



ASSESSMENT REPORT ON THE 2011 GEOCHEMICAL SURVEY OF THE 4C EAST PROPERTY
Finlayson area, Watson Lake mining district, Yukon

NTS 105G 01

Latitude 61° 02' N, longitude 130°04'W

YC22874- YC22877	4C 289 - 292		YC28800	4C 439
YC22924- YC22927	4C 357 - 360		YC29001- YC29011	4C 440 - 450
YC22950- YC22953	4C 383 - 386		YC97695- YC97704	4C 451 - 460
YC22994- YC22997	4C 435 - 438		YD33847- YD33868	4C 461-482
YC23114- YC23117	4C 409 - 412			

Survey conducted June 23 to July 2nd 2011

Redtail Metals Corp

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July 24 2012

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SUMMARY

The Four Corners (4C property) was optioned from Strategic Metals in 2011. As only 64 claims at the eastern portion of the property were optioned, it is therefore referred to as 4C East by Strategic.

The property is located on NTS map sheet 105G 01, in the Watson Lake Mining District, approximately 115 km north of Watson Lake, and 40 km west of the Robert Campbell Highway. Access is by helicopter.

The area is underlain by Devonian rocks of Yukon Tanana Terrane, in a belt of rocks regionally endowed with VMS occurrences and deposits. The property geology consists of a conformable sequence of ultramafic intrusive rocks overlain by mafic and then felsic meta-volcanic rocks; the same volcanic units that host the Fire Lake (30 km to the northwest) and Kudz Ze Kayah (60 km to the north-northwest) VMS deposits.

Previous work by Cominco located the IC showing (Minfile 105G 146). Follow-up work by Strategic Metals outlined anomalous soils and rocks at the contact between the felsic and mafic metavolcanic units. Two VTEM conductors were located, one of them correlating with the IC showing and the other located within the ultramafic rock. The HS showing was discovered by Strategic Metals in 2006. Additional soil sampling took place over the years as well as hand-trenching and prospecting.

The 2011 work program focused on expanding the existing soil coverage to cover the VTEM conductor in the ultramafic unit, expand coverage over the felsic volcanic unit and close off some anomalies that occurred at the edge of pre-existing grids. The soil survey was contracted out to Aurora Geosciences. A 4-person crew collected 531 samples between June and July 2nd 2011. Neither prospecting nor mapping was done on the property at this time.

Results indicate that some of the anomalies extend further east towards the base of the mafic metavolcanic unit. Results also point to a potential continuity as well as to an anomalous area at the south end of the grid that has a different metal association (coincident elevated Zn, Pb and Ag, no Cu) than the known mineral occurrences.

LOCATION AND ACCESS

Redtail Metals' 4C property consists of 64 contiguous mineral claims, which are located in southeastern Yukon on NTS map sheets 105G/01 at latitude 61°02' north and longitude 130°04' west (Figure 1). The 4C claims lie approximately 115 km northwest of Watson Lake. The closest road is the Robert Campbell Highway, which at its nearest point is 40 km east of the property.

Access to the property was provided by a Hughes 500D helicopter, operated by Kluane Airways from the Inconnu Lodge on McEvoy Lake, located 85 km north of the property. The staging area was one of numerous gravel pits lining the Robert Campbell Highway.

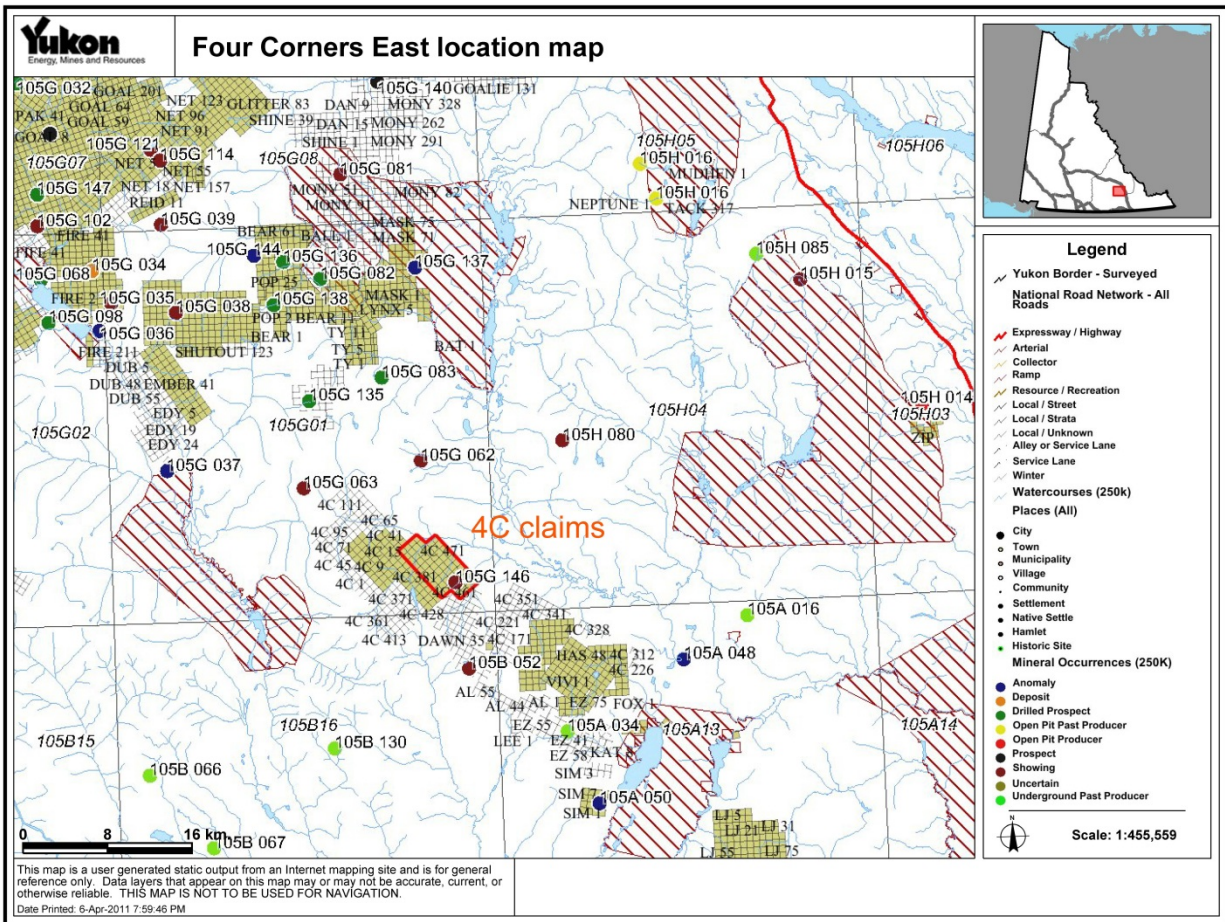


FIGURE 1 GENERAL LOCATION MAP

CLAIM DATA

Redtail Metal's 4C property consists of 64 contiguous mineral claims, which are located on NTS map sheets 105G/01, at latitude 61°30' north and longitude 130°00' west (Table 1 and Figure 2). The claims are registered with the Watson Lake Mining Recorder in the name of Redtail Metals Corp. The detailed claim data is found in Appendix A.

TABLE 1 SUMMARY CLAIM DATA

YC22874- YC22877	4C 289 - 292	YC28800	4C 439
YC22924- YC22927	4C 357 - 360	YC29001- YC29011	4C 440 - 450
YC22950- YC22953	4C 383 - 386	YC97695- YC97704	4C 451 - 460
YC22994- YC22997	4C 435 - 438	YD33847- YD33868	4C 461-482
YC23114- YC23117	4C 409 - 412		

The map displays a topographic representation of the study area with contour lines indicating elevation. A grid of sampling points is overlaid, labeled with codes such as 4C 481, YD33867, 4C 477, YD33863, and 4C 479, YD33865. The grid is bounded by coordinates 440000 to 444000 on the x-axis and 6764000 to 6769000 on the y-axis. A north arrow is located in the top right corner, and a scale bar at the bottom indicates a scale of 1:30,000, with distances marked in kilometers (0, 0.5, 1). The map also shows a river network and a large lake on the left side.

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REGIONAL DATA

GEOLOGY AND MINERALIZATION

The regional and local geology are prospective for volcanogenic massive sulphide deposits.

At the regional scale, the Yukon-Tanana Terrane (YTT) hosts numerous volcanic-hosted massive sulphide (VMS) deposits, including the Fyre Lake deposit (Minfile Occurrence #105G 034) in the Upper Devonian Fire Lake mafic metavolcanic unit, the Kudz Ze Kayah deposit (Minfile Occurrence #105G 117) in the Upper Devonian Kudz Ze Kayah felsic metavolcanic unit, and the Wolverine deposit (Minfile Occurrence #105G 072) within the lower Mississippian Wolverine Succession, as well as the Ice deposit (Minfile Occurrence # 105G 118) within the lower Permian Campbell Range succession (from Minfile) (see Figure 3).

The Upper Devonian Fire Lake mafic metavolcanic unit and the Upper Devonian Kudz Ze Kayah felsic metavolcanic unit occur on the 4C property, and host the anomalies and mineralization known to date.

A compilation of regional geology is below in Figure 3, taken from Strategic Metals latest assessment report (Eaton, 2011). It shows the location of the most significant VMS occurrences in YTT, the 4C is shown as an orange star for reference.

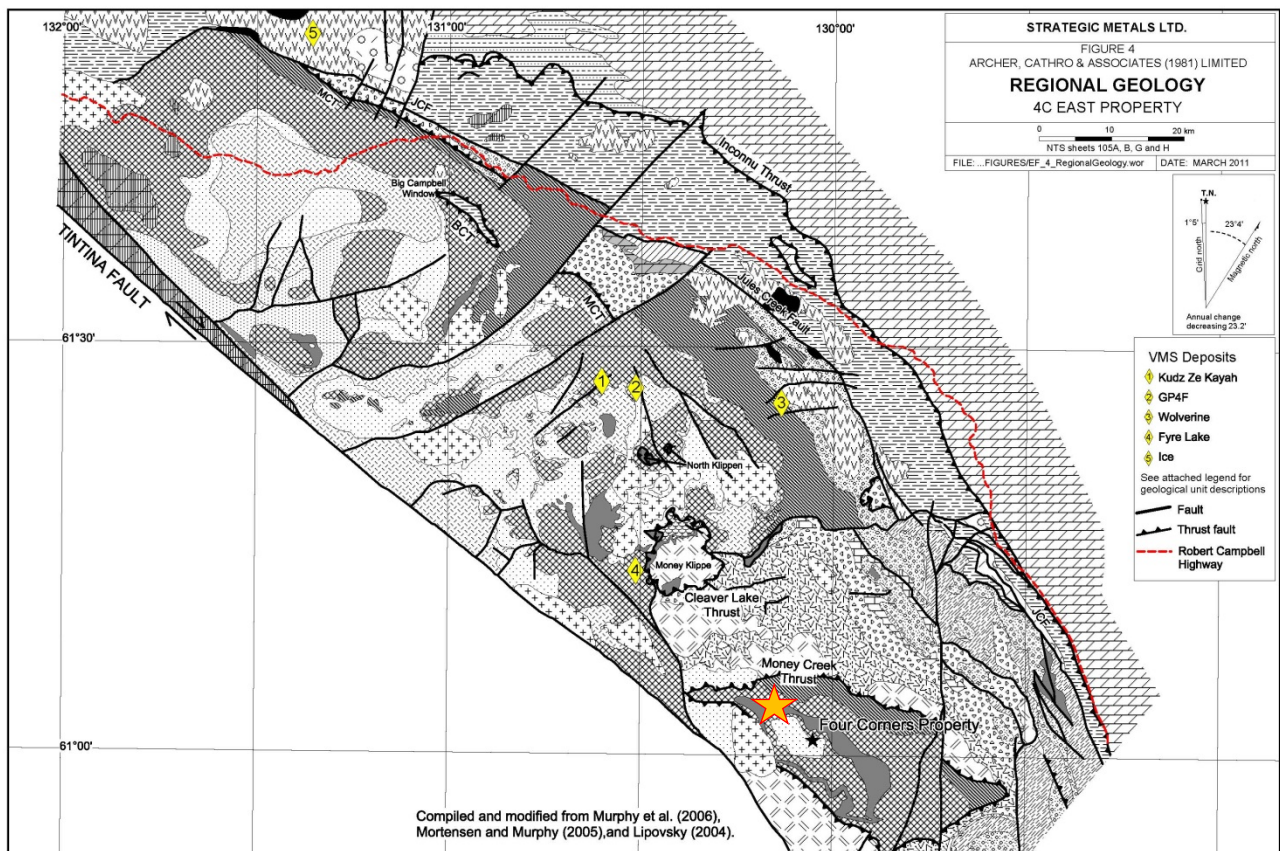
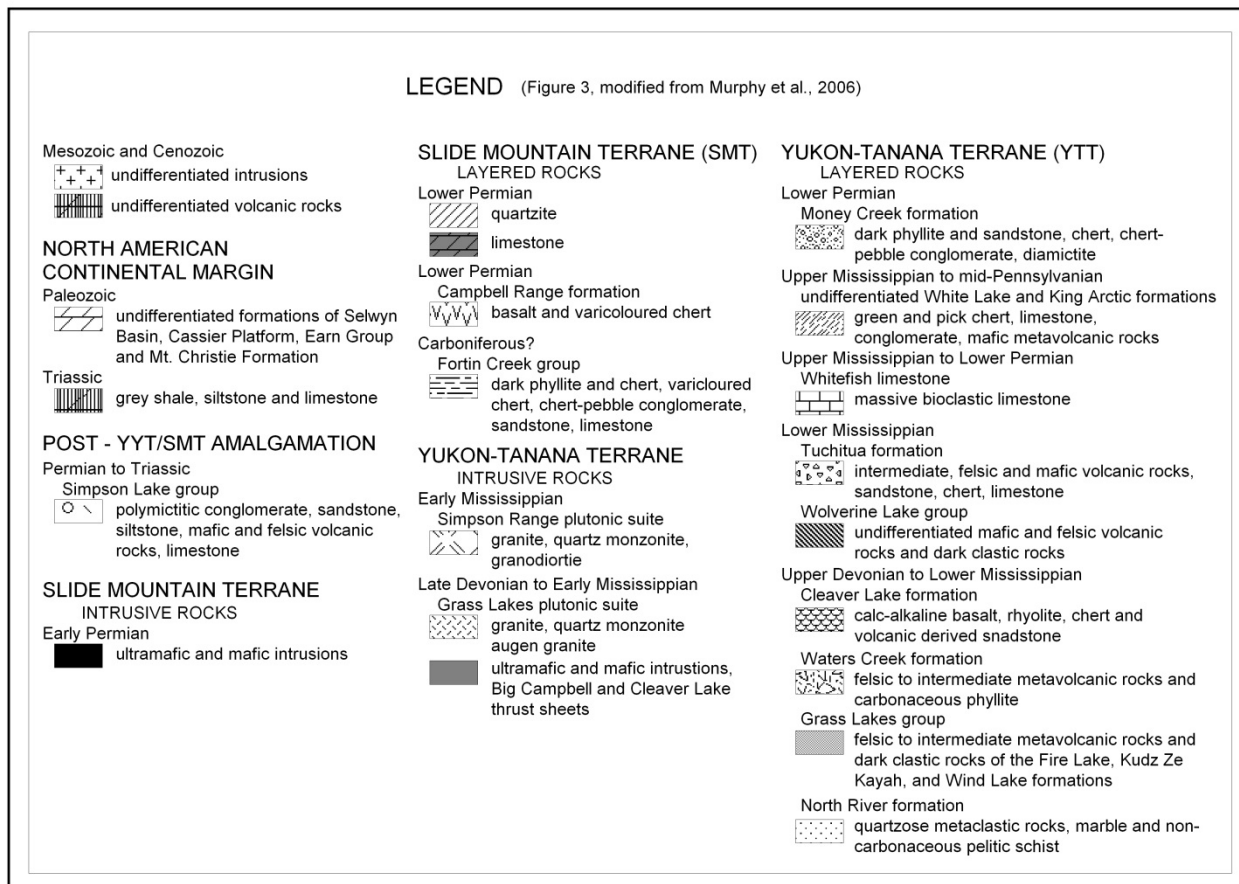


Figure 3 Regional Geology and location of significant VMS occurrences in Yukon Tanana Terrane. Legend below.

From Eaton, S., 2011, Strategic Metals Assessment report.



PROPERTY GEOLOGY

This section is mostly taken from Eaton (2011) assessment report

Yukon-Tanana Terrane rocks on the Four Corners East property comprise stratigraphic volcanic units and laterally extensive ultramafic intrusions. The lowest stratigraphic unit consists of mafic metavolcanic rocks of Late Devonian Fyre Lake Formation (DF). This unit is conformably overlain by felsic metavolcanic rocks of Late Devonian Kudze Kayah Formation (DK). These stratigraphic units have been intruded by Late Devonian, variably serpentinized ultramafic rocks (Dum). The youngest rocks in close proximity to the Four Corners East property are found four kilometres to the west of the claim block, where the older units are cut by a north-northwesterly elongated, approximately 10 km long granitic stock (Kg). Unit descriptions are summarized in the following table.

