	16.4	10.9	508	2.86	8.2	1.2	1.8	1.8	49	0.2	0.4	0.1	65	1.04	0.054
6217	Soil	0.8	29.3	7.7	62	0.1	16.8	11.2	679	2.54	7.4	1.4	2.5	1.1	61	0.3	0.6	0.1	51	1.41	0.072
6218	Soil	0.9	29.0	6.7	64	0.1	14.4	9.1	450	2.53	8.8	1.5	3.4	1.1	59	0.3	0.6	<0.1	52	1.43	0.073
6219	Soil	0.8	36.2	7.7	58	0.3	16.8	9.3	399	2.71	6.8	1.7	3.5	1.0	57	0.3	0.4	0.1	61	1.49	0.062
6220	Soil	1.0	27.7	6.2	65	0.1	15.5	11.3	497	2.56	7.6	1.2	1.1	1.1	48	0.1	0.5	0.1	56	1.22	0.071
6221	Soil	0.8	27.7	5.9	57	<0.1	14.7	10.8	540	2.30	5.0	0.9	2.3	1.0	61	0.2	0.4	<0.1	57	1.41	0.075
6222	Soil	0.8	28.7	7.4	65	<0.1	15.1	10.7	503	2.71	7.0	0.8	1.8	1.1	49	0.2	0.4	<0.1	65	1.09	0.068
6223	Soil	1.0	28.9	7.8	72	<0.1	17.1	11.6	529	2.96	9.6	1.1	1.2	1.6	51	0.3	0.6	0.1	71	1.02	0.061
6224	Soil	0.7	29.7	7.6	60	<0.1	14.2	11.9	541	2.35	5.4	2.0	2.3	1.1	56	0.3	0.6	0.1	60	1.36	0.062
6225	Soil	1.1	41.2	7.7	59	0.1	15.3	8.7	347	1.97	4.8	3.0	2.3	0.7	69	0.5	0.6	0.1	48	1.85	0.075
6226	Soil	1.0	24.5	6.9	54	<0.1	16.2	9.9	434	2.37	5.9	1.1	2.2	1.5	42	0.3	0.3	0.1	57	1.06	0.054
6227	Soil	1.0	42.4	7.6	61	0.1	21.0	12.6	771	2.38	5.5	2.1	2.7	1.3	46	0.3	0.5	0.1	53	0.87	0.095
6228	Soil	1.2	27.9	8.3	56	0.1	18.9	14.2	410	2.59	6.0	0.8	1.2	1.4	26	0.1	0.3	0.2	69	0.36	0.073
6229	Soil	0.8	30.7	9.0	58	0.1	20.8	11.3	257	2.69	7.4	0.8	1.5	2.4	20	0.1	0.3	0.1	65	0.31	0.086
6230	Soil	1.4	62.1	6.9	54	0.7	20.3	12.1	670	2.84	5.7	3.3	3.7	1.7	30	0.2	0.4	0.2	68	0.38	0.088
6231	Soil	2.0	25.5	13.1	55	<0.1	15.6	9.6	311	3.72	13.2	0.6	2.6	2.3	11	0.2	0.9	0.2	89	0.10	0.031
6232	Soil	1.1	28.8	10.7	76	<0.1	27.9	12.8	405	4.15	11.2	0.6	3.5	3.3	13	0.2	0.6	0.2	85	0.14	0.031
6233	Soil	1.6	26.5	11.7	45	<0.1	17.8	9.9	226	3.65	10.1	0.5	1.7	1.8	15	0.1	0.7	0.2	102	0.15	0.080
6234	Soil	2.7	90.5	7.6	107	0.1	36.7	23.3	872	4.52	8.4	1.1	7.7	1.3	20	0.1	0.3	0.1	145	0.45	0.165
6235	Soil	1.2	26.2	23.3	122	0.2	25.5	8.3	294	2.21	4.7	1.0	7.5	3.1	31	0.3	2.0	0.2	64	0.55	0.072
6236	Soil	2.8	34.5	14.7	100	0.1	22.7	16.1	934	3.81	26.1	1.7	12.3	3.3	30	0.4	0.5	0.2	81	0.45	0.082
6237	Soil	1.2	38.3	9.5	91	0.2	20.1	13.1	683	3.13	14.4	1.3	4.5	2.0	32	0.3	0.4	0.2	80	0.49	0.082
6238	Soil	1.2	53.8	9.1	81	0.5	23.9	16.1	668	2.90	6.0	1.8	3.8	1.3	33	0.2	0.3	0.2	75	0.49	0.097
6239	Soil	1.6	34.4	23.9	106	0.2	22.8	13.6	697	3.36	6.9	1.3	6.1	2.8	23	0.4	0.3	0.2	85	0.33	0.068



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6210	Soil	6	17	0.38	212	0.072	3	1.14	0.022	0.06	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5
6211	Soil	11	26	0.67	535	0.081	3	1.71	0.024	0.13	0.1	0.04	6.7	<0.1	0.09	5	<0.5
6212	Soil	8	26	0.67	189	0.109	2	1.58	0.025	0.12	0.1	0.04	4.3	<0.1	<0.05	6	<0.5
6213	Soil	6	17	0.55	234	0.103	2	1.18	0.025	0.17	0.1	0.03	3.0	<0.1	<0.05	5	<0.5
6214	Soil	11	24	0.83	303	0.117	1	1.82	0.019	0.22	<0.1	0.03	4.9	0.1	0.05	6	<0.5
6215	Soil	8	23	1.06	335	0.175	2	1.84	0.021	0.46	<0.1	0.03	3.9	0.1	<0.05	7	<0.5
6216	Soil	12	26	0.65	470	0.103	2	1.51	0.020	0.15	<0.1	0.05	4.8	0.1	0.06	5	0.6
6217	Soil	17	22	0.53	581	0.070	3	1.34	0.027	0.15	0.1	0.06	4.2	<0.1	0.10	4	0.7
6218	Soil	12	23	0.56	432	0.068	3	1.25	0.023	0.19	<0.1	0.04	4.2	0.1	0.11	4	<0.5
6219	Soil	16	26	0.60	644	0.077	3	1.45	0.023	0.11	<0.1	0.06	4.5	<0.1	0.10	5	0.6
6220	Soil	11	24	0.67	369	0.085	3	1.38	0.021	0.18	<0.1	0.04	4.0	0.1	0.11	4	0.6
6221	Soil	13	24	0.66	480	0.087	3	1.46	0.025	0.17	0.1	0.05	3.3	0.1	0.10	4	0.5
6222	Soil	10	27	0.79	408	0.105	2	1.66	0.023	0.19	<0.1	0.04	4.1	0.1	0.08	5	<0.5
6223	Soil	11	29	0.79	397	0.104	2	1.69	0.022	0.15	<0.1	0.04	4.9	0.1	0.07	6	<0.5
6224	Soil	11	25	0.69	383	0.081	2	1.36	0.018	0.14	<0.1	0.06	3.1	0.1	0.11	4	0.7
6225	Soil	13	22	0.59	417	0.054	2	1.27	0.020	0.11	<0.1	0.08	2.9	0.1	0.17	4	0.8
6226	Soil	8	28	0.58	294	0.080	1	1.36	0.016	0.09	<0.1	0.05	3.4	<0.1	0.09	4	0.7
6227	Soil	23	28	0.63	575	0.065	1	1.77	0.018	0.07	0.2	0.08	4.0	<0.1	0.09	4	0.6
6228	Soil	9	33	0.63	320	0.074	<1	1.75	0.016	0.07	0.1	0.03	3.2	<0.1	<0.05	6	<0.5
6229	Soil	10	31	0.70	239	0.090	1	1.83	0.012	0.08	0.1	0.05	3.5	0.1	<0.05	6	0.5
6230	Soil	18	31	0.65	550	0.070	2	1.69	0.021	0.08	<0.1	0.09	7.5	0.1	<0.05	5	0.9
6231	Soil	9	33	0.58	159	0.095	<1	1.80	0.009	0.09	0.1	0.03	3.4	0.1	<0.05	8	<0.5
6232	Soil	9	52	0.89	144	0.135	<1	2.21	0.012	0.12	0.1	0.01	4.0	<0.1	<0.05	8	<0.5
6233	Soil	9	37	0.45	168	0.066	<1	2.10	0.012	0.04	0.2	0.03	2.9	0.1	<0.05	8	<0.5
6234	Soil	10	43	1.03	305	0.139	<1	1.64	0.015	0.39	<0.1	0.02	6.3	0.2	0.05	8	1.3
6235	Soil	13	48	0.94	632	0.117	2	2.09	0.015	0.15	<0.1	0.16	6.1	0.2	<0.05	8	<0.5
6236	Soil	14	35	0.81	400	0.086	1	1.84	0.015	0.13	0.1	0.05	5.0	0.1	<0.05	6	0.5
6237	Soil	17	36	0.80	519	0.099	1	1.79	0.017	0.14	0.1	0.05	5.9	0.1	<0.05	7	0.6
6238	Soil	18	35	0.81	967	0.074	1	1.87	0.023	0.06	<0.1	0.08	6.0	0.2	0.06	6	0.6
6239	Soil	17	41	0.96	351	0.124	<1	1.92	0.017	0.25	<0.1	0.04	4.8	0.2	<0.05	7	<0.5



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Project: Ballarat
Report Date: August 14, 2009

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
6240	Soil	0.5	8.2	4.2	12	<0.1	3.3	1.4	33	0.54	1.0	0.5	1.0	0.1	9	0.3	0.1	<0.1	17	0.08
6241	Soil	0.5	39.6	10.8	67	<0.1	23.3	11.5	238	3.02	10.7	0.8	3.7	2.3	23	<0.1	0.3	0.2	87	0.35
6242	Soil	1.6	30.7	10.0	39	0.1	14.6	12.0	1133	2.19	5.2	0.8	1.2	0.5	36	0.2	0.4	0.2	66	0.56
6243	Soil	1.4	24.1	7.3	30	0.2	11.1	12.4	1611	1.43	2.8	0.8	0.7	0.2	73	0.5	0.5	0.1	31	1.91
6244	Soil	1.4	26.0	14.4	51	0.1	17.4	19.3	1280	2.42	5.5	1.1	1.6	0.7	44	1.0	0.4	0.2	59	0.72
6245	Soil	1.1	48.6	13.1	65	0.1	23.5	13.7	614	3.03	7.7	2.5	3.4	1.6	45	0.2	0.4	0.1	70	0.80
6246	Soil	1.3	32.9	10.7	70	0.1	20.9	12.7	352	3.16	10.3	1.7	4.4	2.1	34	0.1	0.3	0.1	76	0.51
6247	Soil	1.5	29.3	10.2	73	0.1	18.8	12.4	379	3.17	8.8	1.1	2.5	2.2	45	0.2	0.3	0.1	84	0.65
6248	Soil	1.7	29.4	10.4	77	0.1	19.2	14.0	478	3.22	10.9	1.2	6.4	1.9	33	0.3	0.3	0.2	89	0.45
6249	Soil	1.7	36.7	10.0	76	0.3	20.6	13.4	579	2.96	9.4	2.0	6.7	1.8	53	0.4	0.4	0.2	76	0.81
6250	Soil	1.5	31.5	11.5	74	0.1	19.0	14.0	579	3.15	11.2	1.6	8.3	1.8	36	0.2	0.3	0.1	76	0.52
6251	Soil	1.4	30.8	10.1	79	<0.1	19.4	10.1	364	3.17	12.7	1.5	3.8	1.8	37	0.2	0.3	0.2	80	0.54
6252	Soil	1.3	25.1	8.3	81	0.2	17.8	16.4	1094	2.83	8.8	1.2	1.8	1.8	38	0.2	0.3	0.2	72	0.50
6253	Soil	1.6	28.2	7.6	79	0.2	13.1	8.4	667	2.51	6.1	0.7	3.1	0.9	28	0.7	0.2	0.2	67	0.38
6254	Soil	1.5	40.4	9.5	85	0.2	18.3	10.0	350	3.04	8.9	1.5	4.1	2.4	35	0.2	0.3	0.2	72	0.49
6255	Soil	1.5	40.1	8.7	80	0.1	16.0	9.8	304	2.87	7.3	1.4	3.5	2.1	40	0.1	0.3	0.1	69	0.61
6256	Soil	0.8	29.9	8.7	94	<0.1	10.0	11.7	483	3.60	4.3	0.6	1.8	1.7	21	0.3	0.4	0.1	62	0.31
6257	Soil	1.2	20.4	10.1	67	<0.1	21.7	13.2	749	3.29	9.1	0.5	1.0	2.9	16	0.1	0.6	0.2	84	0.16
6258	Soil	0.6	31.0	4.6	83	<0.1	13.7	15.5	346	3.60	3.9	0.3	1.2	1.0	18	0.2	0.2	<0.1	66	0.23
6259	Soil	1.0	29.9	6.8	54	<0.1	15.5	11.4	267	3.09	3.6	0.4	2.8	1.3	19	0.1	0.3	0.1	100	0.22
6260	Soil	0.7	25.0	5.9	50	0.1	11.4	12.0	710	2.30	3.5	0.5	1.0	0.7	20	0.2	0.2	0.1	60	0.30
6261	Soil	0.6	36.4	5.6	77	<0.1	19.1	15.9	517	4.13	5.8	0.6	2.0	1.2	15	0.1	0.4	<0.1	110	0.25
6262	Soil	0.8	24.6	6.9	52	0.1	13.5	7.6	189	2.46	4.7	0.6	2.0	1.0	20	0.2	0.3	0.1	55	0.24
6263	Soil	0.7	18.7	6.6	46	<0.1	12.3	9.6	279	2.24	5.9	0.5	1.5	1.2	19	<0.1	0.2	0.1	54	0.27
6264	Soil	1.0	25.4	7.2	47	<0.1	14.6	9.6	271	2.42	4.9	0.6	2.4	1.5	22	0.1	0.3	0.2	54	0.29
6265	Soil	0.8	25.4	7.8	53	0.2	14.5	8.5	280	2.49	4.9	0.7	4.7	1.0	33	<0.1	0.3	0.2	51	0.50
6266	Soil	0.5	17.0	7.0	47	0.1	11.4	6.8	155	1.87	3.4	0.5	3.2	0.9	31	0.1	0.2	0.1	44	0.49
6267	Soil	0.7	14.6	6.4	39	<0.1	10.6	4.6	115	1.81	4.3	0.4	3.5	1.3	16	<0.1	0.2	0.1	40	0.21
6268	Soil	0.7	22.2	6.6	38	<0.1	13.8	6.5	159	1.87	3.9	0.6	0.8	1.2	25	0.2	0.3	0.1	44	0.36
6269	Soil	0.6	25.6	8.3	35	0.1	11.5	4.9	113	1.65	2.9	0.6	1.0	0.9	29	0.1	0.2	0.1	28	0.40



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6240	Soil	4	10	0.06	80	0.025	<1	0.40	0.020	0.03	<0.1	0.03	1.0	<0.1	<0.05	2	<0.5
6241	Soil	13	37	1.04	411	0.123	1	2.30	0.015	0.09	0.1	0.03	5.0	0.1	<0.05	7	<0.5
6242	Soil	9	26	0.45	514	0.055	<1	1.28	0.020	0.05	<0.1	0.04	2.2	0.1	<0.05	6	<0.5
6243	Soil	10	17	0.29	527	0.025	1	1.10	0.027	0.04	<0.1	0.11	1.3	<0.1	0.24	3	0.9
6244	Soil	10	27	0.53	424	0.052	2	1.51	0.025	0.07	0.1	0.06	2.8	0.1	0.08	5	<0.5
6245	Soil	15	35	0.88	473	0.076	1	1.96	0.020	0.10	0.1	0.07	4.6	<0.1	0.06	6	0.7
6246	Soil	13	34	0.90	360	0.097	1	2.01	0.017	0.10	0.1	0.09	4.9	0.1	<0.05	7	0.6
6247	Soil	12	34	0.81	449	0.118	<1	1.83	0.019	0.13	<0.1	0.04	5.0	<0.1	<0.05	7	0.5
6248	Soil	15	33	0.86	381	0.127	1	1.89	0.018	0.16	0.1	0.03	4.8	0.1	<0.05	7	<0.5
6249	Soil	24	32	0.68	514	0.091	2	1.73	0.018	0.15	<0.1	0.06	5.0	<0.1	0.05	6	0.6
6250	Soil	20	33	0.71	417	0.103	2	1.82	0.016	0.19	0.1	0.05	4.8	0.1	<0.05	6	0.6
6251	Soil	16	35	0.71	430	0.105	<1	1.91	0.019	0.12	0.1	0.05	4.8	<0.1	<0.05	7	0.6
6252	Soil	17	27	0.64	493	0.104	1	1.65	0.016	0.18	0.1	0.06	4.4	<0.1	0.07	6	0.6
6253	Soil	9	22	0.39	235	0.078	2	1.42	0.015	0.14	<0.1	0.04	3.1	<0.1	<0.05	6	<0.5
6254	Soil	20	28	0.61	459	0.081	1	1.75	0.016	0.12	<0.1	0.05	5.3	<0.1	<0.05	6	0.7
6255	Soil	17	26	0.61	460	0.087	<1	1.73	0.016	0.16	0.1	0.04	4.8	<0.1	<0.05	5	<0.5
6256	Soil	10	18	0.57	292	0.046	<1	1.61	0.014	0.25	<0.1	0.03	5.5	0.1	<0.05	6	<0.5
6257	Soil	8	37	0.52	226	0.088	<1	2.21	0.017	0.05	<0.1	0.02	3.6	0.1	<0.05	7	<0.5
6258	Soil	3	20	0.98	273	0.129	<1	1.95	0.011	0.58	<0.1	0.01	2.8	0.2	<0.05	6	<0.5
6259	Soil	6	37	0.73	189	0.133	<1	1.81	0.026	0.11	<0.1	0.03	4.7	0.1	<0.05	8	<0.5
6260	Soil	6	20	0.49	239	0.063	3	1.28	0.019	0.09	0.1	0.06	4.5	<0.1	<0.05	5	<0.5
6261	Soil	5	41	1.05	269	0.108	<1	1.99	0.018	0.27	<0.1	0.01	8.0	0.1	<0.05	7	0.6
6262	Soil	7	23	0.50	200	0.071	2	1.51	0.015	0.05	0.1	0.03	3.4	<0.1	<0.05	6	0.7
6263	Soil	7	21	0.53	213	0.076	1	1.49	0.015	0.05	0.2	0.03	3.5	<0.1	<0.05	5	<0.5
6264	Soil	8	23	0.50	223	0.076	2	1.54	0.016	0.05	0.2	0.03	3.9	<0.1	<0.05	5	0.7
6265	Soil	8	25	0.52	280	0.063	2	1.66	0.019	0.06	0.2	0.05	4.2	<0.1	<0.05	6	0.6
6266	Soil	7	19	0.48	213	0.062	<1	1.29	0.016	0.05	0.1	0.03	3.1	<0.1	<0.05	5	<0.5
6267	Soil	7	19	0.40	124	0.071	<1	1.21	0.014	0.06	0.2	0.03	2.9	<0.1	<0.05	5	0.6
6268	Soil	8	24	0.49	283	0.064	1	1.19	0.019	0.06	0.2	0.04	4.1	<0.1	<0.05	5	0.8
6269	Soil	8	19	0.42	201	0.054	2	1.14	0.017	0.06	0.1	0.06	2.9	<0.1	<0.05	4	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
6270	Soil				0.7	20.2	7.7	46	<0.1	14.1	7.7	208	2.16	4.5	0.5	4.0	1.3	20	<0.1	0.3	0.1	48	0.29	0.043
6271	Soil				1.4	23.5	9.3	53	0.2	14.9	10.1	372	2.45	4.9	0.8	1.5	1.4	19	0.2	0.3	0.2	53	0.24	0.045
6272	Soil				1.1	18.9	8.8	52	0.1	12.8	8.1	246	2.49	4.8	0.6	3.4	1.9	22	0.2	0.5	0.2	54	0.32	0.039
6273	Soil				1.1	18.6	7.9	50	0.1	13.4	6.5	535	2.06	4.5	0.4	3.9	1.1	35	0.6	0.3	0.2	48	0.46	0.042
6274	Soil				1.1	33.9	9.3	56	0.5	18.4	8.5	237	2.55	5.7	1.3	13.3	1.4	41	0.5	0.4	0.2	43	0.49	0.054
6275	Soil				1.1	34.0	6.0	66	0.1	39.5	14.0	392	3.29	4.5	2.7	3.2	1.5	79	<0.1	0.4	0.1	64	0.85	0.076
6276	Soil				0.9	22.1	4.0	29	0.1	8.4	4.5	120	1.33	1.9	0.3	1.9	0.4	15	0.2	0.2	0.1	33	0.19	0.039
6277	Soil				0.9	36.8	6.0	59	0.1	12.8	15.6	327	3.11	4.8	0.6	1.4	1.5	23	0.1	0.2	0.1	84	0.37	0.056
6278	Soil				0.9	23.8	5.3	49	0.2	12.9	7.5	260	2.33	4.3	0.6	1.0	1.6	23	0.1	0.3	0.2	53	0.33	0.042
6279	Soil				1.0	56.5	8.0	59	0.5	18.8	17.4	736	3.35	4.9	1.2	3.9	2.8	35	0.2	0.4	0.2	75	0.54	0.045
6280	Soil				0.8	22.3	5.2	42	0.2	10.9	6.2	205	1.89	3.3	0.6	0.8	1.1	23	0.2	0.3	0.1	42	0.31	0.061
6281	Soil				0.7	24.3	5.6	54	0.1	15.3	8.7	339	2.49	4.5	0.6	2.5	1.7	26	0.1	0.3	0.1	62	0.40	0.037
6282	Soil				0.7	48.1	4.7	70	<0.1	13.0	15.0	481	3.63	4.0	0.7	1.7	2.3	25	0.1	0.4	<0.1	94	0.49	0.057
6283	Soil				0.6	34.2	4.8	61	<0.1	13.4	11.9	373	3.01	4.8	0.4	2.0	2.1	18	0.1	0.4	<0.1	75	0.34	0.042
6284	Soil				0.7	32.2	6.7	51	<0.1	18.8	12.1	408	2.70	6.2	0.6	<0.5	1.7	32	0.2	0.4	0.1	67	0.64	0.049
6285	Soil				0.9	32.9	7.5	50	0.2	17.6	15.1	1239	2.58	4.9	0.4	1.0	1.2	25	0.1	0.4	0.1	63	0.36	0.037
6286	Soil				0.9	36.6	7.8	54	<0.1	18.2	10.5	335	2.87	4.9	0.6	2.1	2.0	30	0.1	0.3	0.1	74	0.54	0.039
6287	Soil				1.1	22.7	6.9	54	<0.1	17.1	9.4	976	2.28	4.8	0.4	1.3	0.7	42	0.6	0.4	0.1	53	0.63	0.071
6288	Soil				1.1	18.9	7.7	46	<0.1	16.8	8.8	365	2.78	7.7	0.7	3.9	3.0	19	0.1	0.4	0.2	69	0.25	0.034
6289	Soil				1.5	17.1	9.5	53	0.2	17.0	8.6	1461	2.62	5.0	0.3	<0.5	0.4	31	0.7	0.5	0.2	66	0.37	0.058
6290	Soil				0.7	16.4	5.2	48	<0.1	11.1	8.2	428	1.67	2.6	0.6	1.1	2.0	27	0.2	0.3	0.1	40	0.35	0.045
6291	Soil				1.6	32.8	8.4	56	0.1	16.1	11.9	856	2.58	5.7	1.3	1.9	1.2	30	0.2	0.4	0.2	53	0.30	0.051
6292	Soil				1.3	25.9	6.5	48	0.1	14.8	8.5	403	2.61	6.3	0.6	3.0	1.9	23	0.1	0.5	0.2	48	0.26	0.035
6293	Soil				1.0	17.3	7.5	50	0.1	16.6	7.3	331	2.64	7.0	0.6	1.3	1.8	32	0.2	0.4	0.2	59	0.35	0.043
6294	Soil				1.3	12.4	8.8	61	<0.1	11.1	8.0	768	2.16	6.5	0.4	0.8	0.9	38	0.7	0.3	0.2	58	0.52	0.093
6295	Soil				1.0	20.2	9.0	53	0.1	17.5	8.2	392	2.78	8.0	0.5	4.7	1.7	22	0.2	0.6	0.2	64	0.26	0.040
6296	Soil				0.8	8.4	8.2	24	0.1	5.1	2.5	161	1.22	2.3	0.3	<0.5	0.3	19	0.3	0.4	0.3	35	0.22	0.031
6297	Soil				0.6	8.1	5.0	24	<0.1	5.5	2.3	143	0.96	1.9	0.2	0.5	<0.1	12	0.3	0.3	0.2	28	0.10	0.046
6298	Soil				0.9	27.8	9.7	62	<0.1	22.2	11.3	328	3.34	8.5	0.6	<0.5	2.2	22	<0.1	0.5	0.2	70	0.29	0.040
6299	Soil				0.7	18.0	6.6	57	<0.1	12.9	6.8	295	2.41	4.5	0.7	0.7	2.9	20	<0.1	0.3	0.1	43	0.24	0.040



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6270	Soil	7	27	0.51	143	0.068	1	1.31	0.014	0.08	0.2	0.03	3.1	<0.1	<0.05	5	<0.5
6271	Soil	10	27	0.50	189	0.081	2	1.59	0.016	0.09	0.1	0.04	3.5	<0.1	<0.05	6	<0.5
6272	Soil	12	24	0.48	193	0.087	2	1.40	0.016	0.10	0.2	0.02	3.7	<0.1	<0.05	6	0.5
6273	Soil	9	21	0.36	469	0.066	2	1.36	0.019	0.11	0.1	0.04	3.5	<0.1	<0.05	6	0.6
6274	Soil	22	29	0.46	554	0.049	2	1.93	0.015	0.08	0.2	0.08	6.0	<0.1	<0.05	6	0.8
6275	Soil	12	60	1.08	446	0.066	<1	1.89	0.019	0.08	<0.1	0.03	6.9	<0.1	<0.05	6	<0.5
6276	Soil	4	15	0.26	111	0.047	1	0.74	0.015	0.07	0.1	0.02	2.1	<0.1	<0.05	4	0.6
6277	Soil	9	21	0.74	279	0.124	2	1.86	0.020	0.22	0.1	0.04	5.4	0.1	<0.05	7	<0.5
6278	Soil	10	22	0.46	244	0.077	<1	1.47	0.016	0.10	0.1	0.02	4.6	<0.1	<0.05	5	<0.5
6279	Soil	20	29	0.55	441	0.079	2	2.06	0.019	0.10	0.1	0.04	8.8	<0.1	<0.05	7	0.6
6280	Soil	8	18	0.38	188	0.064	<1	1.11	0.016	0.10	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5
6281	Soil	11	26	0.56	233	0.084	1	1.51	0.020	0.10	0.1	0.04	4.6	<0.1	<0.05	5	<0.5
6282	Soil	11	20	0.74	268	0.111	1	1.71	0.024	0.25	0.1	0.03	7.6	0.1	<0.05	6	<0.5
6283	Soil	8	21	0.57	178	0.097	1	1.34	0.022	0.18	0.1	0.02	5.0	0.1	<0.05	5	<0.5
6284	Soil	10	28	0.56	261	0.065	1	1.71	0.021	0.04	0.2	0.02	4.8	<0.1	<0.05	5	<0.5
6285	Soil	6	25	0.48	284	0.064	2	1.72	0.023	0.07	<0.1	0.04	3.5	<0.1	<0.05	6	0.8
6286	Soil	9	29	0.61	332	0.084	2	2.06	0.026	0.09	0.1	0.04	5.6	<0.1	<0.05	6	<0.5
6287	Soil	9	22	0.47	371	0.070	2	1.30	0.022	0.15	0.1	0.03	2.6	<0.1	<0.05	5	0.5
6288	Soil	14	30	0.48	279	0.092	2	1.82	0.013	0.07	0.2	0.02	3.8	<0.1	<0.05	6	0.6
6289	Soil	8	28	0.38	372	0.068	2	1.25	0.018	0.11	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5
6290	Soil	12	19	0.49	253	0.085	1	1.19	0.019	0.10	0.2	0.03	4.5	<0.1	<0.05	5	0.5
6291	Soil	23	24	0.47	406	0.067	1	1.74	0.020	0.08	0.1	0.03	4.6	<0.1	<0.05	7	0.5
6292	Soil	12	25	0.48	301	0.073	1	1.54	0.016	0.07	0.1	0.03	3.7	<0.1	<0.05	5	<0.5
6293	Soil	17	28	0.50	384	0.074	<1	1.78	0.016	0.07	0.1	0.03	3.7	<0.1	<0.05	6	<0.5
6294	Soil	10	20	0.37	347	0.076	2	1.18	0.015	0.08	0.1	0.02	2.6	<0.1	<0.05	7	0.6
6295	Soil	10	30	0.51	368	0.072	2	1.96	0.013	0.07	0.1	0.04	3.6	<0.1	<0.05	6	<0.5
6296	Soil	5	11	0.08	256	0.053	2	0.54	0.015	0.04	<0.1	0.01	0.8	<0.1	0.05	5	<0.5
6297	Soil	3	8	0.08	107	0.030	2	0.43	0.019	0.03	<0.1	0.01	0.5	<0.1	<0.05	4	<0.5
6298	Soil	7	37	0.71	192	0.087	3	2.31	0.012	0.07	0.1	0.02	3.9	<0.1	<0.05	7	0.5
6299	Soil	14	22	0.63	287	0.095	1	1.43	0.014	0.12	0.1	0.02	3.6	0.1	<0.05	5	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
6300	Soil	1.3	26.9	9.8	75	0.3	15.7	9.7	977	2.25	3.6	1.2	2.4	0.7	37	0.8	0.3	0.2	39	0.44	0.083
6301	Soil	1.0	32.1	9.5	60	0.1	22.7	13.2	685	2.66	5.8	0.7	<0.5	1.5	32	0.6	0.3	0.1	53	0.33	0.044
6302	Soil	1.2	51.5	13.3	46	0.4	19.6	9.9	251	2.41	5.8	1.0	2.0	1.2	26	0.2	0.3	0.3	54	0.31	0.066
6303	Soil	0.8	20.0	12.9	47	0.1	19.8	10.0	282	2.81	8.6	0.5	<0.5	2.2	22	0.2	0.4	0.2	65	0.26	0.040
6304	Soil	1.3	22.0	13.4	58	0.2	16.8	9.5	443	3.28	8.8	0.7	3.9	1.7	28	0.2	0.4	0.2	67	0.27	0.044
6305	Soil	1.2	22.3	9.9	55	<0.1	17.3	10.7	449	3.47	8.7	0.6	1.2	2.5	17	0.1	0.5	0.2	76	0.18	0.029
6306	Soil	1.4	22.8	9.5	54	<0.1	16.4	7.4	246	2.90	7.7	0.7	3.3	1.4	19	0.2	0.4	0.2	59	0.22	0.052
6307	Soil	1.3	20.9	10.8	62	<0.1	22.6	9.6	337	3.46	10.1	0.6	1.9	2.1	18	0.2	0.6	0.2	69	0.21	0.035
6308	Soil	0.9	21.2	9.4	31	0.1	10.3	5.4	111	1.61	3.8	0.5	2.7	0.2	18	0.2	0.3	0.2	39	0.15	0.040
6309	Soil	1.5	31.9	14.0	41	0.1	12.5	8.1	407	2.61	7.4	0.5	0.8	0.1	16	0.3	0.4	0.3	67	0.14	0.050
6310	Soil	1.5	21.3	10.5	61	<0.1	18.6	10.2	353	3.41	9.7	0.7	1.2	2.0	17	0.1	0.5	0.2	79	0.16	0.045
6311	Soil	0.9	16.0	6.3	21	<0.1	5.0	2.2	96	0.94	2.2	0.3	<0.5	<0.1	13	0.2	0.2	0.2	29	0.09	0.029
6312	Soil	1.5	19.4	11.7	67	<0.1	14.0	11.9	573	3.95	11.0	0.4	0.9	1.7	14	0.2	0.5	0.2	87	0.15	0.041
6313	Soil	0.8	12.3	5.5	15	<0.1	4.5	2.2	74	1.07	2.3	0.3	1.2	<0.1	13	0.2	0.2	0.1	29	0.09	0.073
6314	Soil	1.4	14.4	11.4	39	<0.1	11.3	6.3	248	2.90	7.8	0.4	1.8	0.4	14	0.1	0.5	0.3	84	0.13	0.032
6315	Soil	1.3	43.3	11.3	52	0.1	19.5	16.6	969	3.21	7.5	0.9	0.6	0.7	17	0.3	0.5	0.2	72	0.15	0.068
6316	Soil	1.1	23.1	10.1	55	<0.1	20.0	11.4	381	3.06	9.4	0.6	1.4	2.6	16	0.1	0.5	0.2	75	0.17	0.035
6317	Soil	1.4	27.0	11.6	52	<0.1	14.5	7.6	258	2.95	8.3	0.6	0.8	0.9	16	0.1	0.5	0.2	81	0.16	0.042
6318	Soil	0.8	16.1	6.3	25	<0.1	7.5	3.5	123	1.45	3.4	0.3	<0.5	0.2	12	0.1	0.3	0.1	43	0.09	0.027
6319	Soil	1.0	20.5	8.1	43	<0.1	11.2	5.9	199	2.28	6.0	0.5	<0.5	0.3	13	0.1	0.4	0.2	61	0.13	0.035
6320	Soil	1.0	22.9	9.1	49	<0.1	14.5	6.4	192	2.65	6.8	0.6	2.0	0.3	16	<0.1	0.4	0.2	63	0.16	0.042
6321	Soil	0.8	27.9	8.5	65	<0.1	19.4	10.8	331	3.49	8.7	0.6	2.3	2.4	17	0.1	0.4	0.1	78	0.23	0.055
6322	Soil	1.2	25.5	9.9	53	<0.1	16.7	13.1	560	3.04	8.0	0.7	1.5	1.2	16	0.1	0.4	0.2	67	0.19	0.051
6323	Soil	1.0	27.1	10.0	57	0.1	16.6	10.3	337	2.74	7.6	0.9	3.3	0.7	19	0.3	0.4	0.2	66	0.22	0.056
6324	Soil	1.2	26.0	9.4	64	0.1	18.8	8.3	285	2.97	7.9	0.7	4.1	1.3	21	0.2	0.4	0.2	69	0.26	0.047
6325	Soil	1.6	21.8	12.4	49	0.1	14.0	6.6	232	2.62	7.3	0.7	2.9	0.3	18	0.2	0.5	0.2	66	0.17	0.048
6326	Soil	1.4	38.0	14.5	43	0.2	14.1	5.5	146	1.94	5.4	0.9	4.4	0.2	24	0.5	0.4	0.2	44	0.25	0.066
6327	Soil	1.0	34.2	9.3	84	<0.1	20.5	9.7	327	3.00	9.6	0.8	4.1	2.2	19	0.1	0.4	0.2	65	0.24	0.060
6328	Soil	0.7	27.0	9.5	47	0.1	12.3	7.5	160	2.27	4.6	0.6	6.0	0.7	19	0.1	0.2	0.1	54	0.29	0.081
6329	Soil	0.4	28.9	9.7	52	0.1	13.6	8.0	141	2.21	4.6	0.7	2.9	0.8	23	0.1	0.2	0.1	50	0.34	0.084



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6300	Soil	21	22	0.47	435	0.044	1	1.39	0.017	0.10	<0.1	0.05	3.3	<0.1	<0.05	5	0.8
6301	Soil	16	26	0.56	355	0.087	2	1.62	0.017	0.09	<0.1	0.03	3.1	<0.1	<0.05	6	0.7
6302	Soil	11	31	0.53	269	0.061	2	1.72	0.015	0.06	0.1	0.06	3.6	0.1	<0.05	6	<0.5
6303	Soil	9	34	0.59	235	0.074	2	1.70	0.012	0.05	0.2	0.02	2.8	<0.1	<0.05	6	<0.5
6304	Soil	16	29	0.55	377	0.081	2	1.74	0.013	0.12	0.2	0.03	3.2	0.1	<0.05	8	<0.5
6305	Soil	9	32	0.46	225	0.087	3	1.83	0.010	0.07	0.1	0.03	3.3	<0.1	<0.05	7	<0.5
6306	Soil	12	26	0.48	254	0.071	2	1.62	0.014	0.10	0.2	0.03	3.1	<0.1	<0.05	7	<0.5
6307	Soil	9	34	0.58	195	0.089	2	1.94	0.012	0.08	0.2	0.02	3.2	<0.1	<0.05	7	0.5
6308	Soil	7	21	0.27	161	0.048	<1	1.14	0.014	0.05	0.1	0.04	1.3	<0.1	<0.05	6	<0.5
6309	Soil	7	26	0.30	165	0.044	2	1.29	0.014	0.04	<0.1	0.03	1.1	<0.1	<0.05	8	<0.5
6310	Soil	9	35	0.56	203	0.088	2	2.14	0.010	0.06	0.1	0.04	3.2	<0.1	<0.05	8	0.5
6311	Soil	5	12	0.08	100	0.038	2	0.53	0.018	0.03	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5
6312	Soil	7	28	0.53	118	0.114	2	1.82	0.011	0.07	0.1	<0.01	3.0	0.1	<0.05	10	<0.5
6313	Soil	4	10	0.08	98	0.019	2	0.58	0.016	0.03	<0.1	0.02	0.3	<0.1	<0.05	3	<0.5
6314	Soil	8	25	0.29	145	0.066	2	1.41	0.009	0.03	0.1	0.02	1.8	0.1	<0.05	9	0.5
6315	Soil	11	33	0.39	238	0.064	3	1.82	0.013	0.05	0.1	0.03	3.1	0.1	<0.05	8	0.7
6316	Soil	9	35	0.54	168	0.090	2	2.04	0.012	0.05	0.1	0.03	3.4	0.1	<0.05	7	<0.5
6317	Soil	9	32	0.44	170	0.067	2	1.67	0.014	0.04	0.1	0.02	2.5	0.1	<0.05	8	0.7
6318	Soil	5	15	0.18	103	0.057	1	0.82	0.017	0.03	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5
6319	Soil	6	24	0.34	126	0.058	2	1.25	0.015	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5
6320	Soil	8	28	0.42	169	0.056	3	1.57	0.014	0.05	0.1	0.03	2.2	0.1	<0.05	6	<0.5
6321	Soil	10	31	0.65	188	0.095	2	2.24	0.013	0.10	0.2	0.04	4.7	0.1	<0.05	6	0.6
6322	Soil	9	30	0.52	177	0.085	2	1.79	0.013	0.08	0.1	0.03	3.0	<0.1	<0.05	6	<0.5
6323	Soil	11	27	0.52	238	0.068	3	1.60	0.012	0.08	0.1	0.04	2.9	0.1	<0.05	6	<0.5
6324	Soil	11	31	0.55	244	0.078	3	1.74	0.015	0.08	0.1	0.03	3.6	0.1	<0.05	7	<0.5
6325	Soil	8	27	0.36	195	0.055	3	1.38	0.015	0.07	<0.1	0.04	2.0	0.1	<0.05	6	<0.5
6326	Soil	10	25	0.32	263	0.045	3	1.17	0.030	0.06	0.1	0.06	1.4	<0.1	0.11	6	0.9
6327	Soil	12	33	0.61	201	0.094	2	1.86	0.015	0.08	0.1	0.03	3.8	0.1	<0.05	6	<0.5
6328	Soil	8	24	0.47	141	0.067	3	1.22	0.024	0.06	0.1	0.05	2.8	<0.1	0.07	5	0.7
6329	Soil	9	29	0.53	163	0.074	2	1.35	0.020	0.06	<0.1	0.05	3.2	0.1	0.06	5	0.9



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
6330	Soil	0.5	25.2	8.2	51	0.1	12.9	6.7	130	2.04	3.7	0.6	2.8	0.9	20	<0.1	0.2	0.1	46	0.31
6331	Soil	0.7	29.6	9.0	43	0.2	11.3	5.2	106	2.00	4.0	0.7	4.2	0.4	20	0.1	0.2	0.1	41	0.28
6332	Soil	0.8	32.6	10.6	39	0.2	11.6	6.4	101	1.97	2.6	0.8	3.4	0.2	17	0.2	0.2	0.2	38	0.26
6333	Soil	0.8	27.9	8.5	43	0.1	10.7	7.3	129	2.16	3.5	0.7	6.2	0.4	19	<0.1	0.2	0.1	57	0.33
6334	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6335	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6336	Soil	1.2	18.6	9.1	54	<0.1	13.6	9.1	312	2.59	4.0	0.7	4.0	2.0	18	0.1	0.2	0.2	70	0.28
6337	Soil	2.9	31.0	23.0	89	0.1	21.3	13.6	455	3.31	3.5	0.7	8.8	2.0	22	0.2	0.3	0.2	92	0.39
6338	Soil	1.1	29.1	10.7	82	0.1	20.7	18.4	925	3.23	4.7	1.1	3.2	2.0	24	0.3	0.3	0.1	90	0.42
6339	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6340	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6341	Soil	0.8	26.9	9.5	69	0.1	15.8	11.9	483	2.48	3.8	0.7	1.8	2.1	22	0.2	0.2	0.1	67	0.36
6342	Soil	1.2	28.5	10.6	68	0.1	13.4	8.0	494	2.04	2.7	0.5	2.1	0.4	18	0.5	0.3	0.1	60	0.26
6343	Soil	0.9	26.3	8.3	32	0.2	9.0	4.4	164	1.46	2.2	1.0	1.8	0.2	19	0.3	0.2	0.1	33	0.25
6344	Soil	0.9	26.7	7.8	54	<0.1	12.3	9.6	270	2.51	2.5	0.6	2.6	1.5	17	<0.1	0.3	0.2	68	0.25
6345	Soil	0.9	19.5	7.0	35	0.1	7.8	3.5	110	1.81	1.8	0.5	1.1	0.7	20	0.2	0.2	0.1	40	0.25
6346	Soil	1.1	75.2	9.6	41	0.1	9.5	9.4	146	2.94	2.4	0.6	3.4	1.0	21	<0.1	0.6	0.1	79	0.24
6347	Soil	1.1	40.6	26.1	70	0.1	13.7	20.7	212	3.48	3.6	0.6	1.6	0.7	41	0.2	0.3	0.2	101	0.99
6348	Soil	0.9	36.4	15.7	58	0.1	14.7	10.0	195	2.93	4.6	0.7	4.1	0.7	19	0.2	0.2	0.2	83	0.31
6349	Soil	0.8	33.0	10.7	45	0.2	13.0	6.5	120	2.11	4.3	0.7	5.3	0.3	18	0.1	0.2	0.1	47	0.25
6350	Soil	0.7	27.9	9.0	37	0.2	9.8	4.9	99	1.92	4.2	0.6	2.6	0.5	17	<0.1	0.2	0.1	42	0.24



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Project: Ballarat
Report Date: August 14, 2009

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CERTIFICATE OF ANALYSIS

VAN09003416.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
6330	Soil	9	29	0.52	178	0.080	1	1.26	0.020	0.06	0.1	0.05	3.0	<0.1	0.06	5
6331	Soil	8	30	0.42	155	0.061	2	1.09	0.020	0.06	<0.1	0.07	2.3	0.1	0.08	5
6332	Soil	8	34	0.40	139	0.037	2	1.06	0.021	0.05	<0.1	0.07	1.4	<0.1	0.13	4
6333	Soil	8	23	0.46	136	0.060	<1	1.17	0.019	0.05	0.2	0.04	2.0	<0.1	<0.05	5
6334	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6335	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6336	Soil	10	26	0.58	195	0.086	<1	1.33	0.014	0.06	0.2	0.05	3.4	<0.1	<0.05	5
6337	Soil	11	41	1.12	296	0.112	1	1.85	0.019	0.23	<0.1	0.06	5.9	0.2	<0.05	7
6338	Soil	14	34	1.01	418	0.107	2	1.80	0.020	0.12	0.1	0.04	5.8	0.1	<0.05	7
6339	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6340	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
6341	Soil	11	28	0.63	220	0.098	1	1.32	0.021	0.13	0.2	0.05	3.6	<0.1	<0.05	4
6342	Soil	6	22	0.42	336	0.065	2	0.92	0.019	0.15	<0.1	0.09	2.4	<0.1	<0.05	5
6343	Soil	7	20	0.26	176	0.029	2	0.76	0.024	0.06	<0.1	0.10	1.5	<0.1	0.13	3
6344	Soil	7	24	0.70	235	0.104	2	1.48	0.015	0.17	0.1	0.03	3.1	<0.1	<0.05	5
6345	Soil	7	16	0.38	190	0.059	1	0.93	0.020	0.08	0.1	0.06	2.3	<0.1	0.09	4
6346	Soil	7	18	0.53	164	0.087	2	1.19	0.024	0.11	<0.1	0.08	3.4	<0.1	0.10	5
6347	Soil	7	25	0.79	159	0.076	2	1.59	0.029	0.12	0.1	0.05	4.3	0.1	<0.05	7
6348	Soil	9	34	0.63	144	0.080	1	1.53	0.019	0.07	0.1	0.06	3.0	<0.1	<0.05	6
6349	Soil	8	36	0.47	146	0.055	1	1.23	0.018	0.06	<0.1	0.06	2.1	0.1	<0.05	6
6350	Soil	8	26	0.35	125	0.053	1	1.02	0.018	0.05	0.1	0.05	2.1	<0.1	0.07	4



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Report Date: August 14, 2009

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QUALITY CONTROL REPORT

VAN09003416.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
6000	Soil	0.9	48.0	14.0	167	0.1	23.3	30.8	1675	5.28	2.1	0.9	1.6	1.9	50	0.2	0.1	0.1	120	0.96	0.181
REP 6000	QC	1.0	48.1	13.7	162	0.1	24.8	28.2	1645	5.19	1.7	0.8	2.0	1.9	50	0.3	<0.1	0.1	117	0.93	0.184
6017	Soil	0.9	17.1	8.3	41	<0.1	19.3	8.3	223	2.69	8.0	0.5	18.8	1.2	14	<0.1	0.3	0.2	71	0.16	0.038
REP 6017	QC	1.0	16.0	8.1	43	<0.1	19.4	8.2	227	2.85	8.1	0.5	1.1	1.3	14	<0.1	0.4	0.2	72	0.16	0.038
6052	Soil	0.7	26.5	7.0	36	<0.1	17.8	8.4	213	2.58	6.6	0.3	2.2	1.5	20	<0.1	0.3	0.1	75	0.30	0.026
REP 6052	QC	0.7	26.7	6.4	37	<0.1	17.4	8.2	214	2.56	6.7	0.3	3.1	1.5	20	<0.1	0.3	0.1	73	0.28	0.028
6076	Soil	0.8	23.4	7.3	35	0.1	14.4	5.6	147	1.80	3.5	0.4	1.7	0.9	16	0.1	0.3	0.1	55	0.32	0.038
REP 6076	QC	0.9	23.7	7.7	35	0.1	13.8	5.6	151	1.84	3.6	0.5	1.7	0.9	17	0.2	0.3	<0.1	57	0.33	0.039
6095	Soil	0.6	32.2	6.5	76	<0.1	23.2	15.1	541	3.37	4.6	0.7	1.5	2.1	23	0.2	0.2	0.1	81	0.29	0.083
REP 6095	QC	0.7	32.0	6.5	76	<0.1	25.0	15.1	551	3.55	4.9	0.7	1.4	2.2	23	0.1	0.3	0.1	84	0.29	0.083
6098	Soil	0.9	31.7	10.1	73	<0.1	17.8	17.2	493	3.91	6.6	0.5	<0.5	2.0	24	0.2	0.4	0.1	108	0.24	0.043
REP 6098	QC	1.0	34.6	10.0	73	<0.1	18.5	17.1	499	4.05	7.0	0.5	0.9	2.0	25	0.1	0.4	0.1	109	0.24	0.045
6118	Soil	1.2	33.7	7.6	80	0.1	14.4	12.3	420	3.60	6.9	0.6	<0.5	2.0	29	0.2	0.6	0.2	99	0.65	0.067
REP 6118	QC	1.2	35.4	8.0	83	0.1	15.3	12.3	424	3.59	6.9	0.7	2.2	2.0	30	0.2	0.6	0.1	99	0.63	0.062
6147	Soil	0.5	13.9	5.8	23	0.1	6.6	3.1	80	0.83	0.8	0.4	3.1	0.3	12	0.1	0.2	<0.1	20	0.13	0.037
REP 6147	QC	0.4	12.7	5.3	22	<0.1	6.0	2.9	81	0.83	0.7	0.4	2.2	0.3	11	0.1	0.2	<0.1	20	0.12	0.034
6158	Soil	1.0	18.5	6.5	75	0.1	18.0	8.1	493	2.71	4.6	0.4	1.4	1.5	21	<0.1	0.2	0.1	90	0.37	0.058
REP 6158	QC	1.0	19.5	6.4	76	0.1	18.6	8.2	498	2.73	4.7	0.4	0.8	1.6	21	<0.1	0.2	0.1	90	0.37	0.059
6186	Soil	1.3	27.2	44.7	68	0.3	19.5	11.1	818	2.68	6.4	1.1	2.7	1.6	23	0.2	0.3	0.1	69	0.42	0.075
REP 6186	QC	1.3	28.3	44.3	69	0.3	19.7	11.4	805	2.70	6.5	1.1	2.8	1.6	23	0.2	0.2	0.1	68	0.43	0.075
6198	Soil	0.8	25.2	7.1	68	0.1	12.7	10.7	599	2.47	4.4	0.8	2.8	1.2	46	0.4	0.5	<0.1	50	1.38	0.053
REP 6198	QC	0.8	24.3	5.8	65	0.1	13.3	10.7	606	2.46	5.2	0.9	<0.5	1.3	45	0.3	0.5	<0.1	51	1.41	0.055
6210	Soil	0.7	16.0	5.8	29	0.2	7.7	5.0	135	2.09	3.3	0.3	1.8	1.1	16	0.2	0.2	0.1	64	0.24	0.017
REP 6210	QC	0.8	16.4	6.1	28	0.2	7.9	4.8	136	2.10	3.4	0.3	8.7	1.0	16	0.1	0.3	0.1	64	0.22	0.017
6236	Soil	2.8	34.5	14.7	100	0.1	22.7	16.1	934	3.81	26.1	1.7	12.3	3.3	30	0.4	0.5	0.2	81	0.45	0.082
REP 6236	QC	3.0	35.8	15.4	104	0.2	24.3	15.6	948	3.85	27.6	1.8	3.1	3.3	32	0.4	0.6	0.2	84	0.46	0.083
6256	Soil	0.8	29.9	8.7	94	<0.1	10.0	11.7	483	3.60	4.3	0.6	1.8	1.7	21	0.3	0.4	0.1	62	0.31	0.042
REP 6256	QC	0.9	29.6	8.9	97	<0.1	10.2	12.3	494	3.56	4.5	0.6	0.6	1.7	21	0.3	0.3	0.1	62	0.31	0.043



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Project: Ballarat

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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
6000	Soil	13	42	2.47	645	0.253	<1	3.29	0.011	0.86	<0.1	0.02	4.0	0.3	<0.05	9	<0.5
REP 6000	QC	13	41	2.52	658	0.246	<1	3.30	0.011	0.85	0.1	0.02	4.2	0.3	0.07	9	<0.5
6017	Soil	7	32	0.51	133	0.073	<1	1.78	0.009	0.05	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
REP 6017	QC	8	32	0.52	139	0.078	<1	1.80	0.009	0.05	0.1	<0.01	2.8	<0.1	<0.05	6	<0.5
6052	Soil	7	29	0.50	172	0.061	<1	1.74	0.010	0.04	0.2	0.02	3.6	<0.1	<0.05	5	<0.5
REP 6052	QC	7	28	0.49	173	0.058	<1	1.68	0.009	0.04	0.1	0.01	3.4	<0.1	<0.05	6	<0.5
6076	Soil	9	29	0.32	193	0.053	<1	0.97	0.011	0.05	0.1	0.05	3.1	0.1	<0.05	5	<0.5
REP 6076	QC	9	31	0.33	202	0.055	<1	1.01	0.016	0.05	0.1	0.06	2.8	0.1	<0.05	5	<0.5
6095	Soil	14	42	1.02	291	0.179	<1	2.07	0.014	0.54	0.1	0.02	3.1	0.3	<0.05	7	<0.5
REP 6095	QC	14	44	1.02	299	0.185	<1	2.09	0.018	0.56	0.1	0.01	3.1	0.3	<0.05	7	<0.5
6098	Soil	8	32	1.15	235	0.184	<1	2.60	0.012	0.16	0.1	<0.01	2.7	0.1	<0.05	7	<0.5
REP 6098	QC	8	33	1.20	233	0.192	<1	2.67	0.012	0.16	0.1	<0.01	2.7	0.2	<0.05	8	<0.5
6118	Soil	10	27	0.96	407	0.140	3	1.70	0.017	0.25	0.1	0.03	5.5	0.1	<0.05	7	<0.5
REP 6118	QC	10	27	0.98	404	0.140	2	1.79	0.019	0.24	0.1	0.02	5.4	0.1	<0.05	7	<0.5
6147	Soil	6	16	0.20	107	0.043	3	0.61	0.022	0.04	<0.1	0.04	1.9	<0.1	<0.05	4	<0.5
REP 6147	QC	6	15	0.19	104	0.041	2	0.59	0.021	0.04	<0.1	0.04	1.8	<0.1	<0.05	4	<0.5
6158	Soil	6	49	0.89	274	0.120	2	1.69	0.009	0.15	<0.1	0.02	3.4	0.2	<0.05	8	<0.5
REP 6158	QC	6	49	0.91	276	0.122	1	1.72	0.010	0.15	<0.1	0.01	3.4	0.2	<0.05	7	<0.5
6186	Soil	11	37	0.73	414	0.082	1	1.59	0.011	0.10	0.1	0.07	4.3	0.1	<0.05	5	0.5
REP 6186	QC	11	37	0.73	411	0.080	1	1.63	0.011	0.10	<0.1	0.07	4.4	0.1	<0.05	5	<0.5
6198	Soil	9	19	0.59	560	0.067	3	1.26	0.025	0.15	<0.1	0.04	5.0	<0.1	0.08	4	0.6
REP 6198	QC	10	20	0.65	570	0.078	4	1.25	0.023	0.17	<0.1	0.05	5.6	<0.1	0.09	4	0.8
6210	Soil	6	17	0.38	212	0.072	3	1.14	0.022	0.06	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5
REP 6210	QC	6	17	0.38	216	0.067	2	1.12	0.021	0.06	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5
6236	Soil	14	35	0.81	400	0.086	1	1.84	0.015	0.13	0.1	0.05	5.0	0.1	<0.05	6	0.5
REP 6236	QC	14	35	0.86	411	0.094	2	1.97	0.016	0.14	0.1	0.06	5.4	0.1	<0.05	6	0.7
6256	Soil	10	18	0.57	292	0.046	<1	1.61	0.014	0.25	<0.1	0.03	5.5	0.1	<0.05	6	<0.5
REP 6256	QC	10	18	0.57	304	0.046	<1	1.60	0.014	0.25	<0.1	0.02	5.3	0.1	<0.05	6	<0.5



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Val d'Or QC J9P 1S5 Canada

Project: Ballarat

Report Date: August 14, 2009

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QUALITY CONTROL REPORT

VAN09003416.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
6267	Soil	0.7	14.6	6.4	39	<0.1	10.6	4.6	115	1.81	4.3	0.4	3.5	1.3	16	<0.1	0.2	0.1	40	0.21	0.026
REP 6267	QC	0.8	15.6	6.5	37	0.1	10.0	4.6	120	1.87	4.3	0.4	1.6	1.4	17	<0.1	0.2	0.1	41	0.21	0.027
6290	Soil	0.7	16.4	5.2	48	<0.1	11.1	8.2	428	1.67	2.6	0.6	1.1	2.0	27	0.2	0.3	0.1	40	0.35	0.045
REP 6290	QC	0.6	17.0	5.5	48	<0.1	12.1	9.6	439	1.75	1.8	0.7	0.7	2.0	27	0.3	0.3	0.2	41	0.38	0.046
6300	Soil	1.3	26.9	9.8	75	0.3	15.7	9.7	977	2.25	3.6	1.2	2.4	0.7	37	0.8	0.3	0.2	39	0.44	0.083
REP 6300	QC	1.3	28.5	9.6	76	0.3	16.3	10.1	1023	2.22	4.1	1.2	1.9	0.8	36	0.8	0.3	0.2	40	0.46	0.084
6326	Soil	1.4	38.0	14.5	43	0.2	14.1	5.5	146	1.94	5.4	0.9	4.4	0.2	24	0.5	0.4	0.2	44	0.25	0.066
REP 6326	QC	1.1	38.3	14.4	42	0.2	13.8	5.6	147	1.94	5.9	1.0	1.6	0.1	23	0.4	0.3	0.2	42	0.24	0.069
6342	Soil	1.2	28.5	10.6	68	0.1	13.4	8.0	494	2.04	2.7	0.5	2.1	0.4	18	0.5	0.3	0.1	60	0.26	0.077
REP 6342	QC	1.3	34.1	83.3	88	0.2	16.3	9.0	511	2.29	4.9	0.5	<0.5	0.5	20	0.6	0.5	0.2	63	0.32	0.081
Reference Materials																					
STD DS7	Standard	20.7	113.0	70.9	402	0.8	53.8	10.1	620	2.46	51.0	5.0	61.1	4.0	69	5.9	5.7	4.6	87	0.94	0.074
STD DS7	Standard	21.1	115.4	76.5	398	0.8	56.9	10.4	637	2.43	52.1	5.4	72.6	4.9	74	6.4	6.0	5.2	91	0.93	0.079
STD DS7	Standard	20.8	113.1	61.4	403	0.8	60.6	9.9	626	2.44	48.3	4.3	79.4	3.6	63	6.0	4.7	4.0	93	0.94	0.076
STD DS7	Standard	23.2	129.5	79.7	429	0.9	64.1	11.2	699	2.61	55.4	5.9	61.8	5.2	85	6.9	6.8	5.4	95	1.06	0.084
STD DS7	Standard	22.8	122.5	81.4	436	0.9	62.0	10.8	690	2.71	57.3	5.7	67.1	5.0	83	7.2	6.7	5.4	93	1.03	0.086
STD DS7	Standard	21.5	110.5	61.2	384	0.8	59.0	9.5	606	2.34	45.6	4.3	57.5	3.8	64	6.1	4.6	3.9	89	0.97	0.070
STD DS7	Standard	23.4	126.8	79.7	441	0.9	63.0	10.3	660	2.59	56.0	5.7	67.2	5.2	84	6.4	6.9	5.5	90	0.98	0.080
STD DS7	Standard	20.3	110.5	65.4	414	0.9	57.5	9.7	632	2.44	52.6	4.7	64.3	4.2	78	6.4	6.0	4.4	83	0.91	0.079
STD DS7	Standard	20.1	108.8	65.4	394	0.8	54.9	8.9	620	2.36	51.7	4.8	70.3	4.4	78	6.5	6.1	4.4	81	0.93	0.074
STD DS7	Standard	20.4	101.1	66.0	388	0.8	53.4	8.6	601	2.41	47.9	4.7	72.6	4.1	75	5.6	5.8	4.6	80	0.92	0.076
STD DS7	Standard	21.1	121.5	80.8	410	0.8	61.6	10.6	634	2.52	48.5	5.4	71.0	4.8	72	5.8	5.9	5.2	90	0.95	0.077
STD DS7	Standard	22.0	120.6	76.4	403	0.8	60.5	10.3	646	2.53	49.7	5.8	73.5	5.2	87	6.5	6.5	5.4	87	1.03	0.078
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Ballarat
Report Date: August 14, 2009

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

VAN09003416.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6267	Soil	7	19	0.40	124	0.071	<1	1.21	0.014	0.06	0.2	0.03	2.9	<0.1	<0.05	5	0.6
REP 6267	QC	7	20	0.42	126	0.074	2	1.26	0.014	0.06	0.1	0.03	3.0	<0.1	<0.05	5	<0.5
6290	Soil	12	19	0.49	253	0.085	1	1.19	0.019	0.10	0.2	0.03	4.5	<0.1	<0.05	5	0.5
REP 6290	QC	12	20	0.52	261	0.089	<1	1.20	0.020	0.10	0.2	0.02	4.7	<0.1	<0.05	5	0.9
6300	Soil	21	22	0.47	435	0.044	1	1.39	0.017	0.10	<0.1	0.05	3.3	<0.1	<0.05	5	0.8
REP 6300	QC	21	23	0.49	433	0.044	2	1.42	0.019	0.11	<0.1	0.05	3.5	<0.1	<0.05	5	0.6
6326	Soil	10	25	0.32	263	0.045	3	1.17	0.030	0.06	0.1	0.06	1.4	<0.1	0.11	6	0.9
REP 6326	QC	11	25	0.34	266	0.044	4	1.18	0.018	0.07	<0.1	0.06	1.5	0.1	0.08	5	<0.5
6342	Soil	6	22	0.42	336	0.065	2	0.92	0.019	0.15	<0.1	0.09	2.4	<0.1	<0.05	5	<0.5
REP 6342	QC	6	23	0.43	329	0.078	1	0.97	0.024	0.15	0.3	0.08	2.5	0.1	0.09	5	<0.5
Reference Materials																	
STD DS7	Standard	12	205	1.03	395	0.113	39	1.00	0.096	0.44	4.1	0.21	2.5	4.5	0.21	4	3.4
STD DS7	Standard	13	211	1.00	385	0.128	41	1.00	0.095	0.44	3.8	0.19	2.5	4.1	0.18	4	3.2
STD DS7	Standard	12	212	1.03	374	0.115	37	1.00	0.089	0.43	3.6	0.19	2.5	4.2	0.22	5	3.3
STD DS7	Standard	15	224	1.11	437	0.141	43	1.16	0.104	0.47	4.0	0.22	2.8	4.6	0.20	5	3.9
STD DS7	Standard	14	222	1.14	437	0.133	41	1.10	0.107	0.50	4.2	0.20	2.6	4.5	0.21	5	3.9
STD DS7	Standard	13	215	0.99	371	0.115	36	1.00	0.091	0.44	3.7	0.18	2.7	4.1	0.18	4	3.1
STD DS7	Standard	14	218	1.04	438	0.131	42	1.05	0.104	0.45	4.4	0.21	2.5	4.5	0.17	5	4.0
STD DS7	Standard	13	211	1.03	414	0.126	40	1.07	0.097	0.45	4.0	0.20	2.7	4.3	0.21	5	3.9
STD DS7	Standard	12	210	1.02	403	0.124	41	1.01	0.097	0.45	3.6	0.18	2.6	4.4	0.21	5	3.8
STD DS7	Standard	13	198	1.01	389	0.114	39	1.02	0.098	0.43	3.9	0.21	2.5	4.1	0.19	5	2.6
STD DS7	Standard	13	213	1.07	386	0.129	40	1.04	0.095	0.44	4.0	0.19	2.5	4.5	0.20	5	3.0
STD DS7	Standard	15	216	1.02	401	0.140	40	1.03	0.103	0.46	4.0	0.19	2.9	4.3	0.24	5	3.0
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Project: Ballarat