Table II: Lithological Units at the Four Corners East Property

(after Murphy and Piercey, 1999 and Murphy *et al.*, 2003)

<u>Unit (Age)</u>	<u>Description</u>
Kg (Mid-Cretaceous)	Massive to weakly foliated, medium to coarse grained biotite-muscovite granite, generally equigranular.
Dum (Late Devonian)	Brown weathering, dark green to black, variably serpentinized dunite, includes gabbro and/or pyroxenite locally.
DK (Late Devonian)	Kudz Ze Kayah felsic metavolcanic formation: feldspar-muscovite-quartz schist.
DF (Late Devonian)	Fyre Lake mafic metavolcanic formation: massive to subtly layered chlorite-biotite-plagioclase-actinolite schist.

Foliation attitudes strike northwesterly and dip moderately to the north. Compositional layering in the stratified rocks is approximately parallel to foliation. This would imply that the sequence is overturned.

Although no high angle faults have been mapped on the property, abundant quartz veins in the central part of the claim block indicate that extensional structures are present.

PREVIOUS WORK

The following is mostly taken from the Minfile description (105G 146, Appendix B) and from the Eaton (2011) assessment report.

HISTORY

Regional-scale geological mapping in the vicinity of the Four Corners East property was performed by the Geological Survey of Canada (GSC) in 1960 and 1977 (Poole *et al.*, 1960 and Tempelman-Kluit, 1977). Drainages in the area were sampled in 1978, during reconnaissance-scale stream sediment geochemical surveys supervised by the GSC (Hornbrook and Ballantyne, 1978 and Hornbrook and Friske, 1988).

The only record of previous exploration in the area now covered by the Four Corners East property is work conducted by Cominco Ltd. between 1995 and 1998. That work targeted VMS mineralization modelled on the Kudz Ze Kayah deposit, located 60 km north-northwest of the Four Corners East property. Cominco flew helicopter-borne geophysical surveys over

most of the Finlayson Lake District following the discovery of Kudz Ze Kayah, and it later staked numerous claim blocks to cover the resulting geophysical anomalies. Results from the geophysical surveys were not reported for assessment credit.

In 1996 and 1997, Cominco staked three claim blocks (BL 1-93, Wat 1-165 and IC 1-28) in the area. Parts of the Wat and IC claim blocks overlapped with much of the current Four Corners East property. Cominco performed reconnaissance-scale soil and stream sediment sampling, geological mapping and prospecting. In 1998, Cominco completed more detailed mapping and prospecting around a stratiform pyrite showing hosted within siliceous felsic exhalite and argillite on the IC claims. This showing (IC Showing) is in the southeastern part of the Four Corners East property. Both Cominco's claim blocks were subsequently allowed to expire.

In early spring 2003, Strategic Metals staked its initial 4C claims and later that spring it optioned those claims to Firestone Ventures Inc. (Wengzynowski, 2003). Exploration for emeralds was conducted in the western part of the property (did not overlap with current Four Corners East property). This work resulted in the discovery of a few small beryl crystals, but no green or gem quality stones were found.

In 2005, after Firestone dropped its option, Strategic Metals staked additional claims and explored the eastern corner of its property (overlapped with Four Corners East property) for VMS potential by soil sampling, prospecting and geological mapping. The most significant discovery from that program was the HS Showing, which comprises a limonite boxwork subcrop within quartz-carbonate altered metavolcanics. The limonite is believed to be the weathered product of Besshi-style VMS mineralization (Wengzynowski, 2006). The Fyre Lake Deposit, located 30 km to the northwest, is a Besshi-style deposit hosted in the same stratigraphic unit.

In 2006, Geotech Ltd. conducted helicopter-borne magnetic and variable time domain electromagnetic (VTEM) surveys over the eastern part of the 4C claim blocks (survey largely overlapped with Four Corners East property) on behalf of Strategic Metals (Wengzynowski, 2007). The VTEM data was reprocessed and interpreted by Condor Consulting, Inc. in spring 2009.

In 2009, Strategic Metals performed limited soil sampling, prospecting and geological mapping in the vicinity of the HS and IC Showings (Gregory, 2009). Results from this program confirmed the nature and extent of historical work.

In 2010, Strategic Metals conducted one day of soil sampling, prospecting, geological mapping and hand trenching.

Copper Ridge Explorations optioned the 4C East in 2011. The Company subsequently changed its name to Redtail Metals Corp later that year. The 2011 soil program is described in the next section.

Appendix C shows the digital compilation of all pre-2011 soils. These results have not yet been compiled with the 2011 results and therefore are displayed separately.

PREVIOUS RESULTS

VMS-type mineralization has been discovered at two locations (IC and HS Showings) on the Four Corners East property (Figure 5). Nineteen rock and chip samples were collected from the HS Showing in 2010. Locations of these samples are shown on Figure 6. Figure 7 illustrates the detailed geology of HS Showing, along with the trench location and rock samples results for copper. Figures 8 to 11 show copper, silver, lead and zinc results for all samples within the Four Corners East property. Sampling and Analytical Procedures are provided in Appendix II, Rock Sample Descriptions for 2010 samples are given in Appendix III and Certificates of Analysis are in Appendix IV. The showings are briefly described in the following paragraphs.

The **IC Showing** is located in the easternmost part of the property. It comprises strataform, 1 to 15 cm thick bands of massive pyrite with rare sphalerite and galena that are hosted in siliceous felsic exhalite and argillite of the Kudz Ze Kayah

Formation. Specimens of this banded mineralization reportedly contain up to 8000 ppm lead and 2000 ppm zinc, but the locations of these samples were not specified (Bannister and Holroyd, 1998; Senft, 1997; and Senft, 1998). Samples collected in the area by Strategic Metals in 2006 returned more subdued values, which range from 25 to 254 ppm copper (average of 118 ppm), 0.2 to 1.4 g/t silver (average of 0.8 g/t), 35 to 457 ppm lead (average of 181 ppm) and 47 to 387 ppm zinc (average of 170 ppm).

The **HS Showing** lies in the east-central part of the property. The terrain is moderately steep, but outcrop is rare due to thick vegetation. Mineralization discovered at this location in 2006 consists of limonite boxwork and limonitic chlorite schist in a small vegetation “kill zone” within the Fyre Lake Formation metavolcanics. Specimens of this limonite-rich material assayed between 0.42 and 0.97% copper with near background values for most other metals except cobalt (119 to 184 ppm) and zinc (262 to 2850 ppm). Malachite and azurite coated carbonate float was found downslope of the limonite showing. Two samples of this material assayed 2.07 and 0.47% copper (Wengzynowski, 2006). Detailed prospecting and geological mapping conducted in 2010 along trend to the northwest of the showing delineated a 400 m long by about 10 m wide band of strongly quartz-carbonate altered Fyre Lake Formation metavolcanics (chloritic schist) with minor chalcopyrite and locally strong malachite and azurite coatings (Figure 7). Ten rock samples were collected along strike to the northwest of the HS Showing (the other nine were taken from a hand trench – see Hand Trenching section). Eight of these samples averaged 3104 ppm copper. Most samples returned subdued values for gold and silver, except one that yielded 301 ppb gold and 4.0 g/t silver. Zinc and cobalt values were generally weak, with the exception of one sample that returned 277 ppm cobalt.

SOIL GEOCHEMISTRY

Different parts of the area covered by the Four Corners East property have been soil sampled at various times since 1996. In 2010, 55 soil samples were taken on five lines centered over the HS Showing. Sampling and Analytical Procedures used during the various soil sampling programs can be found in Appendix II and Certificates of Analysis for 2010 samples are in Appendix III. 2010 soil sample locations are shown on Figure 6, while copper, silver, lead and zinc results for all samples are illustrated thematically on Figure 8 to 11.

Collectively, sampling has defined a discontinuous 3000 by 500 m copper anomaly in the central part of the property. Values within this anomaly range from 100 to 1220 ppm copper (Figure 8). The area of anomalous copper closely conforms to the inferred trace of the Fyre Lake metavolcanic strata and encompasses the HS Showing. The largest cluster of high copper values is in a well vegetated area with no outcrop, about 2200 m west-northwest of the HS Showing.

The strongest silver response is found within a 1000 by 300 m area in the southeastern corner of the claim block, at the southeast end of the main copper anomaly (Figure 9). This anomaly features values ranging from 1 to 5.9 ppm silver and is open to the east. The strongest values were from samples hosted by Kudz Ze Kayah Formation metavolcanics. The IC Showing lies at the northwest edge of this anomaly. Scattered anomalous silver values (between 1 and 2.4 g/t) were also identified in the northwest corner of the property within the Fyre Lake and Kudz Ze Kayah Formations.

Lead values are closely correlated with silver, and the strongest values (50 to 825 ppm) are clustered in a 700 by 200 m area around the IC Showing (Figure 10).

Elevated zinc values (200 to 1130 ppm) are concentrated within Kudz Ze Kayah Formation in the southeast and central parts of the property (Figure 11). There is no sample coverage between these two areas. Scattered zinc anomalies are also present within Fyre Lake Formation.

HAND TRENCHING

In 2010, a 17.2 m long hand trench was dug perpendicular to the trend of quartz-carbonate alteration at the HS Showing (Figure 12). The trench is located in a saddle along a northeast trending ridge – this site was chosen for its likelihood of reaching bedrock, and did not cross the strongest historical mineralization. The trench started in relatively unaltered Fyre Lake Formation biotite-chlorite schist (0.0 to 0.75 m) at its southwest end then transitioned into strongly quartz-carbonate altered schist. The transition zone was marked by gouge. Trace limonite and rare malachite were encountered within the quartz-carbonate alteration. At 16.5 m, the trench passed back into unaltered biotite-chlorite schist and once again the transition was marked by gouge. The strongest values were from the first three samples (southwest end), which averaged 2903 ppm copper over 4.20 m. The remainder of the samples yielded subdued values for all elements.

HELICOPTER-BORNE VTEM SURVEYS

In 2006, helicopter-borne VTEM surveys were flown by Geotech Ltd. over a large portion of the Four Corners East property. In spring of 2009, data from those surveys were reprocessed and analyzed by Condor Consulting, Inc. Condor identified two northwesterly trending conductors that may be related to VMS-style mineralization (Figures 5, 8, 9, 10 and 11). One of these conductors is located in the north-central part of the claim block. Although it overlies ultramafic rocks, the favourable Fyre Lake Formation is projected to dip beneath these rocks at a moderate angle. The strongest part of the copper-in-soil anomaly lies directly updip from this conductor. The other conductor coincides with the surface trace of the IC Showing.

2011 SURVEY AND RESULTS

The 2011 field program was designed to advance the property by expanding the soil coverage:

- in order to better define soil anomalies located at the edges of the historical grid,
- by sampling the area underlain by the ultramafic intrusion and including the area overlying the VTEM conductor located in the northwestern corner of the claim block, and
- by extending the soil grid to cover the southeastern extension of the prospective contact between the Fire Lake mafic metavolcanic unit and the Kudz Ze Kayah felsic metavolcanic one.

No geologist was present during this work program, therefore neither mapping, prospecting nor groundtruthing took place.

A soil sampling crew was contracted from Aurora Geosciences, a consulting firm in Whitehorse. A four person crew mobed into the property on June 23 and demobed on July 2nd. They collected a total of 531 samples that were sent for assay. The details of the survey are found in Aurora's field report, in Appendix D. Soil sample data is found in Appendix E.

The geochemical maps outlining the 2011 soil results are found in Appendix F.

SAMPLING METHODOLOGY

Grid lines were traversed by foot using an integrated hand-held GPS/computer as navigation tool. This instrument, a Juno by Trimble, consists of a hand-held non-differential GPS integrated with a palm computer equipped for data collection and with a camera.

Samplers navigated to waypoints supplied by Redtail Metals. Lines were not flagged; only the sample sites/stations were marked with blue and orange flagging and with a labelled tyvek tag. At each sample site, a hole was dug with a soil auger or a mattock. The target was the bottom of the B horizon, where developed. The soil was collected in a paper Kraft bag; the geographic location, sample characteristics were recorded and a sample photograph was recorded.

Field duplicates were planned to be collected at frequency of every 50 samples. These consisted of a second sample collected from a separate pit located within a few meters from the original sample site.

Samples were shipped out to Whitehorse, in rice bags sealed with security tags. These were stored in Aurora's care until they were shipped to Acme Laboratories in Whitehorse by Predator Mining Group staff.

ASSAY METHODOLOGY

Samples were analysed by ICP-MS (Acme Group 1DX2) whereby a 15g sample of pulp is leached in a hot Aqua Regia solution and analysed for a suite of 36 elements. Any samples that would return gold grades > 1g/t, or over-limit grades for Cu, Pb or Zn were to be re-analysed by a more appropriate assay method.

RESULTS

The sample location map and geochemical maps for Cu, Zn, Pb and Ag are found in Appendix F.

COPPER

Some elevated copper values were obtained at the SW edge of the 2011 grid, as well as at its southern end of the northern grid, which correlates with the potential strike extent of the HS showing. Although the geochemical values have not been normalized across the numerous soil surveys, areas of high values for all surveys are outlined as pink outlines on the Cu map, which are transferred on maps for the other elements, in order to help correlate the areas of high Cu in soils with other elements. Most of these areas occur in the Fire Lake mafic metavolcanic unit, but one area straddles the contact between the Fire Lake and felsic Kudz Ze Kayah unit, while another one lies near the top of the Kudz Ze Kayah unit.

ZINC

Elevated values in zinc correlate with two of the copper anomalies located in the Fire Lake mafic metavolcanic unit, and one of them may line up with the strike extent of the HS showing.

A broad area of slightly anomalous zinc values occur at the south end of the grid, an area not anomalous in copper, but which has elevated values in lead.

LEAD

Lead values are low throughout the grid, except at the southernmost end, where they correlate with anomalous zinc but not copper.

SILVER

Silver values are very low. A weak relative high occurs at the southernmost edge of the 2011 grid,

CONCLUSIONS AND RECOMMENDATIONS

Anomalous Cu-Zn geochemistry seems to be hosted mainly in the mafic Fire Lake metavolcanic unit and may also be related to the conformable contact between this mafic unit and the overlying felsic metavolcanic units, a Kuroko-type VMS setting. Descriptions of the HS showing point to a structural component to the mineralization. Perhaps the anomalous geochemistry is related to a structure that is near parallel to the contact between the mafic and the felsic metavolcanic units. The southeast VTEM conductor correlating with the 1C showing seems to trend parallel to this geochemical trend. This area remains interesting and its potential should be evaluated by field checking the information gathered to date.

Geochemical results over the ultramafic intrusion did not yield any anomalies. The VTEM conductor located in this area may then simply be due to graphite or serpentine in a fault. The ultramafic unit does not appear to host any significant anomalies.

The southern portion of the 2011 grid shows no copper anomalies but does show a correlation between Zn- Pb and weak Ag. This area is underlain by the felsic Kudz Ze Kayah metavolcanic unit and its contact with the underlying mafic unit; perhaps a different setting for mineralization on the 4C remains to be discovered.

Gaps in anomalous trends could perhaps be explained by faulting and offsets. Mapping of the property could help determine this, if outcrop would allow.

The property has received several phases of explorations but these appear patchy and focusing on small areas at a time. Ground-truthing the historical data and of these new soil results is necessary in order to put this information into a geological context and evaluate if a target of a potentially economic size could occur. Until then, conclusions are only speculative.

All geochemical data should be compiled in one digital layer so that data of different vintages could be normalized.

Signed,

Danièle Héon

Senior Geologist- RedtailMetals

Whitehorse, July 24, 2012

REFERENCES

Digital data as provided by the Yukon Geological Survey, in particular:

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- Gordey, S.P., Makepeace, A.J., (compilers), , [2003-9\(D\), Open File \(Geological - Bedrock\); Yukon Digital Geology \(version 2\)](#) Yukon Geological Survey.
- Mineral Claims (Yukon Mining Recorder) <http://www.yukonminingrecorder.ca/>
- Yukon Geological Survey, 2011. YGS Mapmaker online <http://maps.gov.yk.ca/imf.jsp?site=YGS>

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Wengzynowski, W.A., 2006; Geology, mineralization and geochemistry on the Four Corners property; assessment report for Strategic Metals Ltd.

Wengzynowski, W.A., 2007; VTEM geophysical surveys at the Four Corners property; assessment report for Strategic Metals Ltd.

STATEMENT OF QUALIFICATIONS

I, Danièle Héon, of:

12 Marigold Place
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hereby certify that:

1. I am a geologist with Redtail Metals Corp, with head office address at 11th floor, 888 Dunsmuir, Vancouver, B.C.
2. I am a graduate of McGill University, Montréal, Québec, with a degree in geology (B.Sc., 1983) and have been involved in geology and mineral exploration in Canada since 1979 and in the Yukon since 1990.
3. I am registered as a professional geoscientist with the Ordre des Géologues du Québec (no. 1510).
4. I am a member of the Yukon Chamber of Mines and of the Society of Economic Geology.
5. I am the author of this report on the 4C East property and that I have compiled the data and supervised the work described but I have not visited the property.
6. This report is intended to satisfy assessment requirements only.

Danièle Héon

July 24, 2012

APPENDIX A- CLAIM DATA

District	Grant Number	Claim Name	Claim Nbr	Claim Owner	NTS MapNumber	Renew ed to Date
Watson Lake	YC22874	4C	289	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22875	4C	290	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22876	4C	291	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22877	4C	292	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22924	4C	357	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22925	4C	358	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22926	4C	359	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22927	4C	360	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22950	4C	383	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22951	4C	384	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22952	4C	385	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22953	4C	386	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC23114	4C	409	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC23115	4C	410	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC23116	4C	411	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC23117	4C	412	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22994	4C	435	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22995	4C	436	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22996	4C	437	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC22997	4C	438	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC28800	4C	439	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29001	4C	440	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29002	4C	441	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29003	4C	442	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29004	4C	443	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29005	4C	444	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29006	4C	445	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29007	4C	446	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29008	4C	447	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29009	4C	448	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29010	4C	449	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC29011	4C	450	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97695	4C	451	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97696	4C	452	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97697	4C	453	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97698	4C	454	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97699	4C	455	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97700	4C	456	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97701	4C	457	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97702	4C	458	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97703	4C	459	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YC97704	4C	460	Redtail Metals Corp. - 100%	105G01	13/03/2019
Watson Lake	YD33847	4C	461	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33848	4C	462	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33849	4C	463	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33850	4C	464	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33851	4C	465	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33852	4C	466	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33853	4C	467	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33854	4C	468	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33855	4C	469	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33856	4C	470	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33857	4C	471	Redtail Metals Corp. - 100%	105G01	09/03/2017

District	Grant Number	Claim Name	Claim Nbr	Claim Owner	NTS MapNumber	Renew ed to Date
Watson Lake	YD33858	4C	472	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33859	4C	473	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33860	4C	474	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33861	4C	475	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33862	4C	476	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33863	4C	477	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33864	4C	478	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33865	4C	479	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33866	4C	480	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33867	4C	481	Redtail Metals Corp. - 100%	105G01	09/03/2017
Watson Lake	YD33868	4C	482	Redtail Metals Corp. - 100%	105G01	09/03/2017

APPENDIX B- MINFILE DESCRIPTIONS

MINFILE#: 105G 146
UPDATED: 2009-08-11
PRIMARY NAME: IC
DEPOSIT TYPE: Volcanogenic Massive Sulphide - type not determined
STATUS: SHOWING
TECTONIC ELEMENT: YUKON-TANANA TERRANE

NTS MAP SHEET: 105G\1
LATITUDE: 61° 01' 12"
LONGITUDE: 130° 03' 04"

OTHER NAME(S): FOUR CORNERS
MAJOR COMMODITIES: COPPER, LEAD, ZINC
MINOR COMMODITIES: GOLD, SILVER
TRACE COMMODITIES:

CLAIMS(PREVIOUS & CURRENT)

4C, IC

WORK HISTORY

Staked as IC cl 1-28 (YB89707) in Aug/97 by Cominco Ltd. The claims were staked to cover airborne geophysical targets identified during a Cominco survey flown in 1995. The company carried out preliminary geological mapping and soil and silt sampling later in the year. In 1998 Cominco continued exploring the claims with special attention given to the area surrounding the IC Creek showing.

In Dec/2002 Strategic Metals Ltd staked 4C cl 1-438 (YC22680) in two large claim blocks; the first (West Block) located directly northwest and the second (East Block) located approximately 5 km southeast of this occurrence. In Jan/2003 Strategic Metals optioned a 50% interest in the claims to Firestone Ventures Inc which carried out a grassroots geological mapping, rock, soil and stream sediment sampling and prospecting program later in the year. In Feb/2004 Firestone Ventures terminated the option and returned the claims to Strategic Metals. In Dec/2004 Strategic Metals allowed the East Block of claims to lapse.

Restaked within 4C claims 439-450 (YC28800) in Jul/2005 by Strategic Metals which immediately carried out geological mapping, prospecting and grid soil sampling on the entire West Block of claims. In the spring of 2006 the company flew an airborne versatile time domain electromagnetic system (VTEM) and cesium magnetometer geophysical survey over the claims.

GEOLOGY

The majority of the two 4C claim blocks straddles the southeast corner of topographic map sheet 105G 01 and the northwest corner of map sheet 105A 13. A small number of outlying claims fall on

topographic map sheets 105B 16 and 105H 04. D. Murphy and others (2004) of the Yukon Geological Survey remapped topographic map sheet 105G 01 and 02 as part of Murphy's larger Finlayson Lake District mapping program. J. Mortensen of the University of British Columbia and D. Murphy released a geological compilation in 2005, which included topographic map sheet 105A 13. In addition various geologists employed by Firestone Ventures and Strategic Metals carried out reconnaissance geological mapping over the claim blocks.

Based on geological mapping carried out by the Yukon Geological Survey and various industry geologists the area is underlain by Upper Devonian metaclastic rocks (unit DNR) of the North River formation. The metaclastics are overlain by mafic and felsic metavolcanic rocks (units DF and DFf) assigned to Upper Devonian Fire Lake formation. The Fire Lake formation is intruded by voluminous Late Devonian serpentinized ultramafic rocks (unit Dum). A large Early Cretaceous granitic intrusion intrudes the sequence west of the claim block but numerous small related granitic intrusions occur throughout the claim block.

Prospecting in 1997 located the IC Showing (this occurrence) described by Cominco as a "stratiform" pyrite showing hosted within very siliceous felsic exhalite and argillite (unit DF). It consists of rusty banded massive pyrite (1 to 15 cm bands) with trace sphalerite and galena. Grab samples collected from the showing returned values up to 0.8% lead and 0.2 % zinc.

Follow-up soil sampling carried out in the vicinity and up slope of the showing identified a 300 m wide by 1 000 m long lead-zinc-silver anomaly that returned values up to 825 ppm lead, 571 ppm zinc and 5.9 ppm silver. Anomalous copper values (up to 393 ppm) also occur locally.

The 4C claims known as the Four Corners option were staked for their potential to host emerald mineralization similar to that discovered in 1998 at Regal Ridge (Minfile Occurrence #105G 147) located approximately 42 km northwest of this occurrence. At Regal Ridge emerald occurs with tourmaline within and alongside quartz veins that cut mafic metavolcanic schists (unit DF) and ultramafic rocks (unit Dum). Fluids responsible for vein formation are related to a nearby granitic stock. The host rocks and granitic stock at Regal Ridge are correlated to units on the Four Corners property.

The majority of work carried out in 2003 was carried out on the West Block of claims. It appears poor results obtained from the East Block in Phase 1 of the exploration program led Firestone to focus their efforts on the West Block of claims. Phase 2 fieldwork outlined 4 zones of anomalous beryllium in soil on the West Block. The most promising area is zone 4 in the Western Ridge area. It measures 200 by 100 m and is defined by beryllium values ranging from 1.5 ppm up to 7.7 ppm and chromium values up to 160 ppm. Rocks in the area consist of rusty golden weathering schist within the Devonian Fire Lake unit, containing abundant black tourmaline and quartz-tourmaline veins. Beryl mineralization was discovered in a tourmaline-bearing pegmatite intruding Devonian Fire Lake chlorite schist in the Central ridge area. One of the beryl crystals is euhedral, opaque to translucent, pale blue-green, 1.3 cm in

diameter and 1.7 cm in length. Beryl of this type is characterized as non-gem quality aquamarine. The area is unusual in that there are no significant beryllium or chromium soil anomalies associated with the beryl mineralization.

Exploration also located two areas of anomalous gold values. The first zone consists of a 100 m long gold bearing silica altered talus train that cuts across chlorite schist. A chip sample composed of several chips from two, 70 cm diameter boulders of green chalcedony assayed 4.28 g/t gold and 2.64 g/t silver. The second occurrence consists of disseminated pyrite and arsenopyrite in a 3 to 5m thick dark grey siliceous horizon located within a section of chlorite schist. The horizon was not sampled but rusty soil collected a few metres uphill returned a strongly anomalous value of 591 ppb gold. Firestone also relocated and re-examined the original IC showing.

Strategic Metals 2005 exploration program was focused on the northeast side of the Western Claim block and was aimed at evaluating the volcanogenic massive sulphide (VMS) potential of the claims. In addition to re-examining the IC showing (this occurrence) prospecting lead to the discovery of the HS showing. The HS showing is located approximately 750 m north of the IC showing and mineralization consists of limonite boxwork and limonitic chlorite schist float discovered in a small vegetation 'kill zone' overlying poorly exposed mafic metavolcanic rocks. The mineralization is also located at the eastern end of a 2 000 m long zone of moderate to strong copper-in soil response. Samples of the strongly oxidized and leached mineralization assayed between 0.58 and 0.97% copper. The best anomalous silver values occur 1 000 m west and parallel to the copper anomaly. The best cobalt values lie immediately west of the silver values. This progressive shift west of anomalous silver and cobalt values may indicate some form of primary metal zoning within the Fire Lake (unit DF) strata.

The 2006 airborne versatile time domain electromagnetic system (VTEM) and cesium magnetometer geophysical survey outlined four distinct conductor axes all contained within the Fire Lake unit. Two of the conductors occur in the vicinity of the HS and IC showings. The other two conductors occur along the contact between Fire Lake mafic volcanic strata and the ultramafic unit at the western end of the soil grid and are supported by strong copper-in-soil response and a moderately strong but well defined, linear magnetic anomaly.

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APPENDIX C- HISTORICAL GEOCHEM

APPENDIX D- AURORA GEOSCIENCES FIELD REPORT



AURORA GEOSCIENCES LTD.

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To: Daniele Heon
Golden Predator Canada Corp.

Date: July 7 2011

From: Mac Clohan

Re: Bolt and Salt Soil Sampling Program (GPD-11510-YT)

This memorandum describes the soil sampling program completed on the Bolt and Salt Properties, located near Francis Lake, on NTS Map Sheet 105G/08 and 105G/09 for the Bolt East Grid, 105G/08 for the Bolt West Grid, 105G/01 for the 4C grid, and 105H/06 for the Salt Grid. Two crews mobilized from Whitehorse on June 11th 2011 and began conducting the sampling program on June 12th 2011. The first part of the program involved both crews working out of the same camp on the Bolt West Grid. After the grid was finished, the crew's separated and Mac's crew worked on the Bolt East Grid and the Salt Grid while Shawn's crew worked on the 4C grid. The Bolt West Grid involved 664 sample stations, Bolt East 601 sample stations, 4C 715 sample stations, and the Salt grid 383 sample stations.

a. Personnel & equipment. The program was conducted by the following personnel:

Crew Chief Field Technician	Shawn Scott Shawn Crawford Corey Straker Brandon Webster
Crew Chief Field Technician	Mac Clohan Stefan Gronsdahl James Morrison Will Joe

The crew was equipped with the following:

Gear: 2x4 - Person summer camp
2x1 - SAT Phone
2x4 - Radios
2x4 – Trimble with TerraSync soil sampling software

Soil Sampling: Mattocks
Soil Augers
Soil sample bags

	Rice bags
	Flagging
	Permanent Markers
<u>Other:</u>	2x 1000W Honda generator
	2x Chain saw
	Pick, axe and shovels
	2x Standard camp tool box
	2x Standard office tool box
<u>Computer:</u>	Dell Laptop (FL-138)
	Dell Laptop (FL-126)

b. Project operations.

Two crews left Whitehorse for the staging area (198km up the Robert Campbell Highway) on June 11th 2011 and mobilized to a joint camp at location 442720E 6816794N (UTM NAD83 Zone 09N) on June 12th. The camp was on the SW corner of Bolt West “grid”. A physical grid was not established on any of the sampled areas – all sample stations were at pre-loaded GPS waypoints on a virtual grid. The crews walked to the “grid” daily to collect samples; when a helicopter was available for other reasons, it was used to access the far corner of the grid. The first part of the sampling program was conducted from June 13th to June 17th on the West Grid with a fill line sampled on June 19th due to weather preventing the camp mob to the 4C grid.

The two crews then split up on June 18th with Mac’s crew moving on to the Bolt East Grid, while Shawn’s crew was weathered in for five days before mobilizing to the 4C grid on June 23rd.

Mac’s crew set up camp on the Bolt East Grid on June 18th (location 445900E 6819185N NAD83 Zone 09N). The camp was located in the centre of the grid and the crew walked to the “grid”; when a helicopter brought Danielle Heon into the grid on June 23rd, it was used to access the far corner of the grid. The Bolt East grid was sampled from June 19th to June 27th except for a weather day on June 22nd.

Shawn’s crew moved from Bolt West to the 4C grid on June 23rd and set up camp (location 441850E 6766150N NAD83 Zone 09N). The crew sampled from June 24th to July 2nd when the crew and camp were demobilized, via helicopter, to a staging area 153km up the Robert Campbell Highway. The crew was met by a driver and truck that took the crew back to Whitehorse on the same day.

Mac’s crew remobilized to the Salt grid on June 28th and set up camp (location 481097E 6811324N NAD83 Zone 09N) on the same day. The camp was located on the south end of the grid and the crew walked to the “grid” every day. The “grid” was sampled from June 29th to July 4th except for a weather day on June 30th.

Mac’s crew demobilized from the Salt Grid back to Whitehorse on July 5th. A helicopter transported the gear and crew to a staging area located 153km up the Robert Campbell

where a truck (driven by Charles Turanich-Noyen) took the crew back to Whitehorse.

A Trans North Helicopters machine under contract to Golden Predator Corp. was used to mobilize, remobilize, and demobilize both crews to all four camps.

c. Terrain

The Bolt West grid was a large grid extending over a valley running roughly E-W and the broad flat ridge on the North side of the valley, and the steep valley slope on the south side. Generally the ground was rocky with difficult and slow sampling productivity. Most “no sample” sites were due to the rocky ground; however a portion of the “no samples” sites were because of frozen ground. The slopes were all steep and covered in extremely thick willows, thus making progress extremely slow. The north facing slope on the south side of the valley was cut with cliffs which prevented sampling and slowed progress.

Long dead walks to and from the lines took up large portions of the day because of a lack of quality campsites located centrally on the grid. In hindsight, it probably would have been more efficient to camp in a less than ideal spot in a central location because it would have minimised walking through difficult terrain while bogged down with samples.

The Bolt East grid was located on the western face of a ridge system. The southern half of the grid, roughly lines M to W, yielded good quality samples with only isolated rocky patches that prevented sampling. The northern half of the grid was basically a giant boulder field which was covered in vegetation in some parts. The extremely rocky ground prevented good soil profile development and made sampling extremely slow or impossible. The samples collected in this area were mostly small pockets of soil trapped in between boulders. Cliffs near the peak of the mountain at the start of line A and B hampered sampling in some places. Also on the north side of the grid a small braided stream roughly 100-150m wide flowed parallel to lines intersecting lines D, E, F, G, and H. This created a bizarre sort of inclined marsh, in places, where there was only organics and rocks: no proper soils. The bush varied from dense willows higher up the slope, to partially open mixed forest lower down. The campsite was centrally located on one of the few flat spots on the property and it worked out quite well.

The Salt grid was located on a mostly flat bench on the eastern bank of the eastern fork of Francis Lake. The soil was mostly all till, with a few isolated pockets of weathered bedrock on the northern most ends of the lines. While not steep, the bush was extremely thick and covered in mazes of deadfall, particularly on the northern parts of lines F through M. The central parts of lines I through M, located in an old burn that is now mostly a marsh, lead to a large swath of “no samples”. The remainder of the “no samples” were generally caused by isolated pockets of bad ground or one of the many small creeks that criss-crossed the grid. While there was plenty of fresh water around, there were very few practical places to camp due to the thickness of brush. The crew managed to camp on a small ridge that was less thick with brush and cut out a camp site. It was not an ideal location, as there was not a close water source and the site was not centrally located on the grid, however, there were no other better locations on the “grid”.

d. Sampling. A summary of the sampling program and samples taken is outlined in the table below.

GRID	Total Stations	“No Sample”	Samples sent to Lab
Bolt West	660	105	555
Bolt East	602	135	467
4C	716	184	532
Salt	383	62	321
Totals	2361	486	1875

Soil samples were taken on lines spaced at 200m intervals on the Bolt East grid and 100m intervals on the Bolt East, 4C and Salt Grids with stations every 50m. Stations were marked with blue and orange flagging, and the line was flagged in between stations

All sample stations were located using a non-differential GPS and recorded as UTM NAD83 Zone 09V coordinates.