Report Date: August 14, 2009

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QUALITY CONTROL REPORT

VAN09003416.1

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



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Project: Ballarat

Report Date: August 14, 2009

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QUALITY CONTROL REPORT

VAN09003416.1

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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 12, 2009
Page: 1 of 14

CERTIFICATE OF ANALYSIS

VAN09003420.1

CLIENT JOB INFORMATION

Project: Ballarat
Shipment ID: 20090731
P.O. Number
Number of Samples: 378

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Hinterland Metals Inc.
203 - 680 Third Ave.
Val d'Or QC J9P 1S5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	360	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	360	Dry at 60C			VAN
1DX15	360	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Ballarat
Report Date: August 12, 2009

Page: 2 of 14 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
6351	Soil	0.5	23.2	6.9	38	0.1	10.4	4.7	82	1.89	3.8	0.5	3.5	0.5	14	<0.1	0.1	0.2	36	0.22
6352	Soil	0.3	27.0	7.5	43	0.1	12.4	7.0	95	1.97	4.0	0.5	3.3	0.6	14	0.1	0.2	0.1	42	0.23
6353	Soil	0.4	19.7	7.6	41	<0.1	11.4	5.3	97	1.73	3.9	0.4	18.7	0.5	12	0.1	0.1	0.1	41	0.21
6354	Soil	0.5	22.7	7.0	40	0.1	10.0	5.1	92	1.88	4.1	0.4	3.4	0.4	11	0.2	0.2	0.1	43	0.17
6355	Soil	1.0	34.8	9.2	77	<0.1	16.7	17.2	456	2.98	4.7	0.5	7.4	1.2	12	0.1	0.3	0.1	76	0.21
6356	Soil	0.5	21.0	6.4	36	0.1	8.4	3.8	78	1.64	3.2	0.5	3.4	0.5	12	<0.1	0.1	0.1	33	0.18
6357	Soil	0.7	23.1	6.5	32	0.1	8.5	4.5	80	1.69	3.1	0.5	11.4	0.7	11	0.1	0.2	0.1	37	0.16
6358	Soil	0.8	28.7	8.8	49	0.1	12.7	7.1	123	2.08	4.1	0.7	4.3	0.5	14	0.1	0.2	0.1	50	0.22
6359	Soil	1.1	37.0	10.3	64	0.1	17.7	12.5	353	3.06	5.3	0.6	2.9	1.4	13	0.2	0.2	0.1	74	0.20
6360	Soil	1.1	29.0	14.4	52	0.2	11.8	6.5	140	2.24	4.9	0.5	11.7	0.8	12	0.2	0.2	0.1	58	0.15
6361	Soil	1.7	42.0	9.7	71	0.3	15.9	13.2	303	2.70	5.4	0.7	8.5	0.9	17	0.1	0.3	0.1	69	0.23
6362	Soil	0.8	43.4	5.6	32	<0.1	6.6	4.1	93	2.54	2.3	0.4	6.5	0.6	14	<0.1	0.2	<0.1	62	0.19
6363	Soil	3.5	34.0	23.7	56	0.2	8.8	5.8	148	2.66	3.1	0.5	8.7	0.6	24	0.1	0.2	0.3	54	0.18
6364	Soil	3.4	42.3	30.8	64	0.6	9.5	11.2	644	3.23	3.8	0.9	11.7	0.7	33	0.2	0.3	0.2	68	0.19
6365	Soil	3.2	22.2	15.4	81	0.1	15.1	22.1	1034	3.35	7.0	0.4	32.4	1.8	12	0.2	0.3	0.2	75	0.18
6366	Soil	1.4	19.4	8.6	80	<0.1	16.1	14.1	558	3.40	7.5	0.4	4.5	1.7	15	0.1	0.3	0.1	89	0.33
6367	Soil	1.3	43.2	6.5	62	0.2	6.8	6.4	223	2.62	2.0	0.5	3.5	0.6	20	0.2	0.2	0.1	77	0.17
7000	Soil	1.6	13.3	9.1	32	<0.1	12.9	4.5	121	1.79	7.2	0.4	2.3	2.2	12	0.1	0.3	0.2	71	0.15
7001	Soil	1.1	30.9	9.1	71	<0.1	35.4	15.5	389	3.59	7.2	0.9	8.8	8.3	11	0.1	0.4	0.1	56	0.20
7002	Soil	1.6	26.7	9.7	55	<0.1	27.6	16.2	456	3.02	6.2	0.8	7.8	6.1	14	0.2	0.3	0.1	58	0.19
7003	Soil	1.9	33.1	12.9	60	<0.1	61.6	13.6	333	3.13	10.5	0.8	45.4	6.3	17	0.2	0.9	0.1	58	0.22
7004	Soil	1.1	34.2	10.8	50	0.2	31.6	10.6	240	2.92	5.5	1.1	19.2	6.1	16	0.2	0.3	0.1	59	0.21
7005	Soil	2.0	30.4	9.0	44	0.1	30.0	10.7	261	2.86	5.4	0.7	7.9	3.8	13	0.1	0.3	0.1	68	0.19
7006	Soil	0.9	31.2	6.7	46	0.1	20.2	9.0	230	2.72	4.8	0.6	2.2	2.3	14	<0.1	0.3	0.1	69	0.18
7007	Soil	0.7	23.7	5.5	48	<0.1	21.2	11.6	368	2.67	6.0	0.4	5.3	2.2	20	0.1	0.2	0.1	66	0.30
7008	Soil	0.8	14.1	6.1	37	<0.1	12.9	6.8	216	2.34	5.2	0.3	1.7	1.2	11	0.1	0.2	0.1	69	0.15
7009	Soil	0.6	36.2	4.7	62	<0.1	24.3	15.6	422	3.20	4.3	0.4	1.8	2.1	24	<0.1	0.2	<0.1	71	0.41
7010	Soil	1.6	33.8	8.6	75	0.1	34.5	18.1	860	3.00	10.1	1.2	5.2	2.8	21	0.3	1.4	0.1	68	0.31
7011	Soil	0.9	23.9	4.4	31	<0.1	6.9	4.8	123	1.63	2.4	0.3	1.2	0.7	8	<0.1	0.2	<0.1	52	0.09
7012	Soil	1.6	15.6	8.0	43	<0.1	13.0	7.4	227	3.22	6.8	0.3	3.5	1.3	10	0.1	0.4	0.2	96	0.12



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
6351	Soil	7	24	0.30	153	0.046	1	1.05	0.014	0.04	0.1	0.05	2.1	<0.1	0.07	5	<0.5
6352	Soil	7	25	0.34	141	0.050	1	1.19	0.015	0.04	<0.1	0.04	2.4	<0.1	<0.05	5	0.5
6353	Soil	6	23	0.35	104	0.052	1	1.11	0.012	0.05	<0.1	0.03	2.2	0.1	<0.05	5	<0.5
6354	Soil	6	27	0.34	113	0.043	2	1.05	0.012	0.05	<0.1	0.04	1.8	<0.1	<0.05	5	<0.5
6355	Soil	7	35	0.72	177	0.086	<1	1.52	0.012	0.18	0.1	0.04	4.1	0.1	<0.05	6	0.6
6356	Soil	6	22	0.28	110	0.048	<1	0.93	0.013	0.04	<0.1	0.04	1.9	<0.1	0.05	4	<0.5
6357	Soil	7	22	0.27	107	0.046	<1	1.00	0.012	0.04	<0.1	0.05	2.1	0.1	<0.05	4	0.6
6358	Soil	10	30	0.51	195	0.056	<1	1.35	0.013	0.06	<0.1	0.07	2.6	<0.1	<0.05	5	<0.5
6359	Soil	8	37	0.71	153	0.073	1	1.61	0.012	0.11	<0.1	0.04	3.5	0.1	<0.05	6	<0.5
6360	Soil	8	25	0.32	159	0.053	<1	1.28	0.012	0.06	0.1	0.08	2.5	0.1	<0.05	5	0.6
6361	Soil	11	33	0.66	256	0.066	<1	1.57	0.018	0.11	0.1	0.07	3.4	0.1	<0.05	6	0.8
6362	Soil	5	15	0.33	141	0.065	<1	0.94	0.017	0.07	<0.1	0.04	2.9	<0.1	0.06	4	1.4
6363	Soil	8	18	0.45	217	0.020	2	1.20	0.014	0.07	<0.1	0.10	3.1	0.1	0.08	5	2.0
6364	Soil	8	22	0.42	333	0.044	1	1.13	0.031	0.16	0.1	0.11	4.8	<0.1	0.22	5	3.5
6365	Soil	9	25	0.50	132	0.090	1	1.14	0.011	0.11	0.1	0.04	3.3	<0.1	<0.05	5	<0.5
6366	Soil	7	27	0.85	183	0.109	2	1.59	0.014	0.14	0.2	0.02	4.2	0.1	<0.05	6	<0.5
6367	Soil	5	15	0.51	210	0.057	<1	1.15	0.064	0.26	<0.1	0.02	4.4	0.1	0.34	4	1.8
7000	Soil	10	24	0.26	97	0.092	<1	1.22	0.006	0.06	<0.1	0.01	2.2	0.1	<0.05	8	<0.5
7001	Soil	21	42	0.72	231	0.117	1	1.89	0.007	0.24	<0.1	0.02	3.2	0.3	<0.05	6	<0.5
7002	Soil	35	37	0.55	246	0.077	<1	1.62	0.011	0.11	0.1	0.02	3.0	0.1	<0.05	5	<0.5
7003	Soil	25	44	0.55	364	0.077	2	1.42	0.008	0.12	0.1	0.03	3.4	0.1	<0.05	5	<0.5
7004	Soil	47	47	0.57	337	0.071	1	1.64	0.010	0.12	0.1	0.02	3.7	0.2	<0.05	6	<0.5
7005	Soil	24	58	0.65	279	0.076	1	1.70	0.009	0.13	0.1	0.03	3.8	0.1	<0.05	7	<0.5
7006	Soil	15	33	0.54	204	0.091	<1	1.54	0.009	0.09	0.1	0.02	3.2	0.1	<0.05	6	<0.5
7007	Soil	9	35	0.72	245	0.098	2	1.63	0.011	0.10	0.1	0.02	3.2	<0.1	<0.05	5	<0.5
7008	Soil	6	23	0.36	137	0.089	1	1.26	0.010	0.08	0.1	0.01	2.0	<0.1	<0.05	6	<0.5
7009	Soil	8	46	1.16	295	0.152	1	1.77	0.013	0.32	0.1	0.02	2.8	0.2	<0.05	5	<0.5
7010	Soil	19	54	0.78	386	0.082	2	1.68	0.010	0.12	0.1	0.06	3.9	0.2	<0.05	6	<0.5
7011	Soil	5	17	0.24	118	0.078	<1	0.77	0.011	0.10	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5
7012	Soil	6	32	0.32	110	0.110	<1	1.31	0.008	0.06	0.1	<0.01	2.5	<0.1	<0.05	8	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7013	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7014	Soil	2.9	17.1	12.1	42	0.1	10.9	5.3	152	2.70	4.1	0.3	8.5	1.5	13	<0.1	0.4	0.2	85	0.16	0.018
7015	Soil	1.6	43.8	8.7	74	0.1	7.6	4.6	277	2.04	1.9	0.4	15.7	0.7	11	0.1	<0.1	0.2	49	0.12	0.031
7016	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7017	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7018	Soil	1.1	105.9	6.0	54	0.1	18.5	20.3	323	3.59	4.8	0.4	2.7	1.3	19	<0.1	0.2	<0.1	100	0.42	0.078
7019	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7020	Soil	1.1	84.7	6.0	108	0.1	14.5	16.9	420	3.47	3.2	0.3	3.8	1.1	22	0.1	0.1	<0.1	88	0.32	0.063
7021	Soil	1.0	97.0	5.1	89	0.4	16.3	20.1	485	3.64	2.7	0.7	5.4	0.8	33	0.2	0.1	<0.1	108	0.67	0.076
7022	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7023	Soil	0.7	140.7	5.0	86	0.1	16.6	23.4	257	3.13	4.0	0.3	5.4	0.9	13	0.2	0.2	<0.1	93	0.28	0.073
7024	Soil	1.0	124.9	4.5	77	<0.1	19.9	36.9	718	3.60	4.0	1.3	5.6	1.9	45	0.3	0.3	<0.1	80	0.74	0.190
7025	Soil	0.8	92.4	5.5	62	0.1	19.7	29.7	522	3.11	4.0	1.6	4.5	1.7	47	0.2	0.2	<0.1	79	0.68	0.167
7026	Soil	0.9	34.2	5.0	61	<0.1	16.9	14.9	730	2.57	4.1	1.2	27.7	2.1	32	0.2	0.3	<0.1	53	0.52	0.122
7027	Soil	1.1	40.7	7.3	72	<0.1	22.9	18.4	707	2.91	5.6	1.5	10.5	2.8	35	0.4	0.4	<0.1	64	0.54	0.102
7028	Soil	1.0	35.9	6.8	62	<0.1	19.8	19.7	802	2.82	4.4	1.7	3.2	2.1	42	0.3	0.3	<0.1	62	0.62	0.118
7029	Soil	1.0	37.5	7.6	73	<0.1	21.5	17.0	408	2.94	5.0	1.9	2.6	2.2	40	0.2	0.4	<0.1	68	0.68	0.097
7030	Soil	1.3	31.1	8.0	46	0.1	18.5	10.2	509	2.00	5.0	0.8	5.9	1.1	54	0.2	0.5	0.1	49	1.71	0.058
7031	Soil	1.1	35.3	7.8	70	<0.1	21.3	16.6	476	2.86	6.9	1.6	6.9	2.8	37	0.2	0.5	<0.1	63	0.64	0.096
7032	Soil	1.0	42.9	8.2	79	<0.1	21.6	14.5	565	3.06	12.3	1.3	5.1	2.2	42	0.3	0.4	<0.1	70	0.90	0.090
7033	Soil	0.9	32.4	8.2	67	0.1	21.0	15.9	532	2.77	7.5	1.1	3.5	2.2	32	0.2	0.5	0.1	65	0.54	0.089
7034	Soil	1.2	46.8	7.2	86	<0.1	27.0	18.1	664	3.86	10.3	1.0	6.1	3.2	43	0.2	1.5	<0.1	89	1.16	0.136
7035	Soil	0.8	34.9	5.1	54	<0.1	16.3	14.3	785	2.49	4.3	0.9	2.6	2.0	34	0.2	0.3	<0.1	56	0.59	0.124
7036	Soil	1.3	34.3	7.5	86	0.1	17.9	16.0	713	3.09	6.0	0.9	2.1	2.0	37	0.2	0.2	<0.1	85	0.76	0.096
7037	Soil	0.6	27.5	4.4	41	<0.1	12.0	12.2	340	2.41	2.8	0.6	5.1	1.8	33	<0.1	0.3	<0.1	57	0.70	0.208
7038	Soil	0.9	43.5	11.6	61	0.4	17.3	13.3	565	2.58	3.7	1.3	12.8	2.0	62	0.2	0.2	<0.1	55	1.21	0.077
7039	Soil	2.0	64.5	15.9	116	0.5	17.5	17.4	1093	3.40	4.1	1.2	6.7	2.4	48	0.6	0.2	0.1	74	0.96	0.082
7040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7041	Soil	1.2	47.3	16.5	107	0.3	15.4	13.9	526	3.37	4.1	0.9	10.1	3.0	28	0.3	0.1	0.2	74	0.42	0.078
7042	Soil	1.0	43.0	14.2	113	0.4	17.2	12.8	438	3.45	3.6	1.0	5.0	2.5	32	0.2	0.2	0.2	77	0.43	0.074



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7013	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7014	Soil	8	22	0.23	217	0.078	2	1.01	0.006	0.07	0.1	<0.01	2.7	<0.1	<0.05	8	<0.5
7015	Soil	8	16	0.59	127	0.080	2	1.06	0.010	0.21	<0.1	0.02	3.3	0.1	0.06	6	<0.5
7016	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7017	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7018	Soil	6	27	0.92	225	0.122	<1	1.75	0.018	0.18	0.2	0.01	3.4	0.1	<0.05	6	<0.5
7019	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7020	Soil	5	22	1.27	343	0.134	<1	1.92	0.023	0.46	<0.1	0.02	4.6	0.1	0.20	6	<0.5
7021	Soil	6	29	1.20	390	0.115	<1	2.03	0.023	0.28	<0.1	0.05	7.0	0.1	0.21	6	0.6
7022	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7023	Soil	5	26	1.01	295	0.124	<1	1.86	0.015	0.28	<0.1	0.02	4.6	0.1	0.10	6	<0.5
7024	Soil	7	23	1.06	320	0.110	2	1.46	0.039	0.28	<0.1	0.02	4.8	0.1	0.11	5	0.8
7025	Soil	8	28	0.93	302	0.093	1	1.38	0.029	0.22	0.1	0.05	4.7	0.1	0.06	4	0.7
7026	Soil	9	26	0.78	207	0.088	1	1.21	0.019	0.24	<0.1	0.02	3.6	0.1	<0.05	4	<0.5
7027	Soil	11	34	0.94	303	0.097	2	1.47	0.023	0.21	0.1	0.04	5.0	0.1	<0.05	5	<0.5
7028	Soil	11	32	0.83	291	0.084	3	1.36	0.020	0.18	0.1	0.04	4.2	0.1	<0.05	4	<0.5
7029	Soil	12	34	0.93	315	0.100	2	1.56	0.021	0.21	0.1	0.04	5.0	0.1	<0.05	5	<0.5
7030	Soil	10	31	0.62	437	0.061	3	1.08	0.020	0.09	<0.1	0.06	3.7	<0.1	0.08	4	0.6
7031	Soil	13	32	0.86	297	0.098	2	1.46	0.019	0.24	<0.1	0.04	4.3	0.1	<0.05	5	<0.5
7032	Soil	11	37	1.09	331	0.118	2	1.60	0.021	0.25	0.2	0.03	4.5	0.2	0.06	5	0.8
7033	Soil	14	33	0.79	337	0.091	<1	1.47	0.017	0.14	0.2	0.03	4.3	0.1	<0.05	5	<0.5
7034	Soil	11	51	1.67	483	0.137	3	1.84	0.019	0.66	0.1	0.06	7.2	0.2	<0.05	6	0.6
7035	Soil	8	24	0.76	198	0.081	2	1.11	0.022	0.22	0.1	0.02	3.8	<0.1	<0.05	4	0.7
7036	Soil	12	31	1.12	369	0.155	2	1.74	0.017	0.27	0.1	0.03	4.3	0.2	<0.05	6	<0.5
7037	Soil	6	20	0.55	164	0.064	<1	0.84	0.024	0.15	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5
7038	Soil	20	25	0.68	467	0.055	2	1.37	0.022	0.09	0.1	0.06	5.9	<0.1	0.08	4	<0.5
7039	Soil	20	29	1.04	452	0.127	3	1.90	0.019	0.27	<0.1	0.06	4.7	0.2	0.07	6	<0.5
7040	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7041	Soil	13	28	1.06	320	0.151	1	1.87	0.017	0.29	0.1	0.02	3.4	0.2	<0.05	5	<0.5
7042	Soil	12	33	1.16	321	0.157	1	2.14	0.017	0.28	0.2	0.05	4.0	0.2	<0.05	7	<0.5



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CERTIFICATE OF ANALYSIS

VAN09003420.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7043	Soil																							
7044	Soil																							
7045	Soil																							
7046	Soil																							
7047	Soil																							
7048	Soil																							
7049	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7043	Soil	12	24	0.83	253	0.136	1	1.59	0.016	0.19	0.1	0.03	3.3	0.2	<0.05	6	<0.5
7044	Soil	9	27	1.07	285	0.167	2	1.81	0.020	0.15	0.1	0.03	3.6	0.1	<0.05	6	<0.5
7045	Soil	11	25	0.36	241	0.072	1	1.37	0.011	0.05	<0.1	0.03	2.4	0.2	<0.05	7	<0.5
7046	Soil	10	40	0.67	234	0.091	1	1.99	0.013	0.06	0.1	0.04	4.3	0.2	<0.05	6	<0.5
7047	Soil	15	72	0.89	364	0.087	2	1.96	0.013	0.07	0.1	0.03	4.8	0.2	<0.05	6	<0.5
7048	Soil	14	44	0.72	333	0.078	1	1.71	0.012	0.07	0.1	0.03	4.1	0.1	<0.05	5	<0.5
7049	Soil	13	56	0.63	270	0.067	2	1.63	0.011	0.07	0.1	0.03	3.7	0.1	<0.05	6	<0.5
7050	Soil	26	40	0.52	256	0.076	2	1.39	0.015	0.08	0.1	0.04	3.2	0.1	<0.05	6	0.5
7051	Soil	15	34	0.63	211	0.085	2	1.85	0.013	0.07	0.1	0.03	3.8	0.1	<0.05	6	<0.5
7052	Soil	9	38	0.91	229	0.126	3	1.95	0.012	0.17	<0.1	0.02	4.3	0.1	<0.05	7	<0.5
7053	Soil	9	27	0.67	243	0.092	1	1.59	0.013	0.14	<0.1	0.03	4.3	<0.1	<0.05	6	<0.5
7054	Soil	14	41	0.72	348	0.096	1	2.14	0.013	0.08	<0.1	0.04	5.4	0.1	<0.05	7	<0.5
7055	Soil	10	31	0.65	214	0.093	2	1.76	0.012	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
7056	Soil	10	31	0.68	272	0.105	2	1.99	0.011	0.09	0.1	0.02	3.7	0.1	<0.05	7	<0.5
7057	Soil	9	35	0.63	206	0.091	2	2.06	0.011	0.05	0.2	0.04	4.3	<0.1	<0.05	7	<0.5
7058	Soil	10	29	0.54	185	0.097	1	1.78	0.011	0.05	0.1	0.03	3.9	0.1	<0.05	7	<0.5
7059	Soil	12	49	0.82	226	0.106	2	2.03	0.013	0.10	0.2	0.04	5.2	0.1	<0.05	7	<0.5
7060	Soil	9	33	0.60	194	0.102	<1	2.03	0.013	0.05	0.1	0.02	4.0	0.1	<0.05	8	<0.5
7061	Soil	8	42	0.89	211	0.125	7	2.19	0.012	0.07	0.2	0.01	4.1	<0.1	<0.05	7	<0.5
7062	Soil	8	38	0.66	212	0.096	2	2.30	0.013	0.07	0.1	0.03	3.8	<0.1	<0.05	7	<0.5
7063	Soil	7	63	1.47	394	0.170	1	2.31	0.016	0.55	<0.1	0.01	3.8	0.2	<0.05	6	<0.5
7064	Soil	9	37	0.57	214	0.081	2	2.28	0.010	0.06	0.2	0.02	4.4	0.1	<0.05	6	<0.5
7065	Soil	16	39	0.77	511	0.099	1	2.18	0.012	0.07	0.1	0.03	5.5	0.1	<0.05	7	<0.5
7066	Soil	7	27	1.33	326	0.229	<1	3.04	0.011	0.58	0.1	0.01	4.0	0.2	<0.05	8	<0.5
7067	Soil	11	32	0.49	456	0.049	2	1.80	0.013	0.05	0.2	0.04	4.2	<0.1	<0.05	5	1.1
7068	Soil	9	61	1.07	266	0.146	2	2.48	0.011	0.18	0.1	0.01	3.7	0.2	<0.05	6	<0.5
7069	Soil	15	33	0.72	276	0.100	2	1.95	0.013	0.20	0.1	0.02	4.0	0.1	<0.05	6	0.6
7070	Soil	21	53	1.26	356	0.200	<1	2.68	0.015	0.69	<0.1	<0.01	4.1	0.3	<0.05	8	<0.5
7071	Soil	13	40	0.82	216	0.153	1	2.25	0.013	0.16	0.1	0.02	3.6	0.2	<0.05	7	<0.5
7072	Soil	13	41	0.62	180	0.105	1	2.35	0.013	0.06	0.2	0.04	6.2	0.1	<0.05	6	<0.5



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VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7073	Soil	1.0	37.1	6.6	70	<0.1	19.1	16.8	643	3.21	5.6	0.4	4.8	2.3	22	<0.1	0.3	<0.1	78	0.34	0.077
7074	Soil	0.6	22.2	8.2	63	<0.1	17.7	11.4	439	2.99	6.6	0.6	2.9	2.4	23	0.1	0.3	0.1	69	0.26	0.039
7075	Soil	0.6	24.0	25.2	87	<0.1	16.2	10.9	296	2.88	6.8	0.5	2.7	2.3	23	0.1	0.3	0.1	74	0.26	0.044
7076	Soil	0.5	41.7	10.6	145	<0.1	13.1	17.4	599	4.48	3.1	0.2	1.9	0.8	24	<0.1	0.2	<0.1	135	0.39	0.111
7077	Soil	0.8	47.3	104.1	352	<0.1	8.8	13.7	697	4.18	2.6	0.2	1.0	0.5	25	0.3	0.1	<0.1	125	0.36	0.101
7078	Soil	0.7	23.6	12.3	85	<0.1	10.4	11.9	389	3.14	4.4	0.4	2.7	1.8	25	0.1	0.2	<0.1	73	0.40	0.063
7079	Soil	0.7	23.4	8.5	59	<0.1	11.4	8.0	424	2.22	3.7	0.6	1.3	2.0	25	0.2	0.4	0.1	45	0.41	0.041
7080	Soil	1.1	29.6	38.6	168	0.3	14.4	14.3	901	3.76	4.9	1.0	5.3	2.5	41	0.4	0.4	0.1	78	0.84	0.094
7081	Soil	1.2	35.5	9.0	70	0.2	39.1	22.8	1169	3.37	10.6	1.9	3.5	2.7	39	0.1	1.5	0.1	64	0.52	0.086
7082	Soil	1.0	27.2	9.0	55	<0.1	28.4	9.9	221	2.87	18.1	1.2	5.6	4.2	19	<0.1	1.9	0.1	59	0.20	0.041
7083	Soil	1.2	18.2	18.7	67	0.1	19.0	11.1	456	2.59	12.8	0.6	3.4	1.4	54	0.3	1.6	0.1	43	0.72	0.265
7084	Soil	0.8	18.0	9.1	47	0.1	21.7	7.5	184	1.96	11.9	0.7	9.6	1.3	31	0.1	4.2	0.1	41	0.46	0.048
7085	Soil	1.5	30.4	9.8	67	0.2	32.0	16.3	829	3.39	17.4	2.2	18.0	4.9	33	0.2	1.8	0.1	53	0.52	0.075
7086	Soil	2.3	37.6	10.5	71	0.2	37.4	15.8	526	3.24	15.6	1.8	34.4	5.1	33	0.2	1.0	0.1	59	0.45	0.067
7087	Soil	1.8	28.1	12.5	62	<0.1	31.8	12.2	338	3.35	13.4	0.8	30.7	6.3	17	0.1	0.7	0.1	58	0.21	0.041
7088	Soil	1.1	28.3	9.5	60	<0.1	25.2	12.8	386	3.58	12.2	0.5	15.0	3.4	22	0.1	0.6	0.1	74	0.27	0.044
7089	Soil	0.8	25.4	6.8	52	<0.1	22.5	10.5	290	3.15	8.9	0.5	3.6	2.6	18	0.2	0.5	0.1	65	0.20	0.037
7090	Soil	1.1	12.3	9.2	36	<0.1	12.2	6.1	234	2.86	7.1	0.4	3.2	1.8	15	<0.1	0.4	0.2	71	0.12	0.028
7091	Soil	1.3	19.4	8.4	45	<0.1	17.6	9.2	218	2.94	8.4	0.4	5.3	2.1	16	<0.1	0.4	0.1	74	0.16	0.028
7092	Soil	1.9	21.8	8.0	46	0.2	13.1	6.9	212	2.33	4.6	0.5	9.8	1.7	21	0.1	0.3	0.1	53	0.24	0.039
7093	Soil	2.7	27.3	9.3	66	0.1	19.1	11.0	344	3.56	6.2	0.8	12.4	2.7	20	0.1	0.3	0.1	77	0.21	0.034
7094	Soil	1.9	32.7	7.6	74	<0.1	13.0	11.1	557	3.22	3.5	0.6	16.1	1.3	27	0.1	0.3	0.2	79	0.32	0.045
7095	Soil	1.4	25.0	7.4	57	<0.1	15.3	10.6	366	3.32	7.3	0.3	7.2	1.7	22	0.1	0.5	0.1	79	0.28	0.029
7096	Soil	0.9	43.6	5.9	56	0.1	16.6	12.9	461	3.27	5.4	0.7	7.7	1.8	23	0.1	0.4	<0.1	75	0.58	0.058
7097	Soil	1.2	37.9	5.3	47	0.1	15.9	12.9	590	2.70	3.9	0.7	4.8	0.9	37	0.2	0.6	0.2	63	1.14	0.052
7098	Soil	0.9	25.0	14.0	70	0.1	15.8	16.6	484	2.49	4.1	0.4	3.9	0.7	14	0.1	0.4	0.2	80	0.27	0.044
7099	Soil	0.7	24.4	6.7	49	0.1	16.1	11.4	281	2.53	3.7	0.4	5.9	1.1	14	0.2	0.2	0.1	74	0.26	0.046
7100	Soil	0.6	18.6	5.9	44	<0.1	14.8	7.5	147	2.00	2.7	0.3	1.9	0.9	13	<0.1	0.1	0.1	52	0.22	0.035
7101	Soil	0.6	21.7	7.1	48	0.1	20.9	9.4	200	2.22	2.7	0.4	1.9	1.2	16	<0.1	0.1	0.1	63	0.33	0.044
7102	Soil	1.3	21.8	3.7	47	<0.1	12.7	9.1	347	2.04	2.4	0.6	1.3	0.9	34	<0.1	0.1	<0.1	49	0.78	0.042



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7073	Soil	7	34	1.01	250	0.156	<1	2.08	0.016	0.17	0.1	0.01	3.0	0.1	<0.05	5	<0.5
7074	Soil	10	32	0.69	246	0.112	2	1.93	0.014	0.05	0.1	0.02	3.9	0.1	<0.05	6	<0.5
7075	Soil	9	31	0.73	219	0.118	2	2.03	0.014	0.06	0.2	0.03	3.5	<0.1	<0.05	6	<0.5
7076	Soil	3	33	1.83	318	0.295	<1	2.97	0.021	0.53	<0.1	<0.01	2.9	0.2	<0.05	8	<0.5
7077	Soil	2	21	1.83	370	0.276	<1	2.79	0.019	0.76	0.1	0.01	2.5	0.3	<0.05	7	<0.5
7078	Soil	7	20	1.03	333	0.153	<1	1.92	0.014	0.24	0.1	0.01	2.8	0.2	<0.05	6	<0.5
7079	Soil	10	19	0.46	301	0.049	2	1.23	0.016	0.10	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5
7080	Soil	10	23	1.08	483	0.091	2	2.06	0.015	0.18	0.2	0.04	5.6	0.2	<0.05	6	0.7
7081	Soil	26	53	0.88	515	0.102	<1	1.72	0.018	0.11	<0.1	0.06	4.2	0.2	0.06	6	<0.5
7082	Soil	16	44	0.71	201	0.107	2	1.69	0.012	0.08	<0.1	0.04	3.9	0.2	<0.05	6	<0.5
7083	Soil	13	28	0.54	149	0.068	2	1.32	0.020	0.13	0.1	0.04	2.5	0.2	0.06	6	<0.5
7084	Soil	12	34	0.48	261	0.052	<1	1.36	0.018	0.05	0.2	0.14	3.3	0.2	<0.05	5	<0.5
7085	Soil	36	40	0.68	271	0.086	1	1.71	0.016	0.19	0.1	0.12	5.1	0.3	<0.05	6	0.8
7086	Soil	32	47	0.77	397	0.086	1	1.89	0.015	0.13	0.1	0.06	5.0	0.2	<0.05	6	0.7
7087	Soil	19	39	0.59	220	0.077	<1	1.82	0.011	0.08	0.1	0.03	3.7	0.2	<0.05	6	<0.5
7088	Soil	13	42	0.64	245	0.099	<1	2.30	0.014	0.07	0.1	0.02	4.4	0.1	<0.05	7	<0.5
7089	Soil	12	34	0.67	189	0.102	<1	1.95	0.013	0.06	0.1	0.02	3.4	0.1	<0.05	6	<0.5
7090	Soil	7	24	0.41	205	0.098	<1	1.43	0.014	0.05	0.2	0.02	2.5	0.1	<0.05	7	<0.5
7091	Soil	8	32	0.54	181	0.105	<1	1.70	0.014	0.06	0.1	0.02	3.3	<0.1	<0.05	7	<0.5
7092	Soil	11	25	0.45	310	0.089	<1	1.46	0.016	0.09	0.1	0.02	3.5	<0.1	<0.05	6	<0.5
7093	Soil	11	34	0.75	442	0.114	1	1.97	0.015	0.16	0.1	0.02	4.6	0.1	<0.05	7	<0.5
7094	Soil	9	22	0.86	422	0.119	<1	1.67	0.021	0.29	<0.1	0.03	5.4	0.1	0.10	7	<0.5
7095	Soil	7	28	0.68	198	0.099	<1	1.76	0.017	0.10	0.1	0.02	4.0	<0.1	<0.05	6	<0.5
7096	Soil	10	28	0.88	227	0.077	1	1.70	0.021	0.12	0.1	0.03	7.7	<0.1	<0.05	5	<0.5
7097	Soil	10	23	0.66	334	0.043	2	1.50	0.015	0.07	0.1	0.08	6.0	<0.1	0.06	4	<0.5
7098	Soil	6	33	0.71	128	0.053	<1	1.55	0.012	0.04	0.1	0.04	4.0	0.1	<0.05	6	<0.5
7099	Soil	6	30	0.77	139	0.088	<1	1.60	0.011	0.07	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
7100	Soil	5	29	0.64	126	0.062	<1	1.37	0.010	0.04	0.1	0.01	2.5	<0.1	<0.05	5	<0.5
7101	Soil	7	41	0.88	152	0.097	<1	1.57	0.013	0.08	0.1	0.02	3.4	<0.1	<0.05	6	<0.5
7102	Soil	5	28	0.65	214	0.081	<1	1.18	0.014	0.09	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5



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Project: Ballarat
Report Date: August 12, 2009

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7103	Soil	1.3	28.5	6.9	60	0.1	17.4	13.5	405	2.37	4.2	0.5	2.8	1.0	18	0.1	0.1	<0.1	77	0.36	0.049
7104	Soil	1.4	29.2	6.2	63	0.1	18.4	12.6	484	2.46	6.3	0.7	2.1	1.2	33	0.1	0.2	0.1	69	1.03	0.059
7105	Soil	0.8	47.3	7.1	70	0.1	21.8	12.4	551	2.57	11.7	0.7	1.4	1.2	34	0.4	0.3	<0.1	63	1.89	0.067
7106	Soil	1.0	35.1	10.8	73	0.1	19.0	9.6	593	2.01	9.9	1.4	2.1	0.6	59	0.6	0.3	<0.1	53	2.96	0.058
7107	Soil	0.4	30.4	5.8	64	<0.1	19.5	8.7	560	1.75	4.4	0.9	1.5	0.8	47	0.6	0.3	<0.1	46	2.60	0.081
7108	Soil	1.4	37.1	8.8	92	0.2	22.2	13.3	652	2.98	14.4	0.6	3.0	1.9	26	0.3	0.2	<0.1	81	0.65	0.085
7109	Soil	2.0	37.6	5.4	63	0.2	22.3	9.3	402	2.77	4.4	0.7	1.4	1.8	20	0.2	0.2	0.1	73	0.36	0.056
7110	Soil	1.5	18.5	5.2	86	<0.1	24.7	14.2	804	3.12	4.8	0.4	1.8	1.9	17	0.2	0.1	0.1	75	0.40	0.083
7111	Soil	1.2	58.4	10.0	78	<0.1	26.9	18.6	569	3.90	7.5	0.8	3.0	3.6	18	0.1	0.2	0.1	77	0.30	0.070
7112	Soil	1.1	16.9	11.0	49	0.1	11.0	6.2	267	2.26	4.4	0.4	1.9	1.2	11	0.3	0.2	0.2	61	0.13	0.037
7113	Soil	1.1	44.3	13.3	100	0.1	15.9	11.7	365	3.07	3.8	0.5	1.3	2.4	20	0.1	0.2	0.1	80	0.35	0.086
7114	Soil	0.7	29.7	6.6	60	<0.1	20.5	14.9	372	3.39	7.1	0.4	1.1	1.9	17	<0.1	0.3	0.1	98	0.26	0.032
7115	Soil	0.6	26.5	8.8	74	<0.1	19.0	12.9	350	3.08	5.8	0.4	1.1	1.7	18	0.1	0.3	0.1	84	0.25	0.038
7116	Soil	0.9	26.1	18.3	132	<0.1	12.0	18.1	1268	3.33	4.1	0.3	1.3	0.9	16	0.2	0.2	<0.1	100	0.20	0.048
7117	Soil	1.1	26.2	10.8	83	<0.1	18.7	12.6	457	3.10	5.4	0.7	2.3	3.7	19	0.2	0.3	0.1	72	0.28	0.043
7118	Soil	0.9	37.7	5.4	54	<0.1	24.3	18.9	387	4.18	6.0	0.4	1.5	1.7	15	<0.1	0.3	0.2	106	0.26	0.063
7119	Soil	1.0	12.7	10.7	41	<0.1	12.3	5.3	193	2.37	6.3	0.4	4.2	1.8	13	<0.1	0.3	0.2	70	0.16	0.023
7120	Soil	1.3	15.4	14.9	53	0.3	9.4	7.7	1222	2.03	3.5	0.4	1.4	1.3	18	0.2	0.2	0.2	61	0.22	0.037
7121	Soil	0.9	18.7	8.3	57	0.2	15.2	8.4	247	2.58	4.8	0.6	2.9	2.1	19	0.2	0.2	0.1	63	0.34	0.035
7122	Soil	0.8	24.1	5.3	77	0.1	19.5	13.2	573	3.04	5.2	0.9	3.9	2.8	24	0.2	0.2	0.1	66	0.68	0.062
7123	Soil	1.6	28.4	7.2	78	0.2	19.6	16.0	1027	3.04	8.8	0.9	5.2	2.0	28	0.2	0.3	0.1	70	0.70	0.074
7124	Soil	1.2	25.9	6.0	76	<0.1	17.8	12.4	611	3.09	11.9	0.6	2.0	2.3	22	0.2	0.3	0.1	77	0.61	0.051
7125	Soil	2.1	53.4	8.1	91	0.2	28.8	24.9	2043	4.00	15.2	1.9	5.0	4.0	33	0.2	0.5	0.1	93	0.78	0.078
7126	Soil	1.4	20.5	5.5	82	<0.1	24.8	10.6	1028	2.71	15.8	0.3	<0.5	1.7	23	0.8	0.3	<0.1	59	0.48	0.092
7127	Soil	3.2	27.7	12.0	151	0.3	23.2	8.2	317	2.50	110.5	0.7	1.9	1.7	23	1.8	1.4	0.2	63	0.28	0.044
7128	Soil	3.4	35.3	8.0	124	0.4	24.5	8.5	271	2.91	24.1	0.8	2.7	2.2	26	0.7	0.6	0.1	91	0.39	0.051
7129	Soil	4.4	42.1	9.8	167	0.3	36.2	11.0	345	3.58	66.7	1.0	2.6	3.1	22	0.7	1.6	0.1	106	0.28	0.060
7130	Soil	3.3	35.6	10.9	127	0.2	32.1	8.2	270	2.93	46.5	1.0	0.7	2.6	37	0.6	0.9	0.2	85	0.42	0.055
7131	Soil	1.8	48.6	6.1	93	0.2	20.2	13.7	558	3.75	18.1	0.8	3.4	2.3	18	0.3	0.5	0.1	92	0.43	0.083
7132	Soil	1.7	35.1	7.1	90	0.2	18.9	11.6	445	3.41	22.1	0.7	1.8	2.0	20	0.3	0.6	0.1	83	0.50	0.059



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7103	Soil	6	34	0.79	235	0.108	<1	1.51	0.019	0.18	0.1	0.02	3.0	0.1	<0.05	6	<0.5
7104	Soil	8	37	0.77	407	0.095	<1	1.43	0.014	0.10	0.1	0.04	3.9	0.1	<0.05	5	<0.5
7105	Soil	11	32	0.81	421	0.080	2	1.36	0.015	0.19	<0.1	0.04	3.7	0.1	0.05	4	0.6
7106	Soil	8	31	0.70	478	0.056	2	1.21	0.015	0.08	<0.1	0.07	3.1	0.1	0.10	4	0.8
7107	Soil	10	33	1.21	337	0.054	1	1.28	0.012	0.10	<0.1	0.04	3.4	0.2	0.07	4	0.7
7108	Soil	12	41	0.98	416	0.104	<1	1.62	0.011	0.31	0.1	0.03	4.9	0.2	<0.05	6	<0.5
7109	Soil	12	44	0.99	395	0.138	<1	1.82	0.009	0.23	0.1	0.01	2.8	0.2	<0.05	6	0.5
7110	Soil	8	43	1.05	332	0.124	<1	1.79	0.012	0.36	0.1	<0.01	3.4	0.2	<0.05	6	<0.5
7111	Soil	15	34	0.81	301	0.086	<1	2.01	0.009	0.17	<0.1	<0.01	4.5	0.2	<0.05	6	<0.5
7112	Soil	10	22	0.31	192	0.061	<1	1.42	0.011	0.08	0.1	0.02	2.3	<0.1	<0.05	5	<0.5
7113	Soil	11	31	1.10	269	0.155	<1	2.08	0.015	0.33	0.1	<0.01	2.4	0.2	<0.05	6	<0.5
7114	Soil	7	35	1.06	233	0.145	<1	2.43	0.010	0.09	0.1	0.01	3.0	0.1	<0.05	6	<0.5
7115	Soil	7	31	0.85	204	0.135	<1	2.08	0.009	0.11	0.1	0.01	2.9	0.1	<0.05	6	<0.5
7116	Soil	5	23	1.23	210	0.163	1	2.19	0.012	0.29	0.2	0.02	2.7	0.2	<0.05	6	<0.5
7117	Soil	12	29	0.75	200	0.107	1	1.91	0.009	0.10	0.1	0.01	2.9	0.1	<0.05	6	<0.5
7118	Soil	8	41	1.16	221	0.129	<1	2.28	0.011	0.15	0.1	0.02	4.1	0.1	<0.05	8	<0.5
7119	Soil	9	26	0.29	122	0.053	<1	1.54	0.006	0.04	0.1	0.02	2.5	0.1	<0.05	6	<0.5
7120	Soil	12	19	0.26	209	0.060	<1	1.28	0.012	0.06	0.1	0.02	2.2	0.1	<0.05	7	<0.5
7121	Soil	12	28	0.57	210	0.085	<1	1.71	0.017	0.08	0.2	0.02	3.2	0.1	<0.05	6	<0.5
7122	Soil	15	33	0.82	346	0.100	<1	1.69	0.011	0.20	0.1	0.03	5.8	0.1	<0.05	5	0.7
7123	Soil	15	32	0.75	526	0.081	<1	1.59	0.013	0.16	0.1	0.04	5.4	0.1	<0.05	5	<0.5
7124	Soil	12	33	0.86	390	0.126	<1	1.63	0.012	0.28	0.1	0.03	4.6	0.2	<0.05	6	<0.5
7125	Soil	38	43	0.96	1054	0.128	<1	2.23	0.015	0.21	0.1	0.08	9.9	0.2	<0.05	6	0.9
7126	Soil	7	37	1.15	364	0.138	1	1.78	0.011	0.40	0.1	<0.01	2.3	0.2	<0.05	5	<0.5
7127	Soil	12	22	0.23	343	0.038	<1	1.13	0.012	0.11	0.1	0.03	2.9	0.1	<0.05	5	1.1
7128	Soil	12	38	0.76	334	0.110	<1	1.41	0.015	0.16	0.3	0.03	4.2	0.2	<0.05	6	0.7
7129	Soil	12	40	0.80	301	0.095	1	1.60	0.012	0.23	<0.1	0.04	4.4	0.2	<0.05	6	1.9
7130	Soil	12	42	0.61	270	0.082	1	1.22	0.018	0.18	0.1	0.03	3.6	0.2	0.08	5	1.6
7131	Soil	10	33	0.90	329	0.119	<1	1.59	0.012	0.27	0.1	0.02	5.6	0.1	<0.05	6	<0.5
7132	Soil	10	28	0.74	405	0.102	1	1.52	0.012	0.17	0.1	0.03	5.4	0.1	<0.05	6	0.7



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7133	Soil		0.8	32.7	5.7	55	0.2	13.7	11.4	764	2.49	4.9	0.8	5.6	1.2	45	0.2	0.4	0.1	62	1.19	0.058		
7134	Soil		0.8	24.1	5.7	69	0.2	14.1	8.3	278	2.70	3.4	0.5	2.2	1.7	22	0.1	0.2	0.1	69	0.41	0.040		
7135	Soil		1.1	29.8	7.1	78	0.2	16.2	14.2	581	3.48	4.4	0.7	2.0	1.7	23	0.2	0.4	0.1	82	0.50	0.070		
7136	Soil		1.3	38.1	7.6	98	0.1	18.4	16.4	796	4.28	6.8	0.8	2.0	2.6	20	0.3	0.6	0.1	98	0.47	0.073		
7137	Soil		1.0	28.7	5.6	59	0.2	12.6	10.0	647	2.35	3.4	0.9	2.8	0.9	55	0.3	0.6	<0.1	53	1.43	0.068		
7138	Soil		1.2	18.9	6.0	74	<0.1	11.0	11.9	489	2.98	5.6	0.4	1.8	1.5	21	0.1	0.3	0.1	93	0.42	0.048		
7139	Soil		0.8	23.3	6.0	72	<0.1	12.3	11.4	499	2.97	6.4	1.1	1.3	1.3	47	0.1	0.4	<0.1	65	1.23	0.058		
7140	Soil		0.8	38.8	6.0	62	0.1	16.3	9.5	531	2.59	4.0	0.9	1.9	1.0	49	0.1	0.3	<0.1	59	1.35	0.072		
7141	Soil		1.0	51.3	4.1	83	<0.1	20.4	18.3	587	4.05	4.2	0.4	1.4	1.9	23	<0.1	0.2	<0.1	96	0.46	0.095		
7142	Soil		1.3	40.8	4.9	58	0.2	14.5	14.1	605	2.69	7.0	0.9	1.9	1.4	46	0.2	0.3	<0.1	65	1.22	0.068		
7143	Soil		1.9	34.1	6.5	62	0.1	19.6	13.6	909	2.84	6.5	0.9	2.9	1.3	46	0.1	0.3	0.1	70	1.27	0.072		
7144	Soil		0.9	22.3	18.8	115	0.2	15.3	9.3	314	2.39	3.5	0.8	2.5	2.0	18	0.3	0.2	<0.1	53	0.36	0.054		
7145	Soil		0.8	17.6	7.3	58	0.1	15.6	6.1	201	2.14	3.9	0.8	2.9	2.0	18	0.2	0.2	0.1	47	0.24	0.034		
7146	Soil		0.7	18.8	9.5	72	0.2	13.6	5.0	204	1.90	2.4	0.8	1.9	1.3	21	0.2	0.2	0.1	36	0.31	0.042		
7147	Soil		0.5	16.1	6.5	52	<0.1	13.5	6.3	211	2.02	4.7	0.4	4.1	1.6	22	<0.1	0.2	<0.1	52	0.42	0.063		
7148	Soil		0.8	31.4	7.7	44	0.2	12.1	7.9	194	2.06	2.6	0.6	1.1	0.6	18	0.2	0.2	0.1	57	0.26	0.042		
7149	Soil		0.9	23.3	5.1	43	<0.1	11.5	11.1	279	2.41	3.5	0.4	1.3	1.1	15	0.1	0.2	<0.1	65	0.28	0.068		
7150	Soil		1.1	19.4	6.8	44	<0.1	9.4	8.5	277	2.26	3.3	0.3	7.5	1.1	14	0.1	0.2	0.1	75	0.25	0.042		
7151	Soil		1.2	22.6	5.7	67	<0.1	33.2	18.7	609	4.28	4.3	0.4	2.3	1.5	17	<0.1	0.2	<0.1	125	0.44	0.072		
7152	Soil		1.2	28.5	8.0	46	<0.1	29.3	11.0	273	2.66	3.7	0.3	1.2	0.8	13	0.1	0.2	0.1	102	0.23	0.031		
7153	Soil		1.0	21.5	7.8	72	0.1	16.6	13.2	573	2.68	4.6	0.6	10.2	1.3	36	0.2	0.2	<0.1	69	0.88	0.082		
7154	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.		
7155	Soil		0.6	19.1	11.2	57	0.1	12.4	6.1	177	1.95	2.8	0.6	4.8	1.0	18	0.1	0.2	<0.1	43	0.30	0.051		
7156	Soil		0.8	23.9	9.0	75	0.1	21.6	13.2	491	3.09	4.3	0.7	4.2	2.3	22	0.2	0.5	<0.1	67	0.51	0.091		
7157	Soil		1.3	23.7	10.0	65	0.1	15.3	13.9	638	3.25	4.9	0.4	2.0	1.5	16	0.1	0.7	0.1	89	0.28	0.063		
7158	Soil		1.4	24.5	16.4	89	0.2	14.2	11.8	461	3.28	5.6	0.6	4.1	1.4	18	0.2	0.5	0.2	83	0.33	0.062		
7159	Soil		1.3	27.9	10.8	73	<0.1	13.6	12.2	570	3.33	4.9	0.5	2.3	1.5	20	0.1	0.3	0.1	85	0.27	0.057		
7160	Soil		0.4	21.5	8.3	52	0.1	11.1	4.4	149	1.95	2.9	0.5	2.1	1.0	27	0.2	0.2	0.1	38	0.43	0.054		
7161	Soil		0.7	24.6	7.7	53	0.1	21.9	9.4	315	2.87	8.4	0.6	1.1	3.5	18	<0.1	0.5	0.1	63	0.24	0.037		
7162	Soil		0.8	14.3	6.7	60	0.1	15.8	7.2	370	2.76	4.8	0.3	1.8	1.8	15	0.1	0.3	0.1	65	0.23	0.037		



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7133	Soil	14	23	0.67	585	0.084	2	1.36	0.023	0.18	<0.1	0.04	5.0	0.1	0.06	6	<0.5
7134	Soil	8	24	0.74	298	0.120	<1	1.41	0.016	0.17	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5
7135	Soil	9	29	0.76	352	0.100	2	1.57	0.017	0.18	0.1	0.04	6.3	<0.1	<0.05	6	<0.5
7136	Soil	14	30	0.82	533	0.103	<1	1.63	0.015	0.17	0.1	0.02	7.6	<0.1	<0.05	7	<0.5
7137	Soil	16	19	0.66	583	0.068	2	1.29	0.022	0.16	<0.1	0.06	4.0	<0.1	0.09	4	<0.5
7138	Soil	8	23	0.84	255	0.135	<1	1.49	0.015	0.22	0.1	0.02	3.8	0.1	<0.05	7	<0.5
7139	Soil	9	20	0.76	294	0.091	1	1.33	0.019	0.25	<0.1	0.04	3.8	0.1	0.05	5	0.8
7140	Soil	12	24	0.77	558	0.080	<1	1.44	0.022	0.16	<0.1	0.05	3.9	0.1	<0.05	5	0.6
7141	Soil	6	35	1.45	421	0.190	<1	1.98	0.016	0.48	0.1	<0.01	3.8	0.2	<0.05	7	<0.5
7142	Soil	10	25	0.74	367	0.110	1	1.35	0.025	0.16	0.2	0.04	3.6	0.1	<0.05	5	0.6
7143	Soil	10	32	0.80	445	0.101	2	1.49	0.023	0.19	<0.1	0.05	3.8	0.1	0.08	6	0.6
7144	Soil	11	26	0.83	294	0.128	<1	1.49	0.015	0.21	<0.1	0.04	3.3	0.1	<0.05	6	<0.5
7145	Soil	11	28	0.65	193	0.099	2	1.38	0.015	0.10	0.2	0.04	2.7	0.1	<0.05	6	<0.5
7146	Soil	9	28	0.76	227	0.101	1	1.39	0.019	0.15	<0.1	0.04	2.6	0.1	<0.05	6	<0.5
7147	Soil	8	26	0.66	184	0.098	<1	1.16	0.016	0.09	0.2	0.01	2.5	<0.1	<0.05	5	0.5
7148	Soil	8	22	0.61	244	0.092	1	1.26	0.021	0.12	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5
7149	Soil	7	24	0.69	192	0.089	2	1.25	0.021	0.14	<0.1	0.02	2.8	<0.1	<0.05	5	0.5
7150	Soil	6	22	0.66	136	0.134	2	1.21	0.017	0.20	<0.1	0.01	3.2	0.1	<0.05	7	<0.5
7151	Soil	6	77	1.56	230	0.173	2	2.10	0.018	0.31	<0.1	<0.01	5.7	0.1	<0.05	9	<0.5
7152	Soil	5	59	0.96	166	0.154	<1	1.46	0.019	0.14	<0.1	0.02	3.5	0.1	<0.05	8	<0.5
7153	Soil	8	30	0.80	228	0.089	2	1.32	0.025	0.11	0.2	0.05	4.2	0.1	0.05	5	<0.5
7154	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7155	Soil	8	25	0.64	159	0.096	2	1.37	0.018	0.12	0.1	0.04	2.9	0.1	<0.05	6	<0.5
7156	Soil	15	37	0.87	348	0.125	1	1.59	0.016	0.35	0.1	0.04	5.5	0.2	<0.05	6	<0.5
7157	Soil	8	31	0.80	185	0.108	2	1.51	0.019	0.18	0.1	0.05	4.3	0.1	<0.05	6	<0.5
7158	Soil	10	30	0.73	223	0.089	2	1.70	0.019	0.13	<0.1	0.07	4.8	0.1	<0.05	6	0.8
7159	Soil	7	23	0.86	225	0.112	2	1.56	0.023	0.18	0.1	0.03	3.9	0.1	0.08	6	<0.5
7160	Soil	8	21	0.57	243	0.078	1	1.23	0.019	0.10	0.1	0.05	3.3	0.1	0.07	5	0.9
7161	Soil	16	31	0.57	218	0.083	1	1.72	0.015	0.07	0.1	0.01	3.6	<0.1	<0.05	5	<0.5
7162	Soil	6	28	0.70	157	0.148	<1	1.49	0.016	0.19	<0.1	0.02	3.3	0.2	<0.05	6	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7163	Soil																							
7164	Soil																							
7165	Soil																							
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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5
7163	Soil	12	28	0.49	493	0.065	1	1.66	0.017	0.08	<0.1	0.03	3.8	0.1	<0.05	7	<0.5
7164	Soil	9	31	0.52	278	0.074	1	1.95	0.011	0.06	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
7165	Soil	9	32	0.57	256	0.067	<1	2.06	0.009	0.11	0.1	0.03	3.2	<0.1	<0.05	7	<0.5
7166	Soil	6	25	0.56	256	0.111	1	1.87	0.011	0.12	0.1	0.02	2.2	<0.1	<0.05	7	0.5
7167	Soil	8	22	0.52	187	0.084	<1	1.54	0.010	0.08	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5
7168	Soil	7	29	0.56	437	0.085	1	1.90	0.012	0.08	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5
7169	Soil	7	31	0.56	215	0.082	<1	2.09	0.011	0.08	0.2	0.02	2.8	<0.1	<0.05	6	<0.5
7170	Soil	7	21	0.32	142	0.071	2	1.32	0.010	0.06	<0.1	<0.01	2.1	<0.1	<0.05	7	<0.5
7171	Soil	7	29	0.68	235	0.087	1	1.97	0.011	0.08	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5
7172	Soil	5	25	0.83	245	0.145	1	1.86	0.017	0.25	0.1	<0.01	3.6	0.1	<0.05	8	<0.5
7173	Soil	8	29	0.54	158	0.075	2	1.64	0.012	0.04	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5
7174	Soil	5	25	1.16	174	0.181	2	2.49	0.019	0.11	<0.1	<0.01	5.2	0.2	<0.05	10	<0.5
7175	Soil	9	38	0.77	170	0.119	2	2.40	0.015	0.09	0.1	0.01	3.1	0.1	<0.05	5	0.6
7176	Soil	8	28	0.89	394	0.093	2	1.72	0.016	0.12	0.1	0.03	4.4	0.1	<0.05	6	<0.5
7177	Soil	17	35	0.91	620	0.119	2	2.53	0.016	0.20	<0.1	0.10	11.6	0.1	<0.05	7	1.2
7178	Soil	18	45	0.79	496	0.101	3	3.34	0.014	0.15	0.2	0.07	8.5	0.2	<0.05	9	1.0
7179	Soil	10	33	0.67	203	0.091	2	2.26	0.016	0.08	0.1	0.02	3.8	<0.1	<0.05	6	0.7
7180	Soil	7	15	0.16	183	0.046	3	0.85	0.016	0.06	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5
7181	Soil	11	25	0.51	180	0.089	2	1.55	0.016	0.10	0.1	0.02	3.2	0.1	<0.05	7	0.6
7182	Soil	14	29	0.57	269	0.076	3	1.70	0.010	0.08	0.2	0.02	3.8	<0.1	<0.05	7	<0.5
7183	Soil	30	32	0.78	529	0.099	3	1.87	0.017	0.10	0.1	0.05	6.3	0.1	<0.05	7	0.7
7184	Soil	11	35	0.65	408	0.088	2	1.98	0.017	0.07	0.1	0.02	3.8	0.1	<0.05	6	0.7
7185	Soil	10	30	0.39	199	0.071	2	1.70	0.010	0.06	0.1	0.03	2.7	0.1	<0.05	8	0.7
7186	Soil	17	43	1.18	438	0.154	2	2.29	0.015	0.29	0.1	0.02	4.7	0.2	<0.05	7	0.9
7187	Soil	10	28	0.82	280	0.134	2	1.86	0.013	0.19	0.1	0.02	5.3	0.1	<0.05	8	<0.5
7188	Soil	7	35	0.94	323	0.179	1	2.37	0.013	0.32	0.1	0.02	4.8	0.2	<0.05	10	<0.5
7189	Soil	8	13	0.19	591	0.024	2	0.69	0.025	0.05	<0.1	0.08	2.2	<0.1	0.12	2	1.3
7190	Soil	10	33	0.56	286	0.106	3	1.77	0.016	0.07	0.1	0.03	2.8	0.2	<0.05	9	<0.5
7191	Soil	6	19	0.29	196	0.082	1	1.22	0.024	0.06	<0.1	0.02	1.9	0.1	<0.05	6	<0.5
7192	Soil	10	43	0.95	197	0.103	2	2.59	0.010	0.14	<0.1	0.02	6.2	0.1	<0.05	9	0.7