Samples from all four grids were sent with crew to Whitehorse for preparation for shipment to Acme Laboratories in Whitehorse for analysis.

e. Preliminary products. The following figures are attached to this report:

Georeferenced Sample Information	Bolt East Final Soil Sampling Datasheet.xls Bolt West Final Soil Sampling Datasheet.xls 4C Final Soil Sampling Datasheet.xls Salt Final Soil Sampling Datasheet.xls
Crew Log	GPD-11510-YT Crew Log SS.pdf GPD-11510-YT Crew Log MC.pdf
Maps	Bolt East Final Soil Sampling.pdf Bolt West Final Soil Sampling.pdf 4C Final Soil Sampling.pdf Salt Final Soil Sampling.pdf
Backup & Reference Data	Sample Shipping Records Folder Raw data from Trimble

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Mac Clohan
Field Technician

APPENDIX E- SOIL SAMPLE DATA

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159013		441844.8	6767787	1194.78		30-40	C	10-15	Light Brown	0	30	30	35	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159014		441800.4	6767767	1212.767		30-40	C	10-15	Light Brown	0	30	30	35	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159015		441751.7	6767739	1206.263		30-40	C	10-15	Dark Brown	0	40	25	20	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159016		441713.6	6767721	1215.075		50-60	B/C	10-15	Dark Grey	0	10	15	75	0	(glacio)-lacustrine	Wet	Mixed forest	Mid Slope
1159017		441600.6	6767615	1224.351		30-40	C	15-20	Light Brown	0	55	20	15	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159018		441554.9	6767591	1238.208		20-30	C	10-15	Light Brown	0	50	10	20	20	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159019		441517.6	6767561	1254.467		20-30	C	10-15	Light Brown	0	40	20	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159020		441473.2	6767535	1260.736		20-30	C	10-15	Light Brown	50	15	20	0	15	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159021		441431.1	6767503	1255.71		20-30	C	10-15	Dark Brown	0	45	30	15	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159022		441353.7	6767445	1290.565		20-30	C	5-10	Light Brown	0	50	55	5	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159023		441318.7	6767408	1301.05		20-30	C	5-10	Light Brown	5	40	10	25	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159024		441269.5	6767379	1305.565		30-40	C	15-20	Light Brown	5	40	15	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159025		441237.9	6767352	1297.338		30-40	C	15-20	Light Brown	0	30	10	40	20	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159026		441159.6	6767294	1304.72		30-40	C	10-15	Dark Grey	0	15	15	70	0	(glacio)-lacustrine	Partially Frozen	Mixed forest	Mid Slope
1159027		441029.6	6767189	1291.927		40-50	C	15-20	Dark Brown	0	30	20	50	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159028		441753.1	6766118	1693.362		20-30	C	10-15	Dark Brown	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159029		441781.3	6766160	1684.239		30-40	C	5-10	Dark Brown	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159030		441815.4	6766200	1693.736		30-40	C	10-15	Light Brown	0	50	10	15	25	Talus/colluvium	Moist	Alpine	Mid Slope
1159031		441854.3	6766232	1717.243		30-40	C	10-15	Dark Brown	0	30	15	45	10	Talus/colluvium	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159032		441896.5	6766251	1733.139		50-60	C	10-15	Dark Grey	0	20	20	60	0	Weathered bedrock	Wet	Alpine	Mid Slope
1159033		441955.2	6766266	1729.313		40-50	C	10-15	Dark Brown	0	30	20	50	0	Weathered bedrock	Dry	Alpine	Mid Slope
1159034		442005.2	6766280	1717.882		30-40	C	5-10	Dark Grey	0	40	10	50	0	Weathered bedrock	Wet	Alpine	Mid Slope
1159035		442058.6	6766291	1685		40-50	C	15-20	Dark Brown	0	20	40	40	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159036		442078.7	6766342	1659.921		40-50	C	15-20	Dark Brown	0	40	30	30	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159037		442121	6766369	1627.38		40-50	C	10-15	Dark Brown	0	50	25	25	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159038		442164.4	6766399	1609.497		10-20	C	5-10	Light Brown	10	50	20	10	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159039		441575.9	6766365	1586.085		30-40	C	10-15	Dark Brown	0	40	15	30	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159040		441620.5	6766386	1619.726		50-60	C	20-25	Dark Grey	0	30	20	50	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159041		441657.1	6766413	1648.149		30-40	C	10-15	Dark Brown	0	50	30	15	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159042		441706.3	6766440	1689.381		40-50	C	15-20	Dark Grey	0	40	10	40	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159043		441744.7	6766474	1731.043		40-50	C	15-20	Light Grey	10	40	20	30	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159044		441843.1	6766578	1831.992		10-20	C	2-5	Dark Brown	0	30	30	10	0	Talus/colluvium	Moist	Alpine	Mid Slope
1159045		441897.5	6766601	1844.079		20-30	C	5-10	Light Brown	0	30	30	30	10	Weathered bedrock	Dry	Alpine	Mid Slope
1159046		441988.2	6766643	1819.863		10-20	B/C	5-10	Dark Brown	0	60	20	10	10	Weathered bedrock	Moist	Alpine	Ridge Top
1159047		442029	6766684	1804.224		10-20	C	5-10	Dark Brown	10	30	20	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159048		442060.1	6766716	1780.938		30-40	C	15-20	Light Brown	0	40	25	25	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159049	1159050	442101.8	6766752	1754.793		30-40	C	10-15	Light Brown	0	60	20	15	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159050	1159049	442099.8	6766750	1759.44		30-40	C	10-15	Light Brown	0	60	20	10	10	Weathered bedrock	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159051		441908.1	6767095	1529.64		40-50	C	15-20	Dark Brown	0	40	40	10	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159052		441954.7	6767121	1523.265		20-30	C	5-10	Dark Brown	0	30	35	10	25	Weathered bedrock	Moist	Alpine	Mid Slope
1159053		441999	6767147	1516.59		40-50	C	15-20	Dark Brown	0	35	35	10	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159054		442042.2	6767181	1531.726		40-50	C	15-20	Dark Brown	0	35	35	20	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159055		442156.6	6767270	1492.246		50-60	C	25-30	Dark Brown	10	35	35	15	5	Till	Moist	Alpine	Mid Slope
1159056		442198.3	6767297	1466.747		50-60	C	25-30	Dark Brown	0	60	30	0	10	Till	Moist	Alpine	Mid Slope
1159057		442260.6	6767212	1509.747		20-30	C	15-20	Light Brown	0	50	25	0	25	Weathered bedrock	Moist	Alpine	Mid Slope
1159058		442215.9	6767197	1536.429		20-30	C	15-20	Light Brown	0	50	25	0	25	Weathered bedrock	Moist	Alpine	Mid Slope
1159059		442124.8	6767135	1577.273		30-40	C	10-15		10	30	30	10	20	Weathered bedrock	Moist	Alpine	Mid Slope
1159060		442019.1	6767037	1594.041		40-50	C	10-15	Light Brown	0	50	30	10	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159061		440639.6	6767411	1112.592		50-60	C	20-25	Light Grey	5	25	50	15	10	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159062		440673.2	6767448	1121.758		50-60	C	20-25	Light Grey	5	30	50	15	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1159063		440716.2	6767478	1132.895		50-60	C	20-25	Dark Brown	5	40	40	0	15	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1159064		440759.4	6767502	1130.96		50-60	C	20-25	Dark Brown	5	40	40	15	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1159065		440805.9	6767526	1142.599		50-60	C	20-25	Dark Brown	5	40	40	15	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159066		440846.7	6767560	1146.845		30-40	B/C	10-15	Dark Brown	20	30	30	5	15	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159067		440880.5	6767593	1151.564		60-70	C	10-15	Dark Brown	20	30	30	5	15	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159068		440966.8	6767646	1162.283		40-50	C	20-25	Dark Brown	0	25	25	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159069		441005.2	6767681	1165.114		40-50	C	20-25	Dark Brown	0	25	25	50	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159070		441048.8	6767704	1165.972		40-50	C	25-30	Dark Grey	0	30	30	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159071		441079.4	6767733	1167.597		60-70	C	25-30	Dark Grey	0	40	40	20	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159072		441127	6767769	1172.947		60-70	C	25-30	Dark Grey	0	40	40	20	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159073		441159.7	6767806	1163.415		60-70	C	25-30	Dark Grey	0	40	40	20	0	Till	Moist	Mixed forest	Mid Slope
1159074		441209.2	6767823	1164.4		30-40	C	15-20	Light Brown	0	45	45	10	0	Till	Moist	Mixed forest	Mid Slope
1159075		441249.9	6767843	1164.923		50-60	C	25-30	Light Grey	0	45	45	10	0	Till	Moist	Mixed forest	Mid Slope
1159076		441289.2	6767881	1152.866		40-50	C	20-25	Light Grey	0	45	45	10	0	Till	Moist	Mixed forest	Mid Slope
1159077		441336.6	6767908	1150.293		40-50	C	20-25	Light Grey	0	45	45	10	0	Till	Moist	Mixed forest	Mid Slope
1159078		441372.9	6767939	1144.472		60-70	C	25-30	Light Grey	10	45	45	0	0	Till	Moist	Mixed forest	Mid Slope
1159079		441399.6	6768077	1129.727		60-70	C	25-30	Light Brown	10	35	35	20	0	Till	Moist	Mixed forest	Valley Lowland
1159080		441305.6	6768016	1134.904		60-70	C	25-30	Light Brown	0	55	50	0	0	Till	Moist	Mixed forest	Valley Lowland
1159081		441232	6767950	1133.626	camera showing symptoms of fatigue, not responding besides repeating itself. i done tried.	40-50	C	15-20	Light Brown	0	50	50	0	0	Till	Wet	Mixed forest	Valley Lowland
1159082		441112.1	6767878	1139.041		40-50	B	10-15	Light Grey	5	30	45	20	0	(glacio)-fluvial	Wet	Mixed forest	Valley Lowland
1159083		442460.7	6766751	1516.541		50-60	C	10-15	Light Brown	0	30	30	30	10	Till	Dry	Mixed forest	Mid Slope
1159084		442383.5	6766691	1540.794		20-30	B/C	5-10	Light Brown	0	20	15	25	30		Dry	Mixed forest	Mid Slope
1159085		442338.4	6766662	1559.623		20-30	B/C	5-10	Light Brown	0	20	15	25	30		Dry	Alpine	Mid Slope
1159086		442258.5	6766605	1601.276		20-30	B/C		Light Brown	0	25	20	25	30	Weathered bedrock	Dry	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159087		442182.3	6766539	1660.299		20-30	B/C	5-10	Light Brown	5	30	25	10	20			Alpine	Mid Slope
1159088		442137.5	6766503	1673.755		20-30	B/C	5-10	Light Brown	0	30	25	10	35			Alpine	Mid Slope
1159089		442200.3	6766427	1608.339		30-40	C	15-20	Light Brown	0	50	0	25	25	Till	Dry	Mixed forest	Mid Slope
1159090		442281.4	6766494	1588.844		30-40	B/C	5-10	Dark Brown	0	45	0		55	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159091		442323.6	6766525	1558.174		30-40	B/C	5-10	Dark Brown	0	45	0		55	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159092		442404.6	6766587	1519.806		30-40	B/C	5-10	Dark Brown	0	55	0		45	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159093		442438.8	6766609	1513.877		30-40	B/C	5-10	Dark Brown	0	55	0		45	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159094		442479.5	6766642	1489.972		30-40	B/C	5-10	Dark Brown	0	55	0		45	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159095		442526.9	6766661	1467.63		30-40	B/C	5-10	Dark Brown	0	55	0		45	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159096		442557	6766695	1453.729		30-40	B/C	5-10	Dark Brown	0	55	0		45	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159097		442427.3	6767035	1612.431		50-60	B/C	15-20	Dark Brown	0	50	0		50	Weathered bedrock	Dry	Alpine	Ridge Top
1159098		442705.5	6767338	1393.287		50-60	C	15-20	Dark Brown	0	35	10	15	40	Weathered bedrock	Dry	Alpine	Mid Slope
1159099		442767.3	6767398	1316.831		50-60	C	15-20	Light Brown	0	60	10	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159100		442842.5	6767473	1287.677		30-40	C	15-20	Light Brown	0	20	0	80	0		Dry	Mixed forest	Valley Lowland
1159101		440786.6	6767629	1123.677		60-70	B/C	20-25	Light Brown	10	35	25	30	0	Till	Wet	Mixed forest	Valley Lowland
1159103		441324.9	6766800	1489.69		40-50	C	10-15	Light Brown	5	40	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159104		441362	6766834	1511.589		30-40	C	10-15	Light Brown	5	50	15	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159105		441406.7	6766862	1529.819		30-40	C	10-15	Light Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159106		441447.9	6766885	1557.267		30-40	C	10-15	Light Brown	5	50	20	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159107		441520.2	6766935	1566.465		20-30	C	10-15	Light Brown	0	50	15	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159108		441609.3	6767024	1582.835		20-30	C	10-15	Light Brown	5	50	15	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159109		441641.2	6767039	1580.623		20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159110		441701.3	6767061	1586.441		20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159111		441744	6767076	1585.275		20-30	C	10-15	Light Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159112		441769.5	6767103	1553.486		20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159113		441856.4	6767179	1485.6		30-40	C	10-15	Light Brown	5	60	10	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159114		441900.3	6767212	1444.393		20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159115		441974.4	6767265	1427.665		20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159116		442109.7	6767348	1426.447		20-30	C	10-15	Light Brown	5	50	25	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159117		442476.4	6766898	1559.334		30-40	C	10-15	Light Brown	5	40	25	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159118		442366.4	6766796	1589.718	too steep for shot w/dirt	20-30	C	10-15	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159119		443262.9	6767189	1361.039		30-40	C	10-15	Light Brown	5	50	20	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159120		443281	6767130	1382.415		10-20	B/C	2-5	Light Brown	10	50	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159121		443296.1	6767064	1401.205		10-20	B/C	2-5	Light Brown	10	50	20	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159122		443298	6767034	1409.374		10-20	B/C	2-5	Light Brown	10	35	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159123		443302.4	6766923	1454.933		30-40	B	5-10	Light Brown	10	35	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159124		443291.4	6766876	1475.899		30-40	B	5-10	Light Brown	10	35	25	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159125		443312.3	6766756	1515.179		20-30	B/C	10-15	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159126		443311.6	6766705	1535.991		20-30	B/C	2-5	Light Brown	10	30	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159127		443313.2	6766590	1583.447		20-30	B/C	2-5	Light Brown	10	35	20	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159128		443293	6766550	1608.36		20-30	C	2-5	Light Brown	10	45	20	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159129		443273.3	6766495	1619.781		30-40	C	5-10	Light Brown	10	40	20	30	0	Weathered bedrock	Dry	Mixed forest	Ridge Top
1159130		443225.3	6766407	1631.968		20-30	B/C	5-10	Light Brown	10	35	15	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159131		443186.2	6766386	1638.571		20-30	B/C	5-10	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159132		443101.4	6766309	1612.207		20-30	B/C	5-10	Yellow	5	30	20	45	0	Weathered bedrock	Moist	Mixed forest	Ridge Top
1159133		443227.1	6764471	1492.994		30-40	C	5-10	Light Brown	5	40	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159134		443278.7	6764508	1499.793		30-40	C	5-10	Light Brown	10	40	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159135		443312.2	6764538	1509.811		20-30	C	2-5	Light Brown	10	40	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159136		443352.8	6764571	1497.306		20-30	C	2-5	Light Brown	10	50	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159137		443765	6764851	1281.595		50-60	C	5-10	Light Brown	5	55	10	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159138		443834.8	6764916	1260.752		30-40	C	5-10	Light Brown	5	65	10	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159139		443882.5	6764956	1231.584		30-40	C	5-10	Light Brown	5	55	10	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159140		443919.5	6764969	1222.524		30-40	C	5-10	Light Brown	5	60	10	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159141		443956	6764998	1199.583		30-40	C	5-10	Light Brown	5	55	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159142		444000.9	6765024	1186.105		30-40	C	5-10	Light Brown	10	60	10	20	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159143		443969.6	6765134	1195.929		30-40	C	5-10	Light Brown	10	55	15	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159144		443924.4	6765079	1210.29		30-40	B/C	5-10	Dark Brown	10	35	30	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159145		443886	6765053	1230.406		30-40	B/C	5-10	Dark Brown	10	45	20	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159146		443841.3	6765012	1258.062		30-40	C	5-10	Light Brown	10	50	15	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159147		443802.3	6764995	1276.673		30-40	C	5-10	Light Brown	5	60	15	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159148		443756.7	6764973	1300.963		40-50	C	10-15	Light Brown	10	60	15	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159149		443725.4	6764944	1324.386		30-40	C	10-15	Light Brown	10	60	15	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159150		442397.6	6767005	1642.265		10-20	C	2-5	Light Brown	5	60	15	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159151		441088.7	6767979	1121.897	poor sample of wet clays	20-30	B/C	10-15	Dark Brown	0	10	10	80	0	(glacio)-fluvial	Wet	Mixed forest	Valley Lowland
1159152		440927.3	6767867	1126.759		20-30	C	15-20	Light Brown	0	40	25	35	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159153		440812.9	6767787	1114.694		50-60	C	10-15	Light Grey	0	30	20	50	0	(glacio)-fluvial	Dry	Mixed forest	Valley Lowland
1159154		441229.5	6766848	1423.234		30-40	C	15-20	Dark Grey	0	40	20	40	0	Till	Moist	Mixed forest	Mid Slope
1159155		441260.9	6766884	1438.422		20-30	C	10-15	Dark Brown	0	50	25	15	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159156		441304.9	6766912	1467.081		20-30	C	10-15	Dark Grey	0	30	20	50	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159157		441343	6766945	1478.605		30-40	C	10-15	Dark Brown	0	40	20	20	20	Weathered bedrock	Moist	Alpine	Mid Slope
1159158		441385.6	6766967	1497.753		10-20	C	5-10	Dark Brown	0	50	15	10	25	Talus/colluvium	Moist	Alpine	Mid Slope
1159159		441430.7	6766993	1513.31		20-30	C	5-10	Dark Brown	0	50	20	10	20	Talus/colluvium	Moist	Alpine	Mid Slope
1159160		441472	6767027	1486.628		20-30	C	5-10	Light Brown		50	25	20	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159161		441546.5	6767085	1507.863		10-20	C	2-5	Dark Brown	0	40	20	20	20	Talus/colluvium	Moist	Alpine	Mid Slope
1159162		441635.3	6767139	1499.865		10-20	C	2-5	Light Brown	0	50	25	15	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159163		441675.2	6767166	1486.645		10-20	C	2-5	Dark Brown	0	40	30	20	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159164		441754.5	6767223	1481.295		20-30	C	5-10	Dark Brown	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159165		441796.1	6767252	1447.535		20-30	C	5-10	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159166		441832.3	6767275	1433.57		30-40	C	15-20	Light Brown	0	25	40	35	0	Weathered bedrock	Moist	Alpine	Mid Slope
1159167		441877.4	6767308	1381.794		20-30	C	5-10	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159168		441957.1	6767380	1363.759		20-30	C	5-10	Light Brown	0	50	15	10	25	Talus/colluvium	Moist	Alpine	Mid Slope
1159169		442005	6767401	1358.741		20-30	C	10-15	Light Brown	5	30	30	30	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159170		442238	6767203	1334.415		20-30	C	10-15	Light Brown	5	30	30	30	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159171		442357.2	6766901	1639.089		20-30	C	5-10	Dark Brown	10	30	30	25	5	Weathered bedrock	Moist	Alpine	Mid Slope
1159172		442312.8	6766875	1664.12		30-40	C	5-10	Dark Brown	0	50	25	15	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159173		442271.1	6766853	1697.571		20-30	C	5-10	Light Brown	0	30	30	25	15	Talus/colluvium	Moist	Alpine	Mid Slope
1159174		443542.6	6765173	1365.796	hard to get sample. scraped off permafrost	20-30	B/C	10-15	Light Brown	5	40	25	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159175		443576	6765203	1368.453		30-40	C	15-20	Light Brown	0	40	30	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159176		443693.8	6765288	1315		30-40	C	10-15	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159177		443746.8	6765307	1306.272	scraped off top of permafrost	20-30	C	15-20	Light Brown	10	30	30	20	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159178		443803.5	6765382	1271.316		40-50	C	20-25	Light Brown	0	50	20	20	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159179		443850.2	6765413	1260.101		30-40	C	15-20	Light Brown	0	35	20	35	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159180		443799.4	6765482	1298.279		30-40	C	10-15	Light Brown	0	20	20	60	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1159181		443773	6765460	1316.214	scraped off permafrost	20-30	C	15-20	Light Brown	0	40	25	30	5	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159182		443729.6	6765421	1329.485		20-30	C	10-15	Dark Grey	0	40	20	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159183		443605.6	6765332	1375.85		30-40	C	15-20	Dark Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159184		443560.9	6765308	1381.623		20-30	C	15-20	Light Brown	0	60	15	10	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159185		443516.8	6765281	1396.28		20-30	C	10-15	Light Brown	0	40	30	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159186		443482.4	6765250	1406.426		30-40	C	15-20	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159187		443378	6764440	1441.286	more rubble slope. managed to scrape soil out this time	20-30	C	10-15	Light Brown	0	50	25	15	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159188		443418.2	6764467	1432.385	same issue as last station	30-40	C	15-20	Light Brown	0	40	20	20	20	Weathered bedrock	Moist	Alpine	Mid Slope
1159189		443457.2	6764501	1423.183		30-40	B/C	15-20	Light Brown	0	45	25	20	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159190		443493.1	6764538	1400.425		30-40	C	15-20	Light Brown	0	40	25	25	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159191		443545.9	6764552	1368.609		40-50	C	5-10	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Alpine	Mid Slope
1159192		443628.1	6764622	1328.646		30-40	B/C	10-15	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159193		443664.5	6764646	1323.552		30-40	C	20-25	Light Brown	0	30	45	20	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159194		443706.5	6764667	1297.963		40-50	C	20-25	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159195		443793.6	6764724	1261.503		40-50	C	20-25	Light Brown	0	40	30	30	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159196		443862.7	6764794	1237.125		30-40	B/C	15-20	Light Brown	0	40	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159197		443900.5	6764822	1229.452		40-50	C	20-25	Light Brown	0	60	25	10	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159198		443981.6	6764901	1205.229		30-40	C	10-15	Dark Brown	0	50	20	25	5	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159199	1159200	444019	6764916	1197.222		40-50	C	15-20	Light Brown	0	40	25	30	5	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159200	1159199	444018	6764914	1194.775		40-50	C	20-25	Light Brown	0	35	30	30	5	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1159201		442426.6	6767050	1610.163		10-20	C	2-5	Light Brown	5	65	15	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159202		442470.3	6767080	1586.536		10-20	C	2-5	Light Brown	5	60	10	25	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159203		442498.2	6767130	1560.871		10-20	C	2-5	Light Brown	5	60	15	20	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159204		442538	6767156	1533.421		0-10	C	2-5	Light Brown	5	70	10	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159205		442621.3	6767243	1452.408		0-10	C	2-5	Light Brown	5	65	15	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159206		442637	6767270	1440.581		10-20	B/C	5-10	Light Brown	10	60	15	15	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159207		442668.6	6767296	1398.402		10-20	C	5-10	Light Brown	5	65	15	15	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159251		440849.3	6767804	1122.663		>70	B	10-15	Light Brown	20	0	30	30	20	(glacio)-fluvial	Dry	Marsh	Valley Lowland
1159254		442335.1	6766166	1514.598		40-50	B/C	10-15	Light Brown	5	30	30	25	10	Talus/colluvium	Moist	Evergreen	Mid Slope
1159255		442365.7	6766196	1503.46		30-40	B/C	10-15	Dark Brown	10	30	30	15	15	Talus/colluvium	Moist	Evergreen	Mid Slope
1159256		442408.3	6766226	1468.385		30-40	B/C	10-15	Light Brown	5	35	25	20	15	Talus/colluvium	Moist	Alpine	Mid Slope
1159257		442449.6	6766248	1445.151		10-20	B	10-15	Light Brown	30	35	20	0	15	Talus/colluvium	Dry	Willows	Mid Slope
1159258		442495.8	6766278	1427.835		20-30	B	10-15	Dark Brown	30	10	30	30	0	Talus/colluvium	Moist	Alpine	Mid Slope
1159259		442533.1	6766311	1435.386		50-60	B/C	15-20	Light Brown	15	30	20	20	15	Talus/colluvium	Dry	Willows	Mid Slope
1159260		442571.3	6766337	1410.039		30-40	B/C	20-25	Light Brown	20	20	20	20	20	(glacio)-fluvial	Wet	Willows	Valley Lowland
1159261		442630.7	6766359	1400.483		40-50	B/C	20-25	Light Brown	10	25	25	25	15	(glacio)-fluvial	Wet	Willows	Valley Lowland
1159262		442658.1	6766402	1380.515		20-30	B	10-15	Light Brown	20	20	20	20	20	(glacio)-fluvial	Moist	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159263		442692.8	6766423	1386.662		30-40	B/C	15-20	Light Brown	10	10	35	40	5	(glacio)-fluvial	Moist	Willows	Valley Lowland
1159264		442737.3	6766455	1381.625		30-40	B/C	10-15	Light Brown	5	45	40	0	10	(glacio)-fluvial	Dry	Mixed forest	Valley Lowland
1159265		442772.7	6766477	1383.609		30-40	B	10-15	Light Brown	10	40	40	0	10	Talus/colluvium	Dry	Mixed forest	Valley Lowland
1159266		442664	6766642	1379.52		40-50	B/C	10-15	Light Brown	10	40	40	0	10	Talus/colluvium	Dry	Alpine	Mid Slope
1159267		442625.4	6766622	1410.048		30-40	B/C	10-15	Dark Brown	5	20	30	20	25	Talus/colluvium	Moist	Alpine	Mid Slope
1159268		442580.9	6766595	1428.058		30-40	B/C	10-15	Dark Brown	5	35	30	0	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159269		442546.8	6766569	1440.354		40-50	B/C	15-20	Dark Brown	20	25	30	0	25	Talus/colluvium	Moist	Alpine	Mid Slope
1159270		442498.6	6766536	1458.729		30-40	B/C	10-15	Light Brown	10	30	30	0	30	Talus/colluvium	Dry	Alpine	Mid Slope
1159271		442450.4	6766506	1468.771		20-30	B/C	20-25	Dark Brown	10	20	40	10	20	Talus/colluvium	Moist	Alpine	Mid Slope
1159272		442420	6766473	1489.104		30-40	B/C	20-25	Light Brown	0	35	35	20	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159273		442380.8	6766441	1508.709		60-70	B/C	10-15	Light Brown	5	45	40	5	5	Talus/colluvium	Moist	Alpine	Mid Slope
1159274		442336.8	6766416	1542.955		10-20	B	10-15	Dark Brown	20	30	30	0	20	Talus/colluvium	Moist	Alpine	Mid Slope
1159275		442292.3	6766384	1555.935		20-30	B/C	10-15	Light Brown	5	15	30	40	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159276		442985.6	6764794	1670.031		40-50	C	25-30	Light Brown	0	20	30	30	20	Weathered bedrock	Dry	Alpine	Ridge Top
1159277		443025.2	6764825	1654.541		10-20	C	10-15	Light Brown	10	20	30	10	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159278		443062	6764852	1631.072		50-60	C	25-30	Light Brown	0	30	30	30	10	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159279		443110.2	6764883	1587.564		0-10	C	5-10	Light Brown	10	20	30	25	15	Weathered bedrock	Moist	Alpine	Mid Slope
1159280		443170.3	6764797	1575.298		50-60	C	10-15	Light Brown	5	15	30	20	30	Weathered bedrock	Moist	Alpine	Mid Slope
1159281		443128.7	6764774	1606.302		20-30	C	10-15	Light Brown	10	10	50	15	15	Weathered bedrock	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159282		443091.1	6764742	1633.6		30-40	C	10-15	Light Brown	10	30	20	20	20	Weathered bedrock	Dry	Alpine	Mid Slope
1159283		443053.1	6764714	1643.754		30-40	B/C	10-15	Light Brown	10	30	25	20	15	Weathered bedrock	Dry	Alpine	Mid Slope
1159284		443100.9	6764630	1593.835		10-20	C	10-15	Light Brown	30	20	20	10	10	Weathered bedrock	Dry	Alpine	Mid Slope
1159285		443146.4	6764662	1596.33		50-60	C	10-15	Light Brown	10	30	30	20	10	Weathered bedrock	Dry	Alpine	Mid Slope
1159286		443188	6764689	1585.906		20-30	B/C	10-15	Light Brown	20	20	30	10	20	Weathered bedrock	Dry	Alpine	Mid Slope
1159287		443229.2	6764713	1570.595		10-20	C	10-15	Light Brown	5	20	25	15	35	Weathered bedrock	Wet	Alpine	Mid Slope
1159288		443306.7	6764627	1538.638		10-20	C	10-15	Light Brown	0	25	40	20	15	Weathered bedrock	Dry	Alpine	Mid Slope
1159289		443261	6764618	1551.953		30-40	C	10-15	Light Brown	10	30	20	20	20	Weathered bedrock	Dry	Alpine	Mid Slope
1159290		443223.8	6764596	1548.624		30-40	C	10-15	Light Brown	10	20	35	15	20	Till	Dry	Alpine	Mid Slope
1159291		443179.2	6764566	1548.929		50-60	C	15-20	Light Brown	10	30	30	15	15	Weathered bedrock	Dry	Alpine	Mid Slope
1159292		443404.5	6764230	1321.586		50-60	B/C	10-15	Dark Brown	15	30	30	10	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159293		443442.3	6764259	1330.395		50-60	C	10-15	Light Brown	0	30	30	30	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159294		443488	6764302	1310.272		50-60	C	10-15	Dark Brown	15	15	30	30	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159295		443642.3	6764395	1272.997	bad sample but best ive seen in 200metres...	10-20	B	10-15	Light Brown	30	20	20	0	30	Talus/colluvium	Wet	Mixed forest	Mid Slope
1159296		443731.5	6764465	1253.284		50-60	B	10-15	Light Brown	20	20	20	20	20	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159297		443807.7	6764525	1239.726		50-60	B	10-15	Light Brown	0	10	20	60	10	Talus/colluvium	Moist	Mixed forest	Valley Lowland
1159298		443855.2	6764546	1232.357		>70	C	10-15	Light Brown	5	0	30	45	20	(glacio)-fluvial	Partially Frozen	Mixed forest	Valley Lowland
1159299		443895	6764580	1229.019		50-60	B	10-15	Light Brown	10	20	30	25	15	(glacio)-fluvial	Partially Frozen	Marsh	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159300	1159401	443930.3	6764602	1221.826		>70	B/C	10-15	Light Brown	5	20	25	25	25	Talus/colluvium	Partially Frozen	Mixed forest	Valley Lowland
1159301		442901.8	6767549	1279.415		50-60	C	15-20	Light Brown	10	25	15	40	0	Till	Dry	Mixed forest	Valley Lowland
1159302		443342.7	6764312	1387.264		60-70	C	25-30	Light Brown	10	30	15	30	10	Till	Dry	Mixed forest	Valley Lowland
1159303		443389.1	6764324	1373.162		60-70	C	25-30	Orange	10	40	15	15	10	Till	Dry	Mixed forest	Valley Lowland
1159304		443468.5	6764403	1371.538		30-40	C	10-15	Light Brown	15	30	10	35	10	Till	Dry	Mixed forest	Valley Lowland
1159305		443631.5	6764512	1317.749		30-40	B/C	10-15	Light Brown	15	25	10	35	15	Till	Dry	Mixed forest	Mid Slope
1159306		443665	6764545	1302.506		30-40	B/C	10-15	Light Brown	10	25	10	40	15	Till	Dry	Mixed forest	Mid Slope
1159307		443697.1	6764569	1289.053		30-40	C	10-15	Light Brown	10	25	10	40	15	Till	Dry	Mixed forest	Mid Slope
1159308		443751.9	6764607	1268.472		30-40	C	10-15	Light Brown	20	30	10	40	0	Till	Dry	Mixed forest	Mid Slope
1159309		443798.4	6764628	1251.326		30-40	C	10-15	Light Brown	20	30	10	40	0	Till	Dry	Mixed forest	Mid Slope
1159310		443838.1	6764662	1239.909		30-40	C	10-15	Light Brown	10	20	10	60	0	Till	Dry	Mixed forest	Mid Slope
1159311		443875.6	6764687	1225.655		>70	C	10-15	Light Brown	10	35	10	45	0	Till	Dry	Mixed forest	Mid Slope
1159312		443918.1	6764722	1224.924		40-50	C	25-30	Light Brown	10	35	10	45	0	Till	Dry	Mixed forest	Mid Slope
1159313		443957.7	6764748	1221.894		60-70	C	25-30	Light Brown	10	35	10	45	0	Till	Moist	Mixed forest	Mid Slope
1159314		443997.6	6764778	1204.752		60-70	C	25-30	Light Brown	10	35	10	45	0	Till	Moist	Mixed forest	Mid Slope
1159315		444043.8	6764806	1192.028		40-50	C	20-25	Light Brown	5	45	5	45	0	Till	Dry	Mixed forest	Mid Slope
1159316		444078.4	6764825	1175.298		50-60	C	25-30	Light Brown	0	50	0	50	0	Till	Wet	Mixed forest	Valley Lowland
1159317		443971.6	6765248	1216.513		60-70	C	10-15	Light Brown	10	40	10	35	0	Till	Dry	Mixed forest	Mid Slope
1159318		443952.7	6765219	1218.009		60-70	C	10-15	Light Brown	10	40	10	35	0	Till	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159319		443908.9	6765195	1231.145		60-70	C	10-15	Light Brown	10	35	20	30	0	Till	Dry	Mixed forest	Mid Slope
1159320		443861.7	6765169	1246.045		40-50	C	25-30	Light Brown	10	35	15	40	0	Till	Dry	Mixed forest	Mid Slope