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7193	Soil	1.7	28.6	10.3	47	<0.1	12.9	6.8	339	3.09	7.4	0.6	0.8	0.9	15	0.2	0.5	0.2	101	0.14	0.048
7194	Soil	0.7	14.4	8.2	27	0.1	8.1	3.4	122	1.29	2.9	0.6	0.6	0.5	16	0.1	0.2	0.1	40	0.15	0.029
7195	Soil	1.7	30.8	10.9	72	0.1	20.9	15.5	589	4.45	15.6	0.6	2.1	2.4	15	0.1	0.6	0.2	125	0.22	0.038
7196	Soil	0.6	25.3	3.0	21	0.2	9.5	5.1	250	1.08	1.0	0.5	1.6	0.3	50	0.3	0.2	<0.1	23	1.56	0.073
7197	Soil	1.3	18.7	9.3	60	0.3	24.3	8.4	262	2.64	3.3	0.5	1.1	1.9	15	0.3	0.4	0.2	100	0.17	0.032
7198	Soil	1.9	55.4	59.0	152	0.3	16.8	11.9	370	3.45	4.9	1.3	3.2	2.7	23	0.6	0.3	0.2	70	0.30	0.084
7199	Soil	1.1	60.5	25.4	97	0.2	24.3	21.0	492	3.42	4.8	0.9	3.1	2.1	28	0.2	0.3	0.1	94	0.44	0.107
7200	Soil	1.0	36.7	19.7	131	<0.1	32.8	17.8	811	4.07	5.7	0.7	1.4	3.2	28	0.3	0.3	0.1	95	0.40	0.117
7201	Soil	0.5	22.4	8.3	44	0.1	12.0	6.1	114	1.70	2.9	0.5	0.8	0.6	22	0.2	0.2	0.1	44	0.35	0.075
7202	Soil	0.6	25.8	11.1	55	0.1	12.9	7.3	141	2.08	2.9	0.7	2.2	0.6	24	0.2	0.2	0.1	53	0.35	0.065
7203	Soil	1.4	32.9	8.2	67	0.1	11.6	7.6	208	2.81	2.5	0.9	0.9	2.0	33	<0.1	0.2	0.1	73	0.44	0.080
7204	Soil	1.4	15.7	9.7	55	0.1	11.8	5.2	179	2.78	4.2	0.8	2.7	2.1	24	0.1	0.2	0.2	66	0.31	0.057
7205	Soil	1.1	22.2	9.6	57	0.1	13.5	6.1	190	2.63	4.1	1.0	2.9	1.9	24	<0.1	0.3	0.2	63	0.32	0.066
7206	Soil	1.0	25.7	8.8	60	<0.1	15.5	8.3	302	2.64	5.3	0.5	1.2	1.7	18	0.2	0.3	0.2	68	0.24	0.047
7207	Soil	0.8	23.8	8.4	36	0.2	11.6	5.8	140	2.01	3.6	0.9	0.8	1.5	12	0.2	0.2	0.2	56	0.13	0.034
7208	Soil	0.9	29.6	10.9	78	<0.1	21.2	14.6	500	3.98	5.0	0.7	3.1	2.8	17	0.2	0.3	0.2	104	0.36	0.052
7209	Soil	1.6	39.0	10.9	98	0.3	22.9	15.2	639	3.33	8.3	1.8	2.9	1.9	33	0.2	0.5	0.1	80	0.59	0.071
7210	Soil	1.3	31.3	11.8	82	0.1	17.2	20.2	1097	3.57	4.7	0.7	6.9	2.1	20	0.3	0.3	0.2	98	0.35	0.084
7211	Soil	1.5	23.0	14.0	70	0.2	17.2	19.6	1076	2.77	4.6	0.9	3.7	2.3	20	0.2	0.3	0.2	75	0.30	0.085
7212	Soil	0.9	35.6	10.4	95	0.1	30.9	18.8	700	3.42	6.2	1.0	5.8	3.2	31	0.2	0.3	0.1	80	0.60	0.104
7213	Soil	1.0	35.6	14.1	87	<0.1	21.7	12.1	458	2.77	4.9	0.6	2.7	2.3	22	0.3	0.3	0.1	67	0.37	0.084
7214	Soil	1.5	40.6	53.9	158	0.1	27.6	15.2	643	3.76	7.2	1.0	4.3	5.0	20	0.3	0.4	0.2	81	0.31	0.074
7215	Soil	1.8	77.0	22.3	120	0.7	50.6	16.7	324	3.77	6.5	2.9	4.9	5.2	34	0.7	0.4	0.3	78	0.50	0.100
7216	Soil	1.2	16.3	10.4	47	<0.1	14.0	8.9	313	2.40	5.8	0.5	1.3	2.1	20	0.1	0.4	0.2	63	0.20	0.033
7217	Soil	1.5	22.0	10.9	49	<0.1	19.1	7.8	278	3.17	9.5	0.7	0.9	1.9	18	0.2	0.5	0.2	77	0.18	0.034
7218	Soil	1.6	18.8	9.3	34	0.2	11.9	13.0	847	2.50	5.9	0.5	1.0	0.7	21	0.3	0.4	0.2	69	0.23	0.040
7219	Soil	1.6	53.7	8.3	85	0.3	20.8	16.6	850	4.27	10.8	1.2	1.6	2.8	22	0.1	0.3	0.1	111	0.59	0.055
7220	Soil	1.5	21.3	10.2	37	<0.1	11.5	5.9	152	2.35	8.6	0.5	2.0	1.2	19	0.1	0.5	0.2	77	0.22	0.023
7221	Soil	1.0	64.4	7.8	68	0.2	25.3	14.5	304	3.74	12.7	1.4	1.9	3.5	26	<0.1	0.5	0.1	94	0.47	0.058
7222	Soil	1.5	36.5	8.4	63	<0.1	18.0	8.3	271	2.82	8.3	0.6	2.2	1.4	21	0.1	0.3	0.2	89	0.31	0.048



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7193	Soil	10	25	0.52	191	0.114	2	1.38	0.013	0.17	0.1	0.03	3.7	0.2	<0.05	8	<0.5
7194	Soil	8	17	0.28	134	0.076	2	0.83	0.021	0.07	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5
7195	Soil	9	39	0.93	320	0.156	2	2.40	0.011	0.23	0.1	0.02	6.5	0.1	<0.05	8	0.6
7196	Soil	3	11	0.21	447	0.033	2	0.59	0.026	0.06	<0.1	0.05	1.6	<0.1	0.19	2	0.8
7197	Soil	7	43	0.90	280	0.228	3	1.43	0.015	0.38	<0.1	0.03	3.9	0.2	<0.05	11	0.5
7198	Soil	15	32	0.94	308	0.136	2	1.72	0.020	0.41	<0.1	0.04	3.5	0.2	0.12	6	0.9
7199	Soil	12	38	1.02	307	0.137	3	1.87	0.018	0.26	0.1	0.03	4.2	0.2	<0.05	7	0.6
7200	Soil	10	52	1.35	257	0.182	3	2.13	0.015	0.46	0.1	0.02	3.8	0.2	<0.05	9	<0.5
7201	Soil	8	33	0.49	147	0.069	2	1.19	0.018	0.06	0.1	0.05	2.5	0.1	<0.05	6	0.6
7202	Soil	9	33	0.62	181	0.082	2	1.41	0.021	0.07	<0.1	0.05	3.3	0.1	0.05	7	<0.5
7203	Soil	14	22	0.76	330	0.095	3	1.76	0.022	0.14	<0.1	0.04	6.1	0.1	0.10	6	1.9
7204	Soil	11	24	0.60	232	0.078	2	1.43	0.017	0.07	0.1	0.05	3.7	0.1	<0.05	6	1.3
7205	Soil	13	26	0.68	294	0.080	3	1.66	0.020	0.07	0.1	0.06	4.5	0.1	0.06	6	1.6
7206	Soil	8	26	0.57	220	0.085	2	1.57	0.022	0.08	0.2	0.04	3.6	<0.1	<0.05	7	<0.5
7207	Soil	10	24	0.46	130	0.077	<1	1.38	0.016	0.07	0.1	0.04	3.3	<0.1	<0.05	6	<0.5
7208	Soil	11	37	1.07	296	0.127	2	2.00	0.016	0.18	0.1	0.03	7.0	0.1	<0.05	8	<0.5
7209	Soil	15	36	0.96	467	0.100	1	1.73	0.022	0.13	0.1	0.07	6.0	0.1	<0.05	6	0.6
7210	Soil	10	35	0.84	292	0.116	<1	1.48	0.018	0.23	0.2	0.03	5.0	0.1	<0.05	6	0.6
7211	Soil	10	36	0.70	300	0.112	1	1.42	0.018	0.21	0.1	0.04	3.8	0.2	<0.05	6	<0.5
7212	Soil	14	50	1.29	391	0.156	2	2.02	0.022	0.44	0.1	0.04	4.8	0.2	<0.05	7	<0.5
7213	Soil	10	36	0.79	265	0.104	<1	1.35	0.019	0.18	<0.1	0.02	3.3	0.1	<0.05	5	<0.5
7214	Soil	14	46	0.98	205	0.151	1	2.06	0.017	0.23	0.1	0.03	4.5	0.2	<0.05	6	<0.5
7215	Soil	60	74	1.15	757	0.122	3	2.80	0.018	0.29	0.1	0.12	8.3	0.3	<0.05	8	1.3
7216	Soil	8	26	0.44	209	0.079	<1	1.53	0.016	0.07	0.1	0.02	2.4	0.1	<0.05	7	<0.5
7217	Soil	10	36	0.48	193	0.080	<1	1.72	0.012	0.07	0.1	0.02	3.1	0.1	<0.05	7	0.7
7218	Soil	7	24	0.35	246	0.080	<1	1.36	0.017	0.07	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5
7219	Soil	19	34	1.13	420	0.180	<1	2.34	0.014	0.38	0.1	0.04	6.9	0.3	<0.05	9	0.7
7220	Soil	9	26	0.35	179	0.102	<1	1.20	0.011	0.09	<0.1	<0.01	2.5	<0.1	<0.05	7	<0.5
7221	Soil	14	38	1.04	431	0.154	<1	2.14	0.015	0.26	<0.1	0.06	6.0	0.2	<0.05	7	0.9
7222	Soil	7	31	0.79	342	0.115	2	1.77	0.013	0.11	<0.1	0.02	4.1	<0.1	<0.05	8	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
7223	Soil	2.2	55.2	8.6	78	0.4	19.1	19.3	1295	4.12	14.4	1.1	1.3	2.6	23	0.1	0.5	0.1	105	0.41	0.068
7224	Soil	1.0	92.1	7.2	57	0.4	20.3	11.2	576	2.30	3.1	2.5	3.2	1.1	68	0.3	0.4	0.1	57	1.86	0.090
7225	Soil	1.6	57.8	10.7	77	<0.1	18.8	14.4	676	4.16	20.8	1.1	0.6	2.4	41	0.2	0.6	0.1	109	0.85	0.066
7226	Soil	1.2	58.2	8.1	49	0.2	24.2	12.8	1364	2.44	7.3	1.1	2.5	0.7	55	0.6	0.7	0.1	56	1.37	0.096
7227	Soil	1.3	43.9	8.5	60	0.2	19.6	11.3	562	2.85	7.5	2.4	1.1	1.2	60	0.2	1.2	0.1	64	1.78	0.087
7228	Soil	1.3	56.5	9.6	64	0.2	22.8	13.3	561	2.98	8.8	2.3	2.1	1.4	62	0.2	0.5	0.1	70	1.49	0.071
7229	Soil	0.9	36.9	8.1	55	0.1	20.1	11.2	440	2.82	7.1	1.1	2.4	1.6	45	0.2	0.3	0.1	65	0.97	0.070
7230	Soil	1.3	38.2	9.5	68	0.2	20.5	13.7	931	3.00	8.2	1.6	2.0	1.7	55	0.3	0.5	0.1	64	1.17	0.098
7231	Soil	1.2	51.3	9.1	79	0.3	18.7	16.0	399	3.27	5.9	1.3	4.7	2.4	31	0.1	0.2	0.1	70	0.49	0.050
7232	Soil	1.0	25.7	9.4	71	0.1	19.9	11.2	359	3.17	7.6	0.5	2.0	2.7	24	<0.1	0.3	0.2	76	0.37	0.041
7233	Soil	1.2	34.5	10.4	64	<0.1	23.5	12.9	338	3.60	10.0	0.7	5.0	3.5	18	0.1	0.5	0.2	84	0.24	0.037
7234	Soil	0.9	33.1	8.0	61	<0.1	17.3	12.7	294	3.57	6.5	0.4	1.8	1.9	18	<0.1	0.4	0.1	90	0.24	0.033
7235	Soil	1.4	37.6	9.6	61	<0.1	16.7	12.1	387	3.38	7.2	0.7	2.0	2.2	18	<0.1	0.4	0.2	91	0.23	0.040
7236	Soil	0.8	36.7	6.6	66	<0.1	17.6	15.1	409	3.36	5.0	0.4	7.6	2.3	20	<0.1	0.3	0.1	86	0.29	0.042
7237	Soil	0.6	36.7	7.0	58	0.1	19.1	14.7	436	3.27	5.1	0.7	1.6	2.7	26	<0.1	0.3	<0.1	80	0.47	0.051
7238	Soil	0.8	36.0	6.8	61	<0.1	21.3	14.4	369	3.60	6.7	0.4	1.3	2.1	21	<0.1	0.3	0.1	90	0.34	0.048
7239	Soil	0.7	39.2	6.9	46	0.1	16.8	9.0	200	2.54	5.0	0.7	1.3	2.6	19	<0.1	0.3	0.1	62	0.25	0.041
7240	Soil	0.8	35.3	8.3	47	0.1	20.0	16.3	623	2.95	6.2	0.9	1.4	2.3	23	<0.1	0.3	0.1	72	0.29	0.042
7241	Soil	0.8	25.2	6.2	53	<0.1	14.7	10.9	300	3.09	5.9	0.4	6.2	2.2	20	<0.1	0.5	<0.1	80	0.39	0.057
7242	Soil	0.6	31.9	3.7	62	<0.1	13.1	11.7	361	3.17	4.7	0.3	1.8	1.2	21	<0.1	0.2	<0.1	89	0.34	0.053
7243	Soil	1.2	23.2	5.4	38	0.1	11.2	7.5	292	2.45	5.2	0.4	1.8	1.3	23	0.1	0.3	0.1	72	0.27	0.021
7244	Soil	0.8	36.3	4.3	63	<0.1	12.8	12.3	417	3.88	4.7	0.4	<0.5	1.3	25	0.1	0.2	<0.1	114	0.28	0.046
7245	Soil	1.0	25.2	7.1	54	<0.1	18.5	9.7	312	3.55	9.8	0.3	0.7	2.0	14	<0.1	0.4	0.1	86	0.15	0.023
7246	Soil	0.7	22.2	5.7	56	0.1	11.6	8.7	292	2.81	5.3	0.3	2.2	1.2	23	<0.1	0.4	0.1	68	0.28	0.039
7247	Soil	0.9	12.1	6.5	39	0.1	10.0	5.4	291	2.29	4.0	0.3	0.6	0.8	20	0.2	0.3	0.1	68	0.32	0.033
7248	Soil	3.2	34.0	27.2	88	0.2	29.3	12.3	782	3.49	24.5	1.2	4.7	2.7	28	0.3	1.8	0.1	50	0.64	0.072
7249	Soil	1.4	25.9	8.9	58	0.2	16.6	9.3	504	3.35	6.9	0.5	2.3	2.2	18	<0.1	0.6	0.2	78	0.29	0.034
7250	Soil	1.4	25.2	9.7	69	<0.1	21.5	11.3	620	3.31	6.1	1.0	1.4	3.7	26	0.1	0.3	0.1	67	0.49	0.049
7251	Soil	1.1	31.3	7.6	48	0.1	19.7	11.0	624	2.90	11.3	1.2	3.5	4.2	28	0.1	0.4	0.2	57	0.60	0.058
7252	Soil	0.6	24.9	5.6	45	0.1	16.7	10.0	624	2.46	5.4	1.2	2.3	2.7	38	0.1	0.3	<0.1	52	1.20	0.060



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
7223	Soil	12	34	1.08	434	0.162	<1	2.16	0.011	0.21	0.1	0.03	6.1	0.2	<0.05	8
7224	Soil	16	29	1.03	678	0.081	1	1.66	0.025	0.19	<0.1	0.10	5.4	0.2	0.10	5
7225	Soil	12	32	0.88	463	0.132	2	1.90	0.017	0.28	0.1	0.02	7.0	0.2	<0.05	7
7226	Soil	10	26	0.49	483	0.053	1	1.46	0.022	0.06	<0.1	0.07	3.4	<0.1	0.10	4
7227	Soil	14	36	0.84	546	0.077	<1	1.64	0.022	0.12	<0.1	0.06	5.3	0.2	0.10	5
7228	Soil	12	34	1.00	521	0.091	1	1.92	0.022	0.13	<0.1	0.06	5.0	0.2	0.10	6
7229	Soil	12	29	0.66	370	0.092	2	1.53	0.018	0.12	0.1	0.04	4.1	0.1	<0.05	5
7230	Soil	18	27	0.62	483	0.073	1	1.63	0.019	0.15	0.1	0.07	4.8	0.1	0.07	5
7231	Soil	15	27	0.67	420	0.079	<1	1.87	0.015	0.11	<0.1	0.04	5.0	0.1	<0.05	5
7232	Soil	10	29	0.72	224	0.105	<1	1.88	0.015	0.09	0.1	0.02	3.5	0.1	<0.05	6
7233	Soil	11	35	0.73	239	0.102	<1	2.35	0.015	0.08	0.1	0.02	4.3	0.1	<0.05	7
7234	Soil	8	29	0.87	256	0.137	<1	2.17	0.012	0.13	0.1	0.02	3.2	<0.1	<0.05	7
7235	Soil	9	30	0.69	264	0.116	<1	2.08	0.014	0.12	<0.1	0.02	4.0	0.1	<0.05	8
7236	Soil	8	28	0.87	201	0.142	<1	1.97	0.017	0.20	0.1	0.02	3.9	0.1	<0.05	6
7237	Soil	10	31	0.82	401	0.124	<1	1.93	0.018	0.12	0.1	0.03	5.1	0.1	<0.05	6
7238	Soil	8	32	0.86	209	0.134	1	1.96	0.014	0.12	0.1	0.01	3.7	0.1	<0.05	6
7239	Soil	9	27	0.55	176	0.094	<1	1.78	0.018	0.09	0.1	0.03	4.3	0.1	<0.05	5
7240	Soil	13	31	0.58	357	0.080	<1	1.94	0.016	0.07	0.2	0.03	4.6	0.1	<0.05	6
7241	Soil	9	25	0.66	191	0.088	<1	1.49	0.015	0.08	0.1	0.02	3.9	<0.1	<0.05	5
7242	Soil	5	20	1.03	299	0.188	2	1.86	0.016	0.42	<0.1	<0.01	2.7	0.1	<0.05	6
7243	Soil	6	19	0.56	274	0.117	1	1.33	0.017	0.13	0.1	0.02	2.7	<0.1	<0.05	5
7244	Soil	5	20	0.93	248	0.148	1	2.00	0.024	0.27	<0.1	0.02	5.8	<0.1	<0.05	7
7245	Soil	7	29	0.69	248	0.119	1	2.08	0.012	0.16	0.2	0.02	3.3	0.1	<0.05	6
7246	Soil	5	18	0.57	371	0.090	2	1.44	0.015	0.13	0.1	0.02	2.9	<0.1	<0.05	5
7247	Soil	6	19	0.48	245	0.099	1	1.07	0.010	0.20	<0.1	0.02	2.1	<0.1	<0.05	6
7248	Soil	13	22	0.44	692	0.039	3	1.27	0.017	0.12	<0.1	0.04	5.4	<0.1	<0.05	3
7249	Soil	10	28	0.60	351	0.095	<1	1.76	0.013	0.07	<0.1	0.02	4.0	<0.1	<0.05	6
7250	Soil	18	33	0.70	424	0.077	2	1.92	0.019	0.09	<0.1	0.02	4.9	<0.1	<0.05	6
7251	Soil	22	30	0.67	516	0.071	2	1.68	0.019	0.07	0.1	0.02	4.5	0.1	<0.05	5
7252	Soil	16	26	0.57	447	0.093	2	1.38	0.019	0.17	0.1	0.03	4.1	<0.1	<0.05	4



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Report Date: August 12, 2009

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7253	Soil	0.7	22.2	5.4	46	<0.1	12.7	10.3	320	2.48	4.0	0.4	0.9	1.6	20	<0.1	0.3	0.1	67	0.34	0.044
7254	Soil	0.6	20.6	4.5	43	<0.1	11.1	8.3	220	2.23	3.8	0.4	4.3	1.7	20	<0.1	0.2	<0.1	59	0.34	0.039
7255	Soil	0.5	25.8	5.4	44	0.1	13.8	8.3	212	2.27	3.6	0.7	1.3	2.1	21	0.2	0.3	0.1	55	0.32	0.046
7256	Soil	0.6	19.6	5.3	49	0.1	14.4	8.1	216	2.32	4.6	0.6	3.7	2.3	26	0.2	0.2	0.1	59	0.39	0.035
7257	Soil	0.7	28.4	4.5	50	<0.1	13.9	10.6	303	2.69	3.4	0.7	1.0	2.3	23	0.1	0.3	0.1	67	0.35	0.046
7258	Soil	1.5	33.3	8.9	57	0.4	18.4	9.7	344	3.19	6.7	0.8	2.8	2.1	26	0.2	0.3	0.3	72	0.38	0.051
7259	Soil	0.9	43.7	7.4	42	0.3	15.1	6.9	182	2.14	3.8	1.3	5.3	1.5	28	0.2	0.3	0.2	41	0.32	0.078
7260	Soil	0.7	16.5	4.8	39	0.1	12.4	5.2	144	1.88	3.7	0.5	11.4	1.5	20	0.2	0.4	0.1	41	0.24	0.031
7261	Soil	0.9	24.2	7.3	56	0.1	17.1	7.3	273	2.72	6.6	0.7	3.0	2.2	32	0.2	0.4	0.2	60	0.44	0.036
7262	Soil	0.9	25.9	7.5	51	0.2	16.1	8.0	252	2.70	6.3	1.0	8.3	2.3	31	0.3	0.3	0.2	52	0.36	0.045
7263	Soil	0.8	16.9	7.1	38	0.1	12.9	6.1	302	2.03	4.9	0.4	2.5	1.0	26	0.3	0.3	0.2	45	0.34	0.045
7264	Soil	1.0	19.1	7.7	67	<0.1	15.3	7.0	445	2.43	4.4	0.5	1.6	1.0	28	0.2	0.3	0.2	55	0.38	0.048
7265	Soil	0.9	23.4	8.5	63	<0.1	16.7	10.3	350	2.77	4.9	0.7	1.8	1.9	30	0.1	0.3	0.2	59	0.40	0.037
7266	Soil	1.2	25.8	8.2	46	0.1	15.4	10.6	372	2.33	4.7	0.8	4.7	1.4	27	<0.1	0.2	0.2	56	0.36	0.041
7267	Soil	0.8	20.6	8.0	41	<0.1	12.9	7.1	194	1.95	4.2	0.5	30.9	1.1	20	<0.1	0.2	0.1	48	0.29	0.040
7268	Soil	0.8	17.6	8.0	45	<0.1	12.4	5.6	161	2.14	4.3	0.4	1.3	1.7	16	<0.1	0.2	0.2	49	0.21	0.021
7269	Soil	0.7	33.6	8.0	45	0.2	14.4	6.4	143	2.32	4.9	0.8	2.2	1.2	22	0.2	0.2	0.2	45	0.28	0.047
7270	Soil	1.1	33.3	9.2	51	0.2	16.4	9.1	251	2.50	6.0	1.0	3.6	1.0	38	0.2	0.3	0.2	54	0.71	0.052
7271	Soil	0.9	21.3	7.9	47	0.1	13.5	6.2	148	2.21	4.0	0.7	1.9	1.4	30	0.2	0.2	0.1	49	0.55	0.045
7272	Soil	1.2	25.6	7.5	54	0.2	15.8	9.3	312	2.47	4.7	0.8	3.9	1.4	47	0.1	0.3	0.2	53	0.80	0.050
7273	Soil	1.0	21.8	5.9	48	0.1	13.6	7.5	194	2.24	4.2	0.6	1.9	1.4	32	0.1	0.2	0.2	54	0.49	0.038
7274	Soil	0.7	13.8	6.0	40	<0.1	10.4	6.5	225	1.99	3.5	0.5	1.0	1.4	25	0.1	0.2	0.1	46	0.32	0.039
7275	Soil	0.7	21.8	6.7	47	0.1	15.0	7.5	196	2.49	4.7	0.7	4.0	1.4	25	<0.1	0.3	0.1	53	0.30	0.049
7276	Soil	0.9	15.6	7.3	51	<0.1	15.7	10.6	372	2.61	6.2	0.5	8.6	2.1	19	0.2	0.3	0.1	62	0.26	0.042
7277	Soil	0.8	23.7	6.7	55	0.1	12.6	8.9	266	2.54	4.8	0.5	10.1	1.3	23	<0.1	0.3	0.1	66	0.37	0.038
7278	Soil	0.9	30.7	5.9	55	0.1	15.4	19.4	490	3.01	3.3	0.5	1.2	0.9	30	<0.1	0.3	0.1	80	0.44	0.056
7279	Soil	0.7	37.9	4.0	42	<0.1	6.7	4.9	124	2.04	2.6	0.4	4.9	0.8	21	0.2	0.2	0.2	65	0.22	0.030
7280	Soil	0.9	32.5	6.4	81	<0.1	10.4	7.8	285	2.88	4.2	0.4	2.3	1.3	17	0.4	0.2	0.1	78	0.24	0.033
7281	Soil	0.8	29.6	6.4	64	0.2	13.8	12.0	428	3.04	6.4	0.8	5.6	1.6	26	<0.1	0.2	0.1	72	0.37	0.048
7282	Soil	1.4	20.6	8.0	82	0.2	14.7	9.0	396	3.05	12.0	0.7	4.6	2.0	23	0.3	0.3	0.2	65	0.30	0.033



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7253	Soil	7	21	0.56	161	0.081	2	1.39	0.019	0.07	0.1	0.02	3.2	<0.1	<0.05	5	<0.5
7254	Soil	7	19	0.52	189	0.081	1	1.39	0.021	0.09	0.1	0.02	3.1	<0.1	<0.05	5	<0.5
7255	Soil	9	22	0.51	225	0.075	1	1.42	0.022	0.08	0.1	0.03	4.1	<0.1	<0.05	5	<0.5
7256	Soil	8	24	0.51	212	0.080	2	1.62	0.021	0.09	0.1	0.02	4.2	<0.1	<0.05	5	0.5
7257	Soil	12	24	0.59	273	0.092	2	1.59	0.017	0.15	0.1	0.02	5.4	<0.1	<0.05	5	<0.5
7258	Soil	11	31	0.55	300	0.081	2	2.26	0.018	0.11	0.1	0.05	5.3	<0.1	<0.05	7	<0.5
7259	Soil	23	22	0.32	403	0.055	2	1.55	0.015	0.09	0.1	0.05	4.0	<0.1	<0.05	5	0.5
7260	Soil	8	22	0.37	199	0.074	2	1.17	0.020	0.07	0.1	0.11	3.0	<0.1	<0.05	4	<0.5
7261	Soil	12	30	0.51	450	0.071	1	2.06	0.017	0.06	0.1	0.03	4.7	<0.1	<0.05	6	<0.5
7262	Soil	19	28	0.49	561	0.070	2	2.04	0.018	0.08	0.1	0.04	6.1	<0.1	<0.05	6	<0.5
7263	Soil	7	22	0.40	273	0.057	1	1.34	0.015	0.08	0.1	0.04	2.8	<0.1	<0.05	5	<0.5
7264	Soil	9	25	0.55	293	0.084	2	1.74	0.019	0.11	0.1	0.03	3.6	<0.1	<0.05	7	0.9
7265	Soil	11	30	0.64	313	0.095	1	2.08	0.020	0.10	0.1	0.03	4.5	<0.1	<0.05	7	<0.5
7266	Soil	9	30	0.51	197	0.083	1	1.56	0.019	0.06	0.1	0.04	3.6	<0.1	<0.05	6	<0.5
7267	Soil	7	27	0.51	135	0.072	1	1.37	0.017	0.05	0.1	0.03	2.7	<0.1	<0.05	4	0.7
7268	Soil	7	24	0.51	95	0.104	2	1.43	0.016	0.08	<0.1	0.02	3.0	<0.1	<0.05	7	<0.5
7269	Soil	9	26	0.52	205	0.075	<1	1.59	0.021	0.07	0.1	0.06	3.4	<0.1	<0.05	6	<0.5
7270	Soil	11	29	0.53	296	0.067	1	1.79	0.021	0.07	0.1	0.06	4.0	<0.1	0.07	7	0.8
7271	Soil	10	23	0.49	268	0.070	1	1.52	0.018	0.07	0.1	0.04	3.6	<0.1	<0.05	6	<0.5
7272	Soil	9	28	0.55	390	0.084	2	1.85	0.024	0.09	0.2	0.06	4.7	<0.1	0.05	6	0.5
7273	Soil	8	28	0.57	296	0.081	<1	1.61	0.020	0.07	<0.1	0.05	4.2	<0.1	<0.05	5	<0.5
7274	Soil	7	20	0.52	196	0.084	2	1.43	0.018	0.05	0.1	0.04	3.2	<0.1	<0.05	5	0.5
7275	Soil	9	29	0.54	245	0.087	2	1.85	0.018	0.06	0.1	0.04	4.1	0.1	<0.05	6	<0.5
7276	Soil	8	28	0.52	160	0.102	1	1.67	0.015	0.07	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
7277	Soil	6	23	0.55	204	0.087	2	1.51	0.020	0.08	0.1	0.02	3.5	<0.1	<0.05	6	<0.5
7278	Soil	6	31	0.88	365	0.091	4	1.90	0.028	0.07	0.2	0.03	5.5	0.1	0.07	8	1.1
7279	Soil	5	18	0.42	157	0.072	2	1.15	0.024	0.09	<0.1	0.04	3.3	<0.1	<0.05	6	0.8
7280	Soil	6	19	0.59	178	0.082	2	1.49	0.017	0.11	0.1	0.03	3.7	<0.1	<0.05	6	<0.5
7281	Soil	11	23	0.83	435	0.091	3	1.83	0.017	0.15	<0.1	0.05	5.1	<0.1	<0.05	6	<0.5
7282	Soil	13	24	0.63	463	0.087	2	1.75	0.018	0.13	0.1	0.03	3.7	0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
7283	Soil	1.1	30.0	7.4	82	0.4	15.4	7.7	254	2.83	8.6	1.3	6.0	1.4	28	<0.1	0.2	0.2	56	0.36
7284	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7285	Soil	1.4	28.5	6.3	82	0.2	13.6	9.1	441	2.85	7.9	0.7	1.6	1.1	23	0.3	0.3	0.2	64	0.31
7286	Soil	1.0	26.3	6.6	93	<0.1	13.0	10.3	440	2.84	9.4	0.6	5.8	2.3	19	0.2	0.2	0.1	64	0.31
7287	Soil	1.2	30.4	7.8	70	0.2	14.3	14.9	1727	2.20	5.2	0.9	1.7	0.7	34	0.9	0.2	0.1	48	0.48
7288	Soil	1.6	32.5	7.6	86	0.3	17.6	8.6	336	3.05	8.8	1.5	4.8	1.5	35	0.2	0.3	0.1	63	0.63
7289	Soil	1.6	30.5	7.7	71	0.2	18.6	11.5	789	3.20	9.3	1.4	8.5	1.5	30	0.1	0.3	0.2	66	0.44
7290	Soil	1.5	29.6	8.0	71	0.2	19.2	10.5	618	3.00	7.3	1.4	4.6	1.5	31	0.2	0.3	0.2	64	0.44
7291	Soil	1.6	27.6	7.3	67	0.2	17.0	8.2	469	2.61	8.7	1.1	6.2	1.4	35	0.4	0.3	0.2	56	0.57
7292	Soil	2.1	38.4	9.8	82	0.6	25.6	25.5	2537	4.30	10.8	1.6	12.0	1.7	30	0.2	0.5	0.2	79	0.40
7293	Soil	0.9	20.3	6.8	53	0.1	14.0	5.3	172	2.26	6.0	0.6	2.0	0.6	18	0.1	0.3	0.1	50	0.21
7294	Soil	0.6	29.2	6.9	61	<0.1	21.5	9.3	241	2.69	6.0	0.7	4.4	2.5	22	<0.1	0.4	0.1	57	0.30
7295	Soil	1.3	27.1	8.0	72	<0.1	15.8	10.6	419	3.24	8.3	0.7	2.9	2.1	17	0.2	0.4	0.2	71	0.21
7296	Soil	1.1	32.1	7.7	66	0.2	14.8	6.8	281	2.53	6.1	0.8	3.5	0.4	24	0.3	0.3	0.2	51	0.26
7297	Soil	1.0	25.2	9.0	67	<0.1	17.4	9.2	358	3.14	8.5	0.5	1.3	1.8	18	0.1	0.4	0.1	70	0.21
7298	Soil	1.4	26.9	8.3	62	0.2	15.0	16.5	793	3.25	7.7	0.6	2.5	1.2	16	0.1	0.4	0.1	74	0.17
7299	Soil	0.8	38.2	6.2	73	<0.1	18.4	15.6	622	3.58	7.1	0.6	3.4	2.3	16	<0.1	0.3	0.1	87	0.24
7300	Soil	1.0	27.7	7.1	59	0.2	14.8	12.2	727	2.97	6.7	0.8	2.2	0.6	18	0.1	0.3	0.1	70	0.23
7301	Soil	0.8	19.1	6.8	52	<0.1	15.6	7.2	292	2.74	7.3	0.5	0.8	1.2	16	0.1	0.4	0.1	69	0.20
7302	Soil	0.8	19.2	7.9	54	<0.1	17.0	8.6	346	3.00	9.0	0.5	4.3	2.1	15	<0.1	0.4	0.2	72	0.19
7303	Soil	1.0	24.8	8.7	54	<0.1	16.8	10.5	343	2.92	8.7	0.6	1.5	1.2	17	0.1	0.4	0.1	71	0.22
7304	Soil	0.7	20.7	6.9	50	<0.1	15.9	8.2	263	2.77	6.8	0.5	0.9	2.0	16	<0.1	0.3	0.1	77	0.19
7305	Soil	0.6	26.5	6.5	56	<0.1	21.1	12.0	403	3.21	7.3	0.6	3.2	2.8	17	<0.1	0.3	0.1	74	0.22
7306	Soil	0.9	13.9	7.7	46	<0.1	13.0	6.9	221	2.91	8.0	0.4	2.4	1.4	18	0.1	0.4	0.2	77	0.17
7307	Soil	0.7	15.6	7.4	56	<0.1	11.6	9.3	357	3.66	6.4	0.3	3.3	1.2	18	0.2	0.4	0.1	80	0.20
7308	Soil	1.1	14.4	8.1	51	<0.1	15.3	8.0	298	3.23	8.8	0.4	4.5	1.7	16	0.1	0.4	0.2	76	0.16
7309	Soil	1.1	16.8	9.4	49	<0.1	17.1	8.4	254	3.23	9.2	0.6	3.0	2.0	18	0.1	0.4	0.2	77	0.18
7310	Soil	1.1	20.5	7.7	46	<0.1	13.4	7.4	274	3.05	8.4	0.4	1.2	1.3	15	0.1	0.4	0.3	67	0.16
7311	Soil	0.8	11.6	8.0	41	<0.1	17.7	8.0	195	2.74	7.6	0.5	0.6	2.4	18	0.2	0.4	0.1	62	0.18
7312	Soil	0.6	23.3	6.9	63	<0.1	21.3	10.2	305	3.05	7.0	0.4	3.1	2.5	19	0.2	0.4	0.1	61	0.24



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CERTIFICATE OF ANALYSIS

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
7283	Soil	16	25	0.60	594	0.064	4	1.86	0.015	0.12	0.1	0.06	4.9	<0.1	<0.05	6	<0.5
7284	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7285	Soil	10	23	0.63	417	0.076	3	1.66	0.014	0.12	0.1	0.03	3.5	<0.1	<0.05	6	<0.5
7286	Soil	10	24	0.69	352	0.105	1	1.53	0.014	0.20	0.2	0.01	3.6	0.1	<0.05	5	<0.5
7287	Soil	20	21	0.48	620	0.053	3	1.39	0.020	0.11	0.1	0.06	3.1	<0.1	0.07	5	<0.5
7288	Soil	17	25	0.62	480	0.071	3	1.76	0.020	0.10	0.1	0.05	5.1	<0.1	0.05	6	<0.5
7289	Soil	27	27	0.62	529	0.062	3	1.90	0.020	0.08	0.1	0.07	5.2	0.1	0.05	6	<0.5
7290	Soil	28	30	0.61	448	0.058	2	1.87	0.018	0.10	0.1	0.06	4.5	0.1	<0.05	6	0.5
7291	Soil	17	26	0.57	483	0.052	2	1.59	0.018	0.10	0.1	0.07	4.2	0.1	<0.05	6	0.8
7292	Soil	13	44	0.79	544	0.055	4	2.70	0.019	0.15	0.1	0.13	6.8	0.2	0.06	8	0.7
7293	Soil	8	25	0.50	233	0.065	2	1.53	0.017	0.07	0.1	0.03	2.8	0.1	<0.05	5	<0.5
7294	Soil	15	33	0.60	250	0.093	3	1.89	0.016	0.07	0.1	0.02	4.9	<0.1	<0.05	6	<0.5
7295	Soil	11	31	0.64	247	0.089	2	2.09	0.012	0.10	0.1	0.03	4.4	0.1	<0.05	7	0.5
7296	Soil	9	26	0.50	281	0.051	2	1.62	0.020	0.12	<0.1	0.06	2.9	0.1	<0.05	6	<0.5
7297	Soil	9	29	0.61	192	0.090	2	1.79	0.016	0.09	0.1	0.02	3.8	<0.1	<0.05	6	<0.5
7298	Soil	8	27	0.55	170	0.078	1	1.71	0.019	0.07	<0.1	0.02	3.6	0.1	<0.05	7	<0.5
7299	Soil	10	33	0.73	247	0.100	2	2.25	0.024	0.09	<0.1	0.02	6.8	0.1	<0.05	7	<0.5
7300	Soil	9	26	0.56	262	0.058	2	1.74	0.019	0.09	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5
7301	Soil	9	27	0.55	166	0.080	3	1.71	0.016	0.06	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5
7302	Soil	10	32	0.56	167	0.091	3	1.88	0.015	0.06	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
7303	Soil	10	30	0.58	176	0.070	2	2.10	0.016	0.05	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5
7304	Soil	9	34	0.66	149	0.093	2	1.97	0.014	0.05	<0.1	0.01	4.8	0.1	<0.05	6	<0.5
7305	Soil	11	35	0.70	213	0.105	2	2.28	0.018	0.06	0.1	0.03	5.3	<0.1	<0.05	6	<0.5
7306	Soil	10	27	0.53	167	0.093	1	1.68	0.012	0.06	<0.1	0.01	3.0	<0.1	<0.05	8	<0.5
7307	Soil	6	24	0.70	127	0.129	2	2.03	0.017	0.07	0.1	<0.01	3.7	<0.1	<0.05	8	0.6
7308	Soil	9	31	0.60	142	0.100	3	1.96	0.013	0.06	0.1	0.02	3.5	<0.1	<0.05	8	<0.5
7309	Soil	10	32	0.53	201	0.088	1	2.23	0.013	0.06	<0.1	0.02	3.7	<0.1	<0.05	7	0.6
7310	Soil	7	28	0.54	106	0.094	1	1.65	0.012	0.08	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5
7311	Soil	9	32	0.52	156	0.084	1	2.28	0.015	0.05	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
7312	Soil	8	33	0.64	162	0.113	2	2.46	0.015	0.10	0.1	0.02	4.2	<0.1	<0.05	6	<0.5



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7313	Soil	1.7	13.3	10.1	52	<0.1	9.4	7.5	592	2.48	5.6	0.4	0.7	1.1	13	0.2	0.4	0.2	68	0.11	0.031	
7314	Soil	1.4	17.8	8.8	61	0.1	15.4	8.4	344	3.26	9.0	0.4	1.0	2.0	14	0.1	0.5	0.2	78	0.14	0.032	
7315	Soil	1.4	13.3	9.1	49	<0.1	15.5	8.4	338	3.07	9.5	0.4	0.9	2.0	13	0.2	0.5	0.2	69	0.12	0.031	
7316	Soil	1.1	18.5	9.0	62	0.2	13.1	8.7	296	3.40	6.8	0.4	0.9	1.5	15	0.3	0.5	0.2	65	0.15	0.036	
7317	Soil	0.5	37.0	14.2	58	<0.1	23.9	9.1	279	2.51	5.6	0.6	2.2	2.4	16	0.2	0.3	0.2	56	0.21	0.035	
7318	Soil	1.0	20.1	10.1	50	0.1	17.8	8.0	278	3.26	8.6	0.4	1.3	1.9	19	<0.1	0.5	0.2	74	0.20	0.028	
7319	Soil	1.6	13.6	8.0	47	0.1	13.2	6.2	226	2.64	8.8	0.3	1.9	1.0	27	0.2	0.4	0.2	74	0.27	0.034	
7320	Soil	0.9	19.7	9.2	49	<0.1	16.6	8.0	253	2.88	8.4	0.4	0.9	1.4	18	<0.1	0.4	0.2	66	0.21	0.030	
7321	Soil	1.2	16.5	7.8	54	<0.1	16.1	6.9	278	3.02	9.1	0.5	<0.5	2.3	19	0.1	0.5	0.2	65	0.19	0.026	
7322	Soil	0.8	49.8	8.0	42	0.1	17.4	7.4	245	2.43	5.5	1.2	1.9	1.4	24	<0.1	0.4	0.2	58	0.23	0.029	
7323	Soil	1.3	25.8	8.6	43	0.1	18.5	9.1	303	3.18	9.0	0.3	<0.5	1.6	14	0.2	0.5	0.2	71	0.16	0.026	
7324	Soil	1.1	14.7	8.4	49	<0.1	22.1	9.3	299	3.48	11.8	0.4	0.7	2.2	15	0.1	0.6	0.1	70	0.15	0.038	
7325	Soil	1.3	14.6	8.1	42	<0.1	12.1	5.4	263	2.96	9.3	0.3	1.0	1.0	13	0.2	0.6	0.2	83	0.12	0.045	
7326	Soil	1.6	15.6	9.7	57	<0.1	16.9	7.3	233	3.19	10.7	0.5	1.5	2.0	13	0.2	0.6	0.2	75	0.13	0.045	
7327	Soil	1.3	14.4	6.7	43	0.2	10.0	7.5	989	2.18	5.8	0.4	<0.5	0.8	31	0.1	0.4	0.2	59	0.31	0.041	
7328	Soil	1.0	32.4	8.6	57	0.5	19.5	8.0	404	2.86	8.0	1.1	0.9	2.9	21	0.2	0.6	0.2	65	0.20	0.036	
7329	Soil	1.2	16.0	8.2	41	<0.1	12.8	8.3	366	2.31	6.6	0.5	0.6	1.8	23	0.2	0.4	0.2	59	0.20	0.030	
7330	Soil	1.0	18.6	8.3	27	0.1	6.3	2.7	130	1.48	2.7	0.6	<0.5	1.0	16	<0.1	0.3	0.2	42	0.15	0.020	
7331	Soil	1.3	13.4	9.0	48	<0.1	14.9	6.6	308	2.54	7.2	0.5	1.5	2.1	18	0.1	0.3	0.3	68	0.20	0.046	
7332	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
7333	Soil	1.0	17.5	7.3	48	<0.1	18.3	8.6	385	2.68	6.7	0.6	7.5	3.0	26	0.2	0.4	0.1	59	0.30	0.043	
7334	Soil	0.9	28.5	8.3	46	<0.1	15.5	10.4	455	2.75	6.7	0.3	0.6	0.9	23	0.2	0.5	0.1	74	0.31	0.042	
7335	Soil	0.7	20.3	7.0	39	<0.1	14.2	11.8	409	2.07	4.9	0.5	<0.5	1.1	23	0.1	0.3	0.1	57	0.30	0.030	
7336	Soil	0.6	32.1	6.0	45	0.1	20.4	9.9	317	2.47	5.9	0.7	2.4	2.1	27	<0.1	0.4	0.1	62	0.53	0.045	
7337	Soil	1.1	29.2	4.2	42	0.1	16.6	10.2	559	2.07	3.5	0.9	2.7	0.6	62	0.5	0.5	<0.1	41	2.11	0.065	
7338	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
7339	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
7340	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
7341	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
7342	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
7313	Soil	8	24	0.30	166	0.068	<1	1.37	0.015	0.04	<0.1	0.01	2.2	0.1	<0.05	7
7314	Soil	9	32	0.52	223	0.075	1	1.97	0.012	0.06	<0.1	0.02	3.1	<0.1	<0.05	7
7315	Soil	7	31	0.40	136	0.057	<1	1.94	0.014	0.04	0.2	0.03	2.5	<0.1	<0.05	7
7316	Soil	6	24	0.49	191	0.075	<1	1.84	0.013	0.08	0.1	0.02	2.7	<0.1	<0.05	8
7317	Soil	9	43	0.80	177	0.092	<1	1.79	0.016	0.08	0.1	0.02	4.1	<0.1	<0.05	5
7318	Soil	7	32	0.57	177	0.087	<1	2.00	0.014	0.06	0.2	0.03	3.1	<0.1	<0.05	7
7319	Soil	6	27	0.54	283	0.081	<1	1.39	0.012	0.08	0.2	0.02	2.3	<0.1	<0.05	7
7320	Soil	7	32	0.57	177	0.081	<1	2.04	0.020	0.05	0.1	0.04	3.1	<0.1	<0.05	7
7321	Soil	11	28	0.57	276	0.079	<1	1.88	0.012	0.07	0.2	0.03	3.3	<0.1	<0.05	7
7322	Soil	19	32	0.53	297	0.061	<1	1.89	0.019	0.06	<0.1	0.05	6.5	0.1	<0.05	6
7323	Soil	6	34	0.52	118	0.072	<1	1.88	0.016	0.04	0.1	0.02	2.6	<0.1	<0.05	6
7324	Soil	8	36	0.55	157	0.077	<1	2.26	0.013	0.05	0.2	0.02	3.2	<0.1	<0.05	6
7325	Soil	7	25	0.34	122	0.085	<1	1.46	0.014	0.04	0.1	0.02	2.2	<0.1	<0.05	8
7326	Soil	9	33	0.46	167	0.056	<1	2.24	0.012	0.05	0.2	0.03	2.7	<0.1	<0.05	7
7327	Soil	9	18	0.27	391	0.061	<1	1.10	0.014	0.05	0.2	0.03	2.1	<0.1	<0.05	7
7328	Soil	21	31	0.55	423	0.066	<1	2.20	0.019	0.08	0.1	0.05	4.7	<0.1	<0.05	7
7329	Soil	8	23	0.40	245	0.075	<1	1.49	0.015	0.06	0.1	0.02	3.2	<0.1	<0.05	6
7330	Soil	13	14	0.22	185	0.065	<1	0.97	0.014	0.06	<0.1	0.02	2.3	<0.1	<0.05	6
7331	Soil	11	27	0.44	198	0.077	<1	1.73	0.015	0.06	0.1	0.02	3.4	<0.1	<0.05	8
7332	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7333	Soil	13	28	0.55	365	0.083	<1	1.77	0.017	0.12	0.1	0.02	3.4	<0.1	<0.05	6
7334	Soil	8	26	0.49	232	0.061	<1	1.75	0.019	0.05	<0.1	0.02	3.4	<0.1	<0.05	6
7335	Soil	9	22	0.46	219	0.065	<1	1.42	0.018	0.06	0.1	0.02	2.7	<0.1	<0.05	5
7336	Soil	11	28	0.58	314	0.068	<1	1.60	0.024	0.04	0.1	0.03	4.9	<0.1	<0.05	4
7337	Soil	7	17	0.49	672	0.026	3	1.15	0.026	0.04	<0.1	0.05	4.8	<0.1	0.09	3
7338	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7339	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7340	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7341	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7342	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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Project: Ballarat
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CERTIFICATE OF ANALYSIS

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
7343	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7344	Soil	2.0	50.8	22.6	92	0.2	16.5	28.6	426	3.63	6.6	0.6	26.8	1.5	18	0.1	0.6	0.1	67	0.18
7345	Soil	0.7	32.5	5.0	45	0.1	12.5	6.6	151	3.73	5.2	0.6	3.1	0.7	38	0.2	0.2	<0.1	80	0.38
7346	Soil	0.8	29.5	10.5	69	<0.1	17.6	10.7	315	3.01	5.7	0.7	11.0	2.1	19	0.1	0.3	0.1	67	0.28
7347	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7348	Soil	1.2	20.7	15.7	66	0.1	12.7	7.5	244	2.34	5.7	0.6	7.7	1.2	21	0.1	0.2	0.2	61	0.27
7349	Soil	0.4	19.8	5.5	38	0.1	8.2	4.9	291	1.62	2.3	0.6	2.5	1.0	27	0.2	0.2	0.1	30	0.45
7350	Soil	0.5	16.0	9.7	41	0.2	10.5	3.6	106	1.38	1.6	0.6	5.9	0.7	25	0.1	0.2	0.1	27	0.34
7351	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7352	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7353	Soil	1.2	33.1	7.5	68	0.1	17.3	17.7	454	3.19	5.4	0.6	3.3	1.7	30	0.2	0.4	0.2	75	0.36
7354	Soil	1.3	31.3	18.6	71	0.1	12.3	18.4	687	2.72	5.1	0.6	10.6	1.0	21	0.3	0.3	0.1	63	0.24
7355	Soil	2.0	47.5	10.0	109	<0.1	38.2	36.7	932	5.43	5.2	0.5	39.8	2.0	18	0.3	0.3	<0.1	105	0.31
7356	Soil	1.1	49.7	8.1	87	0.1	22.5	25.4	797	3.46	5.3	1.1	8.4	2.9	22	0.3	1.1	0.1	78	0.31
7357	Soil	0.8	29.1	6.5	48	0.1	13.0	8.3	234	2.22	4.1	0.6	4.0	0.7	16	0.2	0.3	0.1	58	0.20
7358	Soil	0.7	22.9	7.2	55	<0.1	21.3	11.2	382	3.06	8.2	0.5	10.1	2.8	18	0.2	0.9	0.1	68	0.23
7359	Soil	0.9	41.9	5.9	63	<0.1	17.0	16.9	550	3.29	4.8	0.4	1.6	1.8	14	0.1	0.4	<0.1	83	0.30
7360	Soil	1.1	28.2	7.2	63	<0.1	14.9	15.1	540	3.21	6.4	0.4	1.8	1.5	16	0.1	0.3	0.1	80	0.26



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CERTIFICATE OF ANALYSIS

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
7343	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7344	Soil	8	24	0.56	160	0.075	<1	1.30	0.017	0.16	0.1	0.07	3.7	<0.1	<0.05	5
7345	Soil	8	24	0.56	215	0.098	<1	1.43	0.031	0.07	0.1	0.04	3.2	<0.1	0.09	5
7346	Soil	11	31	0.67	171	0.097	2	1.75	0.018	0.09	0.1	0.04	4.2	<0.1	<0.05	6
7347	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7348	Soil	9	27	0.58	193	0.089	1	1.37	0.019	0.09	0.1	0.04	3.4	0.1	0.06	6
7349	Soil	7	20	0.46	233	0.061	1	1.02	0.023	0.08	<0.1	0.05	3.2	<0.1	0.12	5
7350	Soil	8	24	0.43	179	0.060	<1	1.11	0.020	0.07	0.1	0.08	2.9	0.1	0.08	5
7351	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7352	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7353	Soil	10	37	0.69	233	0.072	<1	1.63	0.021	0.07	0.1	0.05	5.4	<0.1	<0.05	6
7354	Soil	9	23	0.49	149	0.071	<1	1.21	0.019	0.08	0.1	0.03	2.9	<0.1	<0.05	5
7355	Soil	8	77	1.37	287	0.111	<1	2.26	0.021	0.36	0.1	0.04	9.0	0.1	<0.05	7
7356	Soil	15	40	0.80	288	0.101	2	1.92	0.026	0.14	0.1	0.05	6.2	<0.1	<0.05	6
7357	Soil	8	29	0.57	174	0.075	1	1.43	0.020	0.09	<0.1	0.06	2.9	<0.1	<0.05	6
7358	Soil	8	38	0.61	128	0.093	<1	1.93	0.017	0.06	0.2	0.03	3.2	<0.1	<0.05	5
7359	Soil	7	32	0.73	198	0.107	<1	1.77	0.026	0.18	<0.1	0.01	3.8	<0.1	<0.05	6
7360	Soil	7	31	0.66	146	0.087	<1	1.73	0.020	0.08	0.1	0.03	2.9	<0.1	<0.05	6



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Project: Ballarat

Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
6355	Soil	1.0	34.8	9.2	77	<0.1	16.7	17.2	456	2.98	4.7	0.5	7.4	1.2	12	0.1	0.3	0.1	76	0.21	0.069
REP 6355	QC	1.0	34.6	9.3	76	<0.1	17.4	17.2	449	2.97	4.7	0.5	4.1	1.2	12	0.2	0.3	0.1	76	0.22	0.070
7007	Soil	0.7	23.7	5.5	48	<0.1	21.2	11.6	368	2.67	6.0	0.4	5.3	2.2	20	0.1	0.2	0.1	66	0.30	0.044
REP 7007	QC	0.7	25.5	5.2	46	<0.1	21.6	11.9	373	2.61	6.2	0.4	3.4	2.1	20	<0.1	0.2	0.1	66	0.29	0.044
7032	Soil	1.0	42.9	8.2	79	<0.1	21.6	14.5	565	3.06	12.3	1.3	5.1	2.2	42	0.3	0.4	<0.1	70	0.90	0.090
REP 7032	QC	1.0	43.2	7.7	81	0.1	22.8	15.1	563	3.11	12.0	1.3	2.7	2.2	40	0.3	0.4	<0.1	71	0.91	0.089
7056	Soil	1.0	21.0	8.9	61	<0.1	16.5	10.3	389	3.07	12.7	0.6	1.6	2.1	19	<0.1	0.4	0.2	80	0.21	0.045
REP 7056	QC	1.2	21.0	9.4	60	<0.1	14.9	9.7	391	3.02	12.9	0.5	3.0	2.0	19	0.1	0.4	0.1	80	0.20	0.042
7063	Soil	0.6	41.0	4.3	72	<0.1	29.6	16.3	478	3.64	4.3	0.4	2.2	1.7	22	<0.1	0.3	<0.1	83	0.33	0.074
REP 7063	QC	0.6	40.8	4.4	70	<0.1	28.1	15.8	459	3.65	4.1	0.4	2.0	1.7	23	<0.1	0.3	<0.1	82	0.35	0.075
7084	Soil	0.8	18.0	9.1	47	0.1	21.7	7.5	184	1.96	11.9	0.7	9.6	1.3	31	0.1	4.2	0.1	41	0.46	0.048
REP 7084	QC	0.8	17.9	9.3	47	0.1	18.8	7.3	181	1.90	11.8	0.6	6.7	1.4	30	<0.1	4.3	0.1	40	0.48	0.051
7100	Soil	0.6	18.6	5.9	44	<0.1	14.8	7.5	147	2.00	2.7	0.3	1.9	0.9	13	<0.1	0.1	0.1	52	0.22	0.035
REP 7100	QC	0.6	19.6	5.9	46	<0.1	15.8	7.7	153	2.11	2.9	0.4	6.3	0.8	14	0.1	0.1	0.1	54	0.24	0.037
7124	Soil	1.2	25.9	6.0	76	<0.1	17.8	12.4	611	3.09	11.9	0.6	2.0	2.3	22	0.2	0.3	0.1	77	0.61	0.051
REP 7124	QC	1.3	26.7	6.1	79	0.1	18.0	12.3	618	3.08	12.4	0.7	1.0	2.3	22	0.2	0.3	0.1	78	0.60	0.051
7133	Soil	0.8	32.7	5.7	55	0.2	13.7	11.4	764	2.49	4.9	0.8	5.6	1.2	45	0.2	0.4	0.1	62	1.19	0.058
REP 7133	QC	0.8	33.3	5.9	55	0.2	13.6	11.4	777	2.48	4.8	0.8	0.9	1.1	45	0.1	0.3	0.1	62	1.20	0.058
7167	Soil	1.2	15.3	8.3	49	0.1	9.8	5.9	344	2.74	7.3	0.4	0.9	1.7	17	<0.1	0.4	0.2	76	0.16	0.036
REP 7167	QC	1.2	16.0	8.2	48	0.1	9.7	6.1	369	2.84	6.8	0.3	1.5	1.7	16	<0.1	0.3	0.2	78	0.16	0.037
7173	Soil	0.6	25.5	8.4	35	<0.1	15.8	8.1	197	2.35	5.4	0.4	2.5	1.9	15	<0.1	0.4	0.1	62	0.17	0.019
REP 7173	QC	0.6	26.4	8.5	37	<0.1	16.8	8.9	209	2.41	6.1	0.5	2.5	1.9	16	<0.1	0.4	0.1	60	0.18	0.020
7191	Soil	0.8	20.5	7.8	33	0.1	8.7	7.3	379	2.10	3.1	0.4	<0.5	1.1	15	0.2	0.3	0.2	58	0.17	0.024
REP 7191	QC	0.9	20.6	7.7	32	0.1	9.0	6.8	381	2.08	3.2	0.3	<0.5	1.2	14	0.1	0.3	0.2	60	0.18	0.024
7213	Soil	1.0	35.6	14.1	87	<0.1	21.7	12.1	458	2.77	4.9	0.6	2.7	2.3	22	0.3	0.3	0.1	67	0.37	0.084
REP 7213	QC	1.1	37.0	13.7	89	<0.1	22.5	12.7	460	2.86	5.2	0.6	2.1	2.3	23	0.3	0.3	0.1	68	0.37	0.082
7233	Soil	1.2	34.5	10.4	64	<0.1	23.5	12.9	338	3.60	10.0	0.7	5.0	3.5	18	0.1	0.5	0.2	84	0.24	0.037
REP 7233	QC	1.2	34.1	10.4	64	<0.1	22.2	12.7	332	3.61	9.9	0.8	1.6	3.4	18	<0.1	0.5	0.2	85	0.24	0.039



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Project: Ballarat

Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
6355	Soil	7	35	0.72	177	0.086	<1	1.52	0.012	0.18	0.1	0.04	4.1	0.1	<0.05	6	0.6
REP 6355	QC	7	35	0.72	179	0.086	<1	1.53	0.012	0.18	<0.1	0.04	4.1	<0.1	<0.05	6	<0.5
7007	Soil	9	35	0.72	245	0.098	2	1.63	0.011	0.10	0.1	0.02	3.2	<0.1	<0.05	5	<0.5
REP 7007	QC	8	34	0.69	249	0.099	<1	1.64	0.010	0.10	0.1	0.01	3.2	<0.1	<0.05	5	<0.5
7032	Soil	11	37	1.09	331	0.118	2	1.60	0.021	0.25	0.2	0.03	4.5	0.2	0.06	5	0.8
REP 7032	QC	11	37	1.10	333	0.120	2	1.60	0.020	0.25	0.1	0.04	4.5	0.2	<0.05	6	0.6
7056	Soil	10	31	0.68	272	0.105	2	1.99	0.011	0.09	0.1	0.02	3.7	0.1	<0.05	7	<0.5
REP 7056	QC	10	31	0.69	262	0.107	<1	1.96	0.012	0.09	0.2	0.02	3.8	0.1	<0.05	7	<0.5
7063	Soil	7	63	1.47	394	0.170	1	2.31	0.016	0.55	<0.1	0.01	3.8	0.2	<0.05	6	<0.5
REP 7063	QC	8	62	1.41	385	0.182	2	2.27	0.015	0.55	<0.1	<0.01	3.8	0.2	<0.05	6	<0.5
7084	Soil	12	34	0.48	261	0.052	<1	1.36	0.018	0.05	0.2	0.14	3.3	0.2	<0.05	5	<0.5
REP 7084	QC	12	33	0.50	266	0.049	<1	1.36	0.017	0.05	0.1	0.16	3.0	0.2	0.05	5	<0.5
7100	Soil	5	29	0.64	126	0.062	<1	1.37	0.010	0.04	0.1	0.01	2.5	<0.1	<0.05	5	<0.5
REP 7100	QC	6	30	0.65	128	0.076	<1	1.45	0.011	0.04	0.1	0.02	2.6	<0.1	<0.05	6	<0.5
7124	Soil	12	33	0.86	390	0.126	<1	1.63	0.012	0.28	0.1	0.03	4.6	0.2	<0.05	6	<0.5
REP 7124	QC	12	33	0.87	398	0.130	1	1.64	0.020	0.28	0.1	0.02	4.5	0.2	<0.05	6	<0.5
7133	Soil	14	23	0.67	585	0.084	2	1.36	0.023	0.18	<0.1	0.04	5.0	0.1	0.06	6	<0.5
REP 7133	QC	14	23	0.66	591	0.085	<1	1.32	0.022	0.17	<0.1	0.05	4.9	0.1	<0.05	5	<0.5
7167	Soil	8	22	0.52	187	0.084	<1	1.54	0.010	0.08	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5
REP 7167	QC	8	22	0.52	184	0.087	<1	1.53	0.010	0.08	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5
7173	Soil	8	29	0.54	158	0.075	2	1.64	0.012	0.04	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5
REP 7173	QC	8	29	0.55	157	0.088	2	1.74	0.013	0.04	0.1	0.01	2.7	<0.1	<0.05	5	<0.5
7191	Soil	6	19	0.29	196	0.082	1	1.22	0.024	0.06	<0.1	0.02	1.9	0.1	<0.05	6	<0.5
REP 7191	QC	6	20	0.29	201	0.085	2	1.18	0.023	0.05	<0.1	0.02	2.0	0.1	<0.05	6	<0.5
7213	Soil	10	36	0.79	265	0.104	<1	1.35	0.019	0.18	<0.1	0.02	3.3	0.1	<0.05	5	<0.5
REP 7213	QC	10	36	0.80	262	0.108	<1	1.39	0.019	0.18	0.1	0.02	3.4	<0.1	<0.05	5	0.6
7233	Soil	11	35	0.73	239	0.102	<1	2.35	0.015	0.08	0.1	0.02	4.3	0.1	<0.05	7	<0.5
REP 7233	QC	10	37	0.72	232	0.102	<1	2.24	0.012	0.08	0.2	0.02	4.4	0.1	<0.05	7	0.5



Acme Analytical Laboratories (Vancouver) Ltd.