1159321		443819.8	6765145	1266.023		40-50	C	25-30	Light Brown	10	45	15	30	0	Till	Dry	Mixed forest	Mid Slope
1159322		443785.7	6765115	1281.571		40-50	C	25-30	Light Brown	10	35	5	50	0	Till	Dry	Mixed forest	Mid Slope
1159323		443745.4	6765075	1304.568		>70	C	10-15	Light Brown	10	35	5	50	0	Till	Moist	Mixed forest	Mid Slope
1159324		443707	6765047	1324.527		50-60	C	10-15	Light Brown	10	35	20	40	0	Till	Moist	Mixed forest	Mid Slope
1159325		443666.5	6765002	1329.16		60-70	C	10-15	Light Brown	10	35	20	40	0	Till	Moist	Mixed forest	Mid Slope
1159351	1178150	441810.4	6766040	1746.016		40-50	C	10-15	Light Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Plateau
1159352		441845.6	6766068	1733.776		30-40	C	10-15	Dark Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Plateau
1159353		441892.5	6766089	1717.615		50-60	B/C	10-15	Light Brown	5	35	20	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1159354		441925.4	6766118	1706.586		40-50	B/C	10-15	Light Brown	5	35	15	45	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159355		441974.4	6766154	1680.093		50-60	B/C	10-15	Light Brown	5	40	15	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159356		442014.7	6766183	1675.808	too steep to take pic w/auger	30-40	B/C	10-15	Light Brown	5	30	15	50	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159357		442046.7	6766211	1666.662		60-70	B/C	10-15	Dark Brown	10	40	20	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159358		442131	6766270	1628.09		40-50	B/C	10-15	Dark Brown	10	30	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159359		442179.7	6766304	1597.407		30-40	B/C	10-15	Dark Brown	10	25	20	45	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159360		442213.2	6766330	1579.953		40-50	B/C	10-15	Light Brown	10	30	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159361		441648.3	6766285	1602.961		40-50	B/C	10-15	Dark Brown	10	25	25	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159362		441678.2	6766299	1630.887		40-50	B/C	10-15	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159363		441715.3	6766325	1664.192		40-50	B/C	10-15	Light Brown	5	30	25	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159364		441753.3	6766359	1696.834		40-50	C	10-15	Light Brown	10	30	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159365		441790	6766390	1729.396	2 steep for auger in hole	30-40	C	5-10	Dark Grey	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159366		441833.1	6766427	1771.18		30-40	C	5-10	Light Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159367		441871.6	6766445	1797.96		30-40	C	10-15	Orange	5	45	15	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159368		441919.9	6766479	1768.444		30-40	C	5-10	Light Brown	5	45	20	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159369		441956.3	6766503	1772.222		20-30	C	2-5	Light Brown	0	45	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159370		441992.4	6766543	1753.415		20-30	C	5-10	Light Brown	5	35	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159371		442037.2	6766565	1753.382		20-30	B/C	2-5	Dark Brown	5	35	25	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159372		442132.2	6766642	1716.237		20-30	B/C	5-10	Dark Brown	10	30	25	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159373		442167.2	6766662	1693.943		30-40	B/C	10-15	Light Brown	10	30	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159374		442196.3	6766688	1673.576		30-40	B/C	10-15	Light Brown	5	35	20	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159375		442238.4	6766718	1653.01		30-40	B/C	5-10	Light Brown	5	30	25	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159376		442295.7	6766736	1618.793		30-40	C	5-10	Light Brown	5	40	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159377		441451.4	6766536	1548.847		50-60	C	10-15	Light Brown	5	35	20	40	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159378		441498.8	6766554	1587.645		40-50	C	10-15	Dark Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159379		441543.3	6766580	1622.055		40-50	C	10-15	Dark Grey	0	45	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159380		441581	6766613	1659.273		40-50	C	10-15	Dark Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159381		441614.3	6766639	1689.843		30-40	C	10-15	Light Brown	10	35	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159382		441662.4	6766666	1747.349		30-40	C	10-15	Light Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159383		441707.2	6766689	1782.175		20-30	C	10-15	Light Brown	5	30	20	45	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159384		441755.7	6766714	1805.047		30-40	C	10-15	Dark Brown	5	45	15	45	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159385		441953.7	6766878	1693.079		20-30	C	10-15	Dark Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159386		441991.2	6766905	1690.685		20-30	C	10-15	Dark Brown	5	40	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159387		442031.8	6766927	1677.845		20-30	C	10-15	Light Brown	5	40	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159388		442063.4	6766963	1660.698		30-40	C	10-15	Dark Brown	0	40	25	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159389		442155	6767011	1670.449		30-40	C	10-15	Light Brown	0	40	15	45	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159390		442185.2	6767049	1657.949		30-40	C	10-15	Light Brown	10	40	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159391		442321.4	6767129	1596.525		20-30	C	10-15	Light Brown	0	45	15	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159392		440919	6767376	1231.906		30-40	B/C	10-15	Dark Brown	10	35	20	45	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159393		441008.4	6767419	1235.939		40-50	B/C	10-15	Dark Brown	15	25	25	45	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159394		441299	6767632	1202.278		40-50	C	10-15	Light Brown	10	40	20	30	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1159395		441273.3	6766773	1483.363		30-40	C	10-15	Dark Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1159396		441535.1	6767804	1174.254		30-40	B	10-15	Light Grey	0	15	65	20	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1159397		441548.3	6768197	1104.602		40-50	C	10-15	Light Brown	5	45	20	30	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159398		441443.2	6768111	1127.49		40-50	B/C	10-15	Orange	5	40	15	40	0	Weathered bedrock	Dry	Mixed forest	Valley Lowland
1159399		441356.1	6768050	1129.749		40-50	B	10-15	Orange	5	25	25	45	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1159400		441273.6	6767976	1124.028		30-40	B	10-15	Light Grey	5	20	40	35	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159401	1159300	443929.3	6764599	1222.808		>70	B	10-15	Light Brown	5	20	25	25	25	Talus/colluvium	Partially Frozen	Mixed forest	Valley Lowland
1159402		443978.3	6764639	1210.533		40-50	B/C	10-15	Light Brown	5	20	25	25	25	Talus/colluvium	Partially Frozen	Mixed forest	Valley Lowland
1159403		444016.8	6764669	1198.175		50-60	B	15-20	Light Brown	20	20	20	20	20	Talus/colluvium	Frozen	Mixed forest	Valley Lowland
1159404		444061	6764695	1187.185	bad sample, lots of pf	50-60	B	10-15	Dark Brown	40	0	40	20	0	Loess or ash	Frozen	Mixed forest	Valley Lowland
1159405		444204	6764789	1176.215		20-30	B	10-15	Light Brown	0	45	30	0	25	(glacio)-fluvial	Moist	Mixed forest	Valley Lowland
1159406		444223.9	6764818	1172.88		30-40	B	15-20	Light Brown	0	20	30	30	20	Talus/colluvium	Moist	Mixed forest	Valley Lowland
1159407		444264.2	6764841	1175.37		50-60	B/C	10-15	Light Grey	0	35	30	35	0	(glacio)-fluvial	Wet	Mixed forest	Valley Lowland
1159451		441744.1	6766224	1643.65		50-60	B/C	10-15	Dark Brown	5	30	25	15	25	Till	Moist	Alpine	Mid Slope
1159452		441773.9	6766254	1669.836		20-30	B	10-15	Light Brown	30	35	25	0	10	Till	Wet	Alpine	Mid Slope
1159453		441816.9	6766273	1710.607		50-60	B/C	10-15	Light Brown	15	30	20	10	25	Till	Wet	Alpine	Mid Slope
1159454		441856	6766312	1738.982		50-60	B/C	10-15	Dark Brown	30	40	10	0	20	Till	Moist	Alpine	Mid Slope
1159455		441931	6766364	1748.532		50-60	C	2-5	Light Grey	0	50	0	0	50	Talus/colluvium	Wet	None	Mid Slope
1159456		441978.5	6766397	1714.53		10-20	B/C	10-15	Light Brown	10	35	25	0	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159457		442020.8	6766428	1685.119		50-60	B/C	15-20	Light Grey	0	25	15	50	10	Till	Moist	Alpine	Mid Slope
1159458		442061.5	6766458	1669.354		50-60	B/C	10-15	Dark Brown	10	30	30	0	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159459		442108.1	6766484	1667.448		50-60	B/C	10-15	Light Brown	0	45	25	0	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159460a		441762.2	6765754	1780.534		10-20	B/C	10-15	Light Brown	5	10	35	35	15	Weathered bedrock	Dry	Alpine	Ridge Top
1159460b		442148.2	6766513	1721.946		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
1159461		441881.8	6765841	1729.593		10-20	B	10-15	Light Brown	15	30	30	0	25	Weathered bedrock	Dry	Alpine	Mid Slope
1159462		441924	6765874	1705.489		50-60	C	10-15	Light Brown	20	20	20	20	20	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159463		441964.3	6765902	1670.304		50-60	B/C	10-15	Dark Brown	20	20	20	20	20	Talus/colluvium	Wet	Mixed forest	Mid Slope
1159464		442003.7	6765938	1653.786		40-50	B/C	10-15	Dark Brown	20	20	20	20	20	Talus/colluvium	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159465		442091	6765985	1618.529		50-60	B/C	10-15	Dark Grey	10	10	35	35	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159466		442125.9	6766020	1598.179		50-60	B/C	10-15	Dark Brown	10	30	30	15	15	Talus/colluvium	Moist	Alpine	Mid Slope
1159467		442168.2	6766052	1582.238		50-60	C	15-20	Dark Brown	10	20	30	30	10	Weathered bedrock	Dry	Alpine	Mid Slope
1159468		442210.4	6766079	1568.042		>70	C	10-15	Light Brown	10	10	60	10	10	Talus/colluvium	Moist	Alpine	Mid Slope
1159469	1159470	441434.5	6766631	1582.192		40-50	B	10-15	Dark Brown	0	0	20	0	80	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159470	1159469	441443.3	6766632	1582.554		50-60	B/C	10-15	Dark Brown	0	20	25	25	30	Talus/colluvium	Moist	Alpine	Mid Slope
1159471		441480.1	6766658	1618.331		40-50	B/C	10-15	Dark Brown	0	25	35	0	40	Talus/colluvium	Moist	None	Mid Slope
1159472		441525.2	6766697	1641.111		30-40	B/C	10-15	Light Brown	5	30	30	0	35	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159473		441573.9	6766725	1670.912		10-20	B	10-15	Light Brown	5	30	30	0	35	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159474		441648.2	6766779	1716.417		10-20	B	10-15	Dark Brown	10	10	20	0	60	Talus/colluvium	Moist	Alpine	Mid Slope
1159475		441695.7	6766808	1717.807		20-30	B	10-15	Light Brown	5	15	45	0	35	Talus/colluvium	Moist	Mixed forest	Mid Slope
1159476		441722.4	6766835	1734.697		20-30	B/C	10-15	Light Brown	5	30	30	0	35	Talus/colluvium	Moist	Alpine	Mid Slope
1159477		441800.7	6766888	1708.17		20-30	B/C	10-15	Dark Brown	10	25	30	0	35	Talus/colluvium	Wet	None	Mid Slope
1159478		441859.6	6766913	1657.2		50-60	B/C	10-15	Dark Brown	0	30	20	0	50	Talus/colluvium	Wet	None	Mid Slope
1159479		441891.3	6766952	1612.926		20-30	B	10-15	Light Brown	0	50	20	0	30	Till	Moist	None	Mid Slope
1159480		441928.6	6766971	1603.78		10-20	B	10-15	Dark Brown	20	20	30	0	30	Talus/colluvium	Moist	Mixed forest	Valley Lowland
1159481		441985.7	6766995	1594.372		10-20	B	5-10	Light Brown	10	60	0	0	30	Talus/colluvium	Moist	Alpine	Valley Lowland
1159482		440663.5	6767304	1132.275		50-60	B	10-15	Dark Brown	50	5	45	0	0	Loess or ash	Frozen	Evergreen	Mid Slope
1159483		440861.5	6767451	1183.206		40-50	B	10-15	Light Brown	5	50	40	0	5	Talus/colluvium	Moist	Evergreen	Mid Slope
1159484		440902.4	6767478	1191.432		40-50	B/C	10-15	Light Brown	5	40	30	15	5	Talus/colluvium	Moist	Evergreen	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1159485		440949.4	6767502	1195.696		40-50	B/C	15-20	Dark Grey	5	20	30	35	10	Talus/colluvium	Moist	Evergreen	Mid Slope
1159486		441029.7	6767565	1204.416		50-60	B	10-15	Light Brown	20	0	80	0	0	Talus/colluvium	Frozen	Evergreen	Mid Slope
1159487		441064	6767592	1197.011		50-60	C	10-15	Dark Grey	20	0	80	0	0	Loess or ash	Frozen	Evergreen	Mid Slope
1159488		441107.9	6767615	1192.332		>70	B/C	15-20	Dark Brown	5	30	30	20	15	Talus/colluvium	Frozen	Evergreen	Mid Slope
1159489		441150.4	6767660	1217.245		>70	B/C	5-10	Light Brown	5	40	40	0	15	Talus/colluvium	Frozen	Evergreen	Mid Slope
1159490		441278	6767732	1184.729		30-40	B/C	10-15	Light Grey	5	35	40	0	20	Talus/colluvium	Dry	Evergreen	Mid Slope
1159491		441314.9	6767775	1196.806		50-60	B/C	15-20	Dark Brown	20	40	40	0	0	Talus/colluvium	Dry	Evergreen	Mid Slope
1159492		441348	6767799	1165.961		50-60	C	25-30	Light Brown	0	30	35	35	0	Weathered bedrock	Wet	Evergreen	Mid Slope
1159493		441518.7	6767909	1158.629		50-60	B	10-15	Dark Grey	5	55	40	0	0	(glacio)-fluvial	Wet	Willows	Valley Lowland
1159494		441606.8	6767959	1135.399		50-60	B	10-15	Light Grey	10	45	45	0	0	(glacio)-fluvial	Wet	Willows	Valley Lowland
1159495		441537	6768049	1129.062		50-60	B/C	15-20	Light Brown	10	40	30	20	0	Talus/colluvium	Wet	Evergreen	Plateau
1159496		441482.8	6768026	1136.36		50-60	B/C	10-15	Light Brown	5	55	20	0	20	Talus/colluvium	Wet	Mixed forest	Mid Slope
1159497		441173.2	6768034	1121.625		50-60	A/B	10-15	Dark Brown	30	30	40	0	0	Loess or ash	Wet	Evergreen	Valley Lowland
1159498		441129.1	6768021	1121.496		40-50	B	10-15	Light Brown	10	45	45	0	0	Loess or ash	Dry	Evergreen	Valley Lowland
1159499	1159500	441051	6767953	1128.943		50-60	B	10-15	Light Brown	10	40	40	0	10	Talus/colluvium	Wet	Mixed forest	Valley Lowland
1159500	1159499	441046.7	6767951	1126.599		40-50	B	10-15	Light Brown	10	40	40	0	10	Talus/colluvium	Wet	Mixed forest	Valley Lowland
1160678		441962.8	6767624	1257.858		50-60	C	25-30	Light Brown	5	25	25	25	20	Till	Moist	Mixed forest	Mid Slope
1160679		441922.1	6767596	1262.778		20-30	B/C	10-15	Dark Brown	10	25	20	25	20	Till	Moist	Mixed forest	Mid Slope
1160680		441882.8	6767561	1264.592		20-30	B/C	10-15	Light Brown	5	10	35	35	15	Till	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1160681		441838.4	6767542	1285.017		10-20	B	10-15	Light Brown	5	40	30	10	15	Till	Moist	Mixed forest	Mid Slope
1160682		441794.9	6767512	1296.296		20-30	B/C	10-15	Light Brown	5	25	25	15	30	Till	Moist	Willows	Mid Slope
1160683		441753.8	6767479	1306.2		40-50	B	10-15	Dark Brown	0	35	35	0	30	Till	Moist	Mixed forest	Mid Slope
1160684		441721.1	6767446	1316.531		40-50	B/C	25-30	Dark Brown	5	25	20	0	50	Till	Moist	Alpine	Mid Slope
1160685		441677.3	6767410	1327.583		50-60	B/C	10-15	Dark Brown	5	20	25	20	30	Till	Moist	Mixed forest	Mid Slope
1160686		441636.1	6767387	1336.361		50-60	B/C	10-15	Light Brown	5	25	15	10	45	Till	Moist	Alpine	Mid Slope
1160687		441595	6767356	1350.624		>70	B/C	10-15	Light Brown	0	50	25	0	25	Till	Moist	Mixed forest	Mid Slope
1160688		441563.1	6767337	1357.797		50-60	B/C	10-15	Light Brown	5	10	35	0	50	Till	Moist	Alpine	Mid Slope
1160689		441516.4	6767304	1365.815		20-30	B/C	10-15	Light Brown	5	30	30	15	20	Till	Moist	Mixed forest	Mid Slope
1160690		441478	6767274	1374.155		40-50	B/C	15-20	Light Brown	5	25	35	0	35	Till	Moist	Alpine	Mid Slope
1160691		441385.7	6767206	1375.637		50-60	B/C	15-20	Light Brown	0	35	40	0	25	Till	Moist	Mixed forest	Mid Slope
1160692		441355.1	6767188	1383.772		50-60	B	10-15	Light Brown	0	50	20	20	10	(glacio)- fluvial	Moist	None	Mid Slope
1160693		441310.4	6767155	1382.445		60-70	B/C	10-15	Light Brown	0	20	30	40	10	Till	Moist	Evergreen	Mid Slope
1160694		441272.3	6767133	1387.942	blue/green sand, see 2nd photo	50-60	B/C	10-15	Light Brown	0	15	45	25	15	Till	Moist	Evergreen	Mid Slope
1160695		441229.3	6767103	1391.847		50-60	C	10-15	Light Brown	0	30	30	30	10	Till	Moist	Evergreen	Ridge Top
1160696		441190.7	6767067	1378.031		20-30	C	10-15	Dark Brown	5	35	25	20	15	Weathered bedrock	Moist	Evergreen	Mid Slope
1160697		441156.7	6767034	1382.699		50-60	B/C	10-15	Dark Brown	5	5	30	40	20	Till	Moist	Evergreen	Mid Slope
1160698		441107.7	6767014	1365.136		40-50	B	10-15	Dark Brown	15	10	25	25	25	Till	Moist	Evergreen	Mid Slope
1160699	1160700	441698.8	6766205	1616.059		50-60	B/C	10-15	Light Brown	10	15	25	25	25	Till	Moist	Alpine	Mid Slope
1160700	1160699	441694.6	6766201	1613.155		50-60	B/C	10-15	Light Brown	10	15	25	25	25	Till	Moist	Alpine	Mid Slope
1161201		441903.5	6765980	1708.253		60-70	C	20-25	Light Brown	10	0	0	75	10	Till	Moist	Mixed forest	Mid Slope
1161202		441950	6766014	1685.865		60-70	C	20-25	Dark Brown	10	0	0	75	10	Till	Moist	Mixed forest	Mid Slope
1161203		441986	6766045	1663.874		60-70	C	20-25	Dark Brown	10	25	0	50	10	Till	Moist	Mixed forest	Mid Slope
1161204		442030	6766075	1646.474		60-70	C	20-25	Dark Brown	10	50	0	30	10	Till	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161205		442071.3	6766095	1621.673		60-70	C	20-25	Dark Brown	10	70	0	10	10	Till	Moist	Mixed forest	Mid Slope
1161206		442110.8	6766136	1604.856		60-70	C	20-25	Dark Brown	10	70	0	10	10	Till	Moist	Mixed forest	Mid Slope
1161207		442151	6766157	1601.256		60-70	C	20-25	Dark Brown	10	70	0	10	10	Till	Moist	Mixed forest	Mid Slope
1161208		442195.8	6766184	1590.25		60-70	C	20-25	Dark Brown	10	70	0	10	10	Till	Moist	Mixed forest	Mid Slope
1161209		442234.4	6766220	1580.981		60-70	C	20-25	Dark Brown	10	70	0	10	10	Till	Moist	Mixed forest	Mid Slope
1161210		442275.6	6766248	1551.746		30-40	C	10-15	Dark Brown	10	70	0	10	10	Till	Dry	Mixed forest	Mid Slope
1161211		442316.6	6766274	1529.633		30-40	C	10-15	Dark Brown	10	70	0	10	10	Till	Dry	Mixed forest	Mid Slope
1161212		442362.2	6766303	1502.222		30-40	C	10-15	Dark Brown	10	70	0	10	10	Till	Dry	Mixed forest	Mid Slope
1161213		442400.3	6766333	1480.827		30-40	C	10-15	Dark Brown	10	70	0	10	10	Till	Dry	Mixed forest	Mid Slope
1161214		442456.3	6766355	1461.368		50-60	C	20-25	Dark Brown	10	10	10	60	10	Till	Dry	Mixed forest	Mid Slope
1161215		442498	6766403	1445.461		50-60	C	20-25	Dark Brown	10	10	10	60	10	Till	Moist	Mixed forest	Mid Slope
1161216		442516.3	6766415	1441.236		50-60	C	20-25	Dark Brown	10	10	10	60	10	Till	Moist	Mixed forest	Mid Slope
1161217		442063.4	6765853	1619.313		50-60	C	15-20	Light Brown	0	25	25	25	25	Till	Dry	Mixed forest	Mid Slope
1161218		442109.9	6765882	1592.398		50-60	C	15-20	Light Brown	10	25	25	15	15	Till	Dry	Alpine	Mid Slope
1161219		442144.5	6765912	1581.2		50-60	C	15-20	Light Brown	10	25	50	10	10	Till	Dry	Alpine	Mid Slope
1161220		442182.8	6765931	1570.291		50-60	C	20-25	Light Brown	10	25	50	10	10	Till	Dry	Mixed forest	Mid Slope
1161221		442225.2	6765976	1554.327		50-60	C	20-25	Light Brown	0	50	50	0	0	Till	Dry	Mixed forest	Mid Slope
1161222		442264.4	6765997	1552.976		50-60	C	20-25	Light Brown	0	50	50	0	0	Till	Dry	Mixed forest	Mid Slope
1161223		442307.5	6766038	1526.458		50-60	C	20-25	Light Brown	0	25	50	25	0	Till	Dry	Mixed forest	Mid Slope
1161224		442345.3	6766057	1510.431		50-60	C	20-25	Light Brown	0	25	50	25	0	Till	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161225		442401.8	6766072	1482.465		20-30	A/B	5-10	Light Brown	25	25	50	0	0	Till	Dry	Mixed forest	Mid Slope
1161226		442447.1	6766112	1465.432	pretty stream	20-30	A/B	5-10	Light Brown	10	25	50	15	0	Till	Moist	Mixed forest	Mid Slope
1161227		442467.1	6766145	1451.979		40-50	C	15-20	Light Brown	0	25	25	20	20	Till	Moist	Mixed forest	Valley Lowland
1161228		442514.2	6766168	1446.161		40-50	C	15-20	Light Brown	0	15	25	30	20	Till	Moist	Mixed forest	Valley Lowland
1161229		442557.3	6766194	1438.161		40-50	C	15-20	Dark Brown	10	15	25	30	20	Till	Moist	Mixed forest	Valley Lowland
1161230		442587.9	6766229	1425.125		40-50	C	15-20	Dark Brown	10	20	20	40	10	Till	Moist	Mixed forest	Valley Lowland
1161231		442635.8	6766261	1421.233		40-50	C	15-20	Light Brown	10	25	25	15	25	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161232		442677.5	6766284	1408.644		20-30	B/C	10-15	Dark Brown	10	35	35	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161233		442713.3	6766315	1417.014		30-40	C	15-20	Dark Brown	5	25	50	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161234		442746.3	6766339	1426.838		50-60	C	25-30	Dark Brown	15	25	50	0	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161235		442800	6766372	1433.8		40-50	C	15-20	Black	10	25	25	10	25	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161236		442834.9	6766406	1433.127		30-40	B	10-15	Black	50	20	20	10	0	Till	Moist	Mixed forest	Mid Slope
1161237		442711.6	6766560	1366.077		20-30	B/C	10-15	Dark Brown	0	40	25	10	20	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161238		442674	6766537	1374.905		20-30	C	10-15	Dark Brown	10	50	25	0	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161239		442645	6766520	1392.448	bad sample. rocky everywhere, too tough for the augor.	20-30	B/C	10-15	Dark Brown	0	25	25	0	50	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161240		442589.6	6766478	1419.903		0-10	A	1-2	Light Brown	0	0	0	0	100	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161241		442554.1	6766448	1425.353		20-30	C	15-20	Light Brown	10	25	25	15	20	Weathered bedrock	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161242		441343.3	6766683	1541.316		30-40	C	10-15	Light Brown	5	25	50	0	25	Till	Dry	Mixed forest	Mid Slope
1161243		441390.8	6766718	1558.533		40-50	C	20-25	Light Brown	5	40	40	0	15	Till	Dry	Mixed forest	Mid Slope
1161244		441429.1	6766745	1569.745		40-50	A/B	20-25	Light Brown	0	10	10	10	75	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161245		441464.4	6766775	1582.878		40-50	B/C	20-25	Light Brown	0	10	10	10	75	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161246		441515.3	6766795	1614.458		40-50	B/C	20-25	Light Brown	0	10	10	10	75	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161247		441569.9	6766833	1643.99		40-50	C	20-25	Dark Brown	10	30	30	15	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161248		441597.6	6766842	1639.093		40-50	C	20-25	Dark Brown	10	30	30	15	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161249		441829.8	6767027	1592.898		50-60	C	20-25	Dark Brown	0	25	45	20	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161250		441869.7	6767067	1552.704		30-40	B/C	15-20	Dark Brown	15	30	30	10	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161262		442020.8	6767539	1286.464		50-60	C	10-15	Light Brown	10	50	10	10	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161263		441982.6	6767508	1299.113		50-60	B/C	10-15	Light Brown	10	60	10	10	10	Weathered bedrock	Dry	Mixed forest	Mid Slope
1161264		441941.2	6767481	1305.368		50-60	C	10-15	Light Brown	10	50	10	10	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161265		441898.6	6767450	1318.254		50-60	C	10-15	Light Brown	0	30	10	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161266		441858.9	6767424	1332.408		50-60	C	10-15	Dark Brown	0	60	10	10	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161267		441817.6	6767389	1353.887		50-60	C	10-15	Dark Brown	0	60	10	10	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161268		441778.9	6767360	1376.89		30-40	C	10-15	Dark Brown	0	50	0	0	50	Weathered bedrock	Moist	Alpine	Mid Slope
1161269		441734.5	6767336	1393.232		30-40	C	10-15	Dark Brown	0	25	25	25	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161270		441695.8	6767291	1404.436		20-30	C	10-15	Dark Brown	0	0	15	15	70	Talus/colluvium	Moist	Alpine	Mid Slope
1161271		441661.1	6767265	1428.816		20-30	C	10-15	Dark Brown	0	0	15	15	70	Talus/colluvium	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161272		441625.5	6767244	1406.901		20-30	C	10-15	Dark Brown	0	0	15	15	70	Talus/colluvium	Moist	Alpine	Mid Slope
1161273		441578.9	6767218	1431.6		20-30	C	10-15	Dark Brown	0	0	15	15	70	Talus/colluvium	Moist	Alpine	Mid Slope
1161274		441533	6767193	1440.344		20-30	C	10-15	Dark Brown	0	25	25	25	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161275		441493.7	6767160	1440.44		20-30	C	10-15	Dark Brown	0	25	25	25	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161276		441459.4	6767132	1441.972		20-30	C	10-15	Dark Brown	0	50	25	0	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161277		441416.2	6767099	1430.668		20-30	C	10-15	Dark Brown	0	50	25	0	25	Weathered bedrock	Moist	Alpine	Mid Slope
1161278		441332.1	6767051	1454.001		20-30	B/C	10-15	Dark Brown	10	25	25	10	20		Moist	Alpine	Mid Slope
1161279		441295.3	6767000	1434.493		20-30	B/C	10-15	Dark Brown	0	40	10	40	10		Moist	Alpine	Mid Slope
1161280		441250.3	6766982	1428.833		20-30	C	10-15	Dark Brown	0	50	25	25	0		Moist	Alpine	Mid Slope
1161281		441202.3	6766951	1413.573		20-30	C	10-15	Dark Brown	0	25	25	50	0		Moist	Mixed forest	Mid Slope
1161282		441165.3	6766925	1396.732		20-30	C	10-15	Dark Brown	0	25	25	50	0		Moist	Mixed forest	Mid Slope
1161465		442177.7	6766799	1733.765		20-30	C	10-15	Dark Grey	0	40	20	40	0	Weathered bedrock	Moist	Alpine	Mid Slope
1161466		441561.4	6766469	1595.593		10-20	B/C	10-15	Dark Brown	15	40	20	20	5	Weathered bedrock	Moist	Alpine	Mid Slope
1161467		441596.5	6766503	1627.075		30-40	C	5-10	Light Grey	0	30	20	40	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161468		441640	6766531	1661.22		30-40	C	10-15	Dark Grey	0	40	25	20	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161469		441672.3	6766559	1691.861		50-60	C	10-15	Light Brown	0	40	25	25	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161470		441712.6	6766588	1725.654		0-10	C	2-5	Dark Brown	0	30	30	30	10	Talus/colluvium	Moist	Alpine	Mid Slope
1161471		441760	6766614	1763.27		10-20	C	2-5	Dark Brown	0	50	20	20	10	Talus/colluvium	Moist	Alpine	Mid Slope
1161472		441838.3	6766685	1840.133		30-40	C	5-10	Light Grey	0	30	35	30	5	Weathered bedrock	Moist	Alpine	Ridge Top
1161473		441954	6766776	1754.746		10-20	C	5-10	Dark Brown	0	60	15	5	20	Talus/colluvium	Moist	Alpine	Mid Slope
1161474		441998.9	6766793	1771.426		10-20	C	5-10	Light Brown	0	40	30	30	0	Till	Moist	Alpine	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161475		442048.4	6766814	1769.992		0-10	C	2-5	Dark Brown	0	50	10	10	30	Talus/colluvium	Moist	Alpine	Mid Slope
1161476		442097.2	6766835	1772.124		20-30	C	5-10	Dark Brown	0	45	30	10	15	Weathered bedrock	Moist	Alpine	Mid Slope
1161477		442138.5	6766877	1762.432		30-40	C	5-10	Dark Brown	5	40	20	30	5	Weathered bedrock	Moist	Alpine	Mid Slope
1161478		442169.6	6766907	1759.677		20-30	C	5-10	Dark Grey	0	30	30	40	0	Weathered bedrock	Wet	Alpine	Mid Slope
1161479		442266.8	6766959	1724.197		20-30	C	5-10	Dark Brown	0	50	25	25	0	Weathered bedrock	Moist	Alpine	Mid Slope
1161480		442331.6	6767024	1686.921		20-30	C	5-10	Light Brown	0	40	30	30	0	Weathered bedrock	Moist	Alpine	Mid Slope
1161481		442367.2	6767045	1661.292		10-20	C	2-5	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Alpine	Mid Slope
1161482		440933.8	6767247	1259.628		30-40	B/C	10-15	Dark Brown	0	30	25	35	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161483		441010	6767323	1271.125	hard to find samples in this area [and prob in whole line] as there is a lot of thick moss and permafrost	20-30	B/C	15-20	Dark Grey	10	40	25	35	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161484		441138.2	6767404	1274.461		20-30	C	10-15	Dark Grey	0	30	20	50	0	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1161485		441183.3	6767424	1271.509		20-30	B/C	10-15	Dark Grey	0	30	20	50	0	(glacio)-lacustrine	Wet	Mixed forest	Mid Slope
1161486		441256.6	6767492	1260.969		20-30	B/C	10-15	Light Brown	0	40	20	20	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161487		441344.8	6767545	1236.667		20-30	C	10-15	Light Brown	0	50	15	20	15	Till	Moist	Mixed forest	Mid Slope
1161488		441466.4	6767642	1214.347		50-60	C	2-5	Light Brown	0	50	15	10	25	Talus/colluvium	Moist	Mixed forest	Mid Slope
1161489		441499.2	6767679	1200.818		30-40	C	10-15	Light Brown	0	30	25	30	15	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161490		441542.6	6767704	1197.917		50-60	C	5-10	Dark Grey	0	25	25	30	20	Weathered bedrock	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1161491		441706.4	6767816	1188.74		30-40	C	10-15	Light Grey	0	30	30	35	5	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161492		441753.9	6767838	1188.445		30-40	C	15-20	Light Brown	0	40	20	40	0	Weathered bedrock	Wet	Mixed forest	Mid Slope
1161493		441789.4	6767874	1179.699		30-40	C	15-20	Dark Grey	0	40	25	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1161494		441501.9	6768276	1107.798		30-40	C	10-15	Light Brown	0	50	25	20	5	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161495		441459.3	6768236	1107.395	very wet clays . bad sample .will bag anyways	50-60	C	10-15	Light Brown	0	15	10	75	0	(glacio)-fluvial	Wet	Mixed forest	Valley Lowland
1161496		441409	6768206	1103.93		30-40	C	15-20	Light Brown	0	50	20	25	5	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161497		441339.1	6768163	1114.357		20-30	C	10-15	Dark Brown	0	30	30	40	0	Weathered bedrock	Wet	Mixed forest	Valley Lowland
1161498		441252.4	6768090	1119.683		20-30	C	10-15	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161499	1161500	441211.5	6768067	1128.489		20-30	C	10-15	Light Brown	0	50	20	20	10	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1161500	1161499	441214.5	6768066	1119.99		20-30	C	10-15	Light Brown	0	50	20	30	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1178133		441903.4	6767704	1223.699		30-40	C	5-10	Dark Grey	5	35	35	25	0	Weathered bedrock	Moist	Mixed forest	Valley Lowland
1178134		441864.9	6767672	1242.489		30-40	B	5-10	Dark Brown	10	25	40	25	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178135		441819.5	6767637	1248.388		40-50	B	5-10	Light Brown	5	30	30	35	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178136		441777.1	6767613	1256.838		40-50	B/C	10-15	Light Brown	5	30	25	0	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178137		441742.4	6767587	1249.799		50-60	B/C	10-15	Light Brown	5	30	45	20	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1178138		441643.9	6767515	1271.386		30-40	B/C	5-10	Light Brown	10	25	25	40	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178139		441618.9	6767495	1275.656		40-50	B/C	5-10	Light Brown	10	30	30	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178140		441585.5	6767475	1287.06		50-60	C	10-15	Light Brown	0	40	30	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
1178141		441496.4	6767417	1312.899		40-50	B/C	10-15	Light Brown	10	35	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178142		441459.8	6767387	1311.601		40-50	C	10-15	Dark Brown	5	40	20	35	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178143		441378.4	6767327	1326.798		30-40	C	5-10	Light Brown	5	35	25	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178144		441296.6	6767268	1334.285		50-60	B	10-15	Light Brown	5	15	50	30	0	(glacio)-fluvial	Moist	Mixed forest	Mid Slope
1178145		441261.1	6767247	1340.765		40-50	C	10-15	Dark Brown	5	40	25	30	0	Weathered bedrock	Dry	Mixed forest	Mid Slope
1178146		441212.4	6767205	1343.719		20-30	B/C	5-10	Dark Grey	5	35	25	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178147		441171.6	6767177	1345.781		40-50	B/C	5-10	Dark Grey	5	40	20	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178148		441094.9	6767121	1320.878		40-50	B/C	10-15	Light Brown	10	40	15	35	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178149		441055.2	6767099	1333.156		30-40	B/C	5-10	Dark Brown	5	20	30	45	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1178150	1159351	441809.4	6766041	1740.774		40-50	C	10-15	Light Brown	5	45	15	35	0	Weathered bedrock	Dry	Mixed forest	Plateau
1778201		444056.4	6764954	1189.514		20-30	C	10-15	Light Brown	0	30	30	30	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1778202		444145.6	6765005	1158.895		30-40	C	10-15	Dark Grey	0	20	20	60	0	(glacio)-fluvial	Wet	Mixed forest	Mid Slope
1778203		443908.8	6765324	1235.383		30-40	C	10-15	Dark Brown	0	50	25	25	0	Weathered bedrock	Moist	Mixed forest	Mid Slope
1778204		443846.4	6765267	1254.979		30-40	C	15-20	Light Brown	0	45	20	30	5	Weathered bedrock	Moist	Mixed forest	Mid Slope
1778205		443802.8	6765252	1269.936	scraped off permafrost	20-30	B/C	10-15	Light Brown	0	40	25	25	10	Weathered bedrock	Partially Frozen	Mixed forest	Mid Slope
1778206		443768.1	6765211	1284.119		30-40	C	15-20	Light Brown	0	30	30	30	10	Weathered bedrock	Moist	Mixed forest	Mid Slope
1778207		443680.3	6765158	1326.153		20-30	C	10-15	Light Brown	0	50	15	15	20	Weathered bedrock	Moist	Mixed forest	Mid Slope
1778208		443599.9	6765096	1354.887	sample number was blank in original file	20-30	C	15-20	Dark Brown	0	40	30	20	10	Weathered bedrock	Moist	Mixed forest	Mid Slope

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample240		440641.6	6767549	1108.991	edge of large swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample241		440666.5	6767551	1100.099	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample242		440690.2	6767344	1143.054	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample243		440699.9	6767575	1106.172	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample244		440729.6	6767718	1102	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample245		440741.4	6767360	1148.438	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample246		440743.9	6767601	1114.084	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample247		440755.9	6767747	1105.253	swamp organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample248		440785.3	6767398	1167.131	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample249		440818.4	6767420	1173.676	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample250		440818.5	6767667	1118.368	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample251		440829.5	6767309	1222.333	deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample252		440861.5	6767696	1128.97	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample253		440878.2	6767352	1223.997	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample254		440888.1	6767839	1127.259	swamp and pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample255		440914.2	6767722	1136.536	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample256		440925	6767618	1730.444	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample257		440944.4	6767743	1142.51	organic and high silt	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample258		440963.2	6767404	1228.718	rocks under moss	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample259		440968.3	6767302	1264.69	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample260		440971.9	6767895	1130.287	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample261		440988.6	6767538	1197.553	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample262		440989.7	6767779	1140.201	deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample263		440995	6767169	1281.91	extremely wet clay with mainly large rock matrix. no good sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample264		441016.9	6767925	1127.875	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample265		441028.4	6767816	1142.72	deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample266		441044.5	6767451	1233.808	pERMAFROS T	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample267		441052.7	6767342	1274.004	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample268		441076.3	6767840	1140.729	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample269		441081	6767488	1229.616	pERMAFROS T	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample270		441085.5	6767220	1294.903	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample271		441091.4	6767380	1271.014	once again permafrost right beow oeganic layer	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample272		441114.8	6767258	1304.78		50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample273		441123.9	6767515	1233.472	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample274		441131.2	6767146	1337.171	shallow moss then boulders												Mixed forest	Mid Slope
NoSample275		441156.1	6767900	1139.371	organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample276		441158.7	6767543	1223.769	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample277		441190.8	6767928	1139.389	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample278		441195.2	6767674	1192.344	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample279		441197.3	6767568	1219.305	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample280		441205.7	6767314	1308.163	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample281		441222.4	6767467	1272.176	old stream channel . wet clays	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample282		441233.5	6767712	1195.326	pf	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample283		441249.2	6767590	1214.794	pErMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample284		441289.4	6768128	1125.965	clays to wet to coollect under organics	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample285		441306.4	6767508	1253.039	wet clays	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample286		441331.1	6767294	1333.366	boulders and ice									0			Mixed forest	Mid Slope
NoSample287		441357.3	6767678	1200.896	pErMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample288		441367.5	6767687	1193.466	deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample289		441380	6768194	1120.713	wet clays like two stations ago	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample290		441386.1	6767575	1218.892	rock slide	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample291		441387.2	6767080	1433.524		20-30	C	10-15	Dark Brown	0	0	0	0	0		Moist	Alpine	Mid Slope
NoSample292		441391.8	6767812	1152.39	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample293		441393.9	6767472	1273.884	area is moss to organics to bedrock., or just rock slabs in places	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample294		441402.7	6767719	1195.576	overgrown cant get proper sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample295		441418.7	6767358	1319.435	boulders												Mixed forest	Mid Slope
NoSample296		441421.8	6767607	1223.595	middle of a swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample297		441432.7	6767867	1172.212	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample298		441435.7	6767241	1375.449	bolder field	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample299		441446.5	6767987	1131.43	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample300		441451.5	6767742	1190.208	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample301		441466.5	6768140	1114.683	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample302		441472.3	6767882	1160.59	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample303		441486	6766915	1567.526	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample304		441486.2	6767763	1177.307	deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample305		441506.2	6767059	1496.316	talus slope with n eniugh soil at depth to produce a sample	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample306		441514.5	6768164	1106.221	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample307		441542.4	6767443	1304.922	boulders												Mixed forest	Mid Slope
NoSample308		441549.6	6767936	1144.716	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample309		441567.7	6766966	1590.767	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample310		441571.8	6768084	1119.595	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample311		441578.5	6767838	1162.823	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample312		441583.2	6767727	1193.578	in a swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample313		441589.2	6767108	1509.71	on a rock face	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample314		441604.5	6768110	1120.115	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample315		441606.4	6766751	1681.582	boulder field	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample316		441610.1	6767859	1159.193	stream	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample317		441617.9	6767663	1214.695	middle of a creek. only clays in marsh patches	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample318		441622.3	6767755	1191.23	still stuck in a swampy marsh	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample319		441628.6	6767997	1114.495	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample320		441629.4	6766887	1658.922	boulder field												Alpine	Mid Slope
NoSample321		441653.7	6767894	1153.907	stream silt	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample322		441663.2	6767698	1203.47	very wet and deep clay	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample323		441666.4	6766920	1677.911	boulder field												Alpine	Mid Slope
NoSample324		441674.2	6767797	1184.909	same swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample325		441687	6768025	1122.869	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample326		441689.9	6767930	1152.627	perMAFROST boulders under moss	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample327		441692.6	6767546	1256.484	no useable soil pockets only rock fragments												Mixed forest	Mid Slope
NoSample328		441713.9	6767199	1491.088	boulder field	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample329		441718.5	6766934	1697.612													Alpine	Mid Slope
NoSample330		441726.6	6767945	1139.281	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample331		441750	6766976	1666.218	boulder field with organic horizon												Alpine	Mid Slope
NoSample332		441764.8	6766861	1748.635	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample333		441775.2	6766503	1743.482	rock rubble slope	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample334		441790.8	6766743	1813.011	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample335		441794.5	6766993	1639.132	boulder field with organic horizon												Alpine	Mid Slope
NoSample336		441802.7	6766548	1790.015	rock rock cliff	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample337		441803.3	6766648	1830.15	no useable soil pockets only rock fragments	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample338		441814.2	6765798	1769.903	snow	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horizon	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample339		441820.8	6767134	1517.23	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample340		441829.1	6766789	1798.752	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample341		441856.9	6765808	1746.313	snow	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample342		441875.1	6766796	1747.783	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample343		441879.8	6766713	1810.091	no useable soil pockets only rock fragments	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample344		441904	6766745	1769.013	snow	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample345		441909.8	6766354	1759.219	boulder	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample346		441916	6767343	1364.326	large boulder slope	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample347		441936.6	6766856	1694.4	rocks ans snow bank	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample348		441939.7	6767230	1427.238	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample349		441943.5	6766623	1816.666	no visible soil	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample350		442009.9	6767290	1433.893	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample351		442045.9	6767430	1353.318	large boulders with small organic soil pockets	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample352		442054.6	6767067	1593.456	boulder field										Weathered bedrock	Moist	Alpine	Mid Slope
NoSample353		442056.9	6767318	1435.477	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample354		442063.6	6765980	1630.097	swampy organics, wet. plus lightning, went downhill	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample355		442081.5	6767209	1520.368	boulder field												Alpine	Mid Slope
NoSample356		442087	6766494	1683.825	rocks					0	0	0	0	0			Alpine	Mid Slope
NoSample357		442088.6	6766239	1664.091	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample358		442093	6767100	1593.093	boulder field										Weathered bedrock	Moist	Alpine	Mid Slope
NoSample359		442093.6	6766620	1739.074	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample360		442105.4	6766989	1676.24	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample361		442120.3	6767233	1512.834	boulder field												Alpine	Mid Slope
NoSample362		442130.7	6767376	1397.81	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample363		442139.3	6766771	1734.716	rpck only	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample364		442163.7	6767163	1561.8	boulder field					0	0	0	0	0	Weathered bedrock	Moist	Alpine	Mid Slope
NoSample365		442218.2	6766923	1747.275	rock only	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample366		442221.4	6766573	1645.138	out crop					0	0	0	0	0			Mixed forest	Mid Slope
NoSample367		442232.5	6766814	1698.885	rock cliff	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample368		442240.3	6767070	1625.134	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample369		442249.5	6766470	1606.166	rocky					0		0				Dry	Mixed forest	Mid Slope
NoSample370		442269.2	6766366	1549.344	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample371		442275.4	6767098	1618.039	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample372		442296.5	6766632	1587.259	rocky					0	0	0	0	0		Dry	Alpine	Mid Slope