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Project: Ballarat
Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
7249	Soil	1.4	25.9	8.9	58	0.2	16.6	9.3	504	3.35	6.9	0.5	2.3	2.2	18	<0.1	0.6	0.2	78	0.29	0.034
REP 7249	QC	1.5	27.1	9.1	56	0.2	16.6	9.7	514	3.45	6.8	0.5	2.5	2.4	18	<0.1	0.6	0.2	80	0.29	0.036
7272	Soil	1.2	25.6	7.5	54	0.2	15.8	9.3	312	2.47	4.7	0.8	3.9	1.4	47	0.1	0.3	0.2	53	0.80	0.050
REP 7272	QC	1.3	27.6	8.0	57	0.2	15.9	9.5	328	2.50	3.8	0.8	<0.5	1.6	48	0.2	0.4	0.2	57	0.81	0.052
7278	Soil	0.9	30.7	5.9	55	0.1	15.4	19.4	490	3.01	3.3	0.5	1.2	0.9	30	<0.1	0.3	0.1	80	0.44	0.056
REP 7278	QC	0.9	29.3	5.7	56	0.1	13.9	18.5	469	2.81	3.3	0.5	0.7	0.9	29	<0.1	0.3	0.1	76	0.42	0.056
7306	Soil	0.9	13.9	7.7	46	<0.1	13.0	6.9	221	2.91	8.0	0.4	2.4	1.4	18	0.1	0.4	0.2	77	0.17	0.030
REP 7306	QC	0.9	13.2	7.9	47	<0.1	11.3	6.8	226	2.96	8.0	0.4	1.7	1.3	17	0.1	0.4	0.2	77	0.17	0.030
7329	Soil	1.2	16.0	8.2	41	<0.1	12.8	8.3	366	2.31	6.6	0.5	0.6	1.8	23	0.2	0.4	0.2	59	0.20	0.030
REP 7329	QC	1.2	16.2	8.5	42	<0.1	13.1	8.0	373	2.36	6.8	0.5	0.7	1.9	23	0.2	0.4	0.2	60	0.20	0.030
7348	Soil	1.2	20.7	15.7	66	0.1	12.7	7.5	244	2.34	5.7	0.6	7.7	1.2	21	0.1	0.2	0.2	61	0.27	0.066
REP 7348	QC	1.1	20.0	15.3	67	0.1	12.6	7.4	248	2.42	5.6	0.6	3.4	1.2	21	0.2	0.2	0.2	62	0.29	0.065
Reference Materials																					
STD DS7	Standard	21.1	113.8	61.7	397	0.8	59.8	9.8	597	2.35	46.3	4.1	100.3	3.6	62	5.8	4.9	4.1	87	0.93	0.069
STD DS7	Standard	20.0	105.1	64.8	388	0.8	54.2	9.0	620	2.36	50.5	4.5	61.6	4.1	78	6.5	6.2	4.4	81	0.91	0.075
STD DS7	Standard	21.9	119.9	61.2	401	0.8	61.8	10.0	628	2.41	48.9	4.3	82.7	3.8	65	6.3	5.0	4.1	90	0.94	0.073
STD DS7	Standard	20.2	109.7	66.9	391	0.8	56.1	9.1	626	2.38	50.7	4.7	154.9	4.3	78	6.0	6.1	4.5	84	0.95	0.077
STD DS7	Standard	22.1	123.2	80.0	412	0.8	62.4	10.5	668	2.58	50.5	5.6	65.1	4.9	81	6.3	6.2	5.1	90	1.02	0.074
STD DS7	Standard	22.9	126.1	81.8	419	0.8	65.4	10.9	685	2.61	52.8	5.5	75.3	5.1	85	6.7	6.4	5.4	93	1.06	0.085
STD DS7	Standard	19.6	104.9	64.0	384	0.8	53.4	8.9	601	2.36	49.6	4.6	76.3	4.1	76	5.9	5.7	4.3	81	0.94	0.075
STD DS7	Standard	19.8	101.1	63.2	382	0.8	55.0	8.6	598	2.33	49.5	4.5	110.3	4.2	77	6.1	5.7	4.3	82	0.92	0.074
STD DS7	Standard	19.1	105.2	63.1	386	0.8	55.7	9.1	606	2.37	49.4	4.5	65.1	4.0	75	6.2	5.8	4.2	82	0.94	0.077
STD DS7	Standard	18.6	98.6	59.6	390	0.8	52.0	8.8	612	2.41	47.6	4.3	71.9	3.9	77	6.0	5.8	4.3	80	0.89	0.074
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Ballarat

Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

		1DX15 La ppm 1	1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5
7249	Soil	10	28	0.60	351	0.095	<1	1.76	0.013	0.07	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5
REP 7249	QC	10	28	0.61	362	0.094	<1	1.80	0.013	0.07	<0.1	0.03	4.2	0.1	<0.05	6	<0.5
7272	Soil	9	28	0.55	390	0.084	2	1.85	0.024	0.09	0.2	0.06	4.7	<0.1	0.05	6	0.5
REP 7272	QC	10	28	0.61	407	0.095	3	1.86	0.025	0.09	0.2	0.05	5.1	<0.1	0.06	6	0.8
7278	Soil	6	31	0.88	365	0.091	4	1.90	0.028	0.07	0.2	0.03	5.5	0.1	0.07	8	1.1
REP 7278	QC	6	29	0.87	347	0.090	6	1.91	0.027	0.07	0.1	0.03	5.3	0.1	0.07	7	1.1
7306	Soil	10	27	0.53	167	0.093	1	1.68	0.012	0.06	<0.1	0.01	3.0	<0.1	<0.05	8	<0.5
REP 7306	QC	10	28	0.53	169	0.098	2	1.71	0.014	0.06	0.1	<0.01	3.2	<0.1	<0.05	8	<0.5
7329	Soil	8	23	0.40	245	0.075	<1	1.49	0.015	0.06	0.1	0.02	3.2	<0.1	<0.05	6	<0.5
REP 7329	QC	8	24	0.41	254	0.072	<1	1.53	0.016	0.06	<0.1	0.03	3.2	<0.1	<0.05	7	<0.5
7348	Soil	9	27	0.58	193	0.089	1	1.37	0.019	0.09	0.1	0.04	3.4	0.1	0.06	6	0.8
REP 7348	QC	9	28	0.60	192	0.092	1	1.40	0.023	0.10	0.2	0.04	3.5	0.1	0.06	7	<0.5
Reference Materials																	
STD DS7	Standard	12	207	0.99	390	0.112	36	0.99	0.096	0.42	3.9	0.19	2.5	4.3	0.17	5	3.4
STD DS7	Standard	13	206	1.02	398	0.134	39	1.01	0.097	0.45	4.1	0.17	2.9	4.1	0.17	5	3.2
STD DS7	Standard	13	214	1.02	387	0.118	39	0.98	0.090	0.43	3.8	0.18	2.5	4.2	0.19	5	3.7
STD DS7	Standard	13	203	1.04	411	0.134	41	1.05	0.094	0.46	4.0	0.18	2.7	4.3	0.19	5	3.3
STD DS7	Standard	14	221	1.06	415	0.135	43	1.09	0.098	0.46	3.8	0.19	2.7	4.4	0.15	5	4.0
STD DS7	Standard	15	227	1.11	434	0.140	39	1.16	0.108	0.48	4.2	0.22	2.9	4.7	0.17	5	4.1
STD DS7	Standard	12	197	1.03	389	0.119	37	1.02	0.099	0.46	3.6	0.18	2.6	4.0	0.22	5	2.5
STD DS7	Standard	12	202	1.00	397	0.125	38	1.00	0.100	0.42	3.8	0.18	2.4	4.1	0.18	5	4.0
STD DS7	Standard	13	197	1.01	399	0.120	36	1.00	0.095	0.45	3.6	0.20	2.6	4.0	0.19	5	3.2
STD DS7	Standard	12	196	1.01	381	0.116	39	0.99	0.093	0.44	4.2	0.18	2.6	4.2	0.17	5	4.0
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Project: Ballarat

Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

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



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Report Date: August 12, 2009

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QUALITY CONTROL REPORT

VAN09003420.1

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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 17, 2009
Page: 1 of 14

CERTIFICATE OF ANALYSIS

VAN09003421.1

CLIENT JOB INFORMATION

Project: Ballarat
Shipment ID: 20090731
P.O. Number
Number of Samples: 375

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Hinterland Metals Inc.
203 - 680 Third Ave.
Val d'Or QC J9P 1S5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	361	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	361	Dry at 60C			VAN
1DX15	361	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Ballarat

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Part 1

CERTIFICATE OF ANALYSIS

VAN09003421.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
7364	Soil		0.9	23.3	7.1	49	0.1	16.0	10.1	179	2.15	3.6	0.6	9.1	0.9	13	0.1	0.4	<0.1	52	0.19	0.073		
7365	Soil		1.4	55.7	6.9	84	<0.1	28.9	27.7	776	3.99	4.4	0.7	40.3	2.3	19	0.2	0.3	<0.1	96	0.37	0.103		
7366	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7367	Soil		0.9	21.9	7.6	44	0.1	11.5	8.2	266	1.92	3.5	0.5	3.1	0.6	16	0.1	0.2	0.2	55	0.20	0.056		
7368	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7369	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7370	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7371	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7372	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7373	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7374	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7375	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.			
7376	Soil		0.7	26.5	6.1	65	<0.1	20.2	12.7	323	2.96	5.2	0.7	2.0	3.1	23	<0.1	0.3	<0.1	65	0.36	0.063		
7377	Soil		1.3	26.3	6.5	54	0.1	18.5	12.5	363	3.39	5.7	0.4	1.1	1.6	15	<0.1	0.3	0.1	79	0.19	0.052		
7378	Soil		1.0	26.7	6.7	59	<0.1	23.2	12.1	310	3.56	9.4	0.4	1.8	2.2	21	0.1	0.4	0.1	75	0.26	0.048		
8000	Soil		1.1	25.3	8.0	55	<0.1	29.5	11.9	274	3.27	8.2	0.8	5.1	5.7	16	0.1	0.4	0.1	68	0.19	0.039		
8001	Soil		1.6	17.7	8.8	48	<0.1	21.6	9.3	281	3.14	7.1	0.6	4.0	3.3	17	<0.1	0.4	0.1	67	0.20	0.046		
8002	Soil		1.8	26.2	9.4	66	<0.1	71.4	14.8	351	3.59	8.9	0.6	8.1	5.3	16	0.1	0.4	0.1	79	0.17	0.044		
8003	Soil		1.1	24.9	7.0	50	<0.1	24.5	13.0	362	3.00	6.6	0.5	7.6	3.4	19	<0.1	0.3	<0.1	68	0.20	0.039		
8004	Soil		1.2	20.0	6.9	48	<0.1	19.2	9.7	286	2.79	6.6	0.4	4.5	2.5	18	<0.1	0.4	0.1	71	0.23	0.037		
8005	Soil		0.9	26.8	6.9	64	<0.1	19.7	11.0	338	3.04	5.6	0.4	3.1	2.1	20	<0.1	0.3	<0.1	72	0.31	0.051		
8006	Soil		1.0	28.2	7.6	60	0.1	20.5	10.3	352	2.75	5.0	0.5	5.9	3.2	16	0.2	0.3	0.1	64	0.21	0.030		
8007	Soil		0.3	5.3	1.9	9	<0.1	1.6	1.0	41	0.54	0.6	0.1	0.6	<0.1	5	<0.1	0.1	<0.1	18	0.04	0.018		
8008	Soil		0.7	24.7	6.6	66	<0.1	17.3	11.9	318	3.21	4.9	0.4	2.0	1.2	15	0.1	0.3	<0.1	76	0.24	0.065		
8009	Soil		0.7	37.7	5.7	74	<0.1	13.2	14.2	343	3.27	3.9	0.4	1.0	1.9	16	<0.1	0.3	<0.1	93	0.26	0.056		
8010	Soil		1.0	26.9	7.1	59	<0.1	19.9	13.3	367	2.92	4.3	0.5	29.3	2.3	17	<0.1	0.3	<0.1	69	0.33	0.057		
8011	Soil		1.3	42.4	9.2	69	0.1	20.7	17.3	476	3.20	5.1	0.7	5.6	1.8	22	0.1	0.4	<0.1	76	0.43	0.079		
8012	Soil		2.8	21.5	25.3	55	0.1	12.8	7.6	248	2.89	8.0	0.5	12.4	2.2	12	0.1	0.4	0.2	82	0.12	0.033		
8013	Soil		1.8	36.4	7.7	107	<0.1	14.0	17.7	1088	3.74	4.5	0.5	9.7	2.0	13	0.2	0.2	0.1	81	0.23	0.093		
8014	Soil		1.0	27.4	6.3	57	<0.1	10.0	8.8	1100	2.44	3.2	0.2	1.6	0.7	14	0.2	0.3	0.1	76	0.21	0.045		



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Project: Ballarat
Report Date: August 17, 2009

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CERTIFICATE OF ANALYSIS

VAN09003421.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
7364	Soil	8	39	0.54	151	0.062	1	1.21	0.017	0.06	0.1	0.09	3.5	<0.1	<0.05	5
7365	Soil	10	70	1.20	343	0.142	<1	2.00	0.022	0.42	0.1	0.04	7.6	0.2	<0.05	8
7366	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7367	Soil	7	31	0.43	169	0.072	1	1.11	0.016	0.08	0.1	0.05	3.3	<0.1	<0.05	6
7368	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7369	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7370	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7371	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7372	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7373	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7374	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
7376	Soil	10	38	0.90	240	0.122	<1	1.77	0.019	0.15	0.1	0.05	3.7	0.1	<0.05	5
7377	Soil	6	40	0.84	213	0.154	<1	1.77	0.013	0.19	0.1	0.02	2.5	0.1	<0.05	7
7378	Soil	7	39	0.77	163	0.108	1	2.14	0.015	0.11	0.1	0.02	3.1	<0.1	<0.05	6
8000	Soil	19	41	0.67	182	0.112	2	1.95	0.011	0.14	0.1	0.04	3.5	0.2	<0.05	7
8001	Soil	12	38	0.52	199	0.116	1	1.50	0.009	0.21	0.1	0.04	2.5	0.2	<0.05	7
8002	Soil	14	108	0.95	221	0.126	1	2.02	0.011	0.18	0.1	0.04	3.5	0.2	<0.05	8
8003	Soil	9	41	0.68	225	0.095	1	1.75	0.011	0.10	0.1	0.04	2.8	0.1	<0.05	6
8004	Soil	9	34	0.61	207	0.111	<1	1.56	0.012	0.12	0.1	0.02	3.0	<0.1	<0.05	6
8005	Soil	9	34	0.76	214	0.111	1	1.72	0.016	0.14	0.1	0.03	3.4	0.1	<0.05	6
8006	Soil	14	39	0.52	302	0.099	1	1.47	0.018	0.12	0.1	0.05	3.2	0.1	<0.05	6
8007	Soil	2	5	0.05	27	0.029	1	0.25	0.015	0.02	<0.1	0.04	0.5	<0.1	<0.05	2
8008	Soil	6	41	0.85	160	0.122	2	1.73	0.012	0.15	0.2	0.05	3.5	0.1	<0.05	7
8009	Soil	7	28	1.13	232	0.182	<1	1.89	0.014	0.35	<0.1	0.03	3.4	0.2	<0.05	6
8010	Soil	9	34	0.73	257	0.099	2	1.46	0.013	0.09	0.2	0.02	4.2	<0.1	<0.05	5
8011	Soil	11	37	0.78	437	0.092	1	1.78	0.018	0.11	0.2	0.05	5.6	<0.1	<0.05	6
8012	Soil	8	25	0.41	158	0.096	1	1.18	0.014	0.08	0.2	0.03	3.0	0.1	<0.05	8
8013	Soil	8	28	0.92	191	0.140	<1	1.58	0.012	0.38	0.1	0.03	5.8	0.1	<0.05	7
8014	Soil	4	18	0.33	178	0.099	<1	1.12	0.018	0.07	0.1	0.07	1.9	<0.1	<0.05	6



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Project: Ballarat
Report Date: August 17, 2009

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CERTIFICATE OF ANALYSIS

VAN09003421.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8015	Soil	1.7	72.7	6.2	51	<0.1	18.1	12.2	290	3.09	5.8	0.3	3.0	1.5	15	<0.1	0.3	0.1	80	0.26	0.042
8016	Soil	1.0	54.6	5.7	51	<0.1	18.6	12.5	300	2.96	6.3	0.4	3.3	1.8	18	<0.1	0.3	<0.1	73	0.35	0.061
8017	Soil	0.8	39.8	4.9	32	0.1	10.3	6.8	135	1.99	3.5	0.3	1.6	0.8	14	<0.1	0.2	0.1	58	0.19	0.031
8018	Soil	0.8	17.7	5.7	36	0.1	11.7	7.5	383	2.25	4.6	0.2	2.9	0.8	15	0.1	0.3	0.1	68	0.23	0.042
8019	Soil	0.7	31.2	5.9	54	<0.1	17.4	10.4	252	2.68	6.7	0.4	3.4	2.1	21	<0.1	0.3	<0.1	69	0.28	0.036
8020	Soil	0.7	183.0	3.1	119	<0.1	13.0	27.4	335	3.86	2.3	0.3	4.5	0.7	33	0.2	0.1	<0.1	94	0.83	0.333
8021	Soil	1.0	24.8	6.9	45	<0.1	18.8	11.0	202	3.11	9.3	0.3	1.6	1.8	12	<0.1	0.5	0.1	77	0.14	0.065
8022	Soil	0.8	61.1	3.1	43	<0.1	31.0	19.1	260	3.45	4.5	0.2	1.1	0.7	32	<0.1	0.2	<0.1	84	0.71	0.301
8023	Soil	0.7	33.4	3.0	54	<0.1	184.0	34.0	384	3.46	3.8	0.2	2.5	0.6	13	<0.1	0.1	<0.1	65	0.35	0.033
8024	Soil	1.2	12.5	6.6	41	<0.1	19.2	9.6	250	2.62	6.8	0.3	2.0	1.6	12	0.1	0.4	0.1	66	0.14	0.023
8025	Soil	1.2	17.7	21.2	50	0.1	22.4	14.4	287	3.34	7.0	0.3	1.4	1.5	16	1.3	0.3	0.1	86	0.32	0.035
8026	Soil	0.8	19.3	4.8	60	<0.1	16.6	10.3	478	2.43	6.4	0.7	2.7	1.1	33	0.3	0.3	<0.1	58	1.42	0.077
8027	Soil	0.8	23.2	5.5	71	<0.1	15.4	11.2	484	2.66	8.1	0.6	1.4	1.0	37	0.2	0.4	<0.1	61	1.72	0.069
8028	Soil	0.8	24.7	6.4	67	0.1	16.2	9.0	530	2.16	8.6	0.9	2.5	0.8	48	0.3	0.3	<0.1	54	2.38	0.069
8029	Soil	1.3	21.9	5.0	74	<0.1	17.6	10.3	497	2.51	9.2	0.6	1.1	1.7	26	0.1	0.2	<0.1	61	1.18	0.083
8030	Soil	0.7	31.1	5.0	78	0.1	19.3	11.5	612	2.50	9.8	0.6	2.7	0.7	45	0.3	0.2	<0.1	63	2.07	0.086
8031	Soil	0.6	31.2	4.6	61	0.1	18.7	9.3	580	1.78	3.3	0.7	5.2	0.5	54	0.3	0.2	<0.1	44	2.81	0.077
8032	Soil	0.9	25.5	6.8	80	0.1	17.5	12.9	396	3.33	4.9	0.5	7.4	1.4	34	0.2	0.2	<0.1	85	0.99	0.036
8033	Soil	2.2	41.7	6.8	83	0.2	21.5	13.8	975	3.25	6.3	0.9	3.3	1.8	42	0.3	0.2	<0.1	75	1.15	0.101
8034	Soil	1.3	46.0	6.8	67	0.3	22.7	18.2	701	3.26	5.0	1.0	6.1	2.0	37	0.2	0.2	0.1	62	0.99	0.088
8035	Soil	2.4	62.9	11.3	83	0.3	20.0	28.6	773	4.25	5.0	0.9	3.6	3.2	24	0.3	0.2	0.1	100	0.52	0.073
8036	Soil	1.6	63.5	9.8	95	0.2	20.9	19.6	548	4.65	5.4	0.8	4.1	2.9	38	0.1	0.2	<0.1	95	0.62	0.155
8037	Soil	1.5	57.0	18.0	102	0.6	13.3	12.3	541	2.75	3.0	1.6	6.0	2.5	38	0.4	0.2	0.2	56	0.96	0.072
8038	Soil	2.2	43.3	21.8	124	0.2	14.0	15.7	532	3.20	3.8	0.6	7.0	2.6	20	0.2	0.1	0.2	66	0.32	0.099
8039	Soil	1.7	45.7	18.2	123	0.3	13.6	14.6	467	3.19	4.2	0.6	9.7	2.2	23	0.2	0.1	0.2	74	0.45	0.125
8040	Soil	0.6	35.5	9.0	98	0.2	16.1	14.0	443	3.19	3.4	0.7	4.6	1.8	27	0.1	0.1	<0.1	79	0.47	0.066
8041	Soil	0.8	37.3	12.2	105	0.2	14.4	15.3	506	3.40	3.5	0.8	1.1	1.6	29	0.1	0.2	<0.1	80	0.50	0.088
8042	Soil	0.6	22.8	13.5	109	<0.1	13.7	16.0	522	3.35	3.9	0.4	3.9	1.6	27	0.1	0.1	<0.1	93	0.62	0.093
8043	Soil	0.8	35.3	5.7	48	<0.1	43.4	12.2	287	2.65	8.4	0.6	8.5	1.9	18	<0.1	0.3	<0.1	60	0.31	0.053
8044	Soil	0.8	28.1	6.7	51	<0.1	49.9	16.3	362	3.04	12.2	0.5	6.9	2.4	16	<0.1	0.9	0.1	67	0.26	0.042



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8015	Soil	7	31	0.74	141	0.105	2	1.75	0.016	0.07	0.2	0.04	3.6	<0.1	<0.05	6	<0.5
8016	Soil	7	29	0.71	167	0.096	<1	1.75	0.014	0.08	0.1	0.03	3.3	<0.1	<0.05	5	<0.5
8017	Soil	5	18	0.44	135	0.091	1	1.04	0.018	0.10	0.1	0.03	2.1	<0.1	<0.05	5	<0.5
8018	Soil	5	21	0.36	129	0.078	<1	1.08	0.016	0.06	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5
8019	Soil	7	30	0.63	191	0.091	1	1.70	0.016	0.08	0.2	0.04	3.6	<0.1	<0.05	5	<0.5
8020	Soil	3	19	1.02	212	0.117	<1	1.79	0.035	0.28	<0.1	0.04	4.2	<0.1	0.12	5	1.1
8021	Soil	6	34	0.51	124	0.092	<1	1.82	0.012	0.09	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
8022	Soil	3	56	1.00	151	0.098	<1	1.94	0.028	0.17	<0.1	<0.01	3.0	<0.1	0.06	6	<0.5
8023	Soil	5	471	2.79	260	0.153	<1	3.17	0.013	0.44	<0.1	0.01	2.6	0.2	<0.05	7	<0.5
8024	Soil	6	33	0.56	155	0.079	<1	1.93	0.013	0.14	0.1	0.01	2.8	<0.1	<0.05	5	<0.5
8025	Soil	4	42	0.95	195	0.132	<1	2.22	0.011	0.34	<0.1	0.03	3.2	0.1	<0.05	6	<0.5
8026	Soil	8	28	0.76	352	0.070	2	1.34	0.013	0.16	<0.1	0.04	3.8	0.1	0.06	5	0.5
8027	Soil	8	27	0.76	347	0.075	2	1.38	0.013	0.20	0.1	0.03	3.9	<0.1	0.06	5	0.7
8028	Soil	9	29	0.74	472	0.070	3	1.33	0.018	0.17	<0.1	0.05	3.2	0.1	0.11	5	0.7
8029	Soil	9	36	0.93	293	0.093	1	1.41	0.012	0.24	0.3	0.03	3.7	0.2	0.07	5	0.6
8030	Soil	7	39	1.04	381	0.078	2	1.45	0.015	0.17	<0.1	0.05	3.1	0.2	0.08	5	<0.5
8031	Soil	8	35	0.74	431	0.056	4	1.27	0.018	0.10	<0.1	0.05	2.5	0.1	0.09	4	0.6
8032	Soil	6	35	1.07	341	0.157	<1	2.05	0.023	0.18	0.1	0.03	2.8	0.1	<0.05	8	<0.5
8033	Soil	14	30	0.92	653	0.090	1	1.61	0.015	0.26	0.1	0.04	4.3	0.1	0.07	6	0.6
8034	Soil	15	29	0.79	460	0.064	<1	1.62	0.017	0.15	<0.1	0.03	4.6	0.1	0.05	5	0.7
8035	Soil	15	34	0.99	417	0.107	<1	1.98	0.022	0.24	0.1	0.04	5.7	0.2	<0.05	7	<0.5
8036	Soil	14	34	0.99	385	0.119	<1	1.84	0.035	0.33	0.1	0.02	5.1	0.2	0.07	7	<0.5
8037	Soil	21	24	0.82	524	0.090	<1	1.63	0.019	0.23	<0.1	0.04	3.0	0.2	<0.05	5	0.6
8038	Soil	10	30	1.03	274	0.134	<1	1.87	0.014	0.39	0.1	0.02	2.3	0.2	<0.05	6	0.5
8039	Soil	9	24	1.05	294	0.117	<1	1.79	0.017	0.28	0.1	0.02	2.8	0.1	<0.05	6	0.7
8040	Soil	9	34	1.09	292	0.152	<1	1.77	0.014	0.25	0.1	0.03	3.2	0.1	<0.05	7	<0.5
8041	Soil	8	31	1.17	348	0.157	<1	1.97	0.020	0.34	0.1	0.02	3.0	0.2	<0.05	6	<0.5
8042	Soil	7	24	1.42	311	0.173	<1	2.05	0.013	0.42	0.2	0.01	2.4	0.2	<0.05	6	<0.5
8043	Soil	9	61	0.74	289	0.076	<1	1.67	0.010	0.05	0.2	0.02	3.3	0.1	<0.05	6	<0.5
8044	Soil	9	67	0.80	217	0.077	<1	1.89	0.009	0.05	0.1	0.07	3.7	0.1	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
8045	Soil	1.2	31.1	9.1	51	<0.1	28.5	12.1	338	2.87	8.5	0.8	3.4	2.8	18	<0.1	1.6	0.1	69	0.27	0.040
8046	Soil	1.1	51.4	11.8	52	0.2	30.5	13.3	390	2.65	7.1	1.4	12.1	2.2	22	<0.1	1.6	0.1	58	0.37	0.063
8047	Soil	1.3	41.8	7.9	48	0.1	34.4	15.1	489	2.61	10.6	1.6	12.6	2.3	26	<0.1	1.4	0.1	56	0.54	0.073
8048	Soil	1.5	44.0	8.8	63	0.2	39.9	15.9	580	2.98	10.6	1.8	17.2	3.3	30	0.1	1.1	0.1	59	0.61	0.076
8049	Soil	1.3	16.6	8.2	44	<0.1	20.2	8.5	274	2.49	7.5	0.4	25.3	2.6	19	<0.1	0.5	0.1	56	0.30	0.029
8050	Soil	1.1	24.4	6.9	51	0.1	24.5	14.2	445	2.86	7.5	0.7	9.1	2.9	19	<0.1	0.6	<0.1	57	0.40	0.065
8051	Soil	0.5	24.2	5.1	62	<0.1	15.5	10.6	347	2.87	4.7	0.5	1.0	2.3	17	<0.1	0.2	<0.1	67	0.40	0.046
8052	Soil	0.7	19.9	5.6	65	<0.1	16.8	9.2	305	3.01	5.6	0.4	5.4	1.9	13	<0.1	0.3	<0.1	72	0.23	0.043
8053	Soil	1.0	18.2	6.4	55	<0.1	17.9	10.4	398	2.82	6.9	0.5	2.9	2.2	16	<0.1	0.5	0.1	62	0.26	0.034
8054	Soil	0.9	38.3	3.9	100	<0.1	22.1	16.3	453	3.80	7.3	0.6	2.3	2.2	26	0.1	0.3	<0.1	81	0.76	0.189
8055	Soil	0.8	51.1	5.0	94	0.1	16.0	14.7	622	4.13	4.6	0.5	7.8	2.1	17	0.1	0.6	0.1	91	0.46	0.105
8056	Soil	1.1	46.8	7.9	83	0.3	19.5	15.3	412	4.11	4.8	0.7	20.6	1.6	30	0.2	0.9	0.2	66	0.67	0.092
8057	Soil	0.9	51.1	5.7	73	<0.1	17.0	14.4	423	3.41	5.1	0.5	23.0	1.7	22	<0.1	0.6	<0.1	67	0.63	0.110
8058	Soil	0.9	54.1	5.4	63	0.2	28.9	18.4	404	3.49	3.8	0.6	6.6	1.6	14	0.1	0.3	<0.1	87	0.36	0.069
8059	Soil	1.5	60.3	6.7	61	0.1	20.2	11.9	351	3.03	6.1	0.7	7.4	2.1	20	0.1	0.5	0.1	69	0.41	0.062
8060	Soil	0.7	28.8	6.2	46	0.1	15.8	8.8	240	2.35	4.6	0.4	2.3	1.3	20	0.2	0.3	0.1	54	0.28	0.048
8061	Soil	0.8	24.6	7.5	41	<0.1	18.1	8.3	223	2.61	5.8	0.4	3.0	1.1	14	<0.1	0.4	0.1	59	0.15	0.027
8062	Soil	0.9	22.5	5.3	47	<0.1	29.1	14.4	410	3.29	4.9	0.4	0.7	2.3	17	<0.1	0.2	0.1	97	0.35	0.073
8063	Soil	1.7	43.6	7.7	73	0.2	23.5	11.3	295	3.17	19.0	1.3	3.5	3.0	21	0.2	0.4	0.2	90	0.57	0.074
8064	Soil	0.8	29.0	8.1	60	<0.1	22.3	12.2	410	3.13	10.3	0.7	2.6	3.2	16	0.2	0.5	0.1	65	0.23	0.050
8065	Soil	0.7	19.4	10.2	54	<0.1	20.6	10.4	556	2.78	10.9	0.9	3.0	1.5	24	0.2	0.6	0.1	64	0.55	0.057
8066	Soil	1.9	18.5	9.6	59	<0.1	19.6	8.0	225	2.89	52.8	0.6	3.8	3.0	15	0.2	0.6	0.2	62	0.15	0.043
8067	Soil	0.7	20.7	9.0	45	<0.1	23.1	9.8	264	2.74	9.1	0.8	<0.5	3.2	16	0.1	0.4	0.1	62	0.17	0.041
8068	Soil	1.0	15.5	8.2	57	<0.1	17.1	9.5	328	2.67	6.5	0.5	2.6	2.0	15	0.2	0.3	0.1	58	0.18	0.052
8069	Soil	0.9	14.7	9.6	45	<0.1	21.4	9.2	190	2.74	7.9	0.6	3.6	3.1	13	<0.1	0.4	0.1	56	0.13	0.030
8070	Soil	1.2	13.2	7.8	57	<0.1	10.7	7.3	360	3.04	7.6	0.5	1.7	0.9	11	0.2	0.3	0.1	68	0.12	0.057
8071	Soil	1.4	36.1	17.7	98	<0.1	20.1	11.6	418	3.11	6.3	0.7	3.8	4.0	19	0.2	0.3	0.1	60	0.23	0.054
8072	Soil	0.8	29.8	9.4	69	<0.1	22.6	11.7	351	3.14	8.1	0.6	4.9	3.7	16	0.2	0.4	0.1	68	0.18	0.033
8073	Soil	0.7	22.6	8.0	55	<0.1	20.8	12.8	345	3.27	7.1	0.4	3.2	2.2	18	<0.1	0.4	0.1	81	0.25	0.047
8074	Soil	0.7	25.8	11.3	78	<0.1	17.8	15.9	537	3.55	6.1	0.3	2.2	1.3	19	0.2	0.3	0.1	99	0.27	0.084



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5
8045	Soil	10	43	0.76	272	0.091	1	2.01	0.010	0.05	0.1	0.03	3.5	0.1	<0.05	6	<0.5
8046	Soil	14	44	0.65	489	0.070	<1	1.74	0.013	0.05	0.1	0.11	4.0	0.1	<0.05	5	0.6
8047	Soil	12	42	0.56	389	0.063	<1	1.49	0.015	0.06	0.1	0.12	3.9	0.1	<0.05	4	0.5
8048	Soil	29	47	0.69	525	0.065	<1	1.84	0.011	0.09	<0.1	0.09	5.3	0.2	<0.05	6	0.9
8049	Soil	10	30	0.51	247	0.067	<1	1.20	0.008	0.07	0.1	0.03	2.6	0.1	<0.05	6	<0.5
8050	Soil	15	41	0.64	286	0.073	<1	1.41	0.010	0.09	0.1	0.02	3.7	0.1	<0.05	5	<0.5
8051	Soil	13	28	1.05	369	0.136	<1	1.60	0.010	0.39	<0.1	0.01	2.9	0.2	<0.05	7	<0.5
8052	Soil	7	33	0.78	194	0.101	1	1.57	0.011	0.11	0.1	0.02	3.2	0.1	<0.05	7	<0.5
8053	Soil	9	33	0.55	262	0.074	1	1.53	0.010	0.07	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
8054	Soil	10	45	0.97	628	0.105	<1	1.74	0.017	0.32	<0.1	0.03	4.5	0.1	<0.05	7	<0.5
8055	Soil	9	26	1.14	578	0.125	<1	1.85	0.012	0.44	<0.1	0.04	6.9	0.1	<0.05	9	0.7
8056	Soil	14	26	0.88	420	0.045	2	1.53	0.013	0.16	0.1	0.09	7.4	<0.1	0.07	6	1.3
8057	Soil	10	28	0.77	216	0.053	1	1.46	0.013	0.06	0.2	0.03	5.1	<0.1	<0.05	6	0.5
8058	Soil	8	53	1.15	217	0.099	<1	1.87	0.013	0.11	0.1	0.03	5.0	<0.1	<0.05	7	<0.5
8059	Soil	9	31	0.68	220	0.086	2	1.54	0.014	0.10	<0.1	0.03	5.2	<0.1	<0.05	5	0.6
8060	Soil	7	27	0.55	160	0.072	2	1.52	0.016	0.06	0.1	0.02	2.6	<0.1	<0.05	5	<0.5
8061	Soil	7	32	0.50	179	0.060	1	1.66	0.011	0.05	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5
8062	Soil	9	56	1.10	290	0.110	<1	2.11	0.010	0.16	0.1	0.02	4.7	<0.1	<0.05	7	<0.5
8063	Soil	14	34	0.89	480	0.104	2	1.77	0.013	0.24	0.1	0.03	7.5	0.1	<0.05	6	1.1
8064	Soil	10	30	0.65	226	0.067	1	1.81	0.010	0.14	0.2	0.02	4.2	0.2	<0.05	5	<0.5
8065	Soil	12	33	0.45	451	0.033	2	1.70	0.012	0.03	0.1	0.05	3.7	0.1	<0.05	5	<0.5
8066	Soil	10	30	0.44	264	0.048	<1	1.86	0.009	0.04	0.1	0.03	3.2	<0.1	<0.05	5	0.6
8067	Soil	10	33	0.61	142	0.093	2	2.06	0.010	0.08	0.1	0.03	3.5	0.1	<0.05	5	0.5
8068	Soil	8	30	0.62	143	0.081	<1	1.79	0.010	0.06	<0.1	0.03	2.1	0.1	<0.05	5	<0.5
8069	Soil	10	31	0.47	162	0.040	2	2.06	0.008	0.05	<0.1	0.04	2.8	0.1	<0.05	5	<0.5
8070	Soil	9	22	0.41	83	0.083	<1	1.48	0.008	0.08	<0.1	0.03	1.7	0.1	<0.05	7	<0.5
8071	Soil	18	31	0.80	287	0.117	2	2.07	0.011	0.28	<0.1	0.02	3.1	0.2	<0.05	5	<0.5
8072	Soil	9	35	0.71	184	0.103	1	2.28	0.011	0.09	0.1	0.02	3.0	0.1	<0.05	6	<0.5
8073	Soil	8	32	0.86	199	0.096	<1	2.36	0.011	0.06	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5
8074	Soil	5	28	1.06	199	0.168	<1	2.23	0.012	0.19	0.2	0.02	2.2	<0.1	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8075	Soil	0.4	50.8	8.4	112	<0.1	14.9	16.5	521	3.81	3.8	0.3	1.5	1.2	22	<0.1	0.2	<0.1	98	0.28	0.060
8076	Soil	0.8	23.7	30.2	94	0.1	11.5	10.7	370	3.13	4.6	0.4	2.2	1.3	18	0.2	0.2	<0.1	89	0.21	0.049
8077	Soil	0.6	27.6	9.1	75	<0.1	14.7	9.4	363	2.86	4.6	0.8	1.3	3.2	22	<0.1	0.2	<0.1	68	0.31	0.037
8078	Soil	0.6	22.2	8.1	67	<0.1	17.4	8.3	306	2.77	4.9	0.7	2.9	3.2	21	<0.1	0.3	<0.1	62	0.40	0.044
8079	Soil	0.6	16.0	10.7	58	<0.1	18.2	12.0	391	2.54	6.0	0.7	2.3	4.0	21	<0.1	0.3	0.2	57	0.30	0.045
8080	Soil	1.2	34.3	9.7	59	0.2	41.5	15.5	587	3.09	10.9	1.6	5.4	3.8	21	0.1	1.3	0.1	62	0.33	0.074
8081	Soil	1.2	29.7	9.2	45	0.1	28.3	9.6	291	2.54	9.1	1.4	2.9	2.2	19	0.2	1.2	0.1	61	0.24	0.035
8082	Soil	1.0	28.9	8.9	54	0.1	32.6	15.6	602	2.76	10.7	1.8	4.2	2.1	27	<0.1	2.9	0.1	60	0.43	0.066
8083	Soil	1.2	24.6	10.0	58	<0.1	30.9	17.1	833	2.67	16.5	1.2	3.2	2.4	39	0.2	3.2	0.1	54	0.75	0.073
8084	Soil	1.5	24.8	9.9	83	<0.1	29.1	15.9	522	3.13	13.7	0.9	39.7	8.7	15	0.2	1.4	0.1	43	0.27	0.059
8085	Soil	1.0	19.5	8.7	59	<0.1	24.4	13.5	765	2.38	6.6	0.9	11.2	4.4	22	0.2	0.8	<0.1	40	0.38	0.055
8086	Soil	1.9	23.4	13.2	61	0.1	36.5	16.0	466	4.32	24.3	1.2	31.7	7.0	22	0.1	1.3	<0.1	53	0.45	0.060
8087	Soil	0.9	23.7	7.2	61	<0.1	23.0	12.0	437	2.95	8.7	0.8	12.1	4.7	21	0.1	0.5	<0.1	60	0.38	0.055
8088	Soil	0.6	25.9	7.2	54	<0.1	20.6	12.2	324	3.05	8.5	0.6	2.9	2.9	19	<0.1	0.4	0.1	66	0.32	0.065
8089	Soil	1.0	27.3	8.1	48	0.1	14.1	8.7	290	2.46	6.4	0.5	3.2	1.3	20	0.2	0.4	0.2	63	0.28	0.042
8090	Soil	0.9	28.5	7.9	52	<0.1	22.3	12.9	382	3.01	7.9	0.6	7.2	3.2	16	<0.1	0.4	0.1	67	0.22	0.035
8091	Soil	1.0	19.4	9.3	52	<0.1	19.8	11.3	246	3.08	9.5	0.6	5.5	3.1	17	<0.1	0.5	0.2	69	0.21	0.040
8092	Soil	1.6	25.4	7.1	66	<0.1	15.9	12.5	425	3.58	7.0	0.4	11.4	1.8	12	0.1	0.4	0.1	87	0.14	0.033
8093	Soil	1.3	29.3	7.6	60	0.1	18.8	11.8	423	3.45	8.1	0.5	6.8	2.9	11	<0.1	0.5	0.1	79	0.12	0.024
8094	Soil	1.1	15.2	7.3	49	<0.1	18.6	11.1	302	3.48	9.5	0.4	15.7	2.0	11	<0.1	0.6	0.2	73	0.13	0.027
8095	Soil	1.0	18.7	6.7	38	<0.1	13.2	8.0	251	2.61	6.4	0.3	0.6	1.6	13	<0.1	0.3	0.1	68	0.17	0.021
8096	Soil	1.1	28.3	5.8	38	0.1	15.5	13.9	1067	2.59	5.1	0.4	1.6	1.2	16	<0.1	0.3	0.1	65	0.27	0.033
8097	Soil	1.1	20.5	5.1	39	0.2	13.7	9.0	264	2.66	5.2	0.3	0.6	1.0	10	0.1	0.3	0.1	71	0.16	0.033
8098	Soil	0.9	16.1	5.0	39	<0.1	12.1	8.6	337	2.26	4.8	0.3	4.6	0.8	20	0.3	0.3	0.1	61	0.45	0.032
8099	Soil	0.6	26.6	3.7	50	<0.1	15.5	13.6	355	2.71	5.1	0.4	8.1	1.2	24	0.1	0.3	<0.1	65	0.55	0.063
8100	Soil	0.6	15.8	6.4	43	0.1	15.0	9.8	248	2.41	3.2	0.5	2.7	0.7	17	0.1	0.2	<0.1	54	0.33	0.059
8101	Soil	1.3	20.2	6.3	49	0.1	22.2	11.6	345	2.85	3.1	0.5	5.6	1.2	22	0.1	0.1	<0.1	83	0.42	0.063
8102	Soil	1.2	23.3	4.7	56	0.1	22.6	13.1	340	3.19	2.9	0.6	1.7	1.2	18	0.2	0.1	<0.1	79	0.41	0.082
8103	Soil	1.1	19.3	4.9	62	<0.1	16.7	8.2	226	2.23	5.5	0.4	3.0	1.0	15	0.1	0.1	<0.1	57	0.26	0.036
8104	Soil	1.4	23.1	7.4	63	0.1	19.7	13.8	753	3.00	7.9	0.7	1.6	1.2	26	0.2	0.2	<0.1	76	0.82	0.068



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8075	Soil	5	27	1.52	286	0.200	<1	2.62	0.012	0.40	<0.1	0.01	2.2	0.2	<0.05	6	<0.5
8076	Soil	6	23	1.11	227	0.166	1	2.08	0.013	0.24	0.1	0.02	2.2	0.2	<0.05	7	<0.5
8077	Soil	15	29	0.85	275	0.105	1	1.83	0.012	0.09	<0.1	0.02	3.6	0.1	<0.05	6	<0.5
8078	Soil	12	29	0.71	492	0.091	<1	1.69	0.012	0.07	<0.1	0.02	3.4	0.1	<0.05	5	0.5
8079	Soil	10	33	0.56	243	0.064	<1	1.81	0.011	0.05	0.2	0.03	3.2	<0.1	<0.05	5	<0.5
8080	Soil	17	65	0.82	299	0.082	<1	1.69	0.012	0.16	0.1	0.03	3.1	0.3	<0.05	6	<0.5
8081	Soil	16	46	0.63	276	0.079	1	1.52	0.012	0.08	0.1	0.04	2.4	0.2	<0.05	6	<0.5
8082	Soil	15	58	0.91	429	0.084	1	1.64	0.013	0.09	<0.1	0.10	2.8	0.3	<0.05	5	<0.5
8083	Soil	14	42	0.69	382	0.068	<1	1.32	0.014	0.06	0.2	0.10	2.8	0.3	<0.05	5	<0.5
8084	Soil	22	33	0.47	94	0.062	2	1.05	0.010	0.15	0.2	0.03	3.1	0.2	<0.05	4	<0.5
8085	Soil	17	33	0.51	183	0.056	1	1.12	0.013	0.12	<0.1	0.06	2.8	0.2	<0.05	4	<0.5
8086	Soil	29	38	0.54	292	0.053	<1	1.26	0.010	0.10	<0.1	0.06	3.6	0.1	<0.05	4	<0.5
8087	Soil	18	37	0.68	325	0.080	<1	1.67	0.014	0.11	0.1	0.05	4.4	<0.1	<0.05	5	<0.5
8088	Soil	11	33	0.69	289	0.089	2	1.89	0.012	0.11	<0.1	0.02	3.1	0.1	<0.05	6	<0.5
8089	Soil	7	29	0.44	247	0.068	<1	1.49	0.016	0.08	<0.1	0.04	3.0	0.1	<0.05	6	<0.5
8090	Soil	10	34	0.61	276	0.079	<1	2.00	0.012	0.06	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5
8091	Soil	10	32	0.51	283	0.069	1	2.02	0.011	0.06	0.1	0.05	3.5	<0.1	<0.05	6	0.6
8092	Soil	7	32	0.80	209	0.106	<1	1.99	0.009	0.13	0.1	0.02	3.2	0.1	<0.05	7	0.5
8093	Soil	8	32	0.78	215	0.106	1	2.23	0.010	0.10	0.1	0.03	4.2	0.1	<0.05	7	<0.5
8094	Soil	7	31	0.62	164	0.067	2	2.26	0.013	0.05	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5
8095	Soil	7	25	0.52	187	0.067	2	1.98	0.015	0.07	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5
8096	Soil	6	26	0.51	225	0.052	1	1.67	0.015	0.05	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5
8097	Soil	5	23	0.57	117	0.064	2	1.54	0.016	0.06	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5
8098	Soil	5	22	0.43	242	0.061	2	1.24	0.020	0.08	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5
8099	Soil	5	24	0.86	259	0.074	2	1.74	0.026	0.09	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5
8100	Soil	7	31	0.75	164	0.069	2	1.59	0.016	0.05	<0.1	0.04	3.5	<0.1	<0.05	6	<0.5
8101	Soil	7	46	0.98	283	0.104	3	1.57	0.019	0.12	<0.1	0.03	3.5	0.1	<0.05	6	0.5
8102	Soil	6	50	1.13	325	0.125	2	1.90	0.020	0.32	<0.1	0.03	3.5	0.1	<0.05	7	<0.5
8103	Soil	6	41	0.69	195	0.105	<1	1.25	0.015	0.23	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5
8104	Soil	9	37	0.78	355	0.100	2	1.32	0.018	0.14	<0.1	0.04	4.0	0.1	<0.05	6	0.6



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
8105	Soil	0.8	25.6	7.0	73	<0.1	17.8	10.9	534	2.52	10.7	1.0	1.3	1.6	34	0.2	0.3	<0.1	54	1.60
8106	Soil	1.1	40.8	6.5	88	0.2	24.4	13.8	776	3.59	14.7	0.7	38.3	1.7	27	0.4	0.2	<0.1	103	1.36
8107	Soil	0.6	29.6	7.6	74	0.1	18.4	10.8	701	2.14	7.5	0.9	1.6	0.8	46	0.7	0.2	<0.1	51	2.44
8108	Soil	0.6	31.0	6.4	101	0.2	27.8	13.2	554	3.37	7.5	1.0	2.4	2.1	33	0.4	0.2	<0.1	72	0.93
8109	Soil	1.4	33.5	7.1	79	0.1	22.6	14.3	529	3.62	9.4	0.5	1.1	2.0	21	<0.1	0.1	<0.1	83	0.52
8110	Soil	4.1	32.3	10.3	112	0.2	28.1	14.3	638	4.11	19.6	0.8	4.0	3.1	35	0.3	0.4	0.1	69	0.58
8111	Soil	1.5	25.3	7.4	75	0.1	24.4	15.9	563	3.29	6.2	0.7	2.2	2.8	34	0.2	0.2	0.1	63	0.84
8112	Soil	1.2	22.3	10.4	68	0.1	20.0	12.0	418	3.50	5.2	0.4	2.6	2.5	12	0.1	0.2	<0.1	86	0.19
8113	Soil	1.4	13.4	15.2	69	0.1	12.9	13.7	741	3.00	6.5	0.4	1.0	1.3	13	0.2	0.2	0.2	79	0.18
8114	Soil	0.8	17.6	7.6	45	0.1	12.1	7.8	177	2.11	4.5	0.3	0.9	1.1	17	<0.1	0.2	0.1	66	0.28
8115	Soil	0.6	23.2	10.1	68	0.1	15.1	12.2	295	2.96	6.0	0.3	1.7	1.1	20	0.3	0.2	<0.1	81	0.38
8116	Soil	0.7	43.5	9.4	143	0.1	13.6	17.1	651	4.22	3.2	0.3	7.3	0.8	39	0.2	0.1	<0.1	113	0.36
8117	Soil	0.9	22.2	17.8	84	<0.1	16.2	13.7	388	3.34	5.6	0.4	1.2	2.2	16	0.2	0.2	<0.1	78	0.29
8118	Soil	0.9	14.8	7.6	71	0.1	15.2	9.8	737	2.73	5.3	0.6	0.7	2.5	18	0.2	0.2	0.1	64	0.27
8119	Soil	1.2	18.3	5.8	54	<0.1	19.4	12.0	340	3.51	6.5	0.6	6.9	3.0	17	<0.1	0.3	0.1	82	0.26
8120	Soil	0.9	16.8	8.0	52	<0.1	21.2	10.3	328	2.77	6.5	0.8	0.5	4.1	19	<0.1	0.3	0.1	66	0.27
8121	Soil	1.4	17.2	7.5	54	0.2	13.1	7.5	230	2.46	5.1	0.7	1.4	2.8	21	<0.1	0.2	0.1	62	0.37
8122	Soil	0.9	48.1	4.8	95	0.2	13.4	34.5	989	5.38	5.9	0.3	0.7	1.2	59	0.2	0.3	<0.1	145	1.45
8123	Soil	1.1	24.4	5.8	64	0.1	25.5	16.6	697	3.59	8.5	0.8	3.0	3.8	27	0.2	0.4	0.1	62	0.65
8124	Soil	1.0	38.4	5.7	63	0.2	23.1	14.5	740	3.14	7.3	1.3	16.5	2.3	38	0.2	0.3	<0.1	56	1.28
8125	Soil	0.6	15.8	4.4	91	<0.1	16.1	14.1	667	3.59	10.1	0.4	0.8	1.9	25	<0.1	0.2	<0.1	83	0.78
8126	Soil	2.1	23.5	6.1	68	0.1	20.3	14.6	665	3.70	16.0	0.5	<0.5	2.1	21	0.1	0.3	<0.1	82	0.41
8127	Soil	6.3	41.3	12.8	216	0.3	36.0	13.5	688	3.23	90.5	1.7	1.1	1.7	62	3.6	2.4	0.2	57	1.44
8128	Soil	1.6	27.3	5.6	83	0.2	17.9	13.8	558	2.80	18.8	0.8	1.9	2.7	28	0.5	0.4	0.1	63	0.59
8129	Soil	1.4	27.4	5.8	73	0.1	16.7	14.7	710	3.11	14.8	0.7	2.0	1.9	24	0.2	0.5	0.1	68	0.48
8130	Soil	1.1	33.4	4.5	102	<0.1	17.5	16.3	899	4.14	10.8	0.6	4.1	2.1	19	0.3	0.8	<0.1	88	0.61
8131	Soil	0.7	38.1	4.1	78	<0.1	12.0	15.5	410	3.96	7.6	0.4	<0.5	1.3	25	0.1	0.4	<0.1	109	0.73
8132	Soil	0.8	22.7	6.7	85	0.2	13.8	13.1	570	4.13	6.5	0.6	2.0	1.5	27	0.2	0.3	<0.1	105	0.82
8133	Soil	0.8	25.4	5.0	80	0.1	14.9	12.3	589	3.49	6.4	0.6	1.8	1.7	24	0.2	0.3	<0.1	92	0.59
8134	Soil	0.8	21.1	4.9	69	0.1	11.3	10.2	409	2.67	3.1	0.4	3.6	0.8	24	0.3	0.2	0.1	75	0.58



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8105	Soil	11	28	0.72	350	0.081	2	1.33	0.022	0.14	<0.1	0.04	3.5	0.1	0.06	4	<0.5
8106	Soil	8	36	1.23	488	0.122	2	1.64	0.013	0.64	<0.1	0.03	6.2	0.2	<0.05	7	0.6
8107	Soil	10	31	1.05	431	0.064	3	1.33	0.023	0.15	<0.1	0.04	3.2	0.1	0.05	4	0.8
8108	Soil	14	45	1.38	366	0.096	2	1.89	0.017	0.22	<0.1	0.05	5.3	0.2	<0.05	6	0.8
8109	Soil	9	42	1.12	340	0.125	2	1.79	0.013	0.27	<0.1	0.02	3.8	0.1	<0.05	6	<0.5
8110	Soil	11	43	1.00	341	0.097	1	1.71	0.022	0.33	<0.1	0.02	4.2	0.2	0.09	6	0.9
8111	Soil	13	41	0.83	424	0.081	1	1.43	0.014	0.17	<0.1	0.02	4.2	0.2	<0.05	5	<0.5
8112	Soil	9	43	0.95	180	0.147	<1	1.96	0.012	0.28	<0.1	0.02	2.6	0.3	<0.05	8	<0.5
8113	Soil	8	22	0.62	167	0.113	1	1.56	0.012	0.15	<0.1	0.02	1.8	0.1	<0.05	7	<0.5
8114	Soil	6	22	0.55	187	0.109	2	1.33	0.018	0.07	<0.1	0.02	2.4	0.1	<0.05	6	<0.5
8115	Soil	6	26	0.95	273	0.127	1	1.99	0.016	0.17	<0.1	0.02	2.3	0.1	<0.05	6	<0.5
8116	Soil	4	29	1.67	422	0.194	<1	2.66	0.027	0.69	<0.1	0.01	3.1	0.2	0.09	8	<0.5
8117	Soil	8	28	1.01	250	0.115	1	1.80	0.011	0.29	<0.1	0.02	2.2	0.1	<0.05	5	<0.5
8118	Soil	11	28	0.68	239	0.091	1	1.86	0.014	0.13	<0.1	0.02	2.8	0.1	<0.05	6	<0.5
8119	Soil	9	34	0.93	177	0.100	<1	2.10	0.012	0.10	<0.1	0.01	3.3	<0.1	<0.05	8	0.6
8120	Soil	26	36	0.61	371	0.054	1	1.92	0.013	0.05	<0.1	0.02	3.7	<0.1	<0.05	6	0.5
8121	Soil	22	24	0.57	297	0.087	1	1.54	0.013	0.13	<0.1	0.02	2.8	0.1	<0.05	7	<0.5
8122	Soil	3	18	1.35	517	0.173	1	2.43	0.034	0.42	<0.1	0.02	3.8	0.2	<0.05	9	<0.5
8123	Soil	20	27	0.59	438	0.052	1	1.36	0.016	0.11	0.2	0.04	7.7	<0.1	<0.05	4	0.5
8124	Soil	26	27	0.63	440	0.061	1	1.46	0.017	0.18	<0.1	0.07	7.5	<0.1	<0.05	4	1.1
8125	Soil	8	26	1.49	365	0.160	1	1.92	0.017	0.55	<0.1	0.01	4.2	0.2	<0.05	7	<0.5
8126	Soil	10	43	0.98	354	0.123	<1	2.06	0.015	0.16	<0.1	0.02	2.9	0.2	<0.05	7	<0.5
8127	Soil	16	24	0.61	482	0.036	3	1.14	0.021	0.12	<0.1	0.09	4.5	<0.1	0.10	4	2.6
8128	Soil	12	27	0.71	296	0.084	<1	1.40	0.019	0.18	<0.1	0.03	3.5	0.1	<0.05	5	<0.5
8129	Soil	12	26	0.76	398	0.079	1	1.34	0.018	0.18	<0.1	0.03	3.8	0.1	<0.05	5	0.6
8130	Soil	11	30	0.97	527	0.128	1	1.80	0.019	0.41	<0.1	0.04	8.2	0.1	<0.05	6	0.6
8131	Soil	7	20	1.26	467	0.139	1	1.94	0.028	0.39	<0.1	0.02	5.8	0.2	<0.05	7	<0.5
8132	Soil	10	26	1.54	501	0.164	2	2.10	0.018	0.54	0.1	0.03	4.8	0.2	<0.05	8	<0.5
8133	Soil	12	27	1.33	484	0.132	<1	1.96	0.017	0.37	0.1	0.03	4.5	0.1	<0.05	7	<0.5
8134	Soil	7	21	0.83	423	0.119	<1	1.43	0.022	0.18	0.1	0.03	2.7	0.1	<0.05	7	<0.5



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Project:

Ballarat

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Part 1

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
8135	Soil	0.7	29.4	8.1	71	0.1	16.3	13.1	701	2.94	2.6	0.7	5.7	1.1	50	0.4	0.2	<0.1	80	2.07	0.179
8136	Soil	0.7	23.0	4.0	73	<0.1	9.2	22.2	793	3.93	3.2	0.4	1.0	1.4	31	0.1	0.1	<0.1	94	1.00	0.420
8137	Soil	0.7	42.7	4.3	70	0.1	15.4	18.1	542	3.67	4.3	0.5	1.8	1.6	25	<0.1	0.1	<0.1	84	0.67	0.215
8138	Soil	0.6	17.5	5.6	61	0.1	9.7	6.7	177	2.17	2.3	0.5	1.1	0.8	17	0.2	0.1	<0.1	50	0.37	0.092
8139	Soil	1.0	24.7	4.8	70	<0.1	16.4	13.3	617	2.94	5.9	0.7	0.6	1.7	41	0.2	0.3	<0.1	59	0.99	0.082
8140	Soil	0.9	29.8	6.2	77	0.2	20.8	11.5	417	3.03	4.3	0.7	5.7	1.8	20	0.1	0.2	<0.1	65	0.42	0.079
8141	Soil	1.3	19.1	4.8	64	<0.1	15.2	12.0	650	2.71	6.0	0.6	1.4	1.4	29	0.2	0.3	<0.1	67	0.99	0.080
8142	Soil	1.3	15.1	6.8	59	<0.1	13.2	9.4	368	2.50	5.6	0.5	3.9	1.6	17	0.2	0.2	<0.1	67	0.38	0.051
8143	Soil	0.8	24.2	8.6	64	0.2	13.3	7.8	149	2.00	3.6	0.7	2.1	1.0	17	0.3	0.1	0.1	51	0.29	0.069
8144	Soil	0.7	18.5	5.8	48	0.1	13.5	5.4	141	1.79	2.7	0.6	4.1	1.0	12	0.1	0.1	<0.1	40	0.24	0.052
8145	Soil	1.1	16.3	21.9	66	0.1	13.4	9.2	286	2.58	4.1	0.6	10.6	1.4	13	0.3	0.2	0.1	70	0.26	0.068
8146	Soil	0.8	17.5	7.0	52	0.1	16.2	7.7	159	2.23	3.8	0.6	1.7	1.1	16	0.2	0.1	<0.1	54	0.30	0.054
8147	Soil	0.9	26.0	5.0	42	0.2	21.5	10.6	223	2.36	2.8	0.5	1.7	0.8	13	0.2	0.1	<0.1	67	0.27	0.066
8148	Soil	0.8	27.1	5.1	43	0.1	11.4	9.9	214	2.38	3.2	0.4	1.3	0.6	14	0.1	0.1	<0.1	64	0.36	0.101
8149	Soil	0.8	29.0	4.3	40	0.2	13.9	7.7	180	2.20	2.3	0.6	1.8	0.6	13	0.1	0.1	<0.1	53	0.27	0.069
8150	Soil	1.3	30.2	4.3	56	<0.1	21.0	12.1	365	3.29	5.7	0.3	1.2	1.1	10	0.1	0.2	0.1	106	0.20	0.049
8151	Soil	1.7	41.9	11.2	78	0.1	26.6	17.8	527	4.08	7.1	0.5	7.8	1.8	16	0.1	0.2	0.3	112	0.37	0.068
8152	Soil	1.5	18.4	5.8	55	0.2	12.5	8.2	256	2.91	5.9	0.3	2.7	1.0	11	0.1	0.2	0.1	95	0.19	0.040
8153	Soil	1.9	19.0	8.3	56	<0.1	8.2	6.4	300	2.49	3.9	0.4	6.7	1.5	9	<0.1	0.2	0.2	68	0.09	0.024
8154	Soil	1.2	27.2	9.0	60	0.2	16.8	13.8	476	3.19	5.2	0.6	6.5	1.2	18	0.1	0.2	0.1	80	0.39	0.052
8155	Soil	1.5	36.7	22.6	86	0.2	15.2	13.6	512	3.49	4.1	0.9	13.2	2.1	22	0.2	0.3	0.2	83	0.42	0.078
8156	Soil	1.1	17.2	15.0	55	0.1	9.9	10.6	499	2.24	3.3	0.3	3.5	1.0	12	0.2	0.2	0.2	74	0.21	0.038
8157	Soil	1.6	31.3	11.8	113	<0.1	18.3	23.2	782	3.72	7.2	0.5	5.7	1.9	23	0.2	0.3	<0.1	89	0.51	0.097
8158	Soil	1.6	27.1	6.6	67	0.2	11.3	12.8	313	2.21	5.8	0.6	12.1	0.9	18	0.2	0.2	<0.1	61	0.16	0.050
8159	Soil	0.4	7.0	3.1	10	<0.1	2.2	1.2	30	0.55	0.6	0.2	0.9	0.2	6	<0.1	<0.1	<0.1	21	0.05	0.013
8160	Soil	1.3	19.0	7.9	47	<0.1	12.0	8.8	423	2.40	3.8	0.3	4.3	1.0	10	<0.1	0.2	0.1	68	0.14	0.046
8161	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8162	Soil	0.9	14.2	10.7	61	<0.1	13.6	9.5	494	2.67	4.7	0.8	5.2	4.6	15	<0.1	0.2	0.1	52	0.28	0.061
8163	Soil	0.8	15.3	4.2	75	<0.1	19.3	11.5	586	3.30	4.6	0.4	1.2	1.9	17	<0.1	0.2	<0.1	89	0.41	0.056
8164	Soil	1.1	14.3	4.9	61	<0.1	16.3	10.7	472	2.83	5.5	0.4	1.9	1.5	20	<0.1	0.2	0.1	75	0.40	0.053



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8135	Soil	9	33	1.78	367	0.102	2	2.00	0.026	0.21	<0.1	0.04	4.6	0.1	0.05	7	<0.5
8136	Soil	6	18	1.37	354	0.148	1	2.04	0.023	0.60	0.1	0.02	2.9	0.2	<0.05	7	<0.5
8137	Soil	7	28	1.15	489	0.149	<1	2.20	0.019	0.39	0.1	0.02	3.7	0.2	<0.05	7	<0.5
8138	Soil	7	22	0.88	214	0.097	1	1.45	0.019	0.18	0.1	0.04	2.7	0.1	<0.05	6	<0.5
8139	Soil	8	29	1.01	635	0.097	2	1.44	0.023	0.20	0.1	0.03	3.0	0.1	0.05	5	0.7
8140	Soil	9	39	1.08	312	0.110	<1	1.77	0.018	0.21	<0.1	0.04	3.3	0.1	<0.05	7	<0.5
8141	Soil	8	29	0.83	242	0.098	2	1.34	0.019	0.20	0.2	0.03	3.3	<0.1	<0.05	5	<0.5
8142	Soil	8	27	0.72	197	0.099	1	1.27	0.016	0.09	0.2	0.04	2.9	<0.1	<0.05	5	<0.5
8143	Soil	8	27	0.72	231	0.086	1	1.26	0.019	0.11	0.1	0.04	2.4	0.1	<0.05	6	0.6
8144	Soil	9	28	0.62	146	0.083	<1	1.40	0.017	0.11	0.1	0.04	2.5	<0.1	0.06	5	<0.5
8145	Soil	8	30	0.72	148	0.102	<1	1.47	0.016	0.12	0.1	0.03	3.2	0.1	<0.05	6	<0.5
8146	Soil	8	30	0.79	190	0.093	1	1.35	0.017	0.11	<0.1	0.03	2.7	0.1	<0.05	6	<0.5
8147	Soil	6	44	0.88	156	0.095	<1	1.34	0.021	0.11	<0.1	0.03	2.8	0.1	<0.05	6	<0.5
8148	Soil	6	27	0.79	176	0.086	1	1.40	0.028	0.12	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5
8149	Soil	6	34	0.61	148	0.086	<1	1.26	0.021	0.11	<0.1	0.03	3.1	0.1	<0.05	6	<0.5
8150	Soil	5	44	0.83	114	0.127	<1	1.51	0.018	0.15	0.1	0.02	3.5	<0.1	<0.05	7	<0.5
8151	Soil	9	49	1.07	269	0.125	<1	2.21	0.020	0.16	0.2	0.02	5.7	<0.1	<0.05	8	0.5
8152	Soil	5	25	0.69	77	0.117	1	1.31	0.021	0.11	0.1	0.04	2.9	<0.1	<0.05	8	<0.5
8153	Soil	7	19	0.56	104	0.116	<1	1.25	0.019	0.11	0.1	0.02	3.9	0.1	<0.05	8	<0.5
8154	Soil	10	33	0.67	298	0.086	<1	1.68	0.025	0.10	<0.1	0.04	4.7	<0.1	<0.05	7	<0.5
8155	Soil	14	25	1.01	588	0.111	1	1.84	0.024	0.23	<0.1	0.06	6.7	0.1	<0.05	7	0.7
8156	Soil	7	21	0.61	195	0.096	1	1.24	0.018	0.12	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
8157	Soil	8	29	1.04	438	0.134	<1	1.94	0.028	0.33	0.1	0.02	5.2	0.2	<0.05	7	0.5
8158	Soil	7	21	0.72	263	0.083	1	1.40	0.021	0.23	<0.1	0.04	3.4	0.2	0.08	6	0.6
8159	Soil	2	6	0.04	51	0.028	<1	0.26	0.019	0.03	<0.1	0.02	0.7	<0.1	<0.05	2	<0.5
8160	Soil	6	26	0.52	158	0.076	<1	0.99	0.019	0.11	<0.1	0.05	2.5	<0.1	<0.05	6	<0.5
8161	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8162	Soil	18	25	0.60	197	0.078	<1	1.31	0.010	0.15	0.2	0.01	3.1	0.2	<0.05	5	<0.5
8163	Soil	11	41	1.28	357	0.162	1	1.98	0.016	0.38	0.1	0.02	5.1	0.2	<0.05	8	<0.5
8164	Soil	8	31	0.80	309	0.121	1	1.71	0.015	0.19	0.1	0.02	3.2	<0.1	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
8165	Soil	0.8	26.0	3.6	85	<0.1	22.4	15.9	632	3.79	13.2	0.4	1.3	2.0	25	0.1	0.2	<0.1	98	0.68	0.140
8166	Soil	2.0	31.1	6.3	94	0.3	22.8	11.1	575	3.29	8.8	1.1	3.1	3.0	26	0.4	0.3	0.1	75	0.62	0.070
8167	Soil	1.2	32.1	5.3	81	<0.1	16.9	10.4	559	3.09	5.6	0.5	1.5	2.7	18	0.3	0.2	0.1	71	0.35	0.070
8168	Soil	1.3	41.6	5.7	76	0.2	15.3	13.9	704	3.38	5.2	1.3	4.9	2.9	22	0.1	0.2	0.1	73	0.56	0.060
8169	Soil	1.0	32.0	4.2	56	0.1	15.5	11.2	769	2.38	4.2	1.0	2.9	1.3	39	0.3	0.3	<0.1	46	1.84	0.071
8170	Soil	1.2	36.9	6.6	97	<0.1	21.2	12.6	682	3.28	2.8	0.4	<0.5	2.0	17	0.3	0.2	0.2	82	0.45	0.033
8171	Soil	1.2	22.7	8.5	50	0.3	14.4	7.9	256	2.69	6.5	0.5	3.1	2.5	14	0.1	0.3	0.2	70	0.19	0.022
8172	Soil	0.8	17.2	6.4	42	<0.1	9.1	6.7	313	1.83	2.6	0.3	1.2	1.0	16	0.1	0.2	0.1	60	0.23	0.027
8173	Soil	1.5	20.9	7.0	63	<0.1	15.3	13.2	440	3.61	6.7	0.4	1.3	1.8	20	<0.1	0.3	0.1	90	0.35	0.044
8174	Soil	1.0	37.2	6.3	70	0.2	16.5	16.7	895	3.00	5.1	1.0	1.8	2.6	27	0.1	0.4	0.1	62	0.55	0.054
8175	Soil	0.7	24.7	5.3	75	0.1	14.4	11.6	431	3.06	4.2	0.8	2.0	2.8	24	0.1	0.2	<0.1	62	0.49	0.053
8176	Soil	0.9	20.6	6.3	56	0.1	12.4	8.4	238	2.31	4.3	0.7	2.5	1.7	23	<0.1	0.3	0.1	48	0.38	0.048
8177	Soil	1.2	36.2	9.1	90	0.2	18.2	13.7	392	3.33	5.7	1.1	2.3	2.8	24	<0.1	0.4	0.1	66	0.48	0.055
8178	Soil	1.0	27.9	6.4	63	0.2	15.5	14.4	533	2.88	4.5	0.9	2.2	1.6	25	<0.1	0.3	<0.1	63	0.50	0.067
8179	Soil	1.3	32.4	12.5	104	0.1	16.6	15.2	770	3.51	6.5	1.6	1.8	3.3	23	0.3	0.3	0.1	74	0.58	0.086
8180	Soil	1.2	35.3	5.8	82	<0.1	20.3	14.6	544	3.63	7.3	1.1	1.6	3.5	30	0.1	0.4	0.1	87	0.64	0.078
8181	Soil	0.8	27.1	6.6	69	<0.1	15.3	12.7	514	3.10	5.2	0.7	2.0	2.2	30	<0.1	0.3	0.1	74	0.66	0.088
8182	Soil	1.0	32.5	6.9	82	0.1	17.1	13.0	664	3.37	10.5	1.1	0.5	2.5	50	0.2	0.5	<0.1	67	0.94	0.096
8183	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8184	Soil	1.8	92.0	6.9	97	0.1	26.9	19.0	875	5.06	24.5	1.0	4.1	3.2	21	0.2	0.8	0.1	85	0.47	0.100
8185	Soil	1.0	38.8	7.4	71	0.1	19.4	12.1	418	2.87	9.3	1.1	13.7	2.7	32	<0.1	0.4	0.1	71	0.76	0.080
8186	Soil	1.6	37.5	6.6	58	0.1	17.5	14.1	762	2.90	8.3	1.1	4.9	1.8	35	<0.1	0.3	0.1	68	0.90	0.086
8187	Soil	1.8	45.6	8.1	66	0.3	23.3	13.3	568	2.91	6.1	1.7	2.9	3.2	27	0.1	0.2	<0.1	59	0.58	0.067
8188	Soil	1.5	54.6	13.6	94	0.6	28.9	11.9	478	2.77	4.4	3.3	4.7	4.4	35	0.3	0.3	0.2	57	0.67	0.081
8189	Soil	1.4	28.2	16.3	79	0.2	16.5	10.5	496	2.42	5.3	1.5	2.7	2.9	29	0.2	0.3	0.2	56	0.60	0.069
8190	Soil	0.6	42.7	3.8	92	<0.1	43.8	29.9	1193	5.17	3.5	0.4	7.0	1.3	33	<0.1	0.1	<0.1	123	1.11	0.331
8191	Soil	1.0	28.3	7.0	85	0.1	18.7	12.5	465	3.53	5.7	0.7	1.3	2.8	24	<0.1	0.2	0.1	78	0.48	0.088
8192	Soil	0.8	55.7	4.1	72	<0.1	21.0	23.3	420	4.50	3.6	0.4	1.4	1.5	60	<0.1	0.1	<0.1	113	1.40	0.457
8193	Soil	1.0	51.6	6.2	77	<0.1	23.9	26.4	824	4.93	6.1	0.6	1.2	1.8	63	0.2	0.4	<0.1	126	1.47	0.418
8194	Soil	2.4	59.4	18.6	153	0.2	41.5	18.9	675	4.81	5.9	0.9	2.0	2.4	24	0.4	0.2	0.1	122	0.61	0.187



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8165	Soil	8	83	1.54	369	0.150	<1	1.93	0.016	0.52	0.1	0.02	4.4	0.2	<0.05	7	<0.5
8166	Soil	17	34	0.71	641	0.096	<1	1.65	0.016	0.16	0.1	0.03	5.5	0.1	<0.05	6	0.8
8167	Soil	11	27	1.09	426	0.146	<1	1.83	0.012	0.47	<0.1	0.02	3.6	0.2	<0.05	6	<0.5
8168	Soil	22	24	0.87	613	0.114	<1	1.87	0.014	0.40	<0.1	0.06	6.3	0.2	<0.05	7	<0.5
8169	Soil	24	18	0.56	579	0.063	1	1.38	0.021	0.19	0.1	0.05	3.8	<0.1	0.08	4	0.7
8170	Soil	4	47	1.25	197	0.185	<1	1.91	0.019	0.68	0.1	0.02	4.6	0.2	<0.05	8	<0.5
8171	Soil	12	27	0.49	243	0.089	<1	1.56	0.014	0.08	0.1	0.02	2.7	<0.1	<0.05	6	<0.5
8172	Soil	6	20	0.55	221	0.106	<1	1.11	0.016	0.17	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
8173	Soil	7	26	0.83	277	0.119	<1	1.96	0.013	0.12	0.1	0.02	3.1	<0.1	<0.05	8	<0.5
8174	Soil	13	24	0.70	638	0.092	<1	2.05	0.015	0.20	<0.1	0.05	6.4	0.1	<0.05	6	<0.5
8175	Soil	11	23	0.80	484	0.111	<1	1.81	0.016	0.17	<0.1	0.03	4.5	0.2	<0.05	5	<0.5
8176	Soil	8	21	0.49	342	0.068	<1	1.42	0.015	0.08	0.1	0.03	3.1	<0.1	<0.05	5	<0.5
8177	Soil	16	26	0.69	448	0.085	<1	1.94	0.015	0.10	0.1	0.07	5.8	0.1	<0.05	6	0.7
8178	Soil	12	22	0.67	482	0.074	<1	1.71	0.016	0.13	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5
8179	Soil	26	23	0.83	394	0.104	<1	1.83	0.011	0.28	<0.1	0.05	5.2	0.2	<0.05	6	0.8
8180	Soil	20	40	1.02	515	0.127	2	1.86	0.017	0.47	<0.1	0.05	6.7	0.2	<0.05	7	0.6
8181	Soil	11	25	0.80	319	0.095	1	1.76	0.015	0.19	0.1	<0.01	3.6	0.1	<0.05	7	<0.5
8182	Soil	13	26	0.78	342	0.085	1	1.51	0.016	0.26	<0.1	0.04	5.2	0.2	<0.05	5	0.5
8183	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8184	Soil	18	35	0.93	562	0.089	1	1.75	0.013	0.20	0.1	0.02	8.1	0.2	<0.05	6	0.6
8185	Soil	12	30	0.82	280	0.104	1	1.72	0.017	0.18	0.2	0.03	4.9	0.2	<0.05	5	0.7
8186	Soil	13	27	0.68	386	0.094	1	1.55	0.019	0.16	0.2	0.05	4.4	0.1	0.06	5	0.6
8187	Soil	24	35	0.83	390	0.099	2	1.83	0.016	0.21	<0.1	0.05	5.0	0.1	<0.05	6	<0.5
8188	Soil	60	43	0.82	806	0.096	<1	2.13	0.019	0.25	0.1	0.08	6.4	0.2	0.05	6	0.8
8189	Soil	15	30	0.67	303	0.086	<1	1.48	0.014	0.12	<0.1	0.03	3.7	0.1	<0.05	6	<0.5
8190	Soil	5	83	2.22	503	0.230	<1	2.87	0.019	1.07	<0.1	0.02	5.1	0.3	<0.05	10	<0.5
8191	Soil	11	35	1.02	306	0.127	<1	1.91	0.015	0.26	<0.1	0.02	4.9	0.1	<0.05	7	<0.5
8192	Soil	5	37	1.42	369	0.153	<1	2.19	0.037	0.55	<0.1	0.01	4.4	0.2	<0.05	8	<0.5
8193	Soil	8	37	1.40	387	0.109	<1	2.22	0.049	0.30	<0.1	0.02	6.4	<0.1	<0.05	7	1.0
8194	Soil	10	70	1.55	842	0.187	<1	2.32	0.017	0.97	<0.1	0.01	6.0	0.3	<0.05	8	0.9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8195	Soil	1.1	33.0	6.0	56	0.2	20.0	9.2	264	2.59	2.4	0.6	2.6	1.0	27	0.1	0.1	<0.1	67	0.59	0.193
8196	Soil	0.7	35.3	13.2	75	0.2	18.2	8.0	239	2.13	3.3	1.2	4.1	1.8	26	0.2	0.3	0.1	60	0.50	0.075
8197	Soil	0.7	27.0	14.0	69	<0.1	20.0	10.4	254	2.76	4.3	0.6	3.5	2.3	24	0.2	0.2	0.1	68	0.50	0.123
8198	Soil	0.7	31.9	12.2	68	0.2	13.3	8.4	297	2.40	3.7	0.9	4.6	1.7	20	0.3	0.2	0.1	60	0.37	0.064
8199	Soil	0.9	27.2	13.9	73	0.2	15.8	9.9	393	2.39	4.9	0.8	2.6	1.7	19	0.3	0.2	0.1	61	0.27	0.061
8200	Soil	1.4	36.3	9.9	88	0.1	17.7	17.7	736	3.08	6.0	0.7	3.1	1.8	29	0.2	0.3	0.1	81	0.60	0.070
8201	Soil	1.1	69.8	8.7	87	0.1	14.0	13.1	592	4.61	2.7	0.5	4.6	1.6	32	0.1	0.3	0.1	141	0.51	0.065
8202	Soil	2.6	45.4	19.5	82	<0.1	12.8	11.3	442	5.45	4.5	0.5	14.7	2.0	28	0.1	0.3	0.3	94	0.44	0.076
8203	Soil	1.1	20.1	8.1	68	<0.1	14.7	12.5	456	3.28	7.7	0.7	2.2	3.0	27	0.2	0.3	0.1	73	0.59	0.033
8204	Soil	0.9	17.0	8.0	48	0.1	12.2	10.0	468	2.50	4.5	0.7	1.1	1.7	28	0.2	0.5	0.1	53	0.68	0.040
8205	Soil	0.5	33.9	3.8	78	0.1	13.6	19.3	590	3.76	3.8	0.6	1.4	1.5	27	0.1	0.3	<0.1	80	0.74	0.074
8206	Soil	0.4	33.5	5.4	56	0.1	15.1	11.0	426	2.71	4.2	0.8	3.7	1.7	32	0.2	0.6	<0.1	57	0.91	0.059
8207	Soil	0.5	33.6	4.9	57	0.1	15.0	13.6	894	2.83	4.4	0.9	2.1	1.2	43	0.2	0.4	<0.1	56	1.34	0.064
8208	Soil	0.7	22.9	5.5	47	<0.1	13.5	9.3	310	2.49	4.9	0.4	6.2	1.5	17	0.2	0.3	0.1	74	0.26	0.022
8209	Soil	0.8	25.6	6.4	47	0.2	12.4	11.5	521	2.65	4.4	0.5	3.0	1.3	21	0.3	0.3	0.1	71	0.41	0.043
8210	Soil	0.7	31.2	6.0	68	0.2	15.5	13.3	482	3.44	4.7	0.6	3.6	1.3	31	0.2	0.3	0.1	83	0.64	0.054
8211	Soil	0.8	38.8	5.5	58	0.1	15.1	16.5	785	3.18	5.2	0.7	2.5	1.7	34	0.2	0.3	0.1	72	0.81	0.062
8212	Soil	0.9	27.8	7.4	61	<0.1	16.1	15.1	609	3.31	5.8	0.4	<0.5	1.7	24	0.2	0.3	0.1	85	0.51	0.042
8213	Soil	0.6	22.5	6.2	48	0.1	13.1	8.4	213	2.42	3.7	0.4	2.2	1.2	21	0.1	0.2	0.1	71	0.39	0.030
8214	Soil	0.9	25.1	7.6	55	<0.1	15.8	14.7	469	2.86	4.8	0.5	1.2	1.6	22	0.1	0.3	0.1	74	0.40	0.043
8215	Soil	0.8	35.2	5.8	56	0.2	16.0	11.6	320	3.12	5.3	0.6	0.8	1.6	19	0.1	0.3	0.1	78	0.36	0.042
8216	Soil	0.5	42.1	4.9	68	0.1	14.9	18.0	519	3.42	4.8	0.4	1.7	1.5	21	0.2	0.2	<0.1	90	0.50	0.068
8217	Soil	0.8	30.1	4.7	47	<0.1	11.0	9.9	307	2.78	3.6	0.4	0.9	0.9	22	0.2	0.3	0.1	82	0.42	0.041
8218	Soil	0.7	22.6	5.5	53	<0.1	10.1	9.3	757	2.60	4.1	0.2	2.3	0.9	14	0.2	0.3	0.1	79	0.20	0.030
8219	Soil	0.7	24.0	5.6	51	0.2	14.6	12.1	488	3.18	3.5	0.4	1.3	0.9	11	0.2	0.3	0.1	94	0.14	0.038
8220	Soil	0.6	42.6	4.5	79	<0.1	14.7	15.2	349	3.37	5.4	0.3	0.6	1.5	15	0.1	0.3	<0.1	97	0.31	0.037
8221	Soil	0.7	36.9	4.6	78	<0.1	12.1	12.2	359	3.45	4.6	0.6	<0.5	1.7	23	0.1	0.2	<0.1	90	0.42	0.035
8222	Soil	0.8	36.5	8.3	88	<0.1	15.0	14.1	360	2.86	7.0	1.0	2.7	2.2	29	0.2	0.4	<0.1	67	0.67	0.059
8223	Soil	1.1	18.8	7.7	54	0.1	13.7	9.2	449	2.94	7.2	0.4	<0.5	1.6	16	0.2	0.5	0.1	74	0.20	0.023
8224	Soil	1.0	43.6	8.1	68	0.1	17.4	14.5	902	3.02	6.6	1.4	3.0	1.7	51	0.2	0.4	0.1	66	1.15	0.061



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8195	Soil	7	43	0.96	354	0.114	<1	1.56	0.020	0.34	0.1	0.04	3.5	0.1	0.05	6	<0.5
8196	Soil	12	33	0.70	372	0.100	1	1.60	0.020	0.15	0.1	0.06	4.1	0.1	0.10	5	0.7
8197	Soil	11	37	0.93	239	0.127	<1	1.81	0.017	0.24	0.1	0.02	3.4	0.2	<0.05	6	<0.5
8198	Soil	14	28	0.73	337	0.097	<1	1.57	0.018	0.21	0.1	0.04	3.7	0.1	<0.05	6	0.6
8199	Soil	11	31	0.67	258	0.091	<1	1.48	0.016	0.15	0.1	0.05	3.8	0.1	<0.05	6	<0.5
8200	Soil	11	30	0.88	328	0.086	2	1.79	0.021	0.17	0.1	0.06	5.8	0.1	0.06	6	<0.5
8201	Soil	8	29	1.64	638	0.180	<1	2.81	0.036	1.06	<0.1	0.04	6.4	0.4	0.45	7	1.1
8202	Soil	8	26	1.05	292	0.105	<1	1.82	0.024	0.33	<0.1	0.02	4.9	0.1	0.15	7	2.2
8203	Soil	11	23	0.67	349	0.098	1	1.58	0.017	0.20	<0.1	0.03	4.2	0.1	<0.05	6	<0.5
8204	Soil	10	21	0.41	552	0.056	2	1.22	0.017	0.10	0.1	0.05	4.0	<0.1	<0.05	4	<0.5
8205	Soil	7	29	1.31	360	0.163	2	1.89	0.020	0.45	<0.1	0.03	4.6	0.2	<0.05	6	0.6
8206	Soil	10	20	0.55	500	0.059	2	1.24	0.018	0.12	0.1	0.06	6.4	<0.1	<0.05	4	1.0
8207	Soil	10	19	0.54	575	0.050	2	1.27	0.020	0.10	<0.1	0.06	8.7	<0.1	<0.05	4	0.9
8208	Soil	8	22	0.51	214	0.074	<1	1.46	0.017	0.06	0.1	0.03	3.8	<0.1	<0.05	6	<0.5
8209	Soil	8	23	0.46	326	0.069	2	1.48	0.017	0.08	0.1	0.06	4.5	<0.1	<0.05	6	0.7
8210	Soil	7	23	0.56	338	0.065	1	1.60	0.015	0.12	0.1	0.04	8.2	<0.1	<0.05	6	<0.5
8211	Soil	10	24	0.60	346	0.071	2	1.62	0.017	0.09	0.1	0.04	8.2	<0.1	<0.05	5	0.7
8212	Soil	7	26	0.69	274	0.101	<1	1.75	0.019	0.08	<0.1	0.03	5.2	<0.1	<0.05	6	<0.5
8213	Soil	6	23	0.53	190	0.085	3	1.36	0.018	0.09	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5
8214	Soil	7	25	0.60	211	0.098	1	1.61	0.017	0.09	0.1	0.04	4.1	<0.1	<0.05	6	<0.5
8215	Soil	8	27	0.61	216	0.089	<1	1.75	0.017	0.07	0.2	0.03	5.7	<0.1	<0.05	6	<0.5
8216	Soil	7	21	0.74	297	0.093	<1	1.65	0.022	0.12	0.1	0.02	5.7	<0.1	<0.05	6	<0.5
8217	Soil	6	19	0.45	270	0.069	1	1.23	0.017	0.12	0.1	0.04	4.4	<0.1	<0.05	6	0.5
8218	Soil	5	18	0.33	189	0.081	<1	1.08	0.018	0.08	<0.1	0.04	2.7	<0.1	<0.05	6	<0.5
8219	Soil	5	32	0.57	151	0.094	1	1.50	0.018	0.08	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5
8220	Soil	6	24	0.77	141	0.119	<1	1.85	0.025	0.10	<0.1	0.03	4.9	<0.1	<0.05	7	<0.5
8221	Soil	9	21	0.93	317	0.140	<1	1.82	0.022	0.24	<0.1	0.03	5.5	0.1	<0.05	7	<0.5
8222	Soil	10	23	0.79	299	0.113	<1	1.56	0.018	0.29	<0.1	0.05	4.3	0.1	0.05	5	0.8
8223	Soil	6	22	0.47	252	0.091	<1	1.55	0.017	0.09	0.1	0.03	2.7	<0.1	<0.05	7	<0.5
8224	Soil	13	24	0.63	706	0.080	2	1.53	0.019	0.21	<0.1	0.07	5.3	0.1	0.06	5	0.9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8225	Soil	0.9	39.3	6.0	76	0.2	12.2	14.1	336	2.83	3.6	1.0	4.3	1.4	28	0.2	0.2	0.1	68	0.49	0.047
8226	Soil	1.1	38.3	7.7	104	0.1	16.5	14.3	390	3.67	7.7	1.2	3.0	2.5	37	0.2	0.8	<0.1	83	1.02	0.090
8227	Soil	0.7	32.5	4.7	108	<0.1	14.8	17.2	582	3.62	5.7	0.6	<0.5	1.8	25	0.1	0.3	<0.1	92	0.56	0.067
8228	Soil	1.1	26.3	7.2	75	<0.1	15.3	13.4	500	3.29	9.7	1.1	1.4	2.1	39	0.1	0.3	0.1	74	0.80	0.060
8229	Soil	1.0	29.2	7.0	70	0.1	15.8	12.5	466	3.04	7.1	1.7	1.4	2.3	50	0.2	0.4	0.1	72	0.94	0.063
8230	Soil	1.2	31.8	7.2	64	0.1	17.0	11.7	458	2.80	6.0	1.7	1.2	1.7	70	0.1	0.4	<0.1	68	1.58	0.062
8231	Soil	0.9	40.2	5.5	83	<0.1	14.3	14.3	638	3.64	4.5	0.9	0.9	2.2	36	0.2	0.3	<0.1	96	0.82	0.140
8232	Soil	1.1	40.8	3.7	82	<0.1	10.2	17.5	601	4.31	5.9	0.9	1.5	2.2	32	0.2	0.3	<0.1	101	0.88	0.235
8233	Soil	1.4	39.3	7.2	62	0.2	15.8	11.1	503	2.66	6.0	1.8	2.3	1.0	106	0.3	0.5	<0.1	61	1.75	0.075
8234	Soil	1.0	27.6	7.5	72	<0.1	17.5	12.5	505	2.70	7.3	1.1	1.7	1.7	35	0.2	0.3	<0.1	64	0.76	0.084
8235	Soil	1.2	33.9	8.5	79	0.1	20.4	11.0	465	2.69	7.6	1.2	5.0	1.2	48	0.3	0.5	0.1	62	0.95	0.078
8236	Soil	1.2	27.4	8.5	71	0.2	19.4	11.0	513	2.87	9.3	1.1	11.6	1.3	28	0.2	0.4	0.2	65	0.44	0.074
8237	Soil	1.0	30.9	7.9	59	0.2	18.0	8.9	327	2.54	7.5	0.9	4.8	1.0	27	0.1	0.3	0.1	60	0.48	0.081
8238	Soil	1.4	31.3	8.6	59	0.2	18.9	11.3	527	2.99	9.4	1.0	2.0	1.3	33	0.1	0.3	0.2	72	0.60	0.073
8239	Soil	1.2	23.0	8.1	59	0.1	17.6	11.6	441	2.90	9.4	0.9	5.5	1.7	22	<0.1	0.3	0.1	63	0.42	0.071
8240	Soil	1.2	23.3	9.4	51	0.1	20.9	8.6	201	2.63	9.3	0.7	3.0	1.9	18	<0.1	0.5	0.2	62	0.24	0.056
8241	Soil	1.1	19.2	11.3	53	<0.1	23.3	10.2	307	3.23	11.1	0.7	2.9	3.4	14	0.1	0.7	0.2	64	0.15	0.035
8242	Soil	1.2	23.2	16.4	60	<0.1	18.8	9.0	237	3.22	15.2	0.7	2.1	3.0	18	0.1	0.7	0.2	71	0.31	0.034
8243	Soil	1.5	31.9	11.0	68	0.2	18.9	10.6	203	3.06	22.8	1.0	4.4	2.9	20	<0.1	0.7	0.2	79	0.39	0.064
8244	Soil	1.2	59.0	7.6	67	0.4	20.5	11.5	227	3.22	12.7	1.5	4.4	2.0	25	0.2	0.4	0.1	74	0.46	0.115
8245	Soil	0.8	40.0	6.7	55	0.4	15.5	17.7	290	2.76	3.7	0.6	2.0	0.9	28	0.2	0.1	<0.1	74	0.55	0.165
8246	Soil	1.1	33.6	8.8	81	0.1	23.3	12.6	388	3.67	9.2	0.8	2.5	2.3	19	0.1	0.3	0.2	89	0.32	0.066
8247	Soil	1.1	28.3	8.2	77	0.1	19.7	10.3	416	2.83	7.9	0.9	1.3	1.0	30	0.3	0.3	0.2	66	0.44	0.080
8248	Soil	1.3	38.0	7.2	73	0.1	17.2	15.1	563	3.78	10.6	0.8	1.8	1.8	20	0.1	0.3	0.1	99	0.41	0.079
8249	Soil	2.1	41.3	7.3	91	0.4	14.0	11.7	603	3.52	9.2	0.8	0.9	1.8	25	0.2	0.2	0.1	101	0.48	0.106
8250	Soil	2.1	61.7	7.8	71	0.2	25.9	16.9	882	3.45	30.1	1.5	2.0	1.7	26	0.1	0.4	0.1	70	0.45	0.087
8251	Soil	1.3	62.8	8.0	62	0.3	24.0	13.6	581	3.00	12.1	1.3	3.7	1.2	42	0.1	0.5	0.1	68	0.95	0.097
8252	Soil	0.9	30.3	7.7	58	<0.1	19.5	12.6	740	2.74	7.0	1.6	1.9	1.7	35	0.2	0.4	0.1	67	0.82	0.074
8253	Soil	0.8	28.8	11.5	61	0.1	21.6	13.0	509	2.67	7.7	0.9	1.9	1.4	41	0.3	0.3	0.1	63	1.10	0.068
8254	Soil	0.6	26.8	6.6	86	<0.1	21.0	15.1	614	3.59	5.3	0.7	2.2	1.9	33	0.2	0.2	<0.1	88	0.68	0.091



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
					1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8225	Soil				9	18	0.78	327	0.093	<1	1.63	0.017	0.26	<0.1	0.05	5.6	0.1	0.06	5	1.0
8226	Soil				14	27	0.81	401	0.087	<1	1.58	0.022	0.24	<0.1	0.05	8.0	0.1	0.07	6	0.7
8227	Soil				8	26	1.06	426	0.143	<1	1.84	0.018	0.50	<0.1	0.03	5.1	0.2	<0.05	6	0.5
8228	Soil				12	25	0.72	392	0.097	2	1.56	0.018	0.14	<0.1	0.05	5.1	0.1	0.06	6	0.7
8229	Soil				15	27	0.71	443	0.112	<1	1.59	0.018	0.23	<0.1	0.08	5.4	0.1	0.06	6	0.9
8230	Soil				15	29	0.74	454	0.098	3	1.61	0.021	0.20	0.1	0.05	4.5	0.1	0.10	5	1.0
8231	Soil				10	24	1.14	412	0.164	<1	1.96	0.016	0.62	<0.1	0.03	6.1	0.2	<0.05	6	0.6
8232	Soil				8	16	1.20	434	0.146	1	1.97	0.023	0.70	<0.1	0.02	7.5	0.2	<0.05	6	<0.5
8233	Soil				13	25	0.66	501	0.085	1	1.39	0.022	0.16	<0.1	0.07	4.7	0.1	0.12	4	1.1
8234	Soil				9	29	0.72	289	0.095	1	1.59	0.017	0.15	0.1	0.05	4.3	0.1	<0.05	5	0.6
8235	Soil				12	33	0.69	523	0.081	<1	1.78	0.019	0.11	<0.1	0.05	4.4	<0.1	0.08	5	0.6
8236	Soil				12	30	0.75	470	0.065	2	2.18	0.017	0.06	0.1	0.04	4.2	0.1	0.07	6	<0.5
8237	Soil				10	25	0.70	338	0.071	3	1.77	0.016	0.07	0.1	0.05	3.4	<0.1	0.08	5	<0.5
8238	Soil				10	30	0.71	414	0.073	3	1.91	0.019	0.08	0.1	0.03	4.0	<0.1	<0.05	6	<0.5
8239	Soil				10	28	0.67	316	0.074	1	1.82	0.013	0.06	0.1	0.02	4.0	<0.1	<0.05	6	<0.5
8240	Soil				10	29	0.59	290	0.061	3	1.83	0.017	0.05	0.1	0.04	3.2	0.1	<0.05	5	<0.5
8241	Soil				10	31	0.62	196	0.057	3	2.24	0.011	0.05	0.1	0.04	3.1	0.1	<0.05	5	<0.5
8242	Soil				11	29	0.72	253	0.089	2	2.02	0.011	0.09	0.1	0.02	4.1	0.1	<0.05	7	<0.5
8243	Soil				11	31	0.98	372	0.099	3	2.53	0.016	0.12	<0.1	0.04	5.7	0.1	<0.05	6	<0.5
8244	Soil				11	29	0.81	398	0.087	2	1.91	0.017	0.12	0.1	0.06	5.6	0.1	<0.05	6	0.5
8245	Soil				7	25	1.12	268	0.103	1	1.90	0.039	0.11	<0.1	0.04	4.6	0.2	<0.05	6	<0.5
8246	Soil				9	34	1.10	329	0.131	3	2.23	0.018	0.18	<0.1	0.03	5.6	0.2	<0.05	7	<0.5
8247	Soil				9	28	0.73	532	0.056	3	1.72	0.018	0.06	<0.1	0.03	3.5	<0.1	<0.05	5	0.6
8248	Soil				10	26	1.04	396	0.126	2	2.26	0.015	0.17	<0.1	0.02	4.9	0.1	<0.05	8	<0.5
8249	Soil				9	22	1.08	289	0.159	2	2.09	0.020	0.36	0.1	0.04	5.9	0.2	<0.05	9	<0.5
8250	Soil				15	32	0.88	409	0.065	2	2.02	0.015	0.08	0.1	0.05	5.0	0.1	<0.05	6	0.8
8251	Soil				15	35	0.78	657	0.071	2	2.37	0.019	0.14	<0.1	0.09	5.1	0.1	0.09	6	0.8
8252	Soil				11	30	0.79	409	0.078	1	1.97	0.017	0.08	0.1	0.05	3.8	0.1	<0.05	5	0.7
8253	Soil				10	31	0.80	383	0.077	2	1.76	0.020	0.07	<0.1	0.04	3.7	<0.1	<0.05	5	0.9
8254	Soil				7	34	1.36	340	0.154	1	2.27	0.020	0.44	0.1	0.02	3.8	0.2	<0.05	7	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8255	Soil																							
8256	Soil																							
8257	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8255	Soil	10	26	0.74	447	0.067	3	1.46	0.021	0.11	<0.1	0.05	3.4	0.1	0.10	5	0.7
8256	Soil	11	24	0.72	395	0.069	2	1.44	0.022	0.17	<0.1	0.05	3.4	<0.1	0.07	5	0.5
8257	Soil	10	26	0.88	383	0.085	1	1.60	0.018	0.26	<0.1	0.03	3.6	0.1	0.05	5	0.7
8258	Soil	11	23	0.74	378	0.069	2	1.65	0.022	0.23	0.1	0.04	3.9	0.1	0.13	5	0.5
8259	Soil	18	26	0.62	326	0.078	1	1.55	0.017	0.32	<0.1	0.05	5.1	0.1	0.06	6	0.6
8260	Soil	22	24	0.58	330	0.065	2	1.49	0.019	0.29	<0.1	0.06	5.1	0.1	0.08	5	<0.5
8261	Soil	24	29	0.81	439	0.107	<1	1.54	0.013	0.63	<0.1	0.04	7.4	0.2	<0.05	6	0.7
8262	Soil	10	18	0.64	316	0.091	1	1.29	0.012	0.43	<0.1	0.02	4.5	0.1	<0.05	5	<0.5
8263	Soil	15	22	0.48	283	0.068	<1	1.19	0.016	0.17	<0.1	0.03	4.0	<0.1	<0.05	5	0.6
8264	Soil	16	21	0.78	348	0.089	2	1.55	0.018	0.44	<0.1	0.03	4.3	0.2	0.05	5	0.7
8265	Soil	13	24	1.10	566	0.127	1	1.95	0.025	0.52	<0.1	0.04	5.2	0.2	0.05	6	<0.5
8266	Soil	3	20	0.62	266	0.135	<1	1.60	0.025	0.19	<0.1	0.01	2.1	0.1	<0.05	6	<0.5
8267	Soil	7	19	0.66	347	0.061	<1	1.98	0.014	0.17	<0.1	0.04	3.5	0.1	<0.05	6	<0.5
8268	Soil	13	22	0.74	410	0.076	2	1.48	0.019	0.28	<0.1	0.03	4.6	0.1	0.08	5	0.7
8269	Soil	8	14	0.59	265	0.070	<1	1.29	0.019	0.21	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5
8270	Soil	8	24	0.61	246	0.081	1	1.54	0.017	0.07	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5
8271	Soil	6	23	0.80	224	0.080	1	1.56	0.021	0.09	<0.1	0.03	5.4	<0.1	<0.05	7	0.7
8272	Soil	5	20	0.83	223	0.089	1	1.47	0.019	0.19	0.1	0.03	5.1	<0.1	<0.05	6	<0.5
8273	Soil	9	21	0.50	355	0.051	2	1.42	0.015	0.07	0.2	0.08	5.4	<0.1	<0.05	5	0.8
8274	Soil	5	14	0.57	229	0.068	1	1.34	0.016	0.11	<0.1	0.05	5.1	<0.1	<0.05	6	0.5
8275	Soil	6	21	0.47	185	0.051	2	1.18	0.012	0.05	0.1	0.05	2.9	<0.1	<0.05	5	0.7
8276	Soil	8	17	0.53	445	0.040	1	1.34	0.017	0.08	<0.1	0.05	6.6	<0.1	<0.05	4	0.8
8277	Soil	8	19	0.44	387	0.046	2	1.29	0.015	0.07	0.1	0.05	5.5	<0.1	<0.05	5	0.8
8278	Soil	8	22	0.50	329	0.048	2	1.32	0.015	0.08	0.1	0.04	5.3	<0.1	<0.05	4	<0.5
8279	Soil	6	20	0.62	244	0.067	2	1.33	0.016	0.09	0.1	0.03	4.7	<0.1	<0.05	5	0.6
8280	Soil	6	19	0.50	198	0.074	1	1.25	0.015	0.11	0.1	0.03	3.2	<0.1	<0.05	5	<0.5
8281	Soil	4	19	0.42	387	0.058	2	1.08	0.016	0.15	0.1	0.08	2.0	<0.1	0.05	4	0.8
8282	Soil	6	21	0.58	215	0.092	2	1.34	0.013	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
8283	Soil	5	18	0.39	177	0.080	<1	1.03	0.012	0.10	0.1	0.02	2.5	<0.1	<0.05	5	0.7
8284	Soil	6	20	0.60	218	0.096	1	1.40	0.015	0.11	<0.1	0.03	3.9	<0.1	<0.05	6	0.5



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Ballarat

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8285	Soil	0.8	46.2	4.6	49	<0.1	14.0	13.5	387	2.72	4.7	0.3	1.2	0.9	17	0.2	0.3	0.1	87	0.39	0.037
8286	Soil	0.8	40.8	5.1	64	0.1	15.1	15.1	690	3.03	4.2	0.7	3.4	1.2	31	0.2	0.3	<0.1	80	0.86	0.049
8287	Soil	0.5	28.0	5.7	55	<0.1	14.5	11.9	521	2.80	4.0	0.6	1.7	1.6	24	0.1	0.3	<0.1	63	0.65	0.041
8288	Soil	0.9	39.6	5.5	69	0.2	12.6	15.0	471	3.31	3.5	0.6	1.7	1.4	19	0.2	0.3	<0.1	80	0.37	0.048
8289	Soil	1.2	21.5	5.6	47	<0.1	11.9	9.6	244	3.00	8.9	0.3	1.3	1.2	14	<0.1	0.3	0.1	90	0.22	0.020
8290	Soil	0.6	27.8	7.1	45	<0.1	16.4	13.1	321	2.63	6.0	0.4	2.0	1.6	18	<0.1	0.3	0.1	77	0.36	0.026
8291	Soil	0.8	31.0	5.3	43	0.1	15.6	11.5	433	2.15	3.7	0.6	2.0	1.3	26	<0.1	0.3	0.1	61	0.50	0.033
8292	Soil	0.9	19.7	5.5	44	<0.1	14.5	9.6	295	2.38	4.8	0.4	1.2	1.9	17	<0.1	0.2	0.1	68	0.29	0.025
8293	Soil	0.6	22.5	5.3	43	<0.1	15.4	8.5	311	2.13	4.2	0.6	11.2	2.0	19	<0.1	0.2	0.1	55	0.30	0.037
8294	Soil	1.0	22.3	6.4	43	0.2	15.8	11.7	555	1.99	4.0	0.7	1.2	1.3	16	0.2	0.3	0.2	53	0.20	0.038
8295	Soil	1.1	23.0	6.8	54	<0.1	19.6	9.1	319	2.81	6.9	0.6	2.3	2.9	18	<0.1	0.3	0.2	71	0.24	0.030
8296	Soil	0.9	21.5	5.4	44	<0.1	12.5	7.8	278	2.00	4.1	0.7	2.0	2.9	18	0.1	0.3	0.1	45	0.27	0.030
8297	Soil	1.5	23.6	5.7	45	<0.1	14.2	7.6	294	2.23	5.3	0.6	2.6	2.5	16	<0.1	0.3	0.2	47	0.22	0.031
8298	Soil	1.2	16.9	7.7	46	<0.1	16.2	7.2	228	2.46	6.0	0.5	3.2	2.0	17	<0.1	0.3	0.2	62	0.21	0.026
8299	Soil	1.8	21.9	8.7	50	0.2	16.8	10.6	445	2.77	5.3	0.6	1.8	1.7	23	0.1	0.3	0.2	64	0.35	0.038
8300	Soil	1.3	20.1	7.4	47	0.1	16.9	9.7	469	2.54	6.5	0.5	1.0	1.9	24	<0.1	0.3	0.2	65	0.32	0.030
8301	Soil	1.3	22.3	9.9	48	0.1	17.4	8.9	308	2.71	7.1	0.7	1.7	1.3	22	0.1	0.4	0.2	67	0.25	0.043
8302	Soil	0.9	19.1	8.6	38	0.2	14.6	5.7	161	1.87	4.7	0.5	2.0	0.9	19	<0.1	0.2	0.2	48	0.24	0.030
8303	Soil	1.0	23.8	7.2	48	0.1	17.6	13.3	550	2.59	6.2	0.4	4.4	1.1	20	0.2	0.3	0.4	65	0.30	0.049
8304	Soil	1.0	30.1	8.1	56	0.1	18.6	9.8	316	2.52	5.3	0.9	3.7	1.8	22	<0.1	0.3	0.1	56	0.31	0.042
8305	Soil	0.9	29.6	9.0	58	0.1	18.1	9.5	284	2.36	4.2	1.1	2.1	2.2	29	<0.1	0.2	0.1	51	0.49	0.039
8306	Soil	1.5	34.9	8.5	57	0.1	17.8	10.0	291	2.49	5.5	1.8	2.8	2.8	29	<0.1	0.3	0.1	50	0.60	0.041
8307	Soil	1.4	41.8	8.0	42	0.2	24.9	21.7	471	2.36	4.8	0.8	1.9	1.4	22	<0.1	0.2	0.1	60	0.37	0.048
8308	Soil	0.9	103.8	10.0	41	0.4	19.0	14.0	188	2.27	4.6	1.4	3.8	1.7	25	<0.1	0.2	0.2	52	0.32	0.034
8309	Soil	0.8	41.1	7.8	50	<0.1	18.0	12.5	292	2.71	6.2	0.6	2.9	2.1	18	<0.1	0.3	0.2	58	0.23	0.025
8310	Soil	0.8	25.5	7.6	59	<0.1	17.6	8.5	308	2.83	6.5	0.6	3.5	2.6	18	<0.1	0.4	0.2	57	0.24	0.034
8311	Soil	1.0	18.5	8.2	35	0.3	11.1	6.3	359	1.71	3.2	0.5	2.5	0.8	24	0.1	0.2	0.2	42	0.27	0.036
8312	Soil	1.0	13.0	8.6	48	<0.1	13.6	7.4	311	2.34	6.0	0.4	2.2	1.3	29	<0.1	0.3	0.2	61	0.42	0.033
8313	Soil	1.3	27.4	8.7	33	0.2	10.5	4.3	144	2.00	4.1	0.5	1.5	1.1	14	0.1	0.3	0.2	53	0.14	0.028
8314	Soil	0.8	21.7	6.5	24	0.2	8.5	4.7	141	1.43	5.4	0.6	4.0	0.5	18	0.4	0.2	0.2	31	0.19	0.052



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1
8285	Soil	5	18	0.62	205	0.089	2	1.26	0.015	0.14	0.1	0.03	3.5	<0.1	<0.05	6
8286	Soil	9	21	0.60	414	0.077	2	1.44	0.016	0.13	<0.1	0.04	6.4	<0.1	<0.05	5
8287	Soil	10	22	0.57	358	0.083	2	1.40	0.014	0.17	0.1	0.03	4.8	<0.1	<0.05	5
8288	Soil	8	20	0.80	449	0.114	1	1.46	0.012	0.33	0.1	0.03	4.9	<0.1	<0.05	5
8289	Soil	5	20	0.59	269	0.109	2	1.39	0.013	0.10	0.1	0.02	3.3	<0.1	<0.05	6
8290	Soil	7	26	0.55	199	0.072	<1	1.54	0.015	0.06	0.1	0.02	3.6	<0.1	<0.05	5
8291	Soil	9	24	0.47	273	0.065	1	1.49	0.014	0.07	0.1	0.03	4.0	<0.1	<0.05	5
8292	Soil	8	24	0.48	186	0.086	<1	1.34	0.012	0.09	0.1	0.02	2.9	<0.1	<0.05	5
8293	Soil	10	25	0.45	260	0.075	1	1.40	0.011	0.09	0.2	0.02	3.3	<0.1	<0.05	5
8294	Soil	13	24	0.31	215	0.066	<1	1.34	0.011	0.07	<0.1	0.03	2.9	<0.1	<0.05	6
8295	Soil	12	33	0.56	246	0.091	6	1.82	0.010	0.09	0.1	0.03	4.3	<0.1	<0.05	6
8296	Soil	13	22	0.42	258	0.070	<1	1.26	0.009	0.09	<0.1	0.02	3.9	<0.1	<0.05	4
8297	Soil	13	23	0.42	221	0.074	1	1.30	0.010	0.06	<0.1	0.02	3.5	<0.1	<0.05	5
8298	Soil	10	28	0.42	222	0.071	1	1.66	0.014	0.07	0.1	0.02	3.2	<0.1	<0.05	6
8299	Soil	14	28	0.43	327	0.075	<1	1.86	0.016	0.08	0.1	0.03	3.3	<0.1	<0.05	7
8300	Soil	10	28	0.44	268	0.076	1	1.77	0.011	0.07	0.1	0.02	3.6	<0.1	<0.05	6
8301	Soil	12	30	0.44	371	0.064	2	2.03	0.011	0.07	0.1	0.03	3.7	<0.1	<0.05	7
8302	Soil	9	24	0.37	271	0.060	1	1.43	0.015	0.08	0.1	0.03	2.7	<0.1	<0.05	6
8303	Soil	7	32	0.54	200	0.076	<1	1.59	0.013	0.08	0.1	0.04	3.0	<0.1	<0.05	6
8304	Soil	12	31	0.53	315	0.078	2	1.69	0.015	0.09	0.1	0.04	4.8	<0.1	<0.05	6
8305	Soil	15	31	0.64	256	0.089	1	1.61	0.016	0.09	0.1	0.04	4.9	<0.1	<0.05	5
8306	Soil	19	30	0.58	256	0.088	1	1.69	0.015	0.11	0.1	0.06	5.4	<0.1	<0.05	5
8307	Soil	9	59	0.68	232	0.077	1	1.48	0.015	0.07	0.1	0.06	3.9	<0.1	<0.05	5
8308	Soil	12	33	0.53	258	0.067	2	1.72	0.021	0.07	0.1	0.06	5.2	<0.1	<0.05	6
8309	Soil	8	34	0.67	179	0.092	<1	1.81	0.019	0.07	0.1	0.02	3.3	<0.1	<0.05	5
8310	Soil	9	29	0.58	192	0.088	1	1.69	0.013	0.09	0.1	0.02	3.4	<0.1	<0.05	5
8311	Soil	10	18	0.29	360	0.058	1	1.11	0.020	0.07	0.1	0.03	2.1	<0.1	<0.05	5
8312	Soil	7	25	0.45	259	0.070	2	1.72	0.018	0.08	0.1	0.01	2.6	<0.1	<0.05	6
8313	Soil	9	20	0.25	186	0.071	1	1.27	0.018	0.06	<0.1	0.03	2.1	<0.1	<0.05	7
8314	Soil	9	17	0.19	207	0.044	1	1.14	0.018	0.06	<0.1	0.03	1.8	<0.1	<0.05	5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8315	Soil	1.4	24.8	10.1	58	0.2	15.6	7.9	298	3.15	7.7	0.7	3.7	1.5	15	0.1	0.3	0.2	69	0.17	0.040
8316	Soil	1.3	19.6	10.7	46	0.1	12.9	7.1	354	2.50	7.3	0.3	2.3	0.8	16	0.4	0.4	0.2	72	0.17	0.068
8317	Soil	1.6	29.3	13.9	62	0.2	16.5	9.8	269	3.23	7.5	0.5	4.0	0.9	16	0.2	0.3	0.4	83	0.18	0.057
8318	Soil	0.4	56.8	3.7	82	<0.1	34.4	26.6	565	4.98	2.6	0.2	2.4	0.7	9	<0.1	0.2	<0.1	172	0.16	0.025
8319	Soil	1.6	33.9	9.8	53	0.2	16.4	13.3	544	2.96	7.1	0.5	1.4	1.1	16	0.2	0.4	0.2	85	0.18	0.051
8320	Soil	1.2	17.3	7.5	46	<0.1	13.1	9.1	295	2.99	9.4	0.3	1.6	1.4	13	<0.1	0.4	0.2	74	0.14	0.025
8321	Soil	1.0	27.6	8.1	62	<0.1	16.9	16.4	657	3.30	9.9	0.4	2.3	1.1	14	0.2	0.4	0.2	85	0.17	0.053
8322	Soil	1.1	23.6	8.2	59	<0.1	18.2	10.4	348	2.89	10.4	0.6	1.5	1.9	19	0.2	0.4	0.2	69	0.21	0.058
8323	Soil	1.1	35.7	8.2	64	0.1	16.1	10.8	438	3.07	8.9	0.6	1.6	1.1	17	0.2	0.3	0.2	72	0.19	0.051
8324	Soil	1.2	21.2	7.7	41	0.1	11.9	6.1	197	2.31	7.0	0.5	1.9	0.8	14	0.1	0.3	0.2	64	0.13	0.032
8325	Soil	0.8	25.1	7.3	55	<0.1	16.3	9.7	289	3.08	8.0	0.6	2.1	1.6	18	0.1	0.3	0.1	74	0.22	0.054
8326	Soil	0.8	28.9	7.0	56	<0.1	16.6	11.7	350	3.30	8.1	0.5	2.3	1.8	16	0.1	0.4	0.1	80	0.21	0.044
8327	Soil	1.2	21.1	9.2	57	<0.1	16.5	8.5	306	2.99	10.6	0.6	2.6	1.1	15	0.1	0.4	0.2	72	0.18	0.043
8328	Soil	1.1	17.4	8.9	53	<0.1	14.3	6.4	219	2.90	9.8	0.5	1.9	1.4	15	<0.1	0.4	0.2	67	0.17	0.029
8329	Soil	0.8	27.5	7.8	71	<0.1	17.0	10.0	229	2.95	7.8	0.6	1.4	1.0	18	<0.1	0.3	0.1	63	0.31	0.053
8330	Soil	1.3	26.9	10.2	68	<0.1	18.8	9.4	375	3.03	10.7	0.6	1.9	1.5	15	0.1	0.4	0.2	69	0.19	0.039
8331	Soil	1.5	29.8	9.3	70	0.2	17.3	8.3	265	2.92	11.0	0.7	3.2	1.4	18	0.2	0.4	0.2	66	0.23	0.058
8332	Soil	1.3	25.8	13.1	72	0.2	19.1	10.1	329	3.30	10.9	0.7	10.5	2.1	16	0.2	0.4	0.2	69	0.20	0.050
8333	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8334	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8335	Soil	0.7	36.9	5.6	64	0.1	24.0	14.1	415	3.35	4.9	0.5	6.8	2.5	21	<0.1	0.2	<0.1	73	0.33	0.062
8336	Soil	0.7	32.2	5.0	67	<0.1	24.0	16.1	563	3.63	4.8	0.4	0.8	2.1	20	0.1	0.2	<0.1	82	0.33	0.060
8337	Soil	1.1	35.4	5.7	77	<0.1	29.8	20.7	966	4.06	4.1	0.3	1.6	2.1	23	0.1	0.3	<0.1	84	0.33	0.077
8338	Soil	1.4	17.7	8.1	38	0.2	13.6	6.5	259	1.84	4.2	0.4	5.3	1.1	17	0.2	0.4	0.1	48	0.22	0.045
8339	Soil	1.1	22.0	8.3	57	<0.1	25.0	13.2	320	2.96	6.9	0.7	15.2	5.5	18	<0.1	0.3	<0.1	55	0.32	0.050
8340	Soil	1.1	20.3	8.8	51	<0.1	22.5	9.9	243	2.62	6.8	0.6	11.2	4.2	15	<0.1	0.3	0.1	57	0.17	0.036
8341	Soil	2.1	25.4	14.8	67	<0.1	33.2	13.4	340	3.56	8.8	0.8	24.4	7.2	20	0.1	0.5	0.1	63	0.28	0.048
8342	Soil	1.6	20.4	9.4	56	<0.1	25.8	11.2	307	3.15	10.0	0.7	6.4	5.0	16	0.2	0.4	0.1	64	0.18	0.052
8343	Soil	2.0	32.4	8.2	50	<0.1	27.8	11.7	295	3.22	8.4	0.8	2.6	5.5	17	0.1	0.4	0.2	74	0.13	0.044
8344	Soil	1.0	25.8	10.4	60	0.1	28.1	11.2	289	3.07	6.7	1.1	3.2	6.6	17	0.1	0.3	0.1	58	0.24	0.051



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8315	Soil	9	29	0.48	250	0.088	1	2.04	0.017	0.08	0.1	0.02	3.4	<0.1	<0.05	8	<0.5
8316	Soil	7	24	0.32	175	0.096	<1	1.42	0.015	0.07	0.1	0.04	2.4	<0.1	<0.05	8	<0.5
8317	Soil	7	30	0.54	185	0.098	<1	2.05	0.018	0.07	0.1	0.04	3.5	0.1	<0.05	8	<0.5
8318	Soil	3	78	2.66	353	0.243	<1	3.32	0.014	0.96	<0.1	<0.01	9.5	0.5	<0.05	10	<0.5
8319	Soil	7	30	0.51	190	0.092	1	1.83	0.017	0.06	0.1	0.03	3.4	<0.1	<0.05	8	0.5
8320	Soil	7	25	0.44	145	0.093	<1	1.55	0.014	0.04	0.1	0.04	2.8	<0.1	<0.05	7	<0.5
8321	Soil	7	28	0.58	178	0.086	2	1.73	0.017	0.07	0.1	0.02	3.6	<0.1	<0.05	7	<0.5
8322	Soil	10	33	0.57	198	0.064	<1	1.95	0.012	0.06	0.1	0.04	3.7	<0.1	<0.05	6	<0.5
8323	Soil	8	29	0.53	244	0.058	<1	1.72	0.013	0.06	0.1	0.03	3.9	<0.1	<0.05	7	<0.5
8324	Soil	8	22	0.40	229	0.076	<1	1.28	0.015	0.06	0.1	0.03	2.7	<0.1	<0.05	6	<0.5
8325	Soil	9	32	0.71	224	0.106	1	1.91	0.014	0.12	0.1	0.04	3.7	0.1	<0.05	6	<0.5
8326	Soil	9	28	0.80	264	0.113	<1	1.98	0.014	0.19	0.1	0.03	4.0	0.1	<0.05	6	<0.5
8327	Soil	10	30	0.55	214	0.064	<1	1.81	0.012	0.06	0.2	0.04	3.0	<0.1	<0.05	7	<0.5
8328	Soil	10	28	0.47	224	0.067	<1	1.54	0.011	0.05	0.1	0.03	2.8	<0.1	<0.05	7	<0.5
8329	Soil	10	28	0.65	285	0.089	1	1.98	0.012	0.16	0.1	0.03	3.5	0.1	<0.05	6	<0.5
8330	Soil	11	32	0.58	232	0.078	1	1.90	0.013	0.07	0.1	0.03	3.7	0.1	<0.05	7	<0.5
8331	Soil	12	31	0.52	307	0.068	1	1.75	0.014	0.10	0.1	0.06	4.0	0.1	<0.05	6	<0.5
8332	Soil	11	32	0.60	207	0.075	<1	1.94	0.011	0.08	0.2	0.04	3.9	0.1	<0.05	6	<0.5
8333	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8334	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8335	Soil	11	45	1.10	294	0.143	<1	1.95	0.017	0.28	0.1	0.02	3.9	0.2	<0.05	6	<0.5
8336	Soil	8	49	1.24	296	0.169	<1	1.96	0.018	0.49	0.1	0.02	4.0	0.2	<0.05	7	<0.5
8337	Soil	9	61	1.44	278	0.178	<1	2.11	0.017	0.47	0.1	0.02	3.8	0.2	<0.05	7	<0.5
8338	Soil	10	21	0.29	245	0.062	1	0.89	0.020	0.10	<0.1	0.03	2.1	0.1	<0.05	5	<0.5
8339	Soil	19	38	0.70	222	0.112	1	1.62	0.015	0.18	0.1	0.03	3.3	0.2	<0.05	5	<0.5
8340	Soil	19	38	0.60	175	0.110	<1	1.58	0.016	0.13	0.1	0.03	3.2	0.2	<0.05	6	<0.5
8341	Soil	22	49	0.70	268	0.110	1	1.71	0.015	0.18	0.1	0.03	4.0	0.2	<0.05	6	<0.5
8342	Soil	22	39	0.59	198	0.109	2	1.58	0.016	0.13	0.1	0.03	3.2	0.2	<0.05	7	<0.5
8343	Soil	18	49	0.71	316	0.108	<1	1.76	0.021	0.15	<0.1	0.02	3.5	0.2	<0.05	7	<0.5
8344	Soil	40	36	0.62	172	0.117	1	1.64	0.016	0.15	0.1	0.03	3.0	0.2	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
8345	Soil	1.6	25.2	7.9	54	<0.1	43.0	11.5	263	2.78	14.5	0.7	7.2	3.4	19	<0.1	0.9	0.1	74	0.32	0.036
8346	Soil	1.0	36.8	7.2	73	<0.1	33.0	15.8	454	3.29	8.2	0.8	5.6	5.4	23	0.1	0.3	<0.1	67	0.41	0.056
8347	Soil	1.4	26.6	13.0	69	<0.1	28.8	15.5	535	3.71	24.3	1.1	7.2	6.2	16	0.1	1.6	0.1	59	0.25	0.062
8348	Soil	1.5	28.2	10.3	65	<0.1	30.2	15.0	338	3.49	8.9	1.4	8.3	12.8	12	<0.1	0.4	0.1	59	0.14	0.036
8349	Soil	1.2	32.0	10.0	55	0.2	26.7	9.6	206	2.55	5.5	1.3	3.8	5.8	24	0.1	0.3	0.1	48	0.30	0.041
8350	Soil	1.3	27.1	12.2	60	0.2	28.5	10.2	244	2.97	7.9	1.4	10.0	7.2	34	0.1	0.5	0.1	59	0.56	0.041
8351	Soil	1.3	24.9	11.2	54	<0.1	25.8	11.1	224	2.82	5.2	1.1	7.7	6.2	24	0.2	0.3	0.1	53	0.34	0.049
8352	Soil	1.5	30.4	11.9	51	0.1	24.0	12.6	279	3.03	4.5	0.5	5.5	3.3	19	0.1	0.3	0.1	79	0.29	0.029
8353	Soil	1.0	30.3	5.4	63	<0.1	22.1	14.5	359	3.67	6.8	0.4	2.0	2.6	21	0.1	0.4	<0.1	77	0.32	0.042
8354	Soil	1.3	22.7	6.8	61	0.1	17.7	14.7	1265	2.79	4.7	0.4	1.9	1.7	22	0.2	0.3	0.1	61	0.34	0.060
8355	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8356	Soil	2.0	31.4	15.1	83	0.2	19.8	36.9	3235	3.12	5.0	0.8	7.6	1.9	22	0.3	0.2	0.1	81	0.32	0.071
8357	Soil	2.3	27.1	22.8	76	0.3	14.2	16.9	602	2.88	7.9	0.7	4.0	1.3	21	0.2	0.4	0.2	89	0.25	0.069
8358	Soil	2.5	40.1	24.1	98	0.3	16.4	15.9	1048	3.05	4.7	1.1	10.4	1.6	51	0.6	0.3	0.2	77	1.16	0.081
8359	Soil	2.1	41.0	38.4	117	0.3	18.2	18.0	874	4.42	6.9	1.0	6.8	3.3	24	0.2	0.8	0.4	99	0.42	0.083