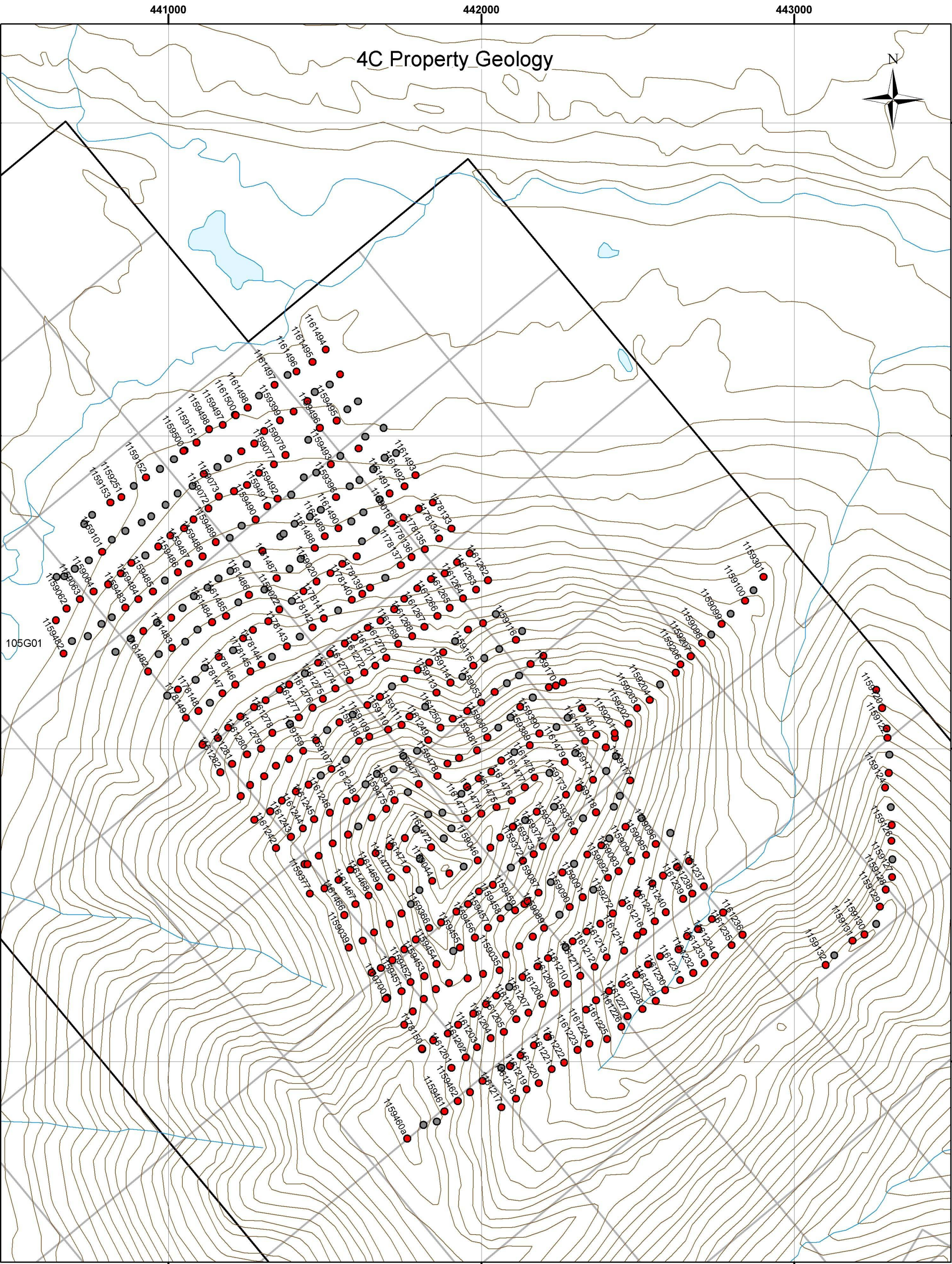
Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample373		442300.3	6766986	1698.509	useable soil pockets. only rock and thin organics	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample374		442324.9	6766777	1612.742	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample375		442358.5	6766548	1538.845	rocky					0	0	0		0	Weathered bedrock	Dry	Mixed forest	Mid Slope
NoSample376		442399.2	6766929	1623.023	same as last station...	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample377		442423.3	6766814	1572.158	too steep	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample378		442430	6766976	1620.241	large boulders only	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample379		442442.8	6766850	1559.74	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample380		442571.7	6767205	1501.608	rocks and steep	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample381		442604.4	6766731	1437.755	rocks		A		Dark Brown	0		0			Weathered bedrock	Dry	Mixed forest	Mid Slope
NoSample382		442735.5	6767365	1340.152	rocky		A			0	0	0	0	0	Weathered bedrock	Dry	Alpine	Mid Slope
NoSample383		442797.3	6767431	1309.846	three inches of organic horizon, then solid rocky in five locations		A			0	0	0		0		Dry	Mixed forest	Mid Slope
NoSample384		442870	6767506	1286.717	again, a few inches of ash and then rock everywhere					0		0		0		Dry	Mixed forest	Valley Lowland
NoSample385		443128.4	6766340	1614.321	rocks and steep	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample386		443262.1	6766440	1621.537	rocks and steep ridge top	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample387		443289.4	6764386	1439.18	loose rubble with only organic soil on top	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample388		443304	6766980	1432.053	large rock field	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample389		443309.3	6766813	1497.998	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample390		443314.7	6766646	1558.106	rocks	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample391		443344	6764410	1433.904	same as last station	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample392		443425.8	6764374	1380.934	boulder field									0	Till	Dry	Mixed forest	Valley Lowland
NoSample393		443502.8	6764426	1359.87	boulder field with organic layer		A								Till	Dry	Mixed forest	Valley Lowland
NoSample394		443517.2	6764335	1319.554	moss on boulders, steep	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample395		443550.1	6764453	1345.664	boulder field with organic horizon										Till	Dry	Mixed forest	Valley Lowland
NoSample396		443563.3	6764355	1292.975	moss on boulders, organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample397		443593.1	6764483	1332.742	ash and organic horizon and rocks										Till	Dry	Mixed forest	Valley Lowland
NoSample398		443593.5	6764582	1350.542	rock rubble	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample399		443607.9	6764373	1285.733	moss on boulders , some organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample400		443614.1	6765232	1354.851	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample401		443639.7	6765131	1342.478	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample402		443647.1	6765364	1355.73	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample403		443649.2	6765256	1343.054	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample404		443682	6764425	1266.559	moss on boulders, looked hard found ash and organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample405		443688.5	6765395	1339.597	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample406		443722.6	6765183	1295.255	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample407		443754.1	6764695	1274.832	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample408		443778.6	6765342	1292.268	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample409		443779.5	6764495	1240.089	boulders	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample410		443801	6764876	1271.727	overgrown	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample411		443814.5	6764769	1250.45	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample412		443939.3	6764865	1216.369	permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample413		444024.6	6765166	1185.852	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample414		444041.3	6765057	1175.502	wet and deep organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland