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Project: Ballarat
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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8345	Soil	18	68	0.74	235	0.118	2	1.53	0.017	0.22	<0.1	0.20	4.5	0.4	<0.05	8	<0.5
8346	Soil	25	58	1.14	296	0.129	1	1.94	0.016	0.29	<0.1	0.03	4.5	0.2	<0.05	6	<0.5
8347	Soil	29	35	0.51	251	0.054	3	1.50	0.014	0.12	0.1	0.04	5.0	0.2	<0.05	5	<0.5
8348	Soil	39	43	0.61	107	0.103	2	2.03	0.013	0.11	<0.1	0.02	3.9	0.2	<0.05	6	<0.5
8349	Soil	45	39	0.55	316	0.098	1	1.48	0.018	0.13	<0.1	0.04	3.4	0.2	<0.05	6	<0.5
8350	Soil	49	44	0.64	442	0.089	1	1.77	0.021	0.13	0.1	0.05	4.6	0.2	<0.05	7	<0.5
8351	Soil	29	41	0.62	253	0.106	1	1.56	0.016	0.15	<0.1	0.04	3.7	0.2	<0.05	6	<0.5
8352	Soil	13	53	0.87	274	0.121	1	1.63	0.016	0.15	0.1	0.04	3.9	0.2	<0.05	7	<0.5
8353	Soil	8	40	0.85	333	0.134	1	1.82	0.020	0.19	0.1	0.02	3.7	0.1	<0.05	6	<0.5
8354	Soil	9	31	0.57	346	0.097	1	1.45	0.021	0.20	0.1	0.05	2.6	0.1	<0.05	6	<0.5
8355	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8356	Soil	11	40	0.84	339	0.101	<1	1.72	0.020	0.11	<0.1	0.05	5.6	0.2	<0.05	7	<0.5
8357	Soil	9	30	0.64	273	0.095	2	1.59	0.021	0.08	0.1	0.06	4.1	0.1	<0.05	7	<0.5
8358	Soil	17	26	0.81	630	0.100	2	1.62	0.027	0.14	<0.1	0.14	6.9	0.1	0.07	6	<0.5
8359	Soil	14	32	1.08	389	0.116	3	1.96	0.019	0.32	<0.1	0.05	7.9	0.1	0.07	7	<0.5



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QUALITY CONTROL REPORT

VAN09003421.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
8013	Soil	1.8	36.4	7.7	107	<0.1	14.0	17.7	1088	3.74	4.5	0.5	9.7	2.0	13	0.2	0.2	0.1	81	0.23
REP 8013	QC	1.8	36.3	7.6	107	<0.1	15.3	18.2	1124	3.91	4.7	0.6	27.2	2.0	15	0.1	0.2	0.1	83	0.23
8029	Soil	1.3	21.9	5.0	74	<0.1	17.6	10.3	497	2.51	9.2	0.6	1.1	1.7	26	0.1	0.2	<0.1	61	1.18
REP 8029	QC	1.1	20.0	5.0	76	<0.1	18.7	9.7	506	2.54	8.8	0.6	8.4	1.7	26	0.1	0.2	<0.1	59	1.11
8052	Soil	0.7	19.9	5.6	65	<0.1	16.8	9.2	305	3.01	5.6	0.4	5.4	1.9	13	<0.1	0.3	<0.1	72	0.23
REP 8052	QC	0.7	18.9	5.6	59	<0.1	16.3	9.2	285	2.79	5.4	0.3	0.6	1.9	12	<0.1	0.3	<0.1	72	0.21
8071	Soil	1.4	36.1	17.7	98	<0.1	20.1	11.6	418	3.11	6.3	0.7	3.8	4.0	19	0.2	0.3	0.1	60	0.23
REP 8071	QC	1.5	37.5	17.8	101	<0.1	20.0	11.9	417	3.11	6.4	0.7	4.8	4.2	18	0.2	0.3	0.1	60	0.23
8092	Soil	1.6	25.4	7.1	66	<0.1	15.9	12.5	425	3.58	7.0	0.4	11.4	1.8	12	0.1	0.4	0.1	87	0.14
REP 8092	QC	1.7	24.1	7.3	65	<0.1	16.7	12.3	436	3.71	7.3	0.4	15.3	2.0	11	0.1	0.4	0.2	90	0.14
8096	Soil	1.1	28.3	5.8	38	0.1	15.5	13.9	1067	2.59	5.1	0.4	1.6	1.2	16	<0.1	0.3	0.1	65	0.27
REP 8096	QC	1.0	28.7	5.6	36	0.1	15.2	13.5	1014	2.56	5.2	0.4	1.7	1.1	16	<0.1	0.3	0.1	65	0.28
8120	Soil	0.9	16.8	8.0	52	<0.1	21.2	10.3	328	2.77	6.5	0.8	0.5	4.1	19	<0.1	0.3	0.1	66	0.27
REP 8120	QC	0.9	17.3	8.6	51	<0.1	20.0	10.2	323	2.76	6.3	0.9	0.7	4.1	17	<0.1	0.3	0.1	63	0.27
8132	Soil	0.8	22.7	6.7	85	0.2	13.8	13.1	570	4.13	6.5	0.6	2.0	1.5	27	0.2	0.3	<0.1	105	0.82
REP 8132	QC	0.8	24.0	6.6	85	0.2	13.3	13.8	546	3.98	6.5	0.6	2.0	1.4	25	0.2	0.2	<0.1	103	0.85
8165	Soil	0.8	26.0	3.6	85	<0.1	22.4	15.9	632	3.79	13.2	0.4	1.3	2.0	25	0.1	0.2	<0.1	98	0.68
REP 8165	QC	0.8	26.1	3.7	83	<0.1	22.5	16.0	619	3.78	12.8	0.4	<0.5	2.0	26	0.1	0.2	<0.1	96	0.65
8172	Soil	0.8	17.2	6.4	42	<0.1	9.1	6.7	313	1.83	2.6	0.3	1.2	1.0	16	0.1	0.2	0.1	60	0.23
REP 8172	QC	0.8	17.6	5.6	43	<0.1	8.6	6.4	304	1.81	2.5	0.3	1.3	1.0	16	0.1	0.2	0.1	59	0.22
8191	Soil	1.0	28.3	7.0	85	0.1	18.7	12.5	465	3.53	5.7	0.7	1.3	2.8	24	<0.1	0.2	0.1	78	0.48
REP 8191	QC	1.0	27.4	7.1	84	0.1	18.8	13.1	456	3.39	5.9	0.7	2.6	2.8	24	0.1	0.2	0.1	77	0.48
8204	Soil	0.9	17.0	8.0	48	0.1	12.2	10.0	468	2.50	4.5	0.7	1.1	1.7	28	0.2	0.5	0.1	53	0.68
REP 8204	QC	0.9	17.4	8.0	49	0.1	12.0	9.7	460	2.45	4.4	0.7	4.7	1.8	28	0.2	0.5	0.1	53	0.67
8225	Soil	0.9	39.3	6.0	76	0.2	12.2	14.1	336	2.83	3.6	1.0	4.3	1.4	28	0.2	0.2	0.1	68	0.49
REP 8225	QC	0.9	43.0	6.3	81	0.2	13.0	15.1	356	3.00	3.9	1.1	3.2	1.6	29	0.2	0.3	0.1	73	0.53
8242	Soil	1.2	23.2	16.4	60	<0.1	18.8	9.0	237	3.22	15.2	0.7	2.1	3.0	18	0.1	0.7	0.2	71	0.31
REP 8242	QC	1.3	24.0	15.8	58	<0.1	19.6	9.0	222	3.25	15.5	0.6	2.9	2.8	17	0.1	0.7	0.2	72	0.29



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Project: Ballarat

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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
8013	Soil	8	28	0.92	191	0.140	<1	1.58	0.012	0.38	0.1	0.03	5.8	0.1	<0.05	7	<0.5
REP 8013	QC	9	28	0.95	196	0.151	1	1.63	0.013	0.39	0.1	0.03	6.0	0.1	0.05	8	<0.5
8029	Soil	9	36	0.93	293	0.093	1	1.41	0.012	0.24	0.3	0.03	3.7	0.2	0.07	5	0.6
REP 8029	QC	8	33	0.97	285	0.087	1	1.32	0.010	0.26	0.4	0.03	3.5	0.1	0.05	5	0.5
8052	Soil	7	33	0.78	194	0.101	1	1.57	0.011	0.11	0.1	0.02	3.2	0.1	<0.05	7	<0.5
REP 8052	QC	7	33	0.75	186	0.099	<1	1.57	0.011	0.10	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5
8071	Soil	18	31	0.80	287	0.117	2	2.07	0.011	0.28	<0.1	0.02	3.1	0.2	<0.05	5	<0.5
REP 8071	QC	19	31	0.79	292	0.118	<1	2.06	0.016	0.28	<0.1	0.02	3.0	0.2	<0.05	5	<0.5
8092	Soil	7	32	0.80	209	0.106	<1	1.99	0.009	0.13	0.1	0.02	3.2	0.1	<0.05	7	0.5
REP 8092	QC	7	32	0.79	218	0.107	1	1.98	0.009	0.13	0.1	0.03	3.3	0.1	<0.05	7	<0.5
8096	Soil	6	26	0.51	225	0.052	1	1.67	0.015	0.05	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5
REP 8096	QC	6	26	0.50	239	0.061	2	1.72	0.018	0.05	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5
8120	Soil	26	36	0.61	371	0.054	1	1.92	0.013	0.05	<0.1	0.02	3.7	<0.1	<0.05	6	0.5
REP 8120	QC	27	36	0.58	380	0.050	<1	2.00	0.013	0.04	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5
8132	Soil	10	26	1.54	501	0.164	2	2.10	0.018	0.54	0.1	0.03	4.8	0.2	<0.05	8	<0.5
REP 8132	QC	10	28	1.45	502	0.167	<1	2.30	0.020	0.50	0.1	0.03	4.8	0.2	<0.05	8	<0.5
8165	Soil	8	83	1.54	369	0.150	<1	1.93	0.016	0.52	0.1	0.02	4.4	0.2	<0.05	7	<0.5
REP 8165	QC	8	87	1.45	370	0.153	1	2.10	0.012	0.51	0.2	0.01	4.6	0.2	<0.05	7	<0.5
8172	Soil	6	20	0.55	221	0.106	<1	1.11	0.016	0.17	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
REP 8172	QC	5	19	0.54	219	0.103	<1	1.12	0.016	0.17	0.1	0.02	2.1	0.1	<0.05	6	<0.5
8191	Soil	11	35	1.02	306	0.127	<1	1.91	0.015	0.26	<0.1	0.02	4.9	0.1	<0.05	7	<0.5
REP 8191	QC	12	36	1.05	301	0.126	<1	1.95	0.015	0.25	0.1	0.02	4.7	0.2	<0.05	7	<0.5
8204	Soil	10	21	0.41	552	0.056	2	1.22	0.017	0.10	0.1	0.05	4.0	<0.1	<0.05	4	<0.5
REP 8204	QC	10	20	0.40	554	0.056	2	1.21	0.018	0.10	<0.1	0.03	3.9	<0.1	<0.05	5	0.5
8225	Soil	9	18	0.78	327	0.093	<1	1.63	0.017	0.26	<0.1	0.05	5.6	0.1	0.06	5	1.0
REP 8225	QC	9	20	0.84	348	0.095	<1	1.73	0.018	0.29	<0.1	0.06	5.9	0.2	0.09	5	0.8
8242	Soil	11	29	0.72	253	0.089	2	2.02	0.011	0.09	0.1	0.02	4.1	0.1	<0.05	7	<0.5
REP 8242	QC	10	28	0.76	253	0.088	3	2.15	0.011	0.09	0.1	0.02	3.8	0.2	<0.05	7	<0.5



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Project: Ballarat

Report Date: August 17, 2009

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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
8269	Soil	0.9	43.5	8.1	93	<0.1	9.4	12.1	613	2.81	4.8	1.0	1.9	1.4	44	0.2	0.2	0.1	61	0.49	0.069
REP 8269	QC	1.0	44.2	8.3	96	<0.1	9.6	12.5	609	2.99	4.7	1.0	2.9	1.5	45	0.3	0.2	0.1	65	0.47	0.069
8281	Soil	0.8	27.2	5.8	95	<0.1	13.1	15.1	1939	2.33	5.1	0.2	0.6	0.4	27	0.5	0.3	0.1	67	0.53	0.049
REP 8281	QC	0.9	27.1	5.8	97	<0.1	13.7	15.1	1932	2.36	5.1	0.3	0.9	0.4	28	0.5	0.3	0.1	67	0.54	0.051
8300	Soil	1.3	20.1	7.4	47	0.1	16.9	9.7	469	2.54	6.5	0.5	1.0	1.9	24	<0.1	0.3	0.2	65	0.32	0.030
REP 8300	QC	1.2	19.6	7.3	46	0.1	16.6	9.6	458	2.49	6.4	0.5	7.1	1.8	24	0.1	0.3	0.2	64	0.33	0.032
8311	Soil	1.0	18.5	8.2	35	0.3	11.1	6.3	359	1.71	3.2	0.5	2.5	0.8	24	0.1	0.2	0.2	42	0.27	0.036
REP 8311	QC	0.9	17.9	9.1	36	0.3	11.1	6.4	348	1.70	3.4	0.5	3.1	0.9	23	0.1	0.3	0.2	41	0.28	0.036
8326	Soil	0.8	28.9	7.0	56	<0.1	16.6	11.7	350	3.30	8.1	0.5	2.3	1.8	16	0.1	0.4	0.1	80	0.21	0.044
REP 8326	QC	0.9	29.4	6.7	59	<0.1	15.8	11.4	347	3.21	8.2	0.5	1.0	1.8	16	0.1	0.3	0.1	80	0.21	0.045
8351	Soil	1.3	24.9	11.2	54	<0.1	25.8	11.1	224	2.82	5.2	1.1	7.7	6.2	24	0.2	0.3	0.1	53	0.34	0.049
REP 8351	QC	1.2	25.0	10.6	56	<0.1	26.3	11.3	231	2.84	5.5	1.2	7.3	6.2	24	<0.1	0.3	0.1	54	0.34	0.047
8359	Soil	2.1	41.0	38.4	117	0.3	18.2	18.0	874	4.42	6.9	1.0	6.8	3.3	24	0.2	0.8	0.4	99	0.42	0.083
REP 8359	QC	2.0	42.5	40.2	128	0.2	20.2	19.0	912	4.65	7.4	1.0	7.0	3.3	25	0.2	0.9	0.4	104	0.43	0.087
Reference Materials																					
STD DS7	Standard	21.5	108.8	66.7	398	0.9	56.4	9.8	622	2.43	52.8	4.9	62.7	4.3	75	6.2	5.9	4.4	86	0.97	0.087
STD DS7	Standard	20.4	109.0	63.5	393	0.8	57.1	9.6	630	2.41	51.1	4.6	59.4	4.2	73	6.4	5.7	4.2	86	0.97	0.085
STD DS7	Standard	20.9	108.9	69.6	380	0.8	57.1	9.4	633	2.50	51.0	5.0	68.1	4.6	80	6.2	5.8	4.6	84	1.02	0.079
STD DS7	Standard	21.3	108.3	64.3	394	0.9	57.9	9.6	626	2.36	50.6	4.7	74.3	4.2	71	6.3	5.9	4.4	86	0.92	0.083
STD DS7	Standard	20.1	88.8	54.3	378	0.8	56.5	9.4	621	2.34	51.2	4.1	68.7	3.8	65	6.2	5.1	3.7	85	0.89	0.081
STD DS7	Standard	21.0	88.8	56.2	383	0.8	56.7	9.6	598	2.34	53.1	4.0	58.6	3.8	67	6.3	5.3	3.9	81	0.94	0.075
STD DS7	Standard	19.1	103.8	65.4	378	0.8	53.4	9.0	601	2.31	47.0	4.9	55.8	4.3	68	6.1	5.4	4.5	79	0.88	0.073
STD DS7	Standard	19.6	109.3	79.8	392	0.8	56.5	9.1	600	2.35	49.6	5.4	63.5	4.8	73	6.5	6.4	5.3	81	0.86	0.074
STD DS7	Standard	20.4	82.3	57.2	376	0.8	51.6	9.1	644	2.41	52.4	4.1	79.6	3.8	66	6.2	5.2	4.0	75	0.90	0.076
STD DS7	Standard	21.2	105.3	60.7	368	0.8	55.2	9.5	579	2.25	47.0	4.3	60.9	3.9	63	5.5	5.2	4.1	85	0.90	0.072
STD DS7	Standard	19.5	99.1	68.7	383	0.8	54.0	9.2	581	2.35	49.0	4.9	64.8	4.4	72	6.2	5.6	4.8	84	0.93	0.074
STD DS7	Standard	20.7	100.5	70.6	356	0.9	55.4	9.3	590	2.27	51.6	5.2	57.3	4.4	71	6.5	5.8	4.7	79	0.96	0.076
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8269	Soil	8	14	0.59	265	0.070	<1	1.29	0.019	0.21	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5
REP 8269	QC	8	14	0.61	273	0.070	1	1.18	0.018	0.23	0.1	0.02	4.0	<0.1	<0.05	4	0.6
8281	Soil	4	19	0.42	387	0.058	2	1.08	0.016	0.15	0.1	0.08	2.0	<0.1	0.05	4	0.8
REP 8281	QC	5	19	0.42	378	0.062	3	1.14	0.014	0.15	<0.1	0.08	2.3	<0.1	<0.05	4	0.7
8300	Soil	10	28	0.44	268	0.076	1	1.77	0.011	0.07	0.1	0.02	3.6	<0.1	<0.05	6	0.7
REP 8300	QC	10	28	0.44	271	0.077	1	1.78	0.009	0.07	0.1	0.02	3.5	<0.1	<0.05	6	0.5
8311	Soil	10	18	0.29	360	0.058	1	1.11	0.020	0.07	0.1	0.03	2.1	<0.1	<0.05	5	<0.5
REP 8311	QC	10	19	0.30	379	0.058	2	1.19	0.020	0.08	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5
8326	Soil	9	28	0.80	264	0.113	<1	1.98	0.014	0.19	0.1	0.03	4.0	0.1	<0.05	6	<0.5
REP 8326	QC	8	28	0.82	258	0.118	1	1.98	0.014	0.19	0.1	0.04	4.1	0.1	<0.05	7	<0.5
8351	Soil	29	41	0.62	253	0.106	1	1.56	0.016	0.15	<0.1	0.04	3.7	0.2	<0.05	6	<0.5
REP 8351	QC	30	42	0.62	249	0.108	2	1.58	0.016	0.16	0.1	0.04	3.8	0.2	<0.05	6	<0.5
8359	Soil	14	32	1.08	389	0.116	3	1.96	0.019	0.32	<0.1	0.05	7.9	0.1	0.07	7	<0.5
REP 8359	QC	15	34	1.14	397	0.136	3	2.03	0.020	0.36	0.1	0.04	8.5	0.1	<0.05	8	<0.5
Reference Materials																	
STD DS7	Standard	13	205	1.02	413	0.136	39	1.03	0.099	0.45	4.0	0.18	2.7	4.1	0.17	5	3.3
STD DS7	Standard	13	202	1.03	390	0.135	37	1.03	0.096	0.46	3.8	0.19	2.8	4.2	0.22	5	3.5
STD DS7	Standard	14	214	1.08	416	0.122	40	1.10	0.107	0.47	3.8	0.19	2.4	4.2	0.21	5	3.7
STD DS7	Standard	13	204	1.01	413	0.127	40	1.01	0.096	0.43	4.0	0.20	2.7	4.3	0.19	5	4.0
STD DS7	Standard	12	214	0.96	413	0.107	41	0.91	0.099	0.42	3.7	0.18	2.3	4.1	0.15	4	3.1
STD DS7	Standard	13	211	0.99	430	0.114	38	0.94	0.107	0.48	3.8	0.21	2.4	4.1	0.15	5	3.6
STD DS7	Standard	12	192	0.98	395	0.107	40	0.97	0.092	0.42	3.7	0.16	2.2	4.0	0.17	5	3.1
STD DS7	Standard	12	200	1.01	394	0.118	45	0.97	0.087	0.42	3.9	0.19	2.2	4.2	0.19	4	4.0
STD DS7	Standard	13	213	0.93	416	0.109	38	0.95	0.091	0.43	4.0	0.20	2.4	4.0	0.14	5	3.2
STD DS7	Standard	12	197	0.98	373	0.113	37	0.95	0.088	0.41	3.7	0.20	2.4	3.9	0.19	5	3.8
STD DS7	Standard	12	193	1.01	392	0.112	38	0.97	0.095	0.44	4.0	0.19	2.4	4.0	0.17	4	3.2
STD DS7	Standard	12	195	0.88	415	0.113	36	0.98	0.100	0.44	3.9	0.21	2.4	4.3	0.19	4	3.7
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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



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Val d'Or QC J9P 1S5 Canada

Project: Ballarat

Report Date: August 17, 2009

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QUALITY CONTROL REPORT

VAN09003421.1

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



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Submitted By: Mark Fekete
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 14, 2009
Page: 1 of 12

CERTIFICATE OF ANALYSIS

VAN09003423.1

CLIENT JOB INFORMATION

Project: Ballarat
Shipment ID: 20090731
P.O. Number
Number of Samples: 303

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Hinterland Metals Inc.
203 - 680 Third Ave.
Val d'Or QC J9P 1S5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	299	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	299	Dry at 60C			VAN
1DX15	299	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project:

Ballarat

Report Date:

August 14, 2009

Page:

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Part 1

CERTIFICATE OF ANALYSIS

VAN09003423.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
8360	Soil	1.9	34.0	11.2	61	0.2	12.4	7.7	244	2.60	4.4	0.8	15.2	1.2	22	0.1	0.2	0.1	63	0.27	0.065
8361	Soil	1.2	41.8	8.1	98	0.2	14.3	19.8	1186	4.04	4.3	0.8	43.4	2.4	17	0.1	0.2	0.2	94	0.23	0.065
8362	Soil	0.9	32.3	6.0	45	0.2	15.6	8.1	179	2.12	3.1	0.5	4.0	1.0	14	<0.1	0.1	0.1	63	0.22	0.037
8363	Soil	1.4	47.0	11.8	55	0.2	17.2	11.6	254	2.84	3.7	0.5	3.1	1.3	14	<0.1	0.1	0.2	79	0.24	0.050
8364	Soil	1.1	78.4	5.6	42	0.2	15.1	8.2	179	2.35	2.4	0.8	4.7	0.8	18	0.1	0.1	0.1	56	0.31	0.049
8365	Soil	0.7	41.0	5.1	47	0.2	12.1	8.6	185	2.33	2.4	0.7	2.8	0.8	15	<0.1	0.1	0.1	56	0.25	0.053
8366	Soil	0.7	23.7	4.4	41	<0.1	14.3	9.0	165	2.06	2.9	0.4	2.4	1.0	13	0.1	0.1	<0.1	61	0.25	0.049
8367	Soil	0.9	26.5	5.6	45	0.1	14.9	7.4	160	2.19	3.5	0.7	<0.5	1.0	15	0.1	0.1	<0.1	57	0.26	0.054
8368	Soil	1.0	19.4	11.8	58	<0.1	15.8	8.2	195	2.25	3.0	0.5	0.9	1.3	12	0.1	0.2	0.1	67	0.23	0.047
8369	Soil	1.0	20.4	10.9	49	<0.1	12.4	6.7	178	2.05	3.0	0.5	2.3	1.3	12	0.2	0.1	0.1	59	0.22	0.059
8370	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8371	Soil	0.9	19.7	6.9	51	<0.1	13.9	8.4	233	2.08	4.0	0.5	<0.5	1.3	23	0.2	0.2	<0.1	64	0.47	0.135
8372	Soil	1.7	26.8	8.3	71	0.1	18.5	15.0	882	3.04	6.9	0.9	1.1	1.7	33	0.1	0.3	0.1	73	0.81	0.072
8373	Soil	1.6	27.8	7.0	65	0.1	17.3	15.4	728	2.92	6.0	0.7	2.5	2.1	33	0.2	0.2	<0.1	75	0.82	0.069
8374	Soil	0.8	22.5	8.0	71	<0.1	12.9	9.7	304	2.85	5.1	0.5	39.4	1.9	20	0.2	0.2	0.1	69	0.43	0.096
8375	Soil	1.9	26.1	9.6	90	<0.1	19.0	11.2	464	3.31	6.0	0.6	3.4	2.1	19	<0.1	0.1	0.1	89	0.33	0.071
8376	Soil	1.8	28.7	7.8	66	0.2	23.5	10.1	305	3.02	6.4	0.5	3.3	2.3	19	<0.1	0.3	0.1	77	0.35	0.048
8377	Soil	2.0	34.4	7.9	68	0.1	24.8	14.6	409	3.70	11.5	0.6	5.2	2.5	19	<0.1	0.4	0.1	92	0.34	0.043
8378	Soil	0.8	34.2	6.4	60	0.1	14.5	13.7	307	3.10	6.2	0.7	1.1	2.3	36	<0.1	0.2	0.1	83	0.68	0.119
8379	Soil	0.6	39.8	6.4	80	<0.1	14.9	13.9	550	3.19	4.4	0.7	4.6	1.7	42	0.2	1.0	<0.1	86	1.23	0.156
8380	Soil	0.8	28.1	8.8	83	0.1	18.4	14.0	872	3.06	5.1	1.0	1.6	1.6	42	0.3	0.8	<0.1	78	1.26	0.058
8381	Soil	0.7	31.6	5.1	69	0.1	15.9	10.0	295	3.04	4.2	0.6	2.0	1.6	29	<0.1	0.6	<0.1	92	0.53	0.045
8382	Soil	0.6	46.7	4.5	66	0.1	18.6	17.2	409	3.69	5.0	0.3	<0.5	1.3	43	<0.1	0.2	<0.1	122	1.06	0.338
8383	Soil	1.0	50.8	5.7	93	0.2	14.4	16.4	736	3.67	6.7	0.7	1.7	1.7	40	0.3	0.5	<0.1	99	1.01	0.111
8384	Soil	1.1	39.7	5.8	83	0.2	16.1	14.4	847	3.28	7.1	0.8	1.5	1.5	41	0.4	0.4	<0.1	73	1.07	0.077
8385	Soil	1.0	30.9	4.8	46	0.1	11.3	8.2	457	2.28	4.4	0.9	0.5	2.6	26	0.2	0.3	<0.1	55	0.46	0.039
8386	Soil	1.3	30.3	6.4	65	0.2	15.5	10.8	387	2.76	11.0	1.0	1.6	2.8	34	0.3	0.3	0.1	68	0.68	0.052
8387	Soil	2.2	25.6	7.2	57	0.2	17.4	10.6	533	3.23	10.1	0.7	<0.5	3.0	19	<0.1	0.6	0.2	72	0.33	0.057
8388	Soil	1.5	24.7	5.8	58	<0.1	14.0	9.5	340	2.78	5.3	0.6	<0.5	1.6	25	0.2	0.3	0.1	77	0.54	0.063
8389	Soil	1.3	43.0	5.9	51	0.2	27.5	14.9	751	2.89	5.4	1.7	13.6	1.6	65	0.2	0.4	0.1	48	2.39	0.080



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Project: Ballarat
Report Date: August 14, 2009

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CERTIFICATE OF ANALYSIS

VAN09003423.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8360	Soil	9	26	0.74	255	0.085	2	1.41	0.019	0.20	<0.1	0.06	4.1	0.1	0.09	6	0.8
8361	Soil	11	25	1.11	307	0.159	1	1.95	0.021	0.45	0.1	0.02	6.5	0.2	0.15	8	0.6
8362	Soil	6	27	0.64	118	0.096	1	1.24	0.022	0.07	0.1	0.03	2.9	<0.1	<0.05	6	0.7
8363	Soil	7	37	0.79	166	0.115	<1	1.63	0.017	0.11	0.1	<0.01	3.3	0.1	<0.05	6	<0.5
8364	Soil	9	29	0.63	213	0.093	<1	1.34	0.018	0.10	0.1	0.04	3.6	<0.1	<0.05	6	<0.5
8365	Soil	7	28	0.75	173	0.107	1	1.43	0.021	0.12	0.1	0.03	2.9	0.1	<0.05	6	<0.5
8366	Soil	6	32	0.71	117	0.110	<1	1.22	0.019	0.08	0.1	0.03	2.8	<0.1	<0.05	6	<0.5
8367	Soil	7	27	0.66	180	0.096	2	1.23	0.020	0.09	0.1	0.03	2.7	0.1	0.06	6	<0.5
8368	Soil	7	29	0.80	119	0.120	<1	1.38	0.026	0.14	<0.1	0.01	2.9	0.1	<0.05	6	<0.5
8369	Soil	7	25	0.69	97	0.109	<1	1.25	0.015	0.12	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5
8370	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8371	Soil	7	29	0.67	117	0.099	<1	1.22	0.026	0.09	0.2	0.01	2.7	0.1	<0.05	5	<0.5
8372	Soil	10	35	0.81	290	0.116	2	1.50	0.020	0.16	0.1	0.04	4.1	0.2	<0.05	6	<0.5
8373	Soil	12	35	0.86	258	0.130	<1	1.48	0.021	0.18	0.2	0.03	3.6	<0.1	0.06	6	<0.5
8374	Soil	9	24	0.83	215	0.117	<1	1.47	0.017	0.15	0.1	<0.01	3.5	0.1	<0.05	6	<0.5
8375	Soil	10	39	1.18	292	0.167	2	1.83	0.017	0.40	0.1	<0.01	4.1	0.2	<0.05	8	<0.5
8376	Soil	8	46	0.97	209	0.143	1	1.86	0.018	0.20	0.1	0.01	3.2	0.2	<0.05	7	<0.5
8377	Soil	10	37	0.88	275	0.132	2	2.15	0.026	0.15	0.1	0.02	4.4	0.1	<0.05	7	<0.5
8378	Soil	9	25	0.97	306	0.140	1	1.86	0.025	0.15	<0.1	0.02	3.7	0.1	<0.05	6	<0.5
8379	Soil	8	24	1.22	288	0.114	4	1.65	0.024	0.28	0.1	0.03	5.0	0.1	<0.05	6	<0.5
8380	Soil	12	27	1.01	434	0.109	1	1.67	0.017	0.19	<0.1	0.05	5.0	0.1	<0.05	6	<0.5
8381	Soil	8	28	1.01	285	0.146	2	1.64	0.019	0.22	<0.1	0.04	3.7	0.1	<0.05	7	<0.5
8382	Soil	6	28	1.35	341	0.158	2	1.90	0.030	0.48	0.2	<0.01	5.3	0.2	<0.05	7	<0.5
8383	Soil	12	25	0.97	632	0.130	2	1.75	0.022	0.37	<0.1	0.04	7.7	0.2	0.05	6	<0.5
8384	Soil	13	25	0.71	502	0.106	2	1.32	0.023	0.23	0.1	0.04	7.1	0.1	<0.05	5	<0.5
8385	Soil	17	21	0.49	346	0.102	1	1.30	0.021	0.17	0.1	0.03	3.7	0.1	<0.05	5	<0.5
8386	Soil	14	28	0.69	259	0.109	2	1.36	0.019	0.16	0.2	0.03	3.8	0.2	0.06	5	<0.5
8387	Soil	12	34	0.80	406	0.126	<1	1.71	0.014	0.19	0.1	0.01	3.9	0.2	<0.05	7	<0.5
8388	Soil	9	26	0.74	228	0.134	2	1.33	0.020	0.28	0.1	0.02	3.8	<0.1	<0.05	6	<0.5
8389	Soil	15	23	0.61	429	0.035	2	1.20	0.019	0.13	0.1	0.08	8.1	<0.1	0.11	3	0.7



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Project: Ballarat
Report Date: August 14, 2009

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CERTIFICATE OF ANALYSIS

VAN09003423.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
8390	Soil																							
8391	Soil																							
8392	Soil																							
8393	Soil																							
8394	Soil																							
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8396	Soil																							
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8401	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
8390	Soil	16	30	1.26	513	0.174	2	1.98	0.022	0.48	0.2	0.02	5.9	0.3	0.05	6	<0.5
8391	Soil	28	27	0.85	876	0.125	2	1.77	0.020	0.43	0.1	0.05	4.5	0.2	<0.05	5	<0.5
8392	Soil	7	29	0.52	186	0.075	2	1.98	0.012	0.09	0.2	<0.01	2.3	<0.1	<0.05	6	<0.5
8393	Soil	12	31	0.90	281	0.102	2	1.49	0.023	0.27	0.1	0.03	4.4	<0.1	<0.05	5	<0.5
8394	Soil	15	40	0.99	336	0.118	1	1.72	0.025	0.23	0.1	0.04	4.8	0.2	<0.05	6	<0.5
8395	Soil	17	43	0.96	296	0.133	2	1.81	0.026	0.26	<0.1	0.02	5.0	0.2	<0.05	6	<0.5
8396	Soil	12	33	0.69	167	0.100	3	1.29	0.036	0.15	0.3	0.03	3.9	<0.1	<0.05	4	<0.5
8397	Soil	7	18	0.61	243	0.098	2	1.21	0.021	0.25	0.1	0.06	3.2	0.1	0.13	5	<0.5
8398	Soil	9	35	1.09	278	0.152	1	1.81	0.016	0.46	<0.1	0.03	6.2	0.1	0.10	8	<0.5
8399	Soil	6	33	0.63	155	0.107	3	1.26	0.017	0.10	0.1	0.02	3.4	<0.1	0.06	7	<0.5
8400	Soil	7	31	0.66	179	0.096	2	1.38	0.015	0.12	0.2	0.04	3.5	0.1	0.09	6	<0.5
8401	Soil	6	37	0.72	125	0.111	2	1.34	0.020	0.09	0.1	0.03	3.0	<0.1	0.08	6	0.9
8402	Soil	6	30	0.66	134	0.098	2	1.22	0.016	0.07	0.1	0.03	2.7	<0.1	0.07	5	<0.5
8403	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
8404	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9000	Soil	6	20	0.92	205	0.131	2	1.62	0.011	0.16	0.2	0.04	2.7	0.1	0.06	5	<0.5
9001	Soil	3	18	1.38	246	0.195	1	1.89	0.011	0.32	0.2	0.03	2.0	0.1	<0.05	6	<0.5
9002	Soil	3	16	0.98	267	0.182	2	1.47	0.016	0.28	0.1	0.03	2.0	0.2	<0.05	6	0.5
9003	Soil	2	14	1.80	443	0.304	<1	2.48	0.019	0.89	0.1	0.02	2.1	0.4	<0.05	7	<0.5
9004	Soil	2	33	1.81	318	0.241	1	2.15	0.018	0.72	0.1	0.01	2.9	0.3	<0.05	6	0.6
9005	Soil	10	25	0.84	278	0.145	1	1.90	0.013	0.20	0.1	<0.01	2.8	0.1	0.05	7	<0.5
9006	Soil	13	26	0.87	275	0.174	<1	1.87	0.008	0.39	<0.1	0.02	2.2	0.2	<0.05	6	<0.5
9007	Soil	11	21	0.71	267	0.132	1	1.60	0.013	0.27	0.1	0.02	2.4	0.2	<0.05	6	<0.5
9008	Soil	15	31	0.57	187	0.063	1	1.45	0.009	0.08	0.1	0.03	2.9	<0.1	<0.05	5	<0.5
9009	Soil	16	29	0.69	587	0.080	2	1.54	0.014	0.15	0.1	0.06	5.2	0.1	0.09	5	1.4
9010	Soil	6	26	0.59	139	0.099	1	1.61	0.011	0.05	0.1	0.01	2.9	<0.1	<0.05	7	0.5
9011	Soil	9	24	0.43	176	0.058	<1	1.64	0.010	0.05	<0.1	0.04	3.0	<0.1	<0.05	6	<0.5
9012	Soil	6	26	0.45	143	0.091	<1	1.44	0.010	0.06	0.1	0.02	2.5	<0.1	<0.05	7	<0.5
9013	Soil	8	25	0.44	193	0.115	<1	1.53	0.007	0.06	0.1	0.02	3.3	0.1	<0.05	8	0.7
9014	Soil	9	37	0.58	215	0.072	2	2.41	0.010	0.06	0.1	0.02	4.2	0.1	<0.05	6	0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9015	Soil	1.8	21.3	8.1	55	<0.1	15.4	10.6	361	3.65	13.7	0.3	7.0	2.2	13	0.1	1.1	0.1	89	0.16	0.027
9016	Soil	0.8	20.3	8.2	46	<0.1	22.4	10.8	236	2.92	7.8	0.6	2.2	2.5	18	<0.1	0.5	0.1	65	0.24	0.047
9017	Soil	1.0	27.8	8.5	50	<0.1	24.0	13.9	388	2.97	10.0	0.8	5.2	3.4	17	<0.1	0.7	0.1	67	0.17	0.029
9018	Soil	0.6	27.9	7.1	51	<0.1	27.1	11.3	303	2.69	7.9	0.6	5.2	4.8	19	<0.1	0.4	<0.1	60	0.26	0.039
9019	Soil	1.2	19.9	12.0	46	<0.1	20.0	10.3	299	2.87	6.1	0.7	8.8	3.8	15	<0.1	0.3	0.1	58	0.15	0.039
9020	Soil	1.4	25.9	9.6	46	<0.1	25.2	13.5	420	3.12	11.7	0.7	2.8	1.5	16	0.2	0.5	0.2	60	0.19	0.044
9021	Soil	3.2	34.5	14.6	65	<0.1	46.1	17.2	415	4.27	26.6	0.6	21.6	4.5	13	0.1	1.5	0.2	65	0.15	0.038
9022	Soil	1.7	45.5	7.6	49	0.1	58.7	14.6	378	2.89	6.6	1.5	3.3	1.9	25	<0.1	0.4	0.1	70	0.41	0.057
9023	Soil	1.4	19.3	9.8	41	<0.1	21.0	8.9	234	2.46	6.8	0.6	3.3	1.5	15	<0.1	0.2	0.1	65	0.17	0.036
9024	Soil	7.1	41.7	12.9	49	<0.1	56.3	17.7	341	3.41	14.2	2.0	4.0	3.7	14	<0.1	0.3	0.1	59	0.24	0.085
9025	Soil	1.4	52.5	8.2	60	0.2	277.0	33.3	755	3.86	9.1	1.1	11.5	1.7	28	0.2	0.5	0.1	84	0.50	0.041
9026	Soil	2.4	22.7	14.5	45	<0.1	23.1	9.5	273	2.71	20.8	0.8	16.2	2.0	13	0.1	0.6	0.2	55	0.13	0.051
9027	Soil	0.9	30.3	7.7	54	<0.1	33.0	11.5	283	3.06	8.9	0.9	5.6	3.9	17	<0.1	0.6	0.1	59	0.22	0.047
9028	Soil	1.0	14.0	9.1	34	<0.1	12.9	5.8	152	2.23	6.3	0.6	4.2	0.5	17	0.1	0.3	0.1	51	0.16	0.052
9029	Soil	1.5	29.9	12.5	60	<0.1	29.0	15.4	550	3.43	13.6	0.9	6.8	4.1	18	<0.1	0.9	0.1	67	0.32	0.036
9030	Soil	2.0	31.2	8.7	101	<0.1	22.3	15.1	411	4.50	8.0	0.7	6.8	4.9	13	<0.1	1.4	0.1	80	0.18	0.038
9031	Soil	0.8	20.3	7.8	53	<0.1	23.5	11.2	296	3.49	10.3	0.5	1.6	2.6	17	<0.1	0.5	0.1	71	0.20	0.030
9032	Soil	1.2	18.2	8.4	56	<0.1	19.2	9.2	286	3.19	8.9	0.5	6.5	2.6	14	0.1	0.5	0.2	75	0.17	0.034
9033	Soil	2.0	22.5	8.9	62	<0.1	18.1	11.8	541	3.26	8.5	0.5	11.3	2.9	16	<0.1	0.7	0.1	69	0.18	0.034
9034	Soil	1.1	47.3	5.8	80	<0.1	18.3	15.1	524	3.86	4.5	0.5	4.7	2.3	16	0.1	0.3	0.1	84	0.23	0.055
9035	Soil	1.2	30.5	8.6	76	<0.1	14.5	14.6	737	3.93	8.4	0.3	3.4	1.2	18	0.2	0.5	0.1	89	0.22	0.072
9036	Soil	1.2	14.4	10.1	47	<0.1	16.3	7.9	288	3.11	10.9	0.6	1.8	2.4	14	0.1	0.6	0.2	70	0.15	0.034
9037	Soil	0.9	20.6	8.7	41	<0.1	14.8	6.6	184	2.47	6.1	0.7	3.4	0.5	21	0.1	0.3	0.2	55	0.21	0.060
9038	Soil	1.2	27.7	8.5	58	<0.1	28.2	11.5	346	3.23	11.4	0.8	3.8	2.5	19	<0.1	0.5	0.1	63	0.21	0.046
9039	Soil	1.6	23.3	10.6	55	0.1	27.4	10.7	245	3.16	11.6	0.8	6.5	2.0	25	<0.1	0.6	0.1	56	0.38	0.062
9040	Soil	1.3	36.5	11.7	58	0.1	42.8	18.3	262	3.36	9.1	1.5	7.7	5.2	28	0.1	0.4	0.2	64	0.41	0.049
9041	Soil	0.8	24.0	6.6	52	0.1	26.4	9.6	221	2.60	4.9	0.9	2.9	6.1	27	<0.1	0.2	0.1	52	0.39	0.037
9042	Soil	2.1	29.4	9.8	61	<0.1	31.0	10.9	258	3.33	10.9	1.4	13.1	7.3	16	0.1	0.4	0.1	75	0.17	0.027
9043	Soil	1.2	39.1	7.7	64	0.2	37.1	13.7	551	2.68	7.6	2.1	11.5	3.5	42	0.2	0.7	0.1	56	0.67	0.059
9044	Soil	1.0	49.1	11.7	155	<0.1	50.1	21.0	442	5.25	115.5	1.0	1.1	10.4	12	0.1	0.4	<0.1	70	0.21	0.065



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9015	Soil	7	31	0.57	134	0.085	1	1.80	0.007	0.05	0.1	0.01	4.2	0.1	<0.05	7	<0.5
9016	Soil	10	33	0.53	256	0.074	1	1.99	0.009	0.05	0.2	0.03	3.6	0.2	<0.05	6	<0.5
9017	Soil	12	36	0.59	213	0.080	1	2.04	0.010	0.06	0.1	0.03	4.6	0.1	<0.05	6	0.7
9018	Soil	16	35	0.64	192	0.096	<1	1.85	0.010	0.07	0.2	0.01	3.6	0.1	<0.05	5	<0.5
9019	Soil	19	32	0.44	186	0.067	<1	1.66	0.008	0.07	0.1	0.02	2.9	0.1	<0.05	7	<0.5
9020	Soil	15	33	0.49	179	0.066	1	1.62	0.006	0.09	0.1	0.02	2.3	0.1	<0.05	6	0.5
9021	Soil	15	54	0.66	185	0.059	2	2.13	0.008	0.08	0.1	0.02	3.2	0.1	<0.05	6	<0.5
9022	Soil	11	71	0.78	452	0.070	<1	1.92	0.013	0.05	0.1	0.05	5.0	0.1	<0.05	5	1.2
9023	Soil	9	39	0.72	239	0.079	<1	1.90	0.008	0.05	0.1	0.02	2.5	0.2	<0.05	7	0.9
9024	Soil	15	41	0.62	283	0.057	<1	1.71	0.008	0.03	0.4	0.02	2.9	<0.1	<0.05	5	0.9
9025	Soil	11	247	1.53	739	0.080	<1	2.24	0.014	0.07	<0.1	0.15	7.7	0.3	<0.05	6	1.0
9026	Soil	15	29	0.38	160	0.054	<1	1.55	0.008	0.06	<0.1	0.03	2.4	0.2	<0.05	6	0.7
9027	Soil	21	38	0.60	314	0.073	2	2.02	0.020	0.06	<0.1	0.06	4.5	0.1	<0.05	5	0.9
9028	Soil	12	25	0.31	145	0.049	<1	1.28	0.008	0.05	<0.1	0.05	1.8	<0.1	<0.05	6	0.7
9029	Soil	23	41	0.52	580	0.063	<1	1.68	0.009	0.07	0.1	0.09	5.3	0.2	<0.05	6	0.8
9030	Soil	13	37	0.66	232	0.067	3	2.37	0.009	0.06	0.1	0.04	6.9	0.2	<0.05	7	0.6
9031	Soil	9	35	0.63	204	0.104	1	2.11	0.013	0.06	0.1	0.03	3.9	0.1	<0.05	6	<0.5
9032	Soil	9	34	0.56	170	0.092	1	1.83	0.011	0.05	0.2	0.03	3.6	0.1	<0.05	6	<0.5
9033	Soil	10	30	0.52	372	0.065	2	1.87	0.010	0.05	0.1	0.04	4.7	0.1	<0.05	6	<0.5
9034	Soil	9	30	1.05	373	0.117	<1	2.15	0.015	0.18	0.1	0.02	5.3	0.1	<0.05	7	0.6
9035	Soil	6	33	0.72	116	0.102	2	1.56	0.014	0.08	0.1	0.01	4.1	<0.1	<0.05	7	<0.5
9036	Soil	12	32	0.43	158	0.069	2	1.81	0.009	0.05	0.1	0.04	3.3	0.1	<0.05	7	<0.5
9037	Soil	13	27	0.39	203	0.054	<1	1.63	0.013	0.05	0.1	0.03	2.2	0.1	<0.05	6	<0.5
9038	Soil	14	39	0.53	267	0.081	2	1.98	0.010	0.06	<0.1	0.02	3.6	0.1	<0.05	6	<0.5
9039	Soil	13	39	0.57	317	0.067	1	1.64	0.015	0.07	0.1	0.05	3.1	0.1	<0.05	6	0.6
9040	Soil	29	46	0.73	407	0.074	2	2.07	0.015	0.10	0.1	0.05	5.3	0.1	<0.05	6	0.6
9041	Soil	18	37	0.66	185	0.129	<1	1.57	0.013	0.24	0.2	0.04	3.2	0.2	<0.05	6	<0.5
9042	Soil	27	43	0.66	589	0.127	2	1.88	0.019	0.13	0.1	0.02	3.8	0.2	<0.05	7	0.6
9043	Soil	43	48	0.75	417	0.093	2	1.65	0.015	0.14	0.1	0.08	4.2	0.2	0.08	6	<0.5
9044	Soil	21	81	1.45	260	0.179	<1	3.01	0.010	0.75	<0.1	0.04	3.6	0.4	<0.05	9	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
9045	Soil	2.0	27.5	12.6	71	0.2	28.0	15.8	745	2.97	16.5	1.3	18.6	5.7	19	0.2	0.5	0.1	57	0.20	0.060
9046	Soil	1.2	20.6	10.3	50	0.1	24.7	8.9	271	1.85	4.2	0.7	20.2	1.6	31	0.2	0.2	0.1	40	0.54	0.042
9047	Soil	0.4	6.3	2.7	17	<0.1	3.6	2.8	176	0.94	1.3	0.2	<0.5	0.7	6	<0.1	0.2	<0.1	23	0.05	0.014
9048	Soil	0.5	17.3	4.4	36	<0.1	7.6	5.4	146	2.00	2.5	0.2	1.3	0.5	8	0.1	0.3	0.1	51	0.09	0.027
9049	Soil	0.6	10.4	3.7	19	<0.1	3.8	2.6	87	1.50	3.3	0.2	1.2	0.7	5	<0.1	0.3	<0.1	46	0.05	0.024
9050	Soil	3.3	25.6	10.3	77	<0.1	18.7	12.3	344	3.76	6.1	0.3	54.5	1.4	9	0.1	0.3	0.1	98	0.13	0.038
9051	Soil	2.1	11.7	11.0	42	<0.1	13.3	6.1	181	2.89	7.5	0.4	8.3	2.1	11	0.2	0.6	0.2	77	0.12	0.027
9052	Soil	1.2	21.4	5.5	48	<0.1	9.5	7.7	254	3.49	4.9	0.2	6.6	1.0	10	<0.1	0.4	0.1	93	0.09	0.034
9053	Soil	1.3	18.2	9.3	99	<0.1	13.3	8.7	972	3.72	6.6	0.3	2.5	1.2	11	0.2	0.6	0.2	94	0.11	0.039
9054	Soil	1.5	17.7	7.4	44	<0.1	16.8	8.1	233	3.01	8.1	0.3	3.1	1.5	18	0.1	0.4	0.2	74	0.21	0.029
9055	Soil	1.1	27.4	7.6	47	<0.1	23.7	8.9	265	3.16	9.7	0.3	0.6	1.8	19	<0.1	0.5	0.1	81	0.19	0.031
9056	Soil	1.7	38.9	8.8	56	0.2	19.0	13.8	380	3.35	9.8	0.3	0.8	1.8	14	0.1	0.5	0.2	78	0.14	0.040
9057	Soil	0.8	42.1	6.3	45	<0.1	17.5	8.6	313	2.60	6.2	0.4	1.4	1.6	19	<0.1	0.4	0.1	72	0.22	0.023
9058	Soil	0.9	30.2	7.1	38	<0.1	17.0	8.8	239	2.64	6.7	0.4	2.4	2.0	15	<0.1	0.3	0.1	68	0.19	0.026
9059	Soil	0.9	25.7	6.2	36	0.2	16.0	7.8	261	2.32	5.3	0.4	2.6	1.3	23	<0.1	0.3	0.2	59	0.32	0.050
9060	Soil	0.7	11.0	5.3	53	<0.1	14.4	12.7	222	2.50	4.8	0.2	1.2	1.0	16	0.1	0.4	0.1	61	0.24	0.031
9061	Soil	0.6	31.4	4.9	40	0.1	16.3	14.0	1477	2.21	3.6	0.2	<0.5	1.0	19	0.2	0.3	0.1	55	0.21	0.071
9062	Soil	1.2	18.3	5.7	56	<0.1	26.5	14.3	433	2.76	3.6	0.6	7.1	1.4	25	0.2	0.2	<0.1	74	0.47	0.060
9063	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9064	Soil	1.1	26.9	5.9	66	<0.1	21.5	13.8	520	2.83	5.3	0.5	1.7	1.3	21	0.2	0.2	<0.1	76	0.44	0.064
9065	Soil	0.6	29.0	5.4	65	<0.1	26.0	11.0	503	2.51	6.1	0.7	0.8	1.0	42	0.2	0.3	<0.1	65	1.74	0.060
9066	Soil	0.8	33.5	8.8	67	<0.1	16.2	9.0	488	2.13	10.0	1.0	1.5	0.7	65	0.4	0.3	<0.1	49	2.63	0.065
9067	Soil	2.5	42.4	9.3	94	0.2	22.6	12.0	623	3.06	12.1	1.3	2.7	1.5	43	0.4	0.3	<0.1	76	1.81	0.076
9068	Soil	1.2	35.3	8.3	72	0.1	18.4	11.5	629	2.55	8.8	0.9	2.1	0.9	43	0.3	0.3	<0.1	57	1.81	0.076
9069	Soil	0.4	26.5	5.5	80	<0.1	20.4	9.3	529	2.19	3.4	0.8	5.4	1.1	52	0.4	0.2	<0.1	52	1.87	0.086
9070	Soil	1.1	49.5	5.6	84	0.1	69.3	17.2	798	3.72	6.3	0.6	1.6	1.7	37	0.3	0.2	<0.1	92	1.07	0.115
9071	Soil	3.0	39.7	7.8	110	0.1	22.9	16.1	803	4.01	13.5	0.8	8.3	3.1	28	0.3	0.4	0.1	89	0.59	0.129
9072	Soil	1.8	20.6	7.5	74	0.1	23.2	11.3	422	3.27	6.6	0.4	3.7	2.1	19	0.2	0.2	0.1	83	0.28	0.057
9073	Soil	2.3	47.9	9.7	83	<0.1	22.3	14.1	435	3.82	5.5	0.7	3.7	3.6	20	0.1	0.2	<0.1	80	0.32	0.078
9074	Soil	2.6	38.3	12.6	106	0.2	24.0	23.6	819	4.98	7.4	0.6	7.9	3.9	18	0.2	0.3	0.1	95	0.29	0.087



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9045	Soil	35	44	0.62	673	0.084	1	1.55	0.012	0.10	<0.1	0.05	3.8	0.2	0.06	6	<0.5
9046	Soil	16	34	0.45	250	0.057	1	1.04	0.014	0.08	<0.1	0.04	2.4	0.1	0.08	5	<0.5
9047	Soil	2	9	0.20	62	0.060	<1	0.56	0.017	0.07	<0.1	0.02	0.8	<0.1	<0.05	3	<0.5
9048	Soil	3	19	0.33	79	0.090	1	0.95	0.016	0.04	<0.1	0.04	1.7	<0.1	<0.05	5	<0.5
9049	Soil	3	10	0.15	35	0.068	1	0.67	0.015	0.02	<0.1	0.04	1.4	<0.1	<0.05	4	<0.5
9050	Soil	5	31	0.84	109	0.119	2	1.81	0.013	0.08	0.1	0.03	4.2	<0.1	<0.05	8	<0.5
9051	Soil	7	27	0.36	197	0.060	1	1.59	0.009	0.09	0.4	0.03	2.3	<0.1	<0.05	7	<0.5
9052	Soil	4	19	0.60	147	0.184	2	1.39	0.015	0.18	0.1	0.03	2.1	0.1	<0.05	7	<0.5
9053	Soil	6	27	0.54	180	0.139	2	1.61	0.012	0.11	0.1	0.03	4.0	<0.1	<0.05	8	<0.5
9054	Soil	6	26	0.50	171	0.099	2	1.66	0.010	0.08	0.1	0.02	3.2	<0.1	<0.05	6	<0.5
9055	Soil	7	34	0.60	220	0.105	1	1.99	0.011	0.06	0.1	0.03	3.0	<0.1	<0.05	6	<0.5
9056	Soil	7	37	0.51	211	0.072	1	2.20	0.012	0.05	0.1	0.02	2.7	0.1	<0.05	7	<0.5
9057	Soil	8	32	0.57	168	0.109	1	1.83	0.016	0.05	0.1	0.02	3.6	<0.1	<0.05	6	<0.5
9058	Soil	8	31	0.48	180	0.088	2	1.87	0.014	0.04	0.1	0.03	3.4	0.1	<0.05	6	<0.5
9059	Soil	7	26	0.46	231	0.076	<1	1.70	0.016	0.06	0.1	0.04	3.1	<0.1	<0.05	6	<0.5
9060	Soil	4	21	0.53	168	0.085	1	1.69	0.019	0.07	0.1	0.01	2.2	<0.1	<0.05	5	<0.5
9061	Soil	5	25	0.40	373	0.073	<1	1.39	0.025	0.06	0.1	0.02	2.8	<0.1	<0.05	5	<0.5
9062	Soil	7	56	1.01	231	0.127	2	1.63	0.020	0.14	0.1	0.03	4.1	0.1	<0.05	6	<0.5
9063	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9064	Soil	7	44	0.92	265	0.150	1	1.62	0.016	0.24	0.2	0.02	3.4	0.1	<0.05	6	<0.5
9065	Soil	8	45	0.83	397	0.099	3	1.45	0.021	0.15	0.1	0.04	3.6	<0.1	0.08	5	<0.5
9066	Soil	9	27	0.68	434	0.076	3	1.29	0.020	0.13	0.1	0.06	3.2	0.1	0.16	4	1.0
9067	Soil	12	39	1.07	485	0.135	2	1.57	0.017	0.39	0.1	0.04	5.4	0.2	0.10	5	0.9
9068	Soil	8	35	0.98	431	0.094	3	1.43	0.016	0.21	1.4	0.05	3.8	0.1	0.09	4	0.5
9069	Soil	9	41	1.13	314	0.091	3	1.47	0.019	0.13	0.1	0.05	3.8	0.1	0.07	4	0.7
9070	Soil	9	215	1.69	428	0.185	<1	2.23	0.015	0.40	0.1	0.03	4.4	0.2	<0.05	7	<0.5
9071	Soil	13	42	1.26	397	0.171	1	2.01	0.011	0.38	0.1	0.04	4.6	0.2	<0.05	7	0.8
9072	Soil	10	41	0.86	239	0.132	<1	1.64	0.014	0.28	0.1	0.03	3.5	0.2	<0.05	7	<0.5
9073	Soil	14	35	1.01	243	0.172	2	1.87	0.013	0.37	<0.1	0.02	3.5	0.2	<0.05	6	<0.5
9074	Soil	11	42	1.14	288	0.185	2	2.51	0.014	0.38	0.1	0.04	3.8	0.3	<0.05	7	<0.5



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Project: Ballarat
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
9075	Soil	0.9	18.6	8.0	48	0.2	4.5	3.7	141	1.31	1.7	0.3	1.4	<0.1	12	0.2	0.2	<0.1	37	0.11	0.047
9076	Soil	1.6	36.6	13.3	92	0.2	14.1	14.9	1327	2.75	2.7	0.5	3.7	1.3	21	0.3	0.2	0.1	70	0.33	0.085
9077	Soil	0.7	46.1	9.2	136	0.2	12.8	18.5	645	4.38	2.3	0.3	2.5	0.7	43	0.2	<0.1	<0.1	117	0.45	0.156
9078	Soil	0.9	31.4	21.0	144	<0.1	11.2	13.2	576	3.44	1.7	0.2	0.7	0.6	22	0.3	0.1	<0.1	101	0.37	0.083
9079	Soil	1.0	29.0	23.2	149	<0.1	17.7	19.5	831	4.04	3.5	0.4	0.8	1.6	30	0.4	0.2	<0.1	110	0.55	0.097
9080	Soil	1.0	40.2	11.6	62	0.3	16.7	8.1	287	2.55	3.2	1.9	<0.5	3.2	32	0.3	0.2	0.2	55	0.59	0.048
9081	Soil	1.0	19.2	6.9	57	<0.1	11.7	8.3	457	2.13	2.1	0.6	8.8	2.1	21	0.4	0.2	0.1	52	0.36	0.039
9082	Soil	0.6	31.4	6.0	93	<0.1	14.3	18.4	537	3.80	3.2	0.6	1.8	2.1	35	0.1	0.1	<0.1	97	0.68	0.116
9083	Soil	0.9	35.9	18.1	142	0.1	13.3	14.6	466	3.50	2.1	0.5	22.9	1.4	31	0.3	0.1	<0.1	93	0.51	0.072
9084	Soil	0.6	43.1	13.9	109	0.2	14.5	14.2	441	3.36	3.0	0.7	2.9	1.7	27	0.2	0.1	0.1	93	0.42	0.076
9085	Soil	0.7	24.9	11.3	91	<0.1	14.5	15.2	488	3.25	3.6	0.4	1.2	1.4	22	0.1	0.2	<0.1	97	0.32	0.055
9086	Soil	0.6	49.8	11.5	96	0.2	11.6	15.3	503	3.27	3.0	0.5	3.5	0.9	27	0.2	<0.1	0.1	93	0.30	0.085
9087	Soil	1.3	33.9	16.2	111	0.1	9.8	10.0	417	2.57	2.5	0.5	9.9	2.1	17	0.2	<0.1	0.2	63	0.34	0.093
9088	Soil	1.6	42.6	16.4	93	0.3	12.2	10.1	325	2.69	3.5	0.8	5.3	3.3	18	0.1	0.1	0.2	64	0.32	0.053
9089	Soil	1.6	30.2	11.9	75	0.3	15.6	10.6	363	2.66	4.2	0.7	2.8	2.6	21	0.2	0.1	0.1	66	0.34	0.058
9090	Soil	1.7	19.0	10.9	44	0.1	11.0	8.8	429	2.36	7.8	0.5	1.8	1.7	12	0.1	0.2	0.1	64	0.18	0.039
9091	Soil	2.5	40.9	8.0	82	0.2	21.9	14.8	592	3.70	13.1	0.9	4.3	3.1	27	0.2	0.3	0.1	78	0.56	0.115
9092	Soil	0.9	25.6	9.8	47	0.1	27.2	13.1	419	2.24	10.9	1.3	3.6	1.7	31	<0.1	1.3	0.1	58	0.53	0.082
9093	Soil	0.9	30.1	9.0	43	0.1	30.8	13.4	495	1.95	7.0	1.6	3.6	1.5	37	0.1	1.8	0.1	40	0.80	0.070
9094	Soil	1.5	25.8	10.4	44	0.1	23.4	13.9	540	2.12	15.3	0.9	8.1	1.8	28	0.1	10.1	0.1	50	0.46	0.055
9095	Soil	1.1	10.0	7.6	27	<0.1	9.0	3.7	128	1.85	5.6	0.4	3.5	2.1	9	<0.1	0.6	0.2	56	0.09	0.018
9096	Soil	1.1	43.2	9.8	35	<0.1	15.7	6.2	311	2.36	8.4	0.9	6.0	1.6	12	0.5	0.3	0.2	60	0.13	0.035
9097	Soil	1.1	25.3	9.6	38	0.1	20.5	8.0	282	2.42	11.1	0.9	5.7	2.8	16	<0.1	0.5	0.1	50	0.19	0.038
9098	Soil	1.1	17.2	8.4	43	<0.1	21.0	8.9	232	2.96	10.5	0.5	3.3	2.8	14	0.1	0.5	0.1	73	0.17	0.023
9099	Soil	0.9	26.7	9.4	48	<0.1	23.7	12.2	318	2.86	8.4	0.5	9.0	3.2	16	<0.1	0.4	0.1	65	0.24	0.046
9100	Soil	0.8	19.9	7.9	45	<0.1	18.2	9.6	240	2.58	6.1	0.4	3.3	1.6	16	<0.1	0.4	0.1	64	0.24	0.039
9101	Soil	0.9	29.1	9.5	55	<0.1	22.5	14.1	441	3.09	8.4	0.5	1.6	2.7	17	<0.1	0.5	0.1	75	0.24	0.035
9102	Soil	1.1	21.0	8.4	47	0.1	16.1	10.1	340	2.76	6.0	0.5	2.6	1.5	11	0.2	0.3	0.1	75	0.12	0.033
9103	Soil	1.4	46.4	11.7	112	<0.1	25.1	16.7	679	4.28	10.1	0.8	9.6	4.6	43	0.2	0.6	<0.1	76	0.75	0.049
9104	Soil	1.5	34.3	9.3	65	0.1	26.9	15.4	673	3.45	6.1	1.5	8.5	2.0	35	0.1	1.0	0.1	75	0.78	0.056



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9075	Soil	5	10	0.34	104	0.049	2	0.69	0.017	0.10	<0.1	0.03	0.6	0.1	<0.05	4	<0.5
9076	Soil	10	26	0.74	295	0.138	<1	1.44	0.023	0.23	<0.1	0.03	2.7	0.2	<0.05	6	<0.5
9077	Soil	4	25	1.76	541	0.290	<1	2.66	0.024	0.86	<0.1	0.02	3.1	0.3	0.06	8	0.8
9078	Soil	3	25	1.87	335	0.232	1	2.35	0.021	0.79	<0.1	0.02	2.1	0.2	<0.05	6	0.5
9079	Soil	7	39	1.81	296	0.218	<1	2.57	0.017	0.53	0.2	0.02	3.0	0.2	<0.05	7	0.5
9080	Soil	26	26	0.68	429	0.114	2	1.79	0.019	0.13	<0.1	0.06	4.6	0.2	<0.05	6	0.6
9081	Soil	10	22	0.52	186	0.082	<1	1.21	0.017	0.12	<0.1	0.05	3.1	<0.1	<0.05	6	<0.5
9082	Soil	9	27	1.68	357	0.235	<1	2.45	0.020	0.54	0.1	0.02	3.0	0.2	<0.05	6	<0.5
9083	Soil	6	25	1.58	356	0.217	<1	2.26	0.018	0.44	<0.1	0.03	2.9	0.2	<0.05	6	<0.5
9084	Soil	7	29	1.32	329	0.163	<1	2.12	0.015	0.40	<0.1	0.03	3.2	0.2	<0.05	6	<0.5
9085	Soil	5	28	1.13	218	0.164	2	1.84	0.014	0.28	0.2	<0.01	2.5	0.2	<0.05	6	<0.5
9086	Soil	5	22	1.15	324	0.152	1	1.95	0.017	0.39	0.1	0.02	3.0	0.2	<0.05	6	<0.5
9087	Soil	9	18	0.98	238	0.134	1	1.55	0.015	0.33	0.1	0.01	1.8	0.2	<0.05	6	<0.5
9088	Soil	14	25	0.76	256	0.111	<1	1.52	0.013	0.19	0.1	0.03	2.6	0.2	<0.05	6	<0.5
9089	Soil	12	27	0.76	386	0.109	<1	1.45	0.016	0.23	0.1	0.03	2.8	0.2	<0.05	6	<0.5
9090	Soil	8	20	0.32	156	0.062	<1	1.12	0.012	0.10	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5
9091	Soil	13	36	1.10	408	0.120	<1	1.81	0.011	0.34	0.1	0.03	4.0	0.2	<0.05	6	<0.5
9092	Soil	12	45	0.79	604	0.067	2	1.60	0.018	0.06	0.1	0.13	2.9	0.3	0.06	5	<0.5
9093	Soil	13	36	0.65	488	0.048	<1	1.41	0.014	0.04	0.1	0.12	2.7	0.2	0.06	4	0.5
9094	Soil	11	31	0.44	408	0.039	2	1.40	0.013	0.05	0.2	0.20	3.2	0.4	<0.05	5	<0.5
9095	Soil	8	17	0.15	68	0.075	<1	0.94	0.010	0.05	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
9096	Soil	15	29	0.37	92	0.069	2	1.42	0.009	0.10	<0.1	0.03	2.2	0.1	<0.05	7	<0.5
9097	Soil	19	31	0.37	218	0.057	<1	1.25	0.013	0.07	0.1	0.05	2.5	0.1	<0.05	5	<0.5
9098	Soil	11	32	0.48	171	0.076	1	1.75	0.010	0.04	0.1	0.03	2.9	0.1	<0.05	6	<0.5
9099	Soil	13	37	0.66	178	0.081	2	1.81	0.011	0.07	0.1	0.03	3.5	0.1	<0.05	6	<0.5
9100	Soil	11	34	0.66	166	0.089	2	1.68	0.012	0.09	0.1	0.02	2.8	0.1	<0.05	6	<0.5
9101	Soil	11	39	0.70	203	0.094	2	1.77	0.011	0.08	0.1	0.02	3.6	<0.1	<0.05	6	<0.5
9102	Soil	10	30	0.43	125	0.075	1	1.33	0.012	0.08	0.1	0.03	3.1	<0.1	<0.05	7	<0.5
9103	Soil	12	40	1.05	412	0.099	4	1.73	0.012	0.33	<0.1	0.03	7.2	0.2	<0.05	6	<0.5
9104	Soil	19	45	0.75	403	0.059	2	1.83	0.017	0.07	<0.1	0.12	7.1	0.2	<0.05	6	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
9105	Soil	1.3	30.9	7.0	47	<0.1	14.7	9.3	351	3.10	5.7	0.5	2.4	1.9	15	0.2	0.4	0.1	86	0.20	0.032
9106	Soil	0.9	19.3	8.4	43	<0.1	20.1	9.6	227	3.11	9.1	0.4	3.2	1.7	12	0.2	0.4	0.1	78	0.14	0.024
9107	Soil	1.0	53.2	8.4	54	<0.1	21.9	12.9	348	3.59	6.6	0.3	5.6	1.8	14	<0.1	0.4	0.1	87	0.20	0.037
9108	Soil	1.0	30.9	14.5	93	0.1	11.8	9.4	332	2.49	6.6	0.5	5.0	1.1	17	0.3	1.1	<0.1	67	0.27	0.043
9109	Soil	0.9	22.4	7.6	50	0.1	16.9	10.6	314	2.61	3.9	0.5	13.8	1.2	18	0.1	0.2	0.1	79	0.32	0.050
9110	Soil	0.8	22.5	7.1	59	<0.1	18.7	11.6	350	2.66	4.6	0.5	2.0	1.4	22	<0.1	0.2	<0.1	69	0.38	0.050
9111	Soil	1.1	27.5	7.8	46	0.2	14.4	10.2	499	2.52	4.0	0.6	1.9	1.1	22	0.1	0.2	0.1	72	0.37	0.044
9112	Soil	1.3	33.5	6.3	49	0.2	15.7	10.3	439	2.23	3.1	1.0	3.0	1.2	43	0.2	0.2	0.1	55	0.90	0.050
9113	Soil	1.3	26.3	5.4	64	<0.1	27.5	15.9	632	2.98	3.3	0.9	1.5	2.2	34	0.2	0.2	<0.1	83	0.71	0.058
9114	Soil	1.6	30.9	8.0	69	0.1	22.3	11.8	588	2.70	8.9	0.9	6.8	1.7	34	0.2	0.3	<0.1	69	1.11	0.065
9115	Soil	1.1	46.4	4.4	51	0.2	20.8	10.6	632	2.55	9.3	0.9	2.0	1.0	41	0.2	0.4	<0.1	71	1.81	0.081
9116	Soil	0.5	22.1	7.2	52	<0.1	20.5	8.9	431	2.03	8.1	1.6	2.7	0.8	50	0.3	0.6	<0.1	48	2.27	0.063
9117	Soil	0.8	32.7	7.0	93	0.2	19.9	12.5	1592	1.95	8.3	1.2	1.0	0.6	67	1.0	0.4	<0.1	46	2.70	0.083
9118	Soil	2.3	48.4	15.0	127	0.1	34.5	15.6	585	3.74	118.2	0.7	1.8	2.9	20	0.3	3.2	0.1	82	0.38	0.092
9119	Soil	1.3	28.7	6.0	85	<0.1	30.7	15.2	763	3.78	5.8	0.5	3.0	2.5	24	<0.1	0.2	0.1	89	0.42	0.100
9120	Soil	0.8	11.6	7.1	28	<0.1	9.3	4.0	109	1.69	3.7	0.4	4.3	0.9	14	0.1	0.2	0.1	45	0.14	0.025
9121	Soil	0.9	23.7	8.6	53	0.1	16.5	8.1	223	2.99	5.7	0.8	5.1	1.6	24	<0.1	0.2	0.2	78	0.22	0.052
9122	Soil	1.2	22.6	14.3	69	<0.1	12.4	9.3	476	3.00	6.5	0.7	1.8	1.1	16	0.3	0.3	0.2	76	0.15	0.064
9123	Soil	0.6	18.1	4.1	38	<0.1	8.4	7.3	235	2.22	3.7	0.3	1.4	0.4	15	<0.1	0.2	<0.1	68	0.19	0.064
9124	Soil	0.5	20.8	6.4	38	<0.1	14.3	7.7	202	2.33	5.5	0.4	1.7	1.6	20	<0.1	0.3	0.1	58	0.26	0.051
9125	Soil	0.8	16.7	8.5	51	<0.1	19.5	10.7	287	3.17	9.7	0.4	1.6	1.9	19	0.1	0.4	0.1	83	0.18	0.033
9126	Soil	1.2	16.2	10.4	62	<0.1	15.8	10.5	418	4.16	11.2	0.3	1.7	1.6	18	0.1	0.4	0.2	101	0.16	0.067
9127	Soil	1.0	9.7	10.4	34	<0.1	11.2	4.6	135	3.04	9.8	0.6	1.8	1.9	12	<0.1	0.4	0.2	80	0.11	0.031
9128	Soil	1.7	17.9	10.5	48	<0.1	19.6	10.5	327	3.23	10.6	0.7	3.1	3.3	14	0.1	0.6	0.2	81	0.13	0.024
9129	Soil	1.5	18.9	11.5	67	0.1	24.1	10.9	320	3.58	10.9	0.6	2.2	3.3	12	0.2	0.6	0.2	91	0.12	0.031
9130	Soil	1.2	16.1	14.6	55	0.2	13.0	8.9	514	2.64	4.7	0.6	2.2	3.0	22	<0.1	0.2	0.2	77	0.21	0.023
9131	Soil	1.0	19.0	12.1	65	0.2	15.1	10.1	402	2.86	5.3	0.7	3.1	3.6	20	0.2	0.3	0.1	61	0.37	0.054
9132	Soil	0.9	21.7	7.0	75	0.2	18.8	12.4	594	3.12	5.7	1.0	7.1	3.2	27	0.1	0.2	0.1	68	0.68	0.054
9133	Soil	0.7	24.3	5.5	82	0.1	18.2	12.2	624	3.15	4.2	0.6	2.4	2.2	33	<0.1	0.2	<0.1	84	0.83	0.057
9134	Soil	1.7	28.7	6.4	70	0.2	16.9	8.0	462	2.61	8.8	1.1	7.8	2.4	34	0.3	0.4	0.1	61	0.80	0.075



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9105	Soil	9	24	0.69	272	0.112	1	1.67	0.012	0.18	0.1	0.03	4.7	<0.1	<0.05	7	<0.5
9106	Soil	7	33	0.46	136	0.081	1	1.96	0.010	0.05	0.1	0.01	2.6	<0.1	<0.05	7	<0.5
9107	Soil	6	31	0.77	178	0.104	1	2.15	0.013	0.11	0.1	0.03	4.0	<0.1	<0.05	6	<0.5
9108	Soil	7	24	0.58	120	0.050	2	1.49	0.015	0.06	0.1	0.08	4.4	0.1	<0.05	6	<0.5
9109	Soil	7	31	0.80	161	0.102	1	1.72	0.018	0.07	0.1	0.03	4.1	<0.1	<0.05	6	<0.5
9110	Soil	7	32	0.68	146	0.091	1	1.71	0.015	0.05	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
9111	Soil	7	29	0.55	200	0.066	<1	1.51	0.014	0.05	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5
9112	Soil	13	27	0.62	384	0.066	1	1.53	0.019	0.08	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5
9113	Soil	10	45	1.08	417	0.129	2	1.93	0.020	0.27	<0.1	0.02	4.8	0.1	<0.05	6	<0.5
9114	Soil	10	37	0.77	410	0.092	2	1.55	0.019	0.14	0.1	0.04	4.2	0.1	<0.05	5	<0.5
9115	Soil	9	29	0.73	601	0.084	1	1.27	0.018	0.19	<0.1	0.04	5.1	0.1	0.07	5	1.1
9116	Soil	10	32	0.61	340	0.048	3	1.30	0.022	0.05	<0.1	0.06	2.8	<0.1	0.08	4	0.7
9117	Soil	12	27	0.60	613	0.034	3	1.23	0.022	0.05	<0.1	0.07	3.4	<0.1	0.11	3	1.0
9118	Soil	13	36	0.70	276	0.093	2	1.48	0.010	0.21	<0.1	0.03	5.6	0.2	<0.05	5	<0.5
9119	Soil	10	58	1.26	362	0.162	<1	2.42	0.011	0.51	0.1	0.02	3.5	0.3	<0.05	8	<0.5
9120	Soil	8	19	0.27	131	0.051	2	1.16	0.016	0.06	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5
9121	Soil	12	35	0.65	242	0.119	2	1.93	0.016	0.15	<0.1	0.02	3.0	0.2	<0.05	7	<0.5
9122	Soil	15	27	0.53	142	0.073	2	1.64	0.013	0.13	<0.1	0.02	2.2	0.1	<0.05	7	<0.5
9123	Soil	4	16	0.65	139	0.099	1	1.33	0.023	0.13	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5
9124	Soil	7	29	0.57	176	0.098	1	1.70	0.016	0.06	0.2	<0.01	2.5	<0.1	<0.05	5	<0.5
9125	Soil	8	31	0.63	160	0.092	2	1.77	0.011	0.07	0.1	0.01	2.9	<0.1	<0.05	6	<0.5
9126	Soil	6	33	0.73	134	0.115	2	1.95	0.011	0.12	<0.1	0.01	2.2	<0.1	<0.05	7	<0.5
9127	Soil	9	28	0.36	120	0.076	1	1.60	0.011	0.04	0.1	0.01	2.0	<0.1	<0.05	7	<0.5
9128	Soil	10	39	0.48	240	0.077	2	2.38	0.011	0.05	0.1	0.02	3.5	0.1	<0.05	7	<0.5
9129	Soil	9	41	0.46	186	0.083	1	2.72	0.012	0.05	0.1	0.01	3.3	0.1	<0.05	8	<0.5
9130	Soil	16	26	0.44	267	0.067	2	1.85	0.012	0.05	<0.1	0.01	3.0	0.1	<0.05	8	<0.5
9131	Soil	13	31	0.61	209	0.090	1	1.70	0.012	0.15	0.1	0.02	3.2	0.1	<0.05	5	<0.5
9132	Soil	22	33	0.81	412	0.101	2	1.90	0.015	0.15	0.1	0.03	4.9	0.1	<0.05	7	<0.5
9133	Soil	9	39	1.01	407	0.152	2	1.86	0.016	0.26	<0.1	0.02	4.6	0.1	<0.05	7	0.6
9134	Soil	16	26	0.62	534	0.072	2	1.41	0.013	0.18	0.1	0.05	4.7	0.1	<0.05	5	0.6



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9135	Soil																							
9136	Soil																							
9137	Soil																							
9138	Soil																							
9139	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9135	Soil	20	31	0.90	599	0.113	2	1.75	0.017	0.35	<0.1	0.06	5.9	0.2	<0.05	6	0.5
9136	Soil	10	27	0.60	486	0.082	3	1.20	0.022	0.14	<0.1	0.05	4.1	0.1	0.10	4	0.7
9137	Soil	11	21	0.44	355	0.090	2	1.13	0.017	0.13	0.1	0.02	2.6	<0.1	<0.05	6	<0.5
9138	Soil	8	31	0.82	242	0.119	1	1.80	0.013	0.20	0.1	0.01	3.8	0.1	<0.05	7	<0.5
9139	Soil	8	45	0.84	375	0.169	1	1.61	0.017	0.58	0.1	0.02	5.7	0.2	<0.05	8	0.7
9140	Soil	8	28	0.98	421	0.159	1	1.62	0.016	0.56	<0.1	0.02	6.4	0.2	<0.05	8	<0.5
9141	Soil	6	21	1.17	333	0.234	<1	2.20	0.018	0.56	0.1	0.02	5.6	0.2	<0.05	9	<0.5
9142	Soil	9	30	1.06	408	0.158	<1	1.91	0.019	0.44	0.1	0.02	4.8	0.1	<0.05	7	0.6
9143	Soil	15	33	0.96	433	0.126	1	1.66	0.017	0.30	<0.1	0.01	5.5	0.1	<0.05	6	<0.5
9144	Soil	10	23	0.71	286	0.121	1	1.55	0.019	0.17	0.1	0.03	3.2	0.1	<0.05	7	<0.5
9145	Soil	7	25	0.74	294	0.116	<1	1.46	0.017	0.15	0.1	0.02	3.6	<0.1	0.06	6	0.5
9146	Soil	18	22	0.72	234	0.094	2	1.51	0.012	0.30	<0.1	<0.01	6.1	0.1	<0.05	6	0.8
9147	Soil	22	28	0.74	410	0.083	1	1.90	0.024	0.10	<0.1	0.08	5.8	0.1	0.08	6	1.0
9148	Soil	18	29	0.89	505	0.133	<1	1.86	0.020	0.30	0.1	0.04	6.1	0.2	<0.05	7	0.6
9149	Soil	14	28	0.80	549	0.090	2	1.56	0.021	0.22	<0.1	0.05	5.3	0.1	0.08	6	0.6
9150	Soil	10	24	0.86	399	0.105	2	1.57	0.021	0.27	0.1	0.04	4.5	0.1	0.06	6	0.9
9151	Soil	15	39	1.53	561	0.148	2	2.09	0.015	0.51	<0.1	0.03	5.6	0.2	<0.05	6	0.7
9152	Soil	11	29	0.88	578	0.105	2	1.65	0.019	0.23	0.1	0.04	5.2	0.1	<0.05	6	0.9
9153	Soil	10	37	0.96	331	0.148	1	1.90	0.014	0.39	<0.1	0.02	3.9	0.1	<0.05	7	0.8
9154	Soil	11	25	0.64	442	0.076	2	1.27	0.024	0.15	0.1	0.05	3.5	0.1	0.13	5	1.0
9155	Soil	9	40	0.90	313	0.126	1	1.58	0.016	0.24	0.1	0.03	3.7	0.2	<0.05	6	0.7
9156	Soil	17	35	0.85	301	0.114	1	1.69	0.018	0.17	0.1	0.03	3.7	0.1	0.07	6	<0.5
9157	Soil	11	27	0.57	204	0.089	<1	1.29	0.015	0.11	0.1	0.04	2.5	0.1	0.08	5	0.6
9158	Soil	7	32	0.82	195	0.134	<1	1.45	0.016	0.19	0.1	0.03	2.8	0.1	<0.05	7	<0.5
9159	Soil	7	20	0.49	203	0.109	<1	1.03	0.019	0.11	0.1	0.02	2.1	0.1	<0.05	6	<0.5
9160	Soil	10	24	0.39	233	0.041	1	1.19	0.019	0.08	<0.1	0.08	1.8	<0.1	0.11	4	1.0
9161	Soil	7	40	0.92	121	0.141	<1	1.78	0.023	0.14	0.1	0.02	3.4	0.1	<0.05	8	0.6
9162	Soil	9	29	0.56	182	0.078	1	1.37	0.019	0.07	<0.1	0.05	3.3	<0.1	0.08	6	1.0
9163	Soil	7	32	0.62	177	0.085	1	1.30	0.021	0.07	0.1	0.04	2.9	<0.1	0.05	5	<0.5
9164	Soil	6	30	0.62	222	0.096	<1	1.13	0.019	0.20	0.1	0.03	2.6	0.1	0.05	6	0.6



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9165	Soil																							
9166	Soil																							
9167	Soil																							
9168	Soil																							
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CERTIFICATE OF ANALYSIS

VAN09003423.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9165	Soil	9	28	0.61	202	0.094	2	1.31	0.020	0.10	<0.1	0.05	2.9	0.2	0.08	5	0.7
9166	Soil	5	8	0.07	68	0.062	<1	0.39	0.016	0.04	<0.1	0.05	1.0	<0.1	<0.05	4	<0.5
9167	Soil	7	32	0.63	164	0.114	<1	1.35	0.017	0.14	0.1	0.04	3.1	0.1	<0.05	7	0.7
9168	Soil	11	26	0.58	215	0.084	1	1.50	0.020	0.08	0.1	0.06	5.1	0.1	<0.05	6	0.7
9169	Soil	9	27	0.63	218	0.100	2	1.38	0.016	0.12	0.1	0.04	3.2	0.1	<0.05	6	<0.5
9170	Soil	9	23	1.04	485	0.111	1	1.89	0.080	0.46	<0.1	0.05	7.1	0.2	0.52	7	1.9
9171	Soil	7	22	0.73	213	0.103	<1	1.34	0.016	0.14	0.1	0.03	3.3	0.1	0.09	6	0.9
9172	Soil	9	31	0.47	196	0.073	2	1.80	0.012	0.05	0.1	0.02	2.8	0.1	<0.05	7	<0.5
9173	Soil	10	35	0.48	188	0.083	1	1.96	0.011	0.08	0.1	0.02	3.2	0.1	<0.05	7	<0.5
9174	Soil	7	48	0.91	245	0.174	1	1.76	0.013	0.27	<0.1	0.01	3.9	0.1	<0.05	8	<0.5
9175	Soil	10	34	0.50	218	0.069	1	2.28	0.011	0.08	0.2	0.02	3.3	0.1	<0.05	7	<0.5
9176	Soil	12	42	0.69	314	0.091	1	2.08	0.011	0.10	0.1	0.02	3.6	0.1	<0.05	7	<0.5
9177	Soil	12	31	0.63	362	0.101	1	1.84	0.013	0.13	0.1	0.02	4.4	<0.1	<0.05	7	<0.5
9178	Soil	6	26	1.21	377	0.127	<1	2.59	0.010	0.25	<0.1	<0.01	4.4	0.1	<0.05	8	<0.5
9179	Soil	8	31	0.60	274	0.107	1	1.77	0.013	0.14	0.1	0.02	2.8	<0.1	<0.05	8	<0.5
9180	Soil	7	27	0.77	332	0.130	<1	2.26	0.016	0.18	<0.1	0.01	4.1	0.1	<0.05	6	<0.5
9181	Soil	7	25	0.90	311	0.147	<1	2.43	0.016	0.15	0.1	0.01	3.1	0.1	<0.05	6	<0.5
9182	Soil	3	20	1.28	226	0.165	<1	2.30	0.013	0.31	<0.1	<0.01	2.6	0.1	<0.05	7	<0.5
9183	Soil	8	31	0.67	242	0.093	2	2.30	0.012	0.07	<0.1	0.02	4.6	0.1	<0.05	8	0.7
9184	Soil	8	23	1.00	343	0.144	2	2.42	0.013	0.30	0.1	0.02	4.9	0.1	<0.05	8	<0.5
9185	Soil	11	30	0.66	232	0.108	2	1.93	0.014	0.13	0.1	0.03	4.3	<0.1	<0.05	7	<0.5
9186	Soil	8	19	0.31	146	0.085	<1	1.18	0.011	0.06	<0.1	0.01	3.6	<0.1	<0.05	8	<0.5
9187	Soil	6	15	0.44	142	0.149	1	1.29	0.012	0.09	<0.1	<0.01	2.2	<0.1	<0.05	8	<0.5
9188	Soil	11	27	0.36	140	0.079	2	1.67	0.009	0.05	0.1	0.02	2.9	0.1	<0.05	7	0.5
9189	Soil	8	26	0.53	139	0.088	<1	1.58	0.013	0.07	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5
9190	Soil	4	19	1.07	251	0.111	<1	2.35	0.012	0.14	<0.1	0.02	4.5	<0.1	<0.05	7	0.7
9191	Soil	13	32	0.69	279	0.079	2	2.30	0.011	0.16	<0.1	0.01	5.8	0.1	<0.05	8	0.6
9192	Soil	27	33	0.77	494	0.090	2	2.08	0.013	0.22	0.1	0.06	7.5	0.2	<0.05	7	<0.5
9193	Soil	11	42	0.76	216	0.124	<1	2.43	0.011	0.20	0.2	0.02	4.4	0.1	<0.05	7	<0.5
9194	Soil	8	19	0.41	190	0.080	<1	1.39	0.016	0.07	0.1	0.02	2.6	0.1	<0.05	7	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9195	Soil																							
9196	Soil																							
9197	Soil																							
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9221	Soil																							
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9223	Soil																							
9224	Soil																							



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9195	Soil	5	34	1.36	204	0.213	1	2.56	0.008	0.56	0.1	<0.01	3.2	0.2	<0.05	10	<0.5
9196	Soil	7	24	0.94	431	0.120	2	1.60	0.016	0.23	<0.1	0.02	2.7	0.1	<0.05	6	<0.5
9197	Soil	6	38	0.74	356	0.120	<1	2.09	0.013	0.13	0.1	<0.01	4.4	0.1	<0.05	9	<0.5
9198	Soil	3	18	1.47	370	0.225	<1	1.89	0.019	0.66	0.1	0.01	6.5	0.2	<0.05	11	<0.5
9199	Soil	8	23	0.57	265	0.116	1	1.37	0.016	0.25	<0.1	0.02	2.7	<0.1	<0.05	8	<0.5
9200	Soil	25	53	0.94	542	0.097	2	1.84	0.013	0.42	<0.1	0.02	5.7	0.2	<0.05	8	<0.5
9201	Soil	15	32	1.03	334	0.154	1	1.89	0.019	0.29	0.1	0.03	6.9	0.2	<0.05	7	<0.5
9202	Soil	16	35	0.88	416	0.126	2	1.80	0.015	0.21	0.1	0.04	5.6	0.2	<0.05	6	<0.5
9203	Soil	11	25	0.71	479	0.098	1	1.67	0.026	0.18	0.1	0.05	4.5	0.2	0.07	6	<0.5
9204	Soil	8	24	1.01	516	0.113	2	1.85	0.033	0.33	0.1	0.03	4.4	0.2	<0.05	6	<0.5
9205	Soil	6	29	0.57	340	0.075	1	1.48	0.030	0.16	<0.1	0.03	2.0	0.1	0.08	6	<0.5
9206	Soil	9	62	1.51	386	0.204	<1	2.32	0.010	0.74	0.1	<0.01	5.9	0.3	0.06	8	1.0
9207	Soil	21	41	0.76	456	0.096	2	1.74	0.024	0.21	0.1	0.11	4.9	0.2	0.06	5	0.9
9208	Soil	7	18	0.23	164	0.062	<1	0.51	0.023	0.12	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5
9209	Soil	18	20	0.26	318	0.033	2	0.92	0.031	0.07	<0.1	0.09	2.1	0.1	0.11	3	<0.5
9210	Soil	18	41	0.93	335	0.134	2	1.91	0.015	0.31	0.1	0.02	3.9	0.2	<0.05	7	<0.5
9211	Soil	7	37	0.72	120	0.128	1	1.56	0.016	0.16	0.1	0.04	4.2	0.1	<0.05	8	<0.5
9212	Soil	23	44	0.92	407	0.115	2	2.03	0.024	0.30	0.1	0.07	7.1	0.2	0.07	7	<0.5
9213	Soil	4	10	0.11	80	0.032	<1	0.35	0.023	0.06	<0.1	0.04	1.3	<0.1	<0.05	2	<0.5
9214	Soil	8	32	0.87	247	0.085	<1	1.97	0.073	0.27	0.1	0.02	4.9	0.1	0.41	7	3.1
9215	Soil	7	28	0.67	172	0.079	2	1.31	0.021	0.14	0.1	0.05	3.3	<0.1	0.13	5	0.7
9216	Soil	23	30	0.65	512	0.080	3	1.64	0.022	0.13	0.2	0.08	5.6	0.1	0.05	6	0.6
9217	Soil	6	15	0.21	90	0.044	1	0.68	0.018	0.07	<0.1	0.05	1.8	<0.1	<0.05	4	<0.5
9218	Soil	14	24	0.51	297	0.079	1	1.40	0.024	0.15	0.1	0.04	4.3	<0.1	0.06	6	<0.5
9219	Soil	13	34	0.60	298	0.095	2	1.65	0.014	0.08	0.1	0.03	3.5	0.1	<0.05	7	<0.5
9220	Soil	10	28	0.52	97	0.125	2	1.58	0.023	0.09	<0.1	0.03	3.3	0.1	<0.05	7	<0.5
9221	Soil	14	43	0.88	531	0.129	1	1.76	0.024	0.29	0.1	0.04	5.8	0.1	<0.05	7	<0.5
9222	Soil	16	36	0.92	483	0.087	1	1.68	0.022	0.16	<0.1	0.06	5.8	0.1	0.06	6	<0.5
9223	Soil	11	34	0.71	218	0.107	1	1.68	0.014	0.13	0.1	0.03	3.9	0.1	<0.05	6	<0.5
9224	Soil	14	45	1.10	338	0.139	2	1.78	0.026	0.31	0.1	0.03	3.7	0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9225	Soil																							
9226	Soil																							
9227	Soil																							
9228	Soil																							
9229	Soil																							
9230	Soil																							
9231	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9225	Soil	26	42	0.64	381	0.089	2	1.78	0.021	0.11	0.1	0.06	4.7	0.2	0.06	6	0.7
9226	Soil	12	63	0.89	228	0.123	2	1.93	0.019	0.19	<0.1	0.03	5.5	0.2	<0.05	7	<0.5
9227	Soil	13	32	0.83	307	0.121	1	1.78	0.025	0.19	0.2	0.03	4.0	0.2	<0.05	5	<0.5
9228	Soil	8	20	0.40	179	0.076	2	1.31	0.013	0.07	0.1	0.02	2.3	<0.1	<0.05	8	<0.5
9229	Soil	7	24	0.42	187	0.075	1	1.46	0.011	0.14	0.1	0.02	2.2	<0.1	<0.05	7	<0.5
9230	Soil	8	28	1.03	261	0.193	1	1.97	0.013	0.23	0.1	0.02	5.0	0.2	<0.05	8	<0.5
9231	Soil	22	30	0.73	450	0.069	2	1.81	0.016	0.12	0.1	0.11	5.9	0.1	<0.05	6	0.6
9232	Soil	12	31	0.63	463	0.067	2	1.88	0.019	0.06	0.1	0.05	4.3	0.1	<0.05	6	0.5
9233	Soil	12	32	0.71	474	0.071	2	2.04	0.022	0.07	<0.1	0.06	4.7	0.1	<0.05	6	<0.5
9234	Soil	9	32	0.66	430	0.068	2	1.69	0.021	0.07	<0.1	0.06	3.9	0.1	<0.05	5	0.5
9235	Soil	9	24	0.66	385	0.061	3	1.40	0.024	0.06	<0.1	0.06	2.9	<0.1	<0.05	4	<0.5
9236	Soil	11	33	0.81	434	0.081	2	1.77	0.025	0.11	<0.1	0.06	4.6	0.1	0.06	6	<0.5
9237	Soil	9	34	0.80	362	0.097	2	1.64	0.020	0.12	<0.1	0.04	4.3	0.1	<0.05	5	<0.5
9238	Soil	13	34	0.93	473	0.130	2	1.90	0.021	0.25	<0.1	0.04	5.4	0.1	<0.05	7	<0.5
9239	Soil	15	25	0.61	499	0.060	3	1.34	0.022	0.15	<0.1	0.07	4.0	0.1	0.07	4	1.0
9240	Soil	12	25	0.67	486	0.072	3	1.38	0.024	0.09	<0.1	0.04	4.1	0.1	<0.05	5	<0.5
9241	Soil	7	28	0.73	204	0.127	2	1.39	0.020	0.18	0.1	0.03	4.3	0.1	<0.05	6	<0.5
9242	Soil	15	23	0.56	483	0.078	3	1.29	0.023	0.15	<0.1	0.04	3.4	<0.1	0.10	4	<0.5
9243	Soil	15	26	0.67	391	0.092	2	1.62	0.020	0.12	0.1	0.04	4.0	0.1	<0.05	5	0.6
9244	Soil	13	22	0.91	419	0.134	<1	1.80	0.017	0.29	<0.1	0.03	4.4	0.1	<0.05	6	<0.5
9245	Soil	10	27	0.78	285	0.110	2	1.97	0.017	0.14	0.1	0.02	3.5	0.1	<0.05	7	<0.5
9246	Soil	7	14	0.71	222	0.152	<1	1.44	0.023	0.24	<0.1	0.02	4.1	0.1	<0.05	7	<0.5
9247	Soil	9	24	0.59	380	0.093	2	1.83	0.021	0.09	<0.1	0.04	4.0	<0.1	<0.05	6	<0.5
9248	Soil	7	27	0.75	223	0.118	1	1.85	0.019	0.14	0.2	0.02	3.5	<0.1	<0.05	6	<0.5
9249	Soil	7	28	0.57	271	0.105	2	1.90	0.016	0.10	0.1	0.03	3.9	<0.1	<0.05	7	<0.5
9250	Soil	9	27	0.58	274	0.091	2	1.70	0.017	0.11	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5
9251	Soil	8	26	0.66	231	0.120	2	1.83	0.018	0.10	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5
9252	Soil	8	23	0.47	248	0.087	2	1.60	0.021	0.12	0.1	0.02	3.9	<0.1	<0.05	6	<0.5
9253	Soil	9	28	0.65	212	0.110	2	1.86	0.017	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
9254	Soil	9	24	0.60	228	0.096	2	1.56	0.018	0.10	0.1	0.02	4.1	<0.1	<0.05	5	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
9255	Soil	0.9	53.7	6.8	48	0.1	17.3	10.7	272	2.79	5.4	1.1	3.0	2.2	23	<0.1	0.3	0.1	71	0.29	0.038
9256	Soil	0.6	23.6	7.0	50	0.1	14.9	8.7	276	2.62	5.1	0.5	4.3	1.9	25	<0.1	0.3	0.1	67	0.31	0.039
9257	Soil	1.3	17.4	7.8	39	0.1	10.0	6.7	281	2.72	6.9	0.4	1.3	1.8	16	<0.1	0.4	0.2	98	0.18	0.026



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9255	Soil	20	26	0.51	398	0.101	2	1.84	0.020	0.09	0.1	0.04	5.4	<0.1	<0.05	6	<0.5
9256	Soil	9	24	0.57	267	0.101	1	1.64	0.021	0.10	0.1	0.02	3.7	<0.1	<0.05	6	<0.5
9257	Soil	8	19	0.44	143	0.115	3	1.28	0.013	0.14	0.1	<0.01	3.4	<0.1	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
8378	Soil	0.8	34.2	6.4	60	0.1	14.5	13.7	307	3.10	6.2	0.7	1.1	2.3	36	<0.1	0.2	0.1	83	0.68	0.119
REP 8378	QC	0.8	35.1	6.7	61	0.1	15.9	13.9	326	3.24	6.3	0.7	1.9	2.1	33	<0.1	0.3	<0.1	85	0.69	0.123
8396	Soil	0.9	31.3	8.0	74	<0.1	24.9	12.5	402	3.04	8.2	0.5	4.5	3.2	30	0.2	0.6	0.1	65	0.51	0.100
REP 8396	QC	1.0	31.8	8.0	72	<0.1	24.5	12.4	396	2.97	7.5	0.6	9.6	3.5	31	0.2	0.6	0.1	67	0.51	0.091
9010	Soil	1.2	23.2	9.4	55	<0.1	13.1	7.8	239	2.90	6.0	0.3	1.9	1.1	12	0.2	0.3	0.1	83	0.14	0.035
REP 9010	QC	1.2	24.7	9.3	59	<0.1	13.2	8.6	242	2.91	6.0	0.4	2.8	1.1	13	0.1	0.3	0.1	83	0.14	0.036
9017	Soil	1.0	27.8	8.5	50	<0.1	24.0	13.9	388	2.97	10.0	0.8	5.2	3.4	17	<0.1	0.7	0.1	67	0.17	0.029
REP 9017	QC	1.1	30.0	7.9	53	<0.1	24.5	13.8	408	3.05	10.1	0.8	1.8	3.6	17	<0.1	0.7	0.1	67	0.18	0.030
9036	Soil	1.2	14.4	10.1	47	<0.1	16.3	7.9	288	3.11	10.9	0.6	1.8	2.4	14	0.1	0.6	0.2	70	0.15	0.034
REP 9036	QC	1.3	15.2	10.3	46	<0.1	16.7	8.1	284	3.14	10.9	0.6	2.2	2.4	13	0.1	0.7	0.2	67	0.14	0.035
9059	Soil	0.9	25.7	6.2	36	0.2	16.0	7.8	261	2.32	5.3	0.4	2.6	1.3	23	<0.1	0.3	0.2	59	0.32	0.050
REP 9059	QC	0.8	24.9	6.5	37	0.2	16.2	7.6	265	2.33	5.6	0.4	2.0	1.3	23	<0.1	0.3	0.2	59	0.32	0.052
9082	Soil	0.6	31.4	6.0	93	<0.1	14.3	18.4	537	3.80	3.2	0.6	1.8	2.1	35	0.1	0.1	<0.1	97	0.68	0.116
REP 9082	QC	0.8	32.0	5.9	90	<0.1	14.0	18.3	543	3.92	3.4	0.5	<0.5	2.1	33	0.2	0.1	<0.1	98	0.69	0.121
9094	Soil	1.5	25.8	10.4	44	0.1	23.4	13.9	540	2.12	15.3	0.9	8.1	1.8	28	0.1	10.1	0.1	50	0.46	0.055
REP 9094	QC	1.5	24.8	10.4	43	0.1	24.2	14.4	551	2.10	15.6	0.8	7.0	1.8	29	<0.1	10.2	0.1	50	0.45	0.056
9118	Soil	2.3	48.4	15.0	127	0.1	34.5	15.6	585	3.74	118.2	0.7	1.8	2.9	20	0.3	3.2	0.1	82	0.38	0.092
REP 9118	QC	2.3	49.0	15.3	126	0.1	33.5	15.8	579	3.72	118.4	0.7	2.0	2.9	20	0.4	3.4	0.1	81	0.38	0.095
9127	Soil	1.0	9.7	10.4	34	<0.1	11.2	4.6	135	3.04	9.8	0.6	1.8	1.9	12	<0.1	0.4	0.2	80	0.11	0.031
REP 9127	QC	1.0	9.2	10.8	35	<0.1	11.4	4.6	135	3.19	9.7	0.5	3.0	2.0	13	0.1	0.5	0.2	87	0.11	0.030
9141	Soil	0.9	51.4	5.5	73	0.1	11.3	13.9	638	4.11	4.0	0.5	1.3	1.6	12	0.1	0.2	0.1	139	0.25	0.053
REP 9141	QC	1.0	49.7	5.6	77	<0.1	12.0	13.5	609	4.16	4.2	0.5	1.1	1.5	13	<0.1	0.2	0.1	137	0.26	0.049
9168	Soil	1.1	36.3	11.6	61	0.2	14.5	10.7	344	2.61	3.8	0.8	9.9	1.7	19	0.2	0.2	0.1	57	0.25	0.051
REP 9168	QC	1.0	34.4	11.5	62	0.2	14.4	10.4	347	2.53	3.6	0.8	3.8	1.8	19	0.2	0.2	0.1	57	0.25	0.049
9185	Soil	1.0	30.8	8.8	54	<0.1	21.3	12.6	335	3.62	9.4	0.7	2.7	3.0	20	0.1	0.6	0.2	83	0.23	0.044
REP 9185	QC	1.1	30.5	9.2	55	<0.1	21.1	12.3	330	3.51	9.4	0.8	3.1	3.1	20	<0.1	0.7	0.2	85	0.24	0.045
9195	Soil	1.2	22.9	9.5	90	<0.1	17.2	14.4	396	4.62	9.2	0.4	0.5	1.8	18	0.1	0.3	0.1	101	0.19	0.033
REP 9195	QC	1.2	21.4	9.7	91	<0.1	17.9	13.5	417	4.70	9.0	0.4	2.3	1.9	19	0.1	0.4	0.1	110	0.18	0.034



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
8378	Soil	9	25	0.97	306	0.140	1	1.86	0.025	0.15	<0.1	0.02	3.7	0.1	<0.05	6	<0.5
REP 8378	QC	9	26	0.95	298	0.142	2	1.85	0.022	0.15	0.2	0.03	3.8	0.1	<0.05	6	<0.5
8396	Soil	12	33	0.69	167	0.100	3	1.29	0.036	0.15	0.3	0.03	3.9	<0.1	<0.05	4	<0.5
REP 8396	QC	12	31	0.67	173	0.101	2	1.30	0.031	0.16	0.3	0.03	4.4	0.1	<0.05	4	<0.5
9010	Soil	6	26	0.59	139	0.099	1	1.61	0.011	0.05	0.1	0.01	2.9	<0.1	<0.05	7	0.5
REP 9010	QC	6	26	0.62	146	0.100	<1	1.71	0.012	0.05	0.1	0.01	2.8	<0.1	<0.05	8	<0.5
9017	Soil	12	36	0.59	213	0.080	1	2.04	0.010	0.06	0.1	0.03	4.6	0.1	<0.05	6	0.7
REP 9017	QC	13	37	0.57	220	0.082	2	2.25	0.011	0.08	0.1	0.03	4.5	0.1	<0.05	6	0.6
9036	Soil	12	32	0.43	158	0.069	2	1.81	0.009	0.05	0.1	0.04	3.3	0.1	<0.05	7	<0.5
REP 9036	QC	11	31	0.42	157	0.064	1	1.79	0.008	0.04	0.1	0.03	3.2	0.1	<0.05	7	<0.5
9059	Soil	7	26	0.46	231	0.076	<1	1.70	0.016	0.06	0.1	0.04	3.1	<0.1	<0.05	6	<0.5
REP 9059	QC	7	27	0.46	235	0.076	1	1.69	0.016	0.06	0.2	0.03	3.2	<0.1	<0.05	6	<0.5
9082	Soil	9	27	1.68	357	0.235	<1	2.45	0.020	0.54	0.1	0.02	3.0	0.2	<0.05	6	<0.5
REP 9082	QC	9	27	1.73	368	0.234	<1	2.50	0.020	0.54	0.1	0.02	3.0	0.2	<0.05	6	0.6
9094	Soil	11	31	0.44	408	0.039	2	1.40	0.013	0.05	0.2	0.20	3.2	0.4	<0.05	5	<0.5
REP 9094	QC	12	32	0.45	421	0.041	1	1.45	0.014	0.05	0.2	0.21	3.2	0.4	<0.05	5	<0.5
9118	Soil	13	36	0.70	276	0.093	2	1.48	0.010	0.21	<0.1	0.03	5.6	0.2	<0.05	5	<0.5
REP 9118	QC	13	34	0.73	282	0.093	2	1.50	0.010	0.21	<0.1	0.02	5.6	0.2	<0.05	5	<0.5
9127	Soil	9	28	0.36	120	0.076	1	1.60	0.011	0.04	0.1	0.01	2.0	<0.1	<0.05	7	<0.5
REP 9127	QC	9	30	0.38	115	0.079	2	1.50	0.010	0.05	<0.1	0.01	2.2	0.1	<0.05	7	<0.5
9141	Soil	6	21	1.17	333	0.234	<1	2.20	0.018	0.56	0.1	0.02	5.6	0.2	<0.05	9	<0.5
REP 9141	QC	6	20	1.26	337	0.221	<1	2.11	0.018	0.62	0.1	0.02	5.7	0.2	<0.05	9	<0.5
9168	Soil	11	26	0.58	215	0.084	1	1.50	0.020	0.08	0.1	0.06	5.1	0.1	<0.05	6	0.7
REP 9168	QC	11	25	0.61	216	0.076	1	1.51	0.018	0.08	<0.1	0.05	4.9	<0.1	0.07	6	0.7
9185	Soil	11	30	0.66	232	0.108	2	1.93	0.014	0.13	0.1	0.03	4.3	<0.1	<0.05	7	<0.5
REP 9185	QC	11	31	0.68	224	0.111	2	2.03	0.015	0.13	0.1	0.02	4.4	0.1	<0.05	7	<0.5
9195	Soil	5	34	1.36	204	0.213	1	2.56	0.008	0.56	0.1	<0.01	3.2	0.2	<0.05	10	<0.5
REP 9195	QC	5	33	1.43	197	0.203	<1	2.46	0.008	0.60	<0.1	0.01	3.1	0.2	<0.05	10	<0.5



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Project: Ballarat

Report Date: August 14, 2009

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QUALITY CONTROL REPORT

VAN09003423.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
9215	Soil	2.7	24.5	9.2	66	0.2	13.6	8.1	264	3.06	5.4	0.7	5.2	0.9	24	0.2	0.3	0.2	99	0.31	0.098
REP 9215	QC	2.7	25.1	8.8	68	0.2	13.3	7.9	260	2.92	5.3	0.7	9.2	0.8	23	0.2	0.3	0.2	96	0.30	0.097
9235	Soil	0.9	27.1	8.0	46	0.1	16.1	8.5	490	2.08	4.5	0.9	1.3	0.9	60	0.3	0.5	0.1	53	1.49	0.071
REP 9235	QC	0.7	26.6	7.5	46	0.1	15.3	8.8	489	2.04	4.4	0.9	0.9	0.9	60	0.1	0.5	0.2	50	1.47	0.069
9255	Soil	0.9	53.7	6.8	48	0.1	17.3	10.7	272	2.79	5.4	1.1	3.0	2.2	23	<0.1	0.3	0.1	71	0.29	0.038
REP 9255	QC	0.9	52.5	7.3	45	0.1	16.3	10.5	279	2.81	5.3	1.0	2.5	2.2	24	<0.1	0.3	0.1	74	0.28	0.040
Reference Materials																					
STD DS7	Standard	21.0	109.1	73.6	396	0.9	56.3	9.8	615	2.39	48.3	5.0	68.3	4.3	77	6.2	6.1	4.5	90	0.99	0.072
STD DS7	Standard	19.6	107.0	68.0	388	0.8	56.2	9.1	599	2.26	48.6	4.9	71.2	4.1	68	5.7	5.8	4.4	80	0.87	0.074
STD DS7	Standard	20.5	111.6	62.3	388	0.8	54.9	9.1	615	2.38	50.3	4.5	61.8	3.9	72	6.1	5.8	4.2	84	0.92	0.074
STD DS7	Standard	21.6	108.1	62.2	393	0.8	55.9	9.7	630	2.43	50.8	4.6	59.4	4.1	77	6.5	5.7	4.4	85	0.97	0.080
STD DS7	Standard	20.3	100.6	63.7	378	0.9	56.6	9.4	598	2.31	48.3	4.4	58.0	4.2	68	5.6	5.3	4.1	84	0.93	0.075
STD DS7	Standard	21.1	105.4	71.7	397	0.9	55.4	9.4	634	2.49	53.9	5.3	62.8	4.9	80	6.6	6.3	4.9	83	0.96	0.077
STD DS7	Standard	20.4	107.1	66.6	393	0.8	56.0	9.9	628	2.34	51.9	4.9	81.2	4.5	76	6.0	5.7	4.4	82	0.95	0.071
STD DS7	Standard	21.5	115.6	75.3	396	0.8	58.7	9.5	624	2.43	50.5	5.5	67.5	4.7	83	6.1	6.5	5.2	85	0.97	0.079
STD DS7	Standard	20.8	109.6	74.6	393	0.8	57.0	9.4	618	2.42	48.2	5.4	73.8	4.7	77	6.3	6.4	5.2	89	0.95	0.073
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: Ballarat
Report Date: August 14, 2009

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN09003423.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9215	Soil	7	28	0.67	172	0.079	2	1.31	0.021	0.14	0.1	0.05	3.3	<0.1	0.13	5	0.7
REP 9215	QC	8	28	0.64	175	0.077	2	1.30	0.023	0.14	0.2	0.06	3.3	<0.1	0.11	5	0.8
9235	Soil	9	24	0.66	385	0.061	3	1.40	0.024	0.06	<0.1	0.06	2.9	<0.1	<0.05	4	<0.5
REP 9235	QC	9	23	0.62	384	0.058	3	1.28	0.021	0.06	<0.1	0.06	2.9	0.1	<0.05	4	0.7
9255	Soil	20	26	0.51	398	0.101	2	1.84	0.020	0.09	0.1	0.04	5.4	<0.1	<0.05	6	<0.5
REP 9255	QC	20	27	0.53	400	0.107	3	1.91	0.019	0.09	0.1	0.03	5.6	<0.1	<0.05	6	<0.5
Reference Materials																	
STD DS7	Standard	13	213	1.01	405	0.137	35	1.07	0.099	0.47	4.1	0.19	2.7	4.5	0.22	5	3.2
STD DS7	Standard	12	194	1.01	386	0.118	39	0.99	0.090	0.43	4.1	0.20	2.4	3.9	0.23	5	3.9
STD DS7	Standard	12	201	1.01	392	0.129	39	1.02	0.104	0.44	3.6	0.18	2.8	4.2	0.23	5	3.7
STD DS7	Standard	13	213	1.04	402	0.140	41	1.06	0.102	0.44	4.0	0.19	3.0	4.1	0.19	5	3.8
STD DS7	Standard	13	216	0.99	382	0.117	38	0.99	0.099	0.42	3.6	0.20	2.3	3.9	0.16	5	2.7
STD DS7	Standard	14	220	1.04	418	0.118	42	0.99	0.093	0.49	4.0	0.19	2.7	4.2	0.17	5	3.3
STD DS7	Standard	13	205	0.94	388	0.118	39	0.98	0.099	0.44	3.8	0.19	2.4	4.1	0.16	5	3.4
STD DS7	Standard	14	201	1.05	410	0.129	39	0.99	0.102	0.46	4.1	0.20	2.7	4.2	0.21	5	3.9
STD DS7	Standard	14	206	1.02	395	0.125	41	1.00	0.096	0.46	3.8	0.20	2.6	4.3	0.14	5	2.8
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Submitted By: Mark Fekete
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 13, 2009
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN09003424.1

CLIENT JOB INFORMATION

Project: Ballarat
Shipment ID: 20090731
P.O. Number
Number of Samples: 121

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Hinterland Metals Inc.
203 - 680 Third Ave.
Val d'Or QC J9P 1S5
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	116	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	116	Dry at 60C			VAN
1DX15	116	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Ballarat
Report Date: August 13, 2009

Page: 2 of 6 **Part** 1

CERTIFICATE OF ANALYSIS

VAN09003424.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9258	Soil																							
9259	Soil																							
9260	Soil																							
9261	Soil																							
9262	Soil																							
9263	Soil																							
9264	Soil																							
9265	Soil																							
9266	Soil																							
9267	Soil																							
9268	Soil																							
9269	Soil																							
9270	Soil																							
9271	Soil																							
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9278	Soil																							
9279	Soil																							
9280	Soil																							
9281	Soil																							
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9284	Soil																							
9285	Soil																							
9286	Soil																							
9287	Soil																							



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Project: Ballarat
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Page: 2 of 6 Part 2

CERTIFICATE OF ANALYSIS

VAN09003424.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9258	Soil	6	20	0.57	271	0.110	2	1.44	0.014	0.16	0.1	0.02	3.1	<0.1	<0.05	6	<0.5
9259	Soil	6	16	0.49	411	0.084	2	1.29	0.015	0.17	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5
9260	Soil	14	18	0.65	932	0.076	3	1.55	0.018	0.25	0.1	0.07	7.0	0.1	0.11	4	0.6
9261	Soil	17	31	0.79	519	0.115	2	1.70	0.017	0.20	0.1	0.03	7.2	0.1	<0.05	5	<0.5
9262	Soil	8	24	0.41	336	0.073	1	1.33	0.016	0.05	0.1	0.02	3.3	0.1	<0.05	5	<0.5
9263	Soil	11	26	0.50	317	0.067	1	1.45	0.017	0.07	0.2	0.03	3.4	<0.1	<0.05	5	<0.5
9264	Soil	15	29	0.57	671	0.050	1	1.44	0.017	0.11	0.1	0.03	6.0	<0.1	<0.05	4	<0.5
9265	Soil	14	27	0.54	395	0.075	1	1.89	0.023	0.09	0.1	0.05	5.8	<0.1	<0.05	6	<0.5
9266	Soil	8	24	0.51	187	0.091	1	1.55	0.019	0.09	0.1	0.01	3.9	<0.1	<0.05	5	<0.5
9267	Soil	11	24	0.50	239	0.088	<1	1.53	0.020	0.07	0.1	0.02	4.0	<0.1	<0.05	5	<0.5
9268	Soil	11	27	0.51	209	0.090	<1	1.51	0.016	0.11	0.2	0.01	3.7	<0.1	<0.05	5	<0.5
9269	Soil	12	24	0.40	291	0.075	2	1.42	0.017	0.09	0.1	0.03	3.7	<0.1	<0.05	5	<0.5
9270	Soil	12	49	0.57	293	0.088	1	1.89	0.016	0.09	0.1	0.04	4.8	<0.1	<0.05	7	<0.5
9271	Soil	13	26	0.46	246	0.092	2	1.65	0.016	0.09	0.1	0.01	4.5	<0.1	<0.05	6	<0.5
9272	Soil	21	27	0.36	481	0.072	<1	2.08	0.019	0.11	0.1	0.06	5.0	<0.1	0.06	7	0.6
9273	Soil	12	26	0.45	265	0.091	<1	1.69	0.017	0.11	0.1	0.02	3.8	<0.1	<0.05	6	<0.5
9274	Soil	8	19	0.26	314	0.067	<1	1.14	0.018	0.07	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5
9275	Soil	10	19	0.31	386	0.076	<1	1.29	0.019	0.08	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5
9276	Soil	11	39	0.64	314	0.089	1	2.65	0.018	0.08	0.1	0.02	5.1	0.1	<0.05	9	<0.5
9277	Soil	9	29	0.48	253	0.087	<1	2.06	0.021	0.08	0.1	0.02	4.1	0.1	<0.05	8	<0.5
9278	Soil	9	19	0.32	208	0.073	<1	1.13	0.017	0.09	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5
9279	Soil	10	29	0.56	241	0.086	<1	1.66	0.020	0.09	0.1	0.03	4.1	<0.1	0.05	6	<0.5
9280	Soil	9	34	0.60	212	0.085	<1	1.67	0.023	0.08	0.1	0.04	4.6	<0.1	0.05	5	<0.5
9281	Soil	11	26	0.35	261	0.049	<1	1.33	0.028	0.07	0.1	0.12	4.1	<0.1	0.16	4	<0.5
9282	Soil	14	36	0.72	328	0.096	<1	2.16	0.025	0.11	0.1	0.15	6.8	0.1	0.09	7	1.2
9283	Soil	7	23	0.44	137	0.087	<1	1.28	0.018	0.08	0.1	0.02	3.1	<0.1	<0.05	5	<0.5
9284	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9285	Soil	15	25	0.34	482	0.052	2	1.64	0.020	0.08	0.1	0.11	3.6	<0.1	0.08	6	<0.5
9286	Soil	11	26	0.52	292	0.102	<1	1.70	0.017	0.10	0.1	0.02	3.5	<0.1	<0.05	7	<0.5
9287	Soil	16	24	0.43	508	0.077	2	1.65	0.026	0.16	0.1	0.04	4.0	<0.1	0.06	6	<0.5



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Report Date: August 13, 2009

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9288	Soil	1.5	22.8	8.3	55	0.1	14.7	9.3	285	3.17	7.1	0.7	3.9	1.9	19	0.2	0.3	0.2	67	0.22	0.035
9289	Soil	0.9	23.7	7.3	44	0.2	13.3	8.0	256	2.38	5.0	0.6	2.9	2.0	21	0.2	0.3	0.2	56	0.23	0.033
9290	Soil	1.1	31.8	7.5	59	0.3	15.8	17.2	647	2.70	5.6	0.9	6.9	0.8	33	0.3	0.6	0.2	60	0.42	0.108
9291	Soil	1.0	46.3	7.9	63	0.3	19.5	23.9	896	3.50	6.4	0.7	5.3	1.0	43	0.2	0.4	0.1	93	0.76	0.080
9292	Soil	1.0	41.4	8.8	62	0.2	17.0	19.6	547	3.02	6.0	0.6	2.0	1.2	26	0.3	0.3	0.2	76	0.30	0.069
9293	Soil	1.6	55.5	9.9	77	0.4	22.9	23.3	898	4.34	9.4	1.0	6.2	1.0	34	<0.1	0.5	0.2	110	0.41	0.098
9294	Soil	1.9	39.7	12.0	72	0.4	15.4	63.9	2169	3.29	6.7	0.8	2.7	0.5	45	0.6	0.3	0.2	78	0.50	0.104
9295	Soil	0.8	35.0	6.2	79	0.2	14.7	16.6	868	3.02	5.5	0.7	1.8	1.5	20	0.2	0.3	0.1	76	0.26	0.048
9296	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9297	Soil	1.2	28.4	6.7	53	0.1	12.3	9.3	279	2.88	6.1	0.5	0.7	1.0	22	0.2	0.3	0.1	83	0.28	0.025
9298	Soil	1.1	26.1	9.0	66	<0.1	16.6	11.8	417	3.18	12.2	0.5	4.3	2.6	14	0.1	0.4	0.2	67	0.17	0.029
9299	Soil	1.3	28.3	8.1	70	0.3	17.7	10.0	277	2.81	19.3	1.1	3.3	1.9	18	0.2	0.4	0.2	59	0.22	0.042
9300	Soil	1.4	35.7	8.5	89	0.3	18.0	11.3	388	3.19	19.6	0.8	2.6	1.3	16	0.3	0.3	0.1	65	0.19	0.046
9301	Soil	1.2	36.4	9.2	81	0.2	18.5	11.7	387	3.19	9.3	0.9	6.6	2.4	19	0.2	0.3	0.2	63	0.25	0.050
9302	Soil	1.6	19.2	12.3	60	0.1	10.1	8.4	478	2.25	8.4	0.4	<0.5	0.7	16	0.4	0.3	0.1	59	0.18	0.036
9303	Soil	1.5	36.7	10.4	84	0.2	19.6	13.9	711	3.33	13.9	0.8	6.9	1.9	19	0.2	0.4	0.2	66	0.24	0.045
9304	Soil	1.6	29.0	14.2	68	0.1	19.3	11.0	429	3.40	14.3	0.7	9.2	2.0	19	0.2	0.5	0.2	71	0.24	0.045
9305	Soil	2.0	22.5	11.0	71	<0.1	15.3	8.6	344	3.13	15.7	0.7	2.2	1.4	18	0.2	0.3	0.2	67	0.24	0.039
9306	Soil	1.0	32.4	7.6	80	0.1	18.1	12.2	401	3.38	8.2	0.6	3.9	2.6	18	<0.1	0.3	0.1	70	0.28	0.060
9307	Soil	1.3	20.4	8.7	65	<0.1	16.0	9.8	325	3.53	10.3	0.6	2.2	2.5	14	0.1	0.3	0.2	78	0.18	0.042
9308	Soil	0.8	36.7	8.8	60	<0.1	20.9	11.1	244	3.10	8.2	0.7	2.4	2.8	16	0.2	0.4	0.2	70	0.24	0.056
9309	Soil	0.8	31.8	6.7	64	<0.1	18.4	10.1	285	3.06	8.2	0.5	24.7	1.8	15	0.2	0.3	0.1	67	0.21	0.050
9310	Soil	1.1	42.5	8.0	60	<0.1	16.3	10.0	267	3.29	8.8	0.5	43.2	1.0	15	0.1	0.3	0.1	79	0.20	0.050
9311	Soil	0.9	27.9	6.9	54	<0.1	16.3	9.8	357	3.34	7.0	0.5	2.7	1.0	15	0.1	0.3	0.1	79	0.19	0.055
9312	Soil	0.8	20.0	5.2	22	0.2	7.3	3.6	115	1.39	3.6	0.6	4.7	<0.1	12	0.1	0.2	0.1	34	0.11	0.086
9313	Soil	1.4	39.4	9.3	59	0.1	16.2	8.1	341	3.18	8.6	0.7	3.3	0.5	13	0.1	0.4	0.2	81	0.14	0.058
9314	Soil	1.5	38.5	8.6	62	0.1	15.7	12.5	690	3.69	8.9	0.6	2.3	1.0	17	0.2	0.4	0.2	91	0.20	0.069
9315	Soil	1.0	33.4	6.7	57	0.1	15.8	12.2	613	2.95	6.5	0.5	2.4	0.5	17	0.2	0.3	0.1	72	0.20	0.058
9316	Soil	0.9	39.8	6.2	65	0.1	15.8	10.8	505	3.00	6.6	0.6	1.2	0.7	15	0.2	0.2	0.1	77	0.21	0.048
9317	Soil	0.5	22.4	5.0	47	<0.1	10.9	10.0	406	2.31	4.7	0.5	5.6	1.2	13	0.1	0.2	<0.1	58	0.31	0.065



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9288	Soil	11	27	0.52	245	0.100	<1	2.49	0.018	0.10	<0.1	0.05	4.5	<0.1	<0.05	8	<0.5
9289	Soil	9	25	0.42	221	0.094	<1	1.70	0.016	0.07	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
9290	Soil	11	27	0.51	472	0.069	1	1.82	0.030	0.10	0.1	0.09	5.6	0.1	0.11	6	0.8
9291	Soil	11	29	0.81	679	0.101	<1	2.33	0.028	0.13	0.1	0.08	7.0	0.1	0.08	7	0.6
9292	Soil	11	28	0.59	371	0.093	1	2.22	0.024	0.10	0.1	0.05	5.3	<0.1	<0.05	7	<0.5
9293	Soil	10	43	0.79	577	0.090	1	3.10	0.025	0.10	0.1	0.09	8.2	0.2	0.09	10	0.6
9294	Soil	10	25	0.48	583	0.053	<1	1.63	0.020	0.07	<0.1	0.10	4.5	0.1	0.12	6	<0.5
9295	Soil	11	22	0.63	371	0.090	1	1.68	0.016	0.11	0.1	0.03	4.0	<0.1	<0.05	6	0.7
9296	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9297	Soil	7	22	0.77	383	0.129	1	1.57	0.018	0.13	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5
9298	Soil	10	26	0.64	287	0.088	<1	1.78	0.010	0.11	0.1	0.02	3.1	0.1	<0.05	6	<0.5
9299	Soil	14	27	0.56	399	0.058	<1	1.78	0.011	0.09	<0.1	0.05	3.4	<0.1	<0.05	6	0.6
9300	Soil	9	26	0.66	318	0.085	2	1.70	0.013	0.22	<0.1	0.04	3.0	0.1	<0.05	6	0.5
9301	Soil	12	27	0.71	360	0.078	1	1.99	0.010	0.09	0.1	0.02	3.6	0.1	<0.05	6	<0.5
9302	Soil	7	18	0.41	295	0.075	1	1.21	0.014	0.09	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5
9303	Soil	11	30	0.61	611	0.071	3	1.94	0.012	0.09	0.1	0.04	3.8	0.1	<0.05	6	<0.5
9304	Soil	10	31	0.58	249	0.070	<1	1.86	0.010	0.09	<0.1	0.03	3.4	<0.1	<0.05	7	<0.5
9305	Soil	9	24	0.56	199	0.073	2	1.54	0.010	0.11	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5
9306	Soil	10	29	0.71	231	0.099	2	2.03	0.014	0.14	0.1	0.02	3.9	0.1	<0.05	6	<0.5
9307	Soil	12	27	0.62	175	0.112	1	1.84	0.011	0.09	0.1	0.02	3.1	0.1	<0.05	7	<0.5
9308	Soil	11	30	0.67	179	0.091	2	2.17	0.010	0.10	0.1	0.03	3.7	0.2	<0.05	6	0.5
9309	Soil	9	28	0.63	161	0.078	<1	1.95	0.011	0.09	0.2	0.03	3.0	0.1	<0.05	6	<0.5
9310	Soil	8	33	0.67	154	0.083	1	2.00	0.017	0.10	<0.1	0.03	3.5	<0.1	<0.05	7	0.5
9311	Soil	7	34	0.63	128	0.074	1	1.94	0.014	0.07	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5
9312	Soil	5	15	0.17	112	0.026	<1	0.85	0.018	0.04	<0.1	0.05	0.8	<0.1	<0.05	4	0.5
9313	Soil	7	31	0.50	160	0.057	2	1.79	0.014	0.06	<0.1	0.05	3.0	<0.1	<0.05	8	0.5
9314	Soil	7	32	0.57	167	0.075	1	1.89	0.014	0.07	0.1	0.03	3.5	<0.1	<0.05	8	<0.5
9315	Soil	7	28	0.52	180	0.060	2	1.69	0.015	0.05	<0.1	0.04	3.1	<0.1	<0.05	6	<0.5
9316	Soil	7	27	0.63	176	0.072	<1	1.82	0.023	0.07	<0.1	0.03	3.7	<0.1	<0.05	7	<0.5
9317	Soil	7	19	0.44	154	0.060	2	1.31	0.024	0.05	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9318	Soil																							
9319	Soil																							
9320	Soil																							
9321	Soil																							
9322	Soil																							
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9318	Soil	6	18	0.46	123	0.074	<1	1.35	0.017	0.13	0.1	0.02	3.0	<0.1	<0.05	5	<0.5
9319	Soil	10	23	0.49	179	0.073	<1	1.46	0.013	0.11	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5
9320	Soil	8	21	0.33	129	0.055	<1	1.35	0.012	0.05	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5
9321	Soil	8	16	0.50	224	0.072	<1	1.69	0.010	0.20	0.1	0.04	3.3	0.1	<0.05	6	0.5
9322	Soil	4	17	0.19	96	0.022	1	1.05	0.019	0.04	<0.1	0.03	0.8	<0.1	<0.05	4	<0.5
9323	Soil	6	21	0.29	119	0.044	<1	1.15	0.014	0.05	<0.1	0.03	1.5	<0.1	<0.05	5	0.5
9324	Soil	9	31	0.59	151	0.086	1	1.71	0.012	0.06	0.1	0.02	3.3	<0.1	<0.05	5	<0.5
9325	Soil	14	32	0.35	246	0.072	1	2.18	0.016	0.08	0.1	0.01	5.6	0.1	<0.05	8	0.6
9326	Soil	7	21	0.33	123	0.048	1	1.35	0.014	0.05	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5
9327	Soil	7	16	0.12	145	0.025	<1	0.91	0.016	0.04	<0.1	0.03	0.8	<0.1	<0.05	4	<0.5
9328	Soil	15	19	0.22	166	0.041	<1	1.23	0.018	0.05	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5
9329	Soil	5	14	0.19	125	0.032	<1	0.74	0.014	0.05	<0.1	0.04	0.9	<0.1	<0.05	4	<0.5
9330	Soil	4	11	0.09	94	0.025	<1	0.54	0.018	0.04	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5
9331	Soil	10	30	0.49	197	0.061	<1	1.73	0.013	0.06	0.2	0.02	2.6	<0.1	<0.05	6	<0.5
9332	Soil	9	25	0.33	185	0.050	2	1.39	0.015	0.04	0.1	0.02	2.0	<0.1	<0.05	5	<0.5
9333	Soil	7	39	0.61	169	0.091	1	2.02	0.012	0.04	<0.1	0.01	3.1	<0.1	<0.05	7	<0.5
9334	Soil	7	34	0.57	143	0.101	<1	1.99	0.011	0.05	0.1	0.02	3.0	<0.1	<0.05	7	<0.5
9335	Soil	7	36	0.58	176	0.099	2	2.06	0.011	0.04	0.1	<0.01	3.1	<0.1	<0.05	7	<0.5
9336	Soil	9	33	0.58	168	0.078	1	1.81	0.012	0.04	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5
9337	Soil	6	15	0.23	122	0.064	1	0.85	0.012	0.03	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5
9338	Soil	8	18	0.23	91	0.075	1	0.94	0.012	0.04	<0.1	<0.01	1.6	<0.1	<0.05	7	<0.5
9339	Soil	4	11	0.10	186	0.027	<1	0.54	0.017	0.04	<0.1	0.03	0.7	<0.1	<0.05	3	<0.5
9340	Soil	5	24	0.35	144	0.079	1	1.44	0.015	0.04	<0.1	<0.01	2.3	<0.1	<0.05	7	<0.5
9341	Soil	8	18	0.25	190	0.046	<1	1.07	0.014	0.04	0.1	0.01	1.6	<0.1	<0.05	5	<0.5
9342	Soil	9	27	0.40	165	0.092	1	1.52	0.010	0.04	0.1	0.03	3.1	<0.1	<0.05	6	<0.5
9343	Soil	8	32	0.52	200	0.087	1	1.94	0.012	0.04	0.1	0.03	3.3	<0.1	<0.05	6	<0.5
9344	Soil	7	24	0.26	123	0.079	<1	1.13	0.010	0.04	0.1	<0.01	1.7	<0.1	<0.05	7	<0.5
9345	Soil	6	24	0.71	132	0.142	1	2.02	0.014	0.12	0.1	<0.01	4.8	<0.1	<0.05	7	<0.5
9346	Soil	8	24	0.24	140	0.042	<1	1.46	0.008	0.03	<0.1	<0.01	1.9	0.1	<0.05	7	<0.5
9347	Soil	8	26	0.24	183	0.061	<1	1.39	0.011	0.03	<0.1	0.01	1.8	0.1	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
9348	Soil	0.9	22.0	7.4	43	0.1	16.5	13.1	990	2.66	6.1	0.3	1.2	1.0	28	0.1	0.4	0.2	73	0.36	0.052
9349	Soil	1.2	14.1	7.6	46	<0.1	14.5	14.7	960	2.78	4.2	0.2	0.8	0.8	18	0.1	0.5	0.1	77	0.25	0.032
9350	Soil	1.1	16.4	8.3	45	<0.1	19.5	9.1	223	3.17	9.2	0.4	0.9	1.8	21	<0.1	0.4	0.1	87	0.24	0.021
9351	Soil	1.4	11.9	5.8	32	<0.1	6.8	4.5	237	1.65	3.0	0.2	1.2	0.2	12	0.4	0.2	0.1	49	0.16	0.033
9352	Soil	1.4	21.6	12.8	64	<0.1	18.9	14.1	861	3.29	6.6	0.6	2.1	3.5	14	0.2	0.4	0.2	71	0.17	0.038
9353	Soil	1.0	38.6	12.3	96	0.2	15.2	19.4	955	3.07	3.6	1.1	3.9	1.8	32	0.4	0.2	0.1	79	0.54	0.079
9354	Soil	0.9	46.0	6.0	56	0.1	15.2	17.0	317	2.88	4.5	0.4	2.2	1.6	22	<0.1	0.2	<0.1	87	0.44	0.057
9355	Soil	0.7	37.4	8.9	78	0.2	14.8	12.4	285	2.50	3.1	0.9	3.1	1.8	22	0.2	0.2	0.1	53	0.35	0.079
9356	Soil	1.3	39.0	16.0	83	0.3	16.4	16.1	477	2.83	4.4	0.9	16.3	2.4	23	0.2	0.2	0.2	71	0.36	0.064
9357	Soil	1.5	26.9	5.0	48	0.1	13.8	11.0	399	2.77	5.5	0.5	1.1	1.8	26	<0.1	0.3	<0.1	82	0.67	0.057
9358	Soil	2.4	42.4	7.4	103	0.3	24.8	11.0	641	2.61	30.2	1.6	2.0	1.5	69	1.3	0.8	0.1	58	1.53	0.072
9359	Soil	0.9	61.9	6.3	85	0.3	17.5	13.7	710	3.51	7.6	1.3	2.2	4.1	39	0.2	0.4	0.1	83	1.06	0.080
9360	Soil	0.7	43.4	4.8	69	0.1	17.1	15.4	560	3.82	4.8	0.6	2.0	1.5	19	0.2	0.3	<0.1	98	0.39	0.064
9361	Soil	1.1	48.5	4.2	91	0.1	14.8	12.9	731	3.04	7.3	0.9	1.9	0.9	65	0.5	0.5	<0.1	76	1.75	0.075
9362	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9363	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9364	Soil	1.0	30.8	7.2	67	<0.1	16.3	12.0	642	2.39	4.4	0.9	3.5	0.9	55	0.3	0.6	<0.1	55	2.04	0.072
9365	Soil	1.7	51.9	6.7	76	0.2	20.7	15.6	765	3.51	12.7	0.9	4.8	1.6	43	0.3	0.7	<0.1	89	1.53	0.102
9366	Soil	1.5	16.5	15.5	59	0.1	19.7	8.9	331	2.78	15.7	0.5	2.7	2.7	20	<0.1	0.6	0.2	72	0.39	0.023
9367	Soil	1.7	59.7	5.8	76	0.3	20.8	15.9	748	3.44	7.9	1.2	4.3	2.5	32	0.2	0.5	<0.1	79	0.92	0.065
9368	Soil	2.4	30.8	6.2	57	0.2	16.0	13.2	266	2.72	3.4	0.5	1.5	1.5	33	0.2	0.2	0.1	68	0.53	0.172
9369	Soil	0.6	35.3	4.2	27	0.2	8.6	9.0	108	1.91	2.5	0.7	2.2	1.2	14	<0.1	0.1	<0.1	61	0.21	0.043
9370	Soil	1.4	29.7	5.0	55	<0.1	10.9	11.3	190	3.10	4.4	0.3	2.8	0.5	23	<0.1	0.1	<0.1	102	0.40	0.129
9371	Soil	0.7	20.7	8.0	66	<0.1	12.1	9.6	256	2.95	4.5	0.5	8.8	1.3	15	0.1	0.2	0.1	79	0.27	0.076
9372	Soil	1.4	18.9	7.2	58	0.1	16.4	12.2	394	2.80	6.2	0.6	7.2	1.7	18	0.1	0.2	<0.1	74	0.36	0.052
9373	Soil	1.3	26.5	7.5	62	<0.1	17.5	17.2	734	2.77	6.0	0.6	1.8	1.4	18	0.2	0.2	0.1	73	0.37	0.078
9374	Soil	0.4	28.0	5.4	40	<0.1	10.5	7.9	120	2.27	3.2	0.5	1.6	0.8	30	0.1	0.1	<0.1	72	0.52	0.201
9375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9376	Soil	0.9	26.9	9.5	49	<0.1	12.1	7.0	164	2.03	2.6	0.6	3.9	1.0	12	0.3	0.1	<0.1	52	0.20	0.062
9377	Soil	0.9	40.4	10.5	56	0.1	16.3	9.8	168	2.20	3.2	0.9	2.6	0.9	14	0.3	0.1	<0.1	49	0.22	0.073



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9348	Soil	5	25	0.34	324	0.070	<1	1.54	0.020	0.04	0.1	0.02	2.2	<0.1	<0.05	6	<0.5
9349	Soil	5	22	0.37	232	0.067	1	1.32	0.019	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5
9350	Soil	8	35	0.52	208	0.102	<1	2.06	0.016	0.04	0.1	<0.01	3.2	<0.1	<0.05	7	<0.5
9351	Soil	5	14	0.13	142	0.035	<1	0.74	0.012	0.04	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5
9352	Soil	12	33	0.51	268	0.052	1	2.15	0.011	0.05	0.1	0.03	3.5	0.1	<0.05	6	<0.5
9353	Soil	11	28	1.09	319	0.139	1	1.83	0.022	0.19	0.2	0.03	3.4	0.1	0.09	6	0.5
9354	Soil	6	27	0.97	142	0.157	1	1.54	0.029	0.17	0.1	<0.01	3.3	0.1	<0.05	5	<0.5
9355	Soil	10	25	0.74	236	0.106	1	1.54	0.018	0.12	0.1	0.04	3.0	0.1	0.07	5	<0.5
9356	Soil	12	29	0.79	244	0.110	1	1.59	0.019	0.14	0.2	0.03	3.2	0.1	<0.05	5	0.5
9357	Soil	7	30	0.76	265	0.144	1	1.39	0.021	0.22	0.1	0.02	3.1	0.2	<0.05	6	<0.5
9358	Soil	16	28	0.67	459	0.066	2	1.21	0.024	0.15	<0.1	0.08	3.8	0.1	0.12	4	1.2
9359	Soil	23	36	0.93	421	0.150	1	1.66	0.019	0.39	0.1	0.04	5.5	0.2	0.05	7	0.6
9360	Soil	11	41	0.87	370	0.168	<1	1.60	0.018	0.36	0.1	0.03	5.4	0.2	<0.05	7	0.6
9361	Soil	11	23	0.83	1010	0.097	4	1.32	0.024	0.26	<0.1	0.06	5.7	0.1	0.14	5	0.6
9362	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9363	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9364	Soil	10	23	0.80	377	0.084	3	1.25	0.027	0.16	<0.1	0.06	3.8	<0.1	0.10	4	<0.5
9365	Soil	11	36	1.21	333	0.129	2	1.75	0.021	0.31	0.1	0.04	6.9	0.2	0.07	6	0.6
9366	Soil	8	39	0.79	195	0.105	1	1.55	0.018	0.14	0.1	0.01	3.2	0.1	<0.05	7	<0.5
9367	Soil	15	33	0.91	307	0.117	2	1.73	0.021	0.22	<0.1	0.04	6.5	0.2	<0.05	6	<0.5
9368	Soil	8	29	0.81	236	0.128	2	1.45	0.027	0.27	0.1	0.02	3.2	0.2	<0.05	6	<0.5
9369	Soil	7	15	0.44	208	0.099	<1	0.97	0.028	0.10	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5
9370	Soil	5	21	0.75	138	0.106	1	1.21	0.031	0.16	0.1	0.04	2.5	<0.1	<0.05	7	<0.5
9371	Soil	7	26	0.80	160	0.111	<1	1.51	0.015	0.09	0.1	0.03	3.0	<0.1	<0.05	6	<0.5
9372	Soil	8	34	0.79	201	0.125	1	1.44	0.018	0.08	0.2	0.04	3.2	<0.1	<0.05	6	<0.5
9373	Soil	7	37	0.76	187	0.109	<1	1.39	0.019	0.11	0.1	0.04	3.2	<0.1	<0.05	5	<0.5
9374	Soil	5	22	0.57	106	0.082	<1	1.07	0.029	0.05	0.1	0.04	2.7	<0.1	<0.05	4	<0.5
9375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
9376	Soil	6	24	0.64	122	0.101	1	1.21	0.017	0.08	<0.1	0.04	2.5	<0.1	<0.05	5	<0.5
9377	Soil	9	28	0.60	160	0.091	1	1.31	0.019	0.07	0.1	0.06	2.8	<0.1	<0.05	5	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
9378	Soil	0.9	24.8	5.7	42	0.1	13.0	6.6	142	2.02	3.2	0.5	2.1	0.7	14	<0.1	0.1	<0.1	54	0.24	0.067



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
9378	Soil	7	28	0.55	130	0.093	2	1.13	0.018	0.07	0.1	0.04	2.5	0.1	<0.05	5	<0.5



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QUALITY CONTROL REPORT

VAN09003424.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
9270	Soil	1.0	23.3	6.5	48	0.2	26.0	7.0	154	2.29	4.3	0.7	2.6	2.0	22	0.1	0.3	0.2	52	0.27	0.031
REP 9270	QC	1.0	23.9	6.5	47	0.2	26.2	7.0	158	2.29	4.1	0.7	1.2	2.0	23	0.1	0.3	0.2	53	0.27	0.031
9276	Soil	1.5	25.2	11.4	66	0.1	21.2	12.6	490	3.52	10.0	0.8	2.8	2.5	20	<0.1	0.5	0.3	83	0.20	0.041
REP 9276	QC	1.5	25.2	11.6	66	<0.1	20.6	12.7	492	3.58	10.3	0.8	1.2	2.4	21	<0.1	0.5	0.2	84	0.20	0.041
9299	Soil	1.3	28.3	8.1	70	0.3	17.7	10.0	277	2.81	19.3	1.1	3.3	1.9	18	0.2	0.4	0.2	59	0.22	0.042
REP 9299	QC	1.2	28.0	8.0	70	0.3	18.2	9.7	274	2.88	19.3	1.1	3.2	1.9	18	0.2	0.3	0.2	59	0.21	0.044
9331	Soil	0.8	26.6	8.9	45	<0.1	17.3	8.0	248	2.47	6.4	0.7	2.4	0.7	17	0.2	0.3	0.2	61	0.18	0.039
REP 9331	QC	0.8	23.9	8.4	42	<0.1	16.4	7.5	242	2.39	6.3	0.7	1.6	0.7	16	0.2	0.3	0.2	60	0.19	0.036
9332	Soil	0.8	26.1	8.1	32	<0.1	12.2	5.7	143	1.88	4.3	0.6	2.1	0.3	16	0.2	0.3	0.2	50	0.17	0.033
REP 9332	QC	0.9	26.8	8.2	33	<0.1	12.7	5.8	146	1.92	4.5	0.6	1.9	0.3	17	0.2	0.3	0.2	50	0.17	0.034
9369	Soil	0.6	35.3	4.2	27	0.2	8.6	9.0	108	1.91	2.5	0.7	2.2	1.2	14	<0.1	0.1	<0.1	61	0.21	0.043
REP 9369	QC	0.6	35.0	4.2	26	0.1	7.9	8.8	105	1.88	2.4	0.7	2.1	1.1	14	<0.1	0.1	<0.1	59	0.21	0.044
9378	Soil	0.9	24.8	5.7	42	0.1	13.0	6.6	142	2.02	3.2	0.5	2.1	0.7	14	<0.1	0.1	<0.1	54	0.24	0.067
REP 9378	QC	0.8	24.1	6.0	42	<0.1	12.6	6.9	145	2.10	3.6	0.5	1.5	0.8	13	0.1	0.2	<0.1	53	0.23	0.068
Reference Materials																					
STD DS7	Standard	20.0	105.0	63.4	384	0.8	54.5	9.3	612	2.39	50.4	4.7	61.3	4.1	68	6.0	5.7	4.3	87	0.91	0.082
STD DS7	Standard	20.4	109.0	63.5	393	0.8	57.1	9.6	630	2.41	51.1	4.6	59.4	4.2	73	6.4	5.7	4.2	86	0.97	0.085
STD DS7	Standard	20.1	109.6	66.8	392	0.8	52.3	9.1	612	2.33	49.0	4.9	67.1	4.3	75	5.9	5.8	4.7	82	0.97	0.076
STD DS7	Standard	20.3	111.3	62.4	378	0.8	56.1	9.5	610	2.35	49.0	4.6	59.5	4.0	68	6.0	5.6	4.1	86	0.92	0.078
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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203 - 680 Third Ave.

Val d'Or QC J9P 1S5 Canada

Project: Ballarat

Report Date: August 13, 2009

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN09003424.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
9270	Soil	12	49	0.57	293	0.088	1	1.89	0.016	0.09	0.1	0.04	4.8	<0.1	<0.05	7	<0.5
REP 9270	QC	13	50	0.57	310	0.088	1	1.87	0.016	0.09	<0.1	0.04	5.1	<0.1	<0.05	7	<0.5
9276	Soil	11	39	0.64	314	0.089	1	2.65	0.018	0.08	0.1	0.02	5.1	0.1	<0.05	9	<0.5
REP 9276	QC	12	39	0.63	325	0.090	<1	2.65	0.017	0.08	0.1	0.02	5.1	0.1	<0.05	9	<0.5
9299	Soil	14	27	0.56	399	0.058	<1	1.78	0.011	0.09	<0.1	0.05	3.4	<0.1	<0.05	6	0.6
REP 9299	QC	14	28	0.56	400	0.061	<1	1.80	0.011	0.09	<0.1	0.05	3.4	0.1	<0.05	6	<0.5
9331	Soil	10	30	0.49	197	0.061	<1	1.73	0.013	0.06	0.2	0.02	2.6	<0.1	<0.05	6	<0.5
REP 9331	QC	9	29	0.47	180	0.060	1	1.67	0.012	0.06	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5
9332	Soil	9	25	0.33	185	0.050	2	1.39	0.015	0.04	0.1	0.02	2.0	<0.1	<0.05	5	<0.5
REP 9332	QC	9	26	0.34	190	0.053	1	1.42	0.016	0.04	0.1	0.03	2.0	<0.1	<0.05	5	<0.5
9369	Soil	7	15	0.44	208	0.099	<1	0.97	0.028	0.10	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5
REP 9369	QC	7	15	0.44	214	0.096	1	0.97	0.029	0.10	0.1	0.04	3.1	<0.1	<0.05	4	<0.5
9378	Soil	7	28	0.55	130	0.093	2	1.13	0.018	0.07	0.1	0.04	2.5	0.1	<0.05	5	<0.5
REP 9378	QC	6	27	0.55	131	0.087	<1	1.11	0.019	0.07	0.1	0.08	2.3	<0.1	<0.05	5	<0.5
Reference Materials																	
STD DS7	Standard	12	201	1.00	387	0.126	40	1.01	0.092	0.43	3.9	0.19	2.7	4.2	0.21	5	3.8
STD DS7	Standard	13	202	1.03	390	0.135	37	1.03	0.096	0.46	3.8	0.19	2.8	4.2	0.22	5	3.5
STD DS7	Standard	13	202	1.03	399	0.116	38	1.04	0.095	0.45	4.0	0.18	2.4	4.1	0.18	5	3.8
STD DS7	Standard	12	204	0.99	379	0.128	35	0.97	0.090	0.42	3.7	0.19	2.4	4.0	0.21	5	3.2
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



CERTIFICATE OF ASSAY AW 2009-8136

Hinterland Metals Inc.
 680 3rd Ave, Suite 203
Val D'or, Quebec
 J9P 1S5

14-Oct-09

No. of samples received: 10
Sample Type: Rock
Project: Dawson
Submitted by: Mark Fekete

ET #.	Tag #	Au (g/t)	Au (oz/t)
1	58613	<0.03	<0.001
2	58614	<0.03	<0.001
3	58615	0.10	0.003
4	58616	0.03	0.001
5	58617	0.03	0.001
6	58618	<0.03	<0.001
7	58619	0.04	0.001
8	58620	0.07	0.002
9	58621	<0.03	<0.001
10	58622	<0.03	<0.001

QC DATA:

Repeat:

1	58613	<0.03	<0.001
10	58622	<0.03	<0.001

Resplit:

1	58613	<0.03	<0.001
---	-------	-------	--------

Standard:

HiSilk2	3.52	0.103
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ECO TECH LABORATORY LTD.

Norman Monteith
 B.C. Certified Assayer

NM/
 XLS/09

6-Oct-09

Stewart Group
ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4
www.stewartgroupglobal.com

ICP CERTIFICATE OF ANALYSIS AW 2009- 8136

Hinterland Metals Inc.
680 3rd Ave, Suite 203
Val D'or, Quebec
J9P 1S5

Phone: 250-573-5700
Fax : 250-573-4557

No. of samples received: 10
Sample Type: Rock
Project: Dawson
Submitted by: Mark Fekete

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	58613	<0.2	0.13	<5	50	<5	0.02	<1	1	207	3	0.36	<10	<0.01	111	<1	0.10	7	40	4	<5	<20	11	<0.01	<10	2	<10	<1	3
2	58614	<0.2	0.22	<5	130	<5	0.04	<1	9	127	3	0.98	<10	0.05	60	<1	0.11	4	10	4	<5	<20	13	<0.01	<10	4	<10	<1	3
3	58615	0.4	0.15	<5	540	<5	0.06	1	9	210	39	1.62	10	0.03	165	18	0.06	66	110	1732	<5	<20	27	<0.01	<10	9	<10	3	171
4	58616	<0.2	0.09	<5	850	<5	0.80	<1	5	189	4	1.03	<10	0.36	262	2	<0.01	8	20	6	<5	<20	38	<0.01	<10	9	<10	2	19
5	58617	0.2	0.21	<5	90	<5	0.06	<1	1	142	3	0.30	<10	0.01	132	<1	0.10	5	20	6	<5	<20	21	<0.01	<10	3	<10	<1	1
6	58618	<0.2	0.14	40	30	<5	<0.01	<1	4	224	21	2.99	<10	<0.01	34	<1	<0.01	24	570	4	40	<20	2	<0.01	<10	7	<10	2	38
7	58619	<0.2	0.03	<5	130	<5	>10	2	<1	7	4	0.14	<10	0.65	209	4	<0.01	5	850	<2	<5	<20	382	<0.01	<10	54	<10	3	38
8	58620	1.0	0.59	20	<5	10	1.53	8	346	53	1801	>10	<10	0.21	225	<1	0.04	590	3650	32	10	<20	9	0.03	<10	22	30	2	27
9	58621	0.3	0.21	<5	80	<5	0.18	<1	7	173	12	0.37	<10	0.02	129	<1	0.06	14	490	10	<5	<20	8	<0.01	<10	2	<10	4	3
10	58622	<0.2	0.06	<5	90	<5	3.36	<1	7	172	5	1.73	<10	0.30	445	3	<0.01	13	30	4	<5	<20	34	<0.01	<10	15	<10	3	39

QC DATA:

Repeat:

1	58613	<0.2	0.13	<5	50	<5	0.02	<1	<1	207	3	0.36	<10	<0.01	111	<1	0.10	7	40	4	<5	<20	11	<0.01	<10	2	<10	<1	2
---	-------	------	------	----	----	----	------	----	----	-----	---	------	-----	-------	-----	----	------	---	----	---	----	-----	----	-------	-----	---	-----	----	---

Resplit:

1	58613	<0.2	0.15	<5	50	<5	0.02	<1	1	236	4	0.39	<10	<0.01	113	1	0.11	9	40	2	<5	<20	11	<0.01	<10	3	<10	<1	1
---	-------	------	------	----	----	----	------	----	---	-----	---	------	-----	-------	-----	---	------	---	----	---	----	-----	----	-------	-----	---	-----	----	---

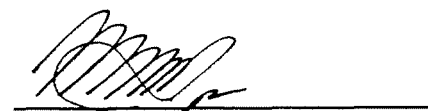
Standard:

Pb129a	11.7	0.82	5	65	<5	0.46	58	6	11	1428	1.54	<10	0.70	356	2	0.03	5	410	6150	15	<20	27	0.05	<10	14	<10	2	9947
--------	------	------	---	----	----	------	----	---	----	------	------	-----	------	-----	---	------	---	-----	------	----	-----	----	------	-----	----	-----	---	------

ICP: Aqua Regia Digest / ICP- AES Finish.

Ag : Aqua Regia Digest / AA Finish.

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dl/2_511S
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Appendix E – Airborne Geophysical Survey (Volume II)



Airborne Geophysical Survey Report Ballarat Property

Prepared for: Hinterland Metals Inc.
November 30, 2009



Precision GeoSurveys Inc.
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1.0 Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown over the Ballarat Property. The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Hinterland Metals Inc. The geophysical survey, carried out on August 31 and September 1, 2009, saw the acquisition of gamma ray spectrometer data and magnetic data.

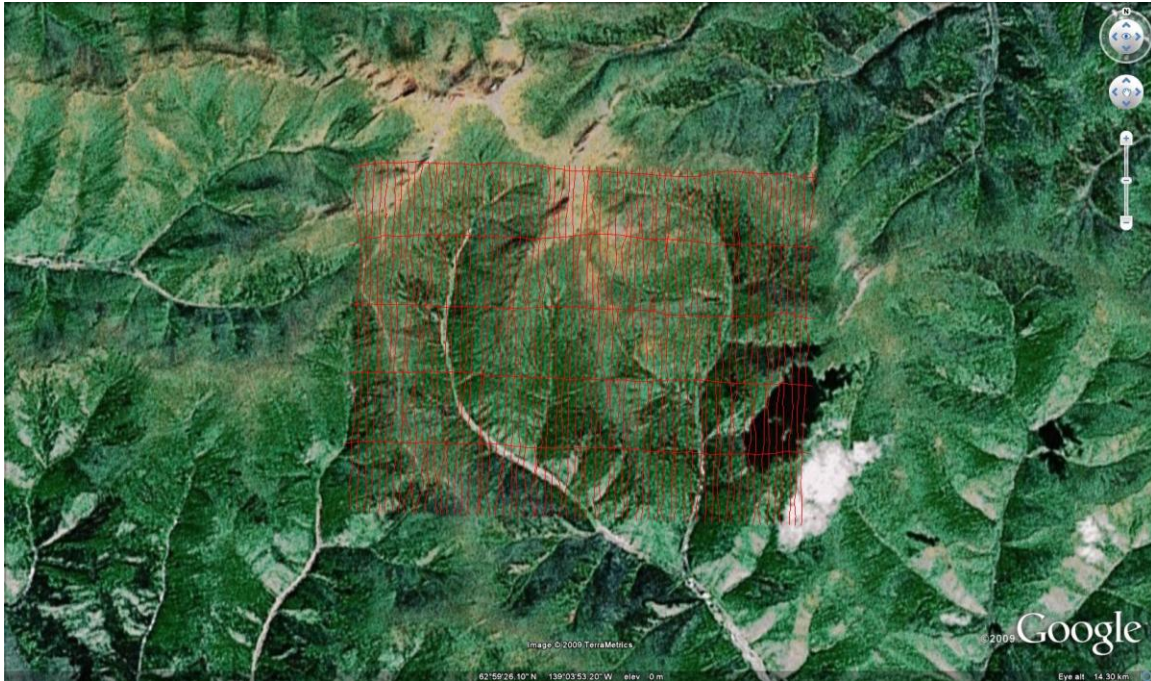


Figure 1: Survey lines outlined in red

The Ballarat property (Figure 1) is located approximately 171 km north-west of Carmacks, YT and 64 km north-west of the Sonora Gulch Camp (Figure 2). The survey area itself is approximately 3 km by 2 km. A total of 360 line kilometers of radiometric and magnetic data were flown for this survey, this total includes tie lines and survey lines. The survey lines were flown at 100 meter spacing's at a 0°/180° heading; the tie lines were flown at 1 km spacing's at a heading of 90°/270°.

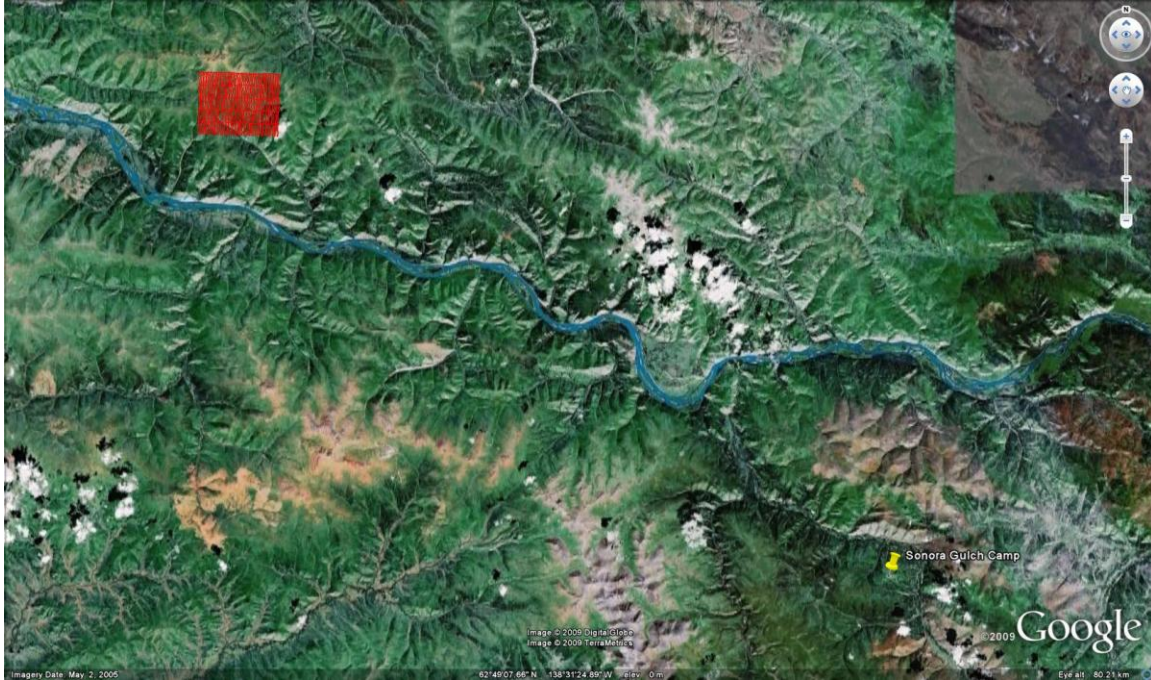


Figure 2: Ballarat survey area location relative to Sonora Gulch Camp, YT.

2.0 Geophysical Data:

Geophysical data are collected in a variety of ways and are used to aid in the exploration and determination of geology, mineral deposits, oil and gas deposits, contaminated land sites and UXO detection.

For the purposes of this survey, airborne gamma ray spectrometer and magnetic data were collected to serve in the exploration of the Ballarat property. The property is a part of the White Gold area play and is host to gold bearing soils and brecciated boulders

2.1 Magnetic Data:

Magnetic surveying is probably the most common airborne survey type to be conducted for both mineral and hydrocarbon exploration. The type of survey specifications, instrumentation, and interpretation procedures, depend on the objectives of the survey. Typically magnetic surveys are performed for:

1. Geological Mapping to aid in mapping lithology, structure and alteration in both hard rock environments and for mapping basement lithology, structure and alteration in sedimentary basins or for regional tectonic studies.
2. Depth to Basement mapping for exploration in sedimentary basins or mineralization associated with the basement surface.

2.2 Radiometric Data:

Radiometric surveys detect and map natural radioactive emanations, called gamma rays, from rocks and soils. All detectable gamma radiation from earth materials come from the natural decay products of three primary elements, uranium, thorium, and potassium. The purpose of radiometric surveys is to determine either the absolute or relative amounts of U, Th., and K in surface rocks and soils.

3.0 Survey Operations:

Precision GeoSurveys flew the Ballarat property using a Bell 206 BIII Jet Ranger (Figure 3). The survey lines were flown at a nominal line spacing of one hundred (100) meters and the tie lines were flown at 1 km spacing for both the spectrometer and magnetometer as they were acquired simultaneously. The average survey elevation was 38.4 meters vertically above ground. The experience of the pilot helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying.



Figure 3: Bell 206 Jet Ranger equipped with mag stinger for magnetic data acquisition.

The base of operations for this survey was the Sonora Gulch Camp located approximately 106 km north-west of Carmacks, YT. The Precision crew consisted of a total of three members:

Spring Harrison – Pilot
Paula Vera – Co-pilot/operator
Chris Brown – On-site geophysicist

The first day of survey took place on August 31 and September 1, 2009. The survey was completed without any interference from the weather or equipment issues.

4.0 Equipment:

For this survey a magnetometer, spectrometer and a data acquisition system were required to carry out the survey and collect quality, high resolution data.

4.1 AGIS:

The Airborne Geophysical Information System, AGIS, (Figure 4), is the main computer used in data recording, data synchronizing, displaying real-time data for the operator to QC, pilot navigation and pilot display information.



Figure 4: AGIS installed in the Bell 206.

The AGIS was manufactured by Pico Envirotec; therefore the system uses standardized Pico software and external sources are connected to the system via RS-232 serial communication cables. The AGIS data format is easily converted into Geosoft or ASCII file formats by a supplied conversion program called PEIView. Additional Pico software allows for post survey quality control procedures.

4.2 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing two downward facing NaI detecting crystals for a total volume of 8.4 litres (figure 5). Real time data acquisition, navigation and communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various elements (K, U, Th, etc.), temperature, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.

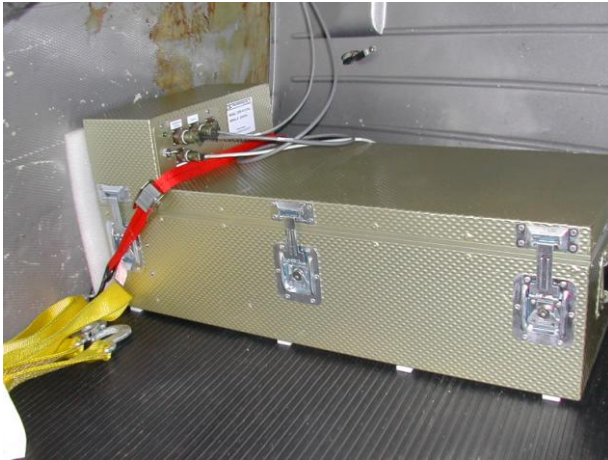


Figure 5: IRIS strapped into the cargo box of the helicopter.

4.3 Magnetometer:

The magnetometer used by Precision GeoSurveys is a Scintrex cesium vapor CS-3 magnetometer. The system was housed in a front mounted “stinger” (Figure 6). The CS-3 is a high sensitivity/low noise magnetometer with automatic hemisphere switching and a wide voltage range, the static noise rating for the unit is ± 0.01 nT. On the AGIS screen the operator can view the raw magnetic response, the magnetic fourth difference and the survey altitude for immediate QC of the magnetic data. The magnetic data are recorded at 10 Hz. A magnetic compensator is also used to remove noise created by the movement of the helicopter as it pitches, rolls and yaws within the Earth’s geomagnetic field.



Figure 6: View of the mag stinger.

5.0 Data Processing:

After all the data are collected after a survey flight several procedures are undertaken to ensure that the data meet a high standard of quality. All data were processed using Pico Envirotec software and Geosoft Oasis Montaj geophysical processing software.

5.1 Magnetic Processing:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself, movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey (50°/230° and 140°/320° in the case of this survey) at an elevation where there is no ground effect in the magnetic data. In each heading roll, pitch and yaw maneuvers are performed by the pilot, these maneuvers provide the data that is required to calculate the necessary parameters for compensating the magnetic data. A computer program called PEIComp is used to create a model for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

A magnetic base station is set up before every flight to ensure that diurnal activity is recorded during the survey flights. Precision GeoSurveys uses a Geometrics 858 base station and sampled at 0.1Hz. Base station readings were reviewed at regular intervals to insure that no data were collected during periods with high diurnal activity (greater than 5 nT per minute). The base station was installed at a magnetically noise-free area, away from metallic items such as steel objects, vehicles, or power lines. The magnetic variations recorded from the stationary base station are removed from the magnetic data recorded in flight to ensure that the anomalies seen are real and not due to solar activity.

Some filtering of the magnetic data is also required. A Non Linear filter was used for spike removal. The 1D Non-Linear Filter is ideal for removing very short wavelength, but high amplitude features from data. It is often thought of as a noise spike-rejection filter, but it can also be effective for removing short wavelength geological features, such as signals from surficial features. The 1D Non-Linear Filter is used to locate and remove data that are recognized as noise. The algorithm is 'non-linear' because it looks at each data point and decides if that datum is noise or a valid signal. If the point is noise, it is simply removed and replaced by an estimate based on surrounding data points. Parts of the data that are not considered noise are not modified. The combination of a Non-Linear filter for noise removal and a low pass trend enhancement filter resulted in level data as indicated in the results section of this report. The low pass filters simply smoothes out the magnetic profile to remove isolated noise.

A lag correction was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 6.45 m ahead of the GPS antenna.

Following a lag correction of 1.7 seconds, a low-pass filter equivalent to 1 second was then applied to the lag corrected data.

5.2 Radiometric Processing:

Radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. The data are then lightly filtered and corrected for survey altitude at standard temperature and pressure. Background radioactive contributions from the aircraft, cosmic radiation and atmospheric radon must also be removed. Finally the data are corrected by removing spectral overlap; this is done using the striping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down to the apparent radioelement concentrations.

5.3 Final Data Format

X – Easting in NAD83, UTM zone 7N
Y – Northing in NAD83, UTM zone 7N
utctime – UTCtime
basemag – diurnal data
mag – total magnetic field
lalt – laser altimeter readings
tc_cor – corrected total count
eK – percent potassium
eU – equivalent uranium
eTh – equivalent thorium

The file format will be provided in two (2) formats, the first will be a .GDB file for use in Geosoft Oasis Montaj, the second format will be a .XYZ file, this is text file. Two separate files will be provided for each format, one for the magnetic and one for the radiometrics.

Appendix A Maps

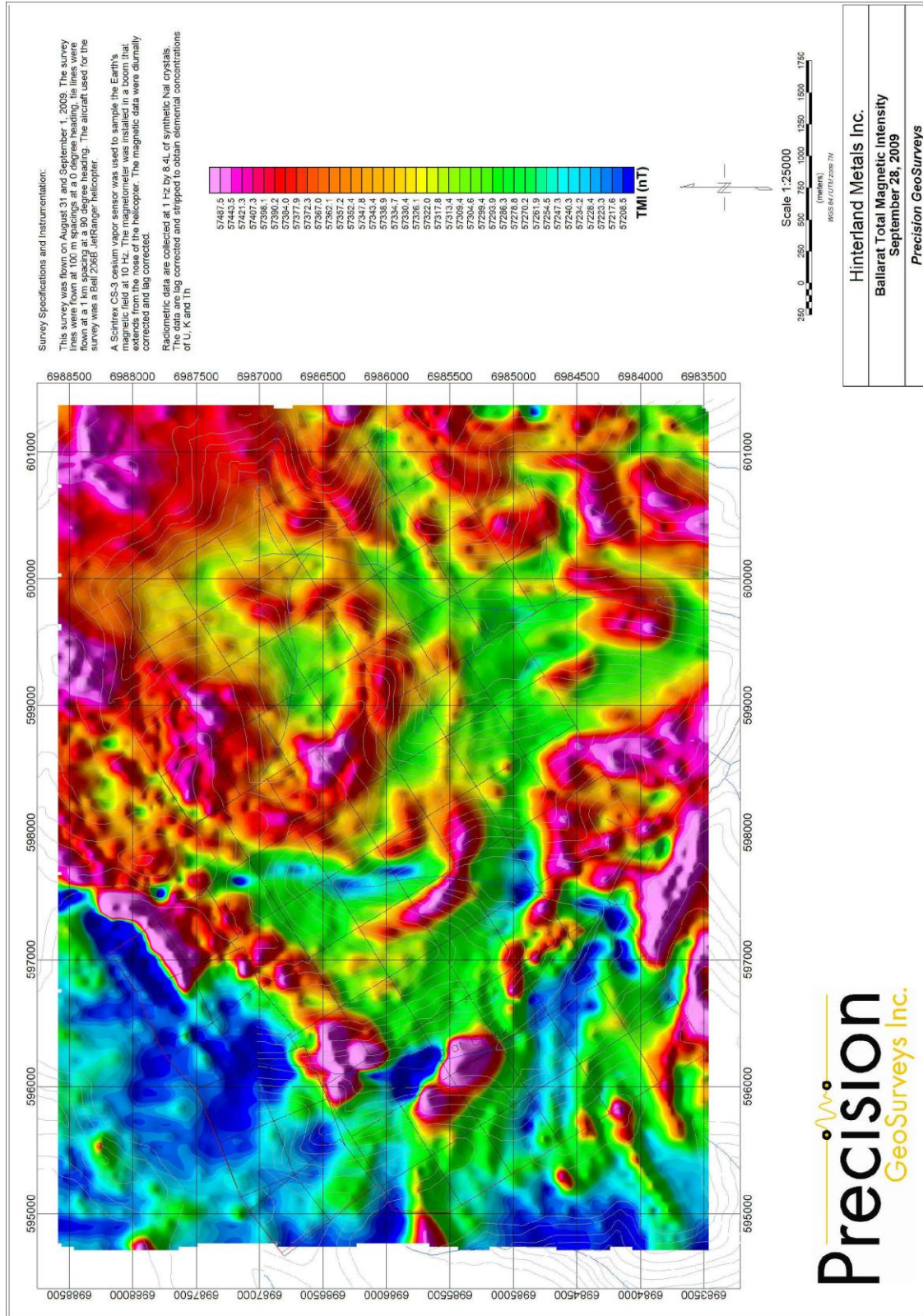
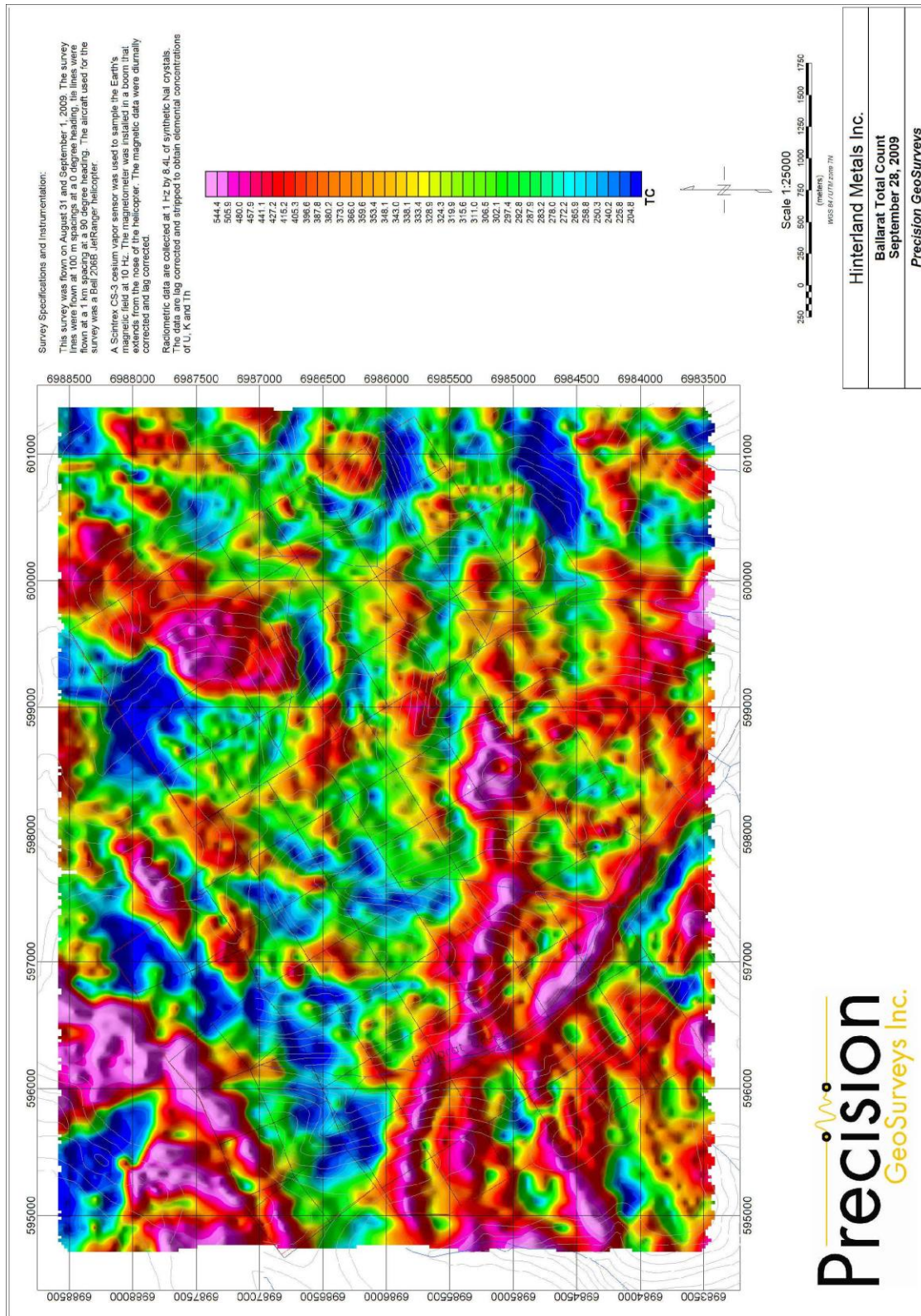


Figure 1: Ballarat total magnetic intensity.



Hinterland Metals Inc.
 Ballarat Total Count
 September 28, 2009
 Precision GeoSurveys

Precision
 GeoSurveys Inc.

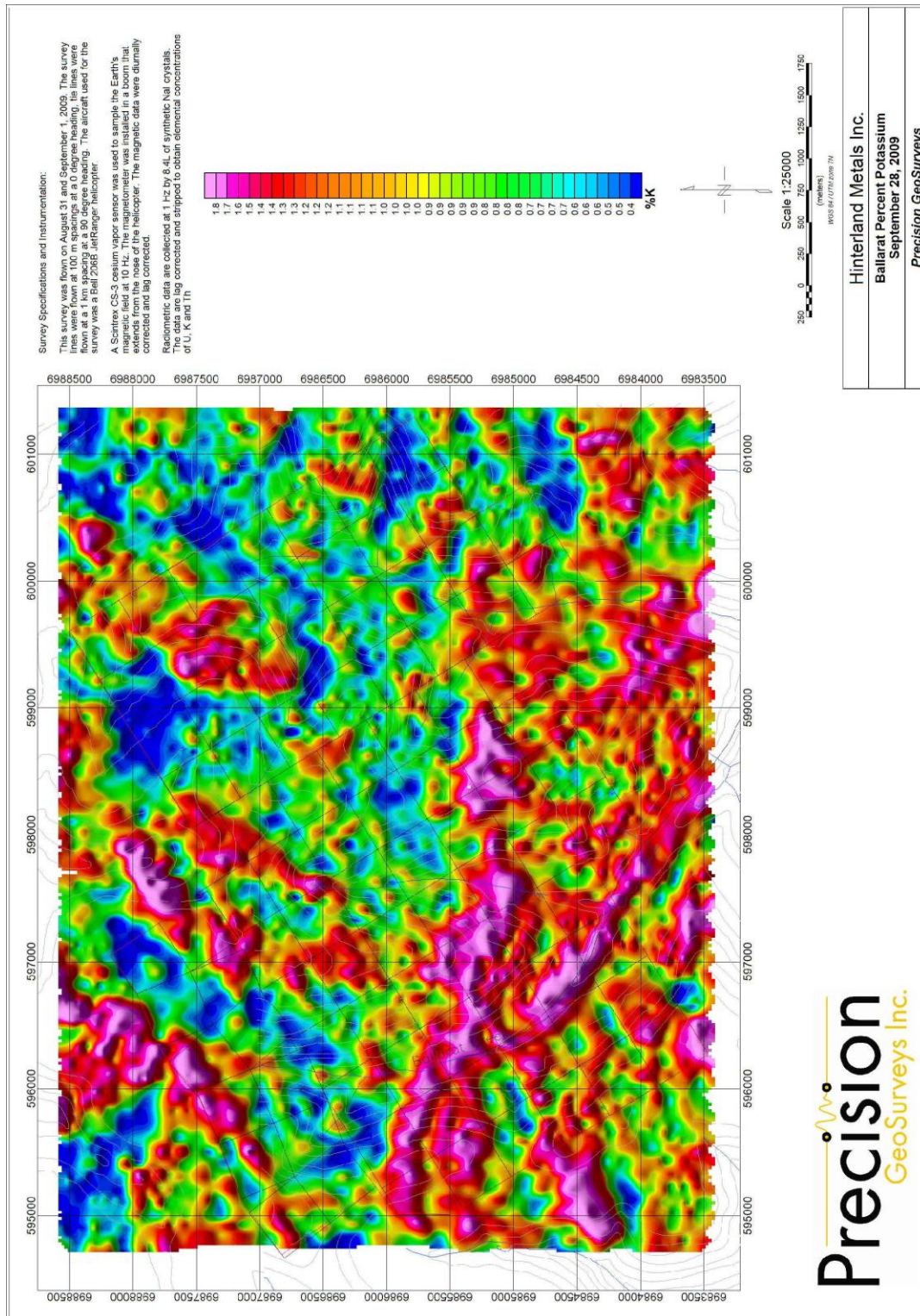


Figure 3: Birman percent potassium

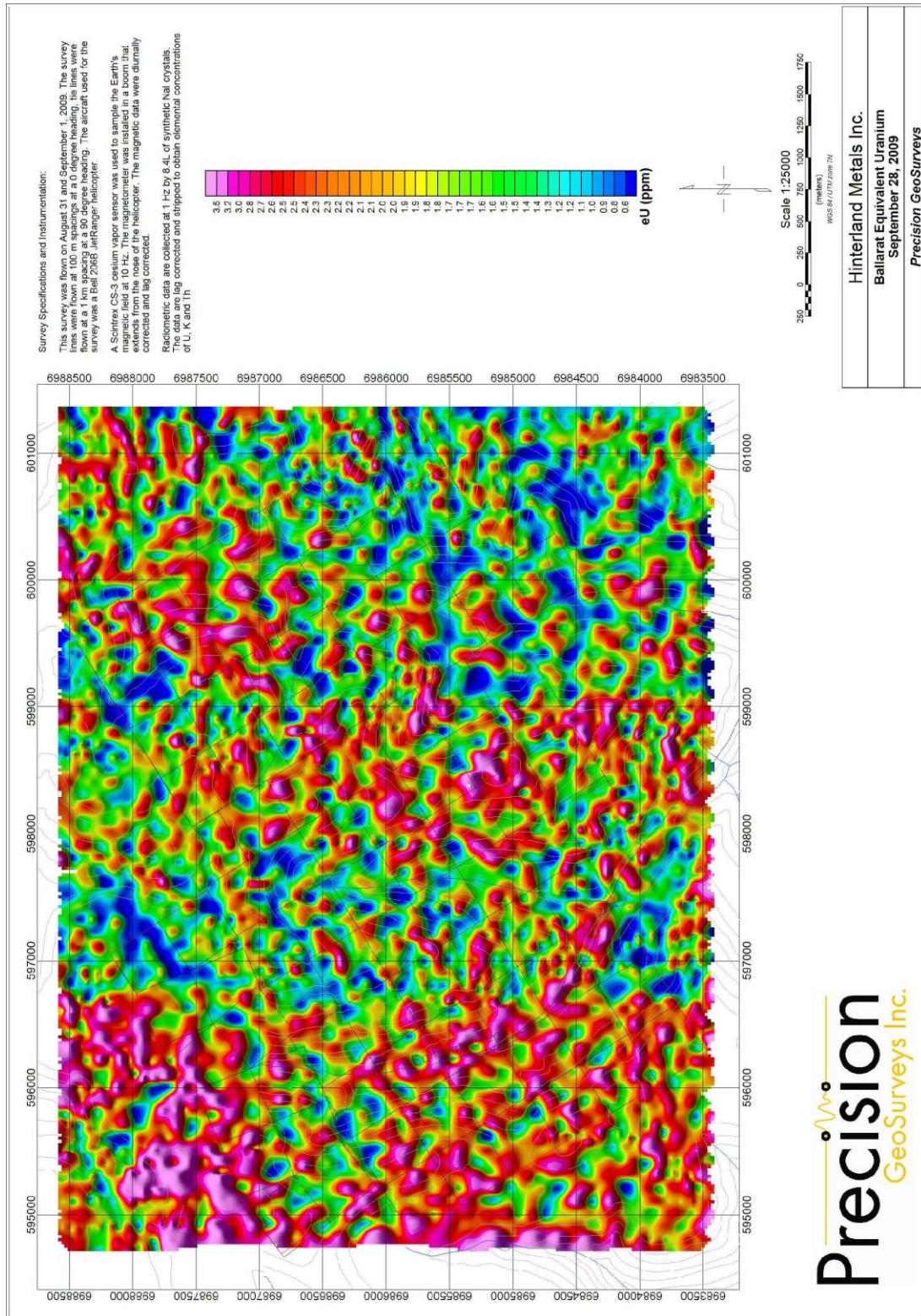


Figure 4: Ballarat equivalent uranium

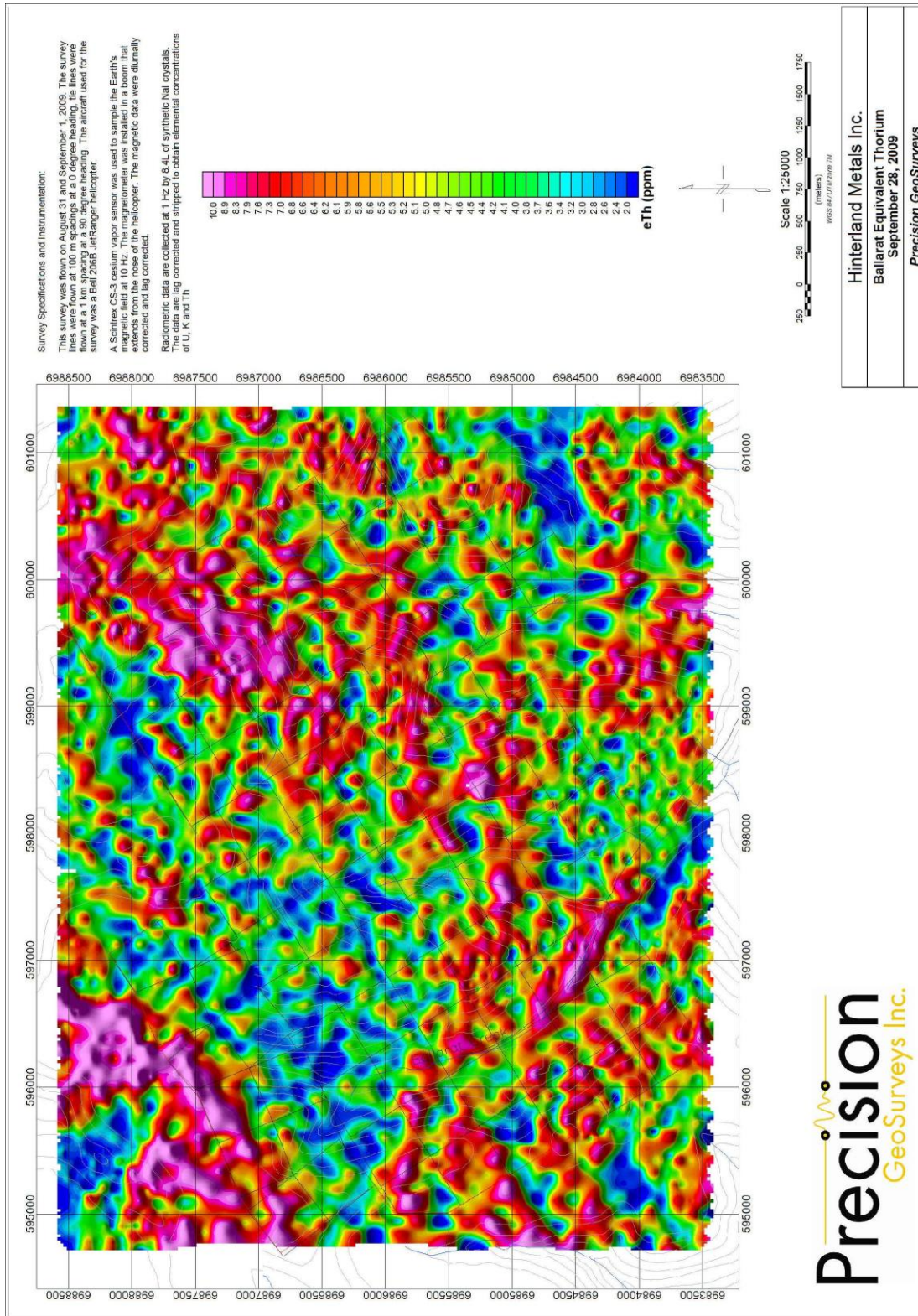


Figure 5: Ballarat equivalent thorium