Sample ID	Dup Sample ID	UTM E Nad 83-9	UTM N Nad 83-9	elevation	Comments	Depth	Horiz on	Depth Within Horizon	Colour	Org %	Sand %	Silt %	Clay %	Clasts %	Parent Material	Moisture	Veg Cover	Terrain
NoSample415		444089.2	6765088	1166.773	perMAFROST	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample416		444106.7	6764976	1165.258	marsh. wet clays to permafrost	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample417		444112.7	6764724	1180.613	swamp	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample418		444122.2	6764870	1173.58	s s s swamp					0	0	0	0	0	Till	Wet	Mixed forest	Valley Lowland
NoSample419		444140.5	6764751	1174.697	swamp organic	50-60	C	10-15	Light Brown	0	0	0	0	0	Till	Dry	Mixed forest	Valley Lowland
NoSample420		444167.3	6764888	1157.138	s s s still swamp					0	0	0	0	0	Till	Wet	Mixed forest	Valley Lowland
NoSample421		444194.6	6764922	1159.018	s s s river					0	0	0	0	0	Till	Wet	Mixed forest	Valley Lowland
NoSample422		442408.9	6766713	1534.702	rocky					0	0	0	0	0		Dry	Mixed forest	Mid Slope
NoSample423		442512	6766778	1500.418	rocky					0	0	0	0	0		Dry	Alpine	Mid Slope

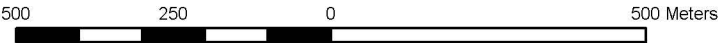
APPENDIX F- 2011 SOIL RESULTS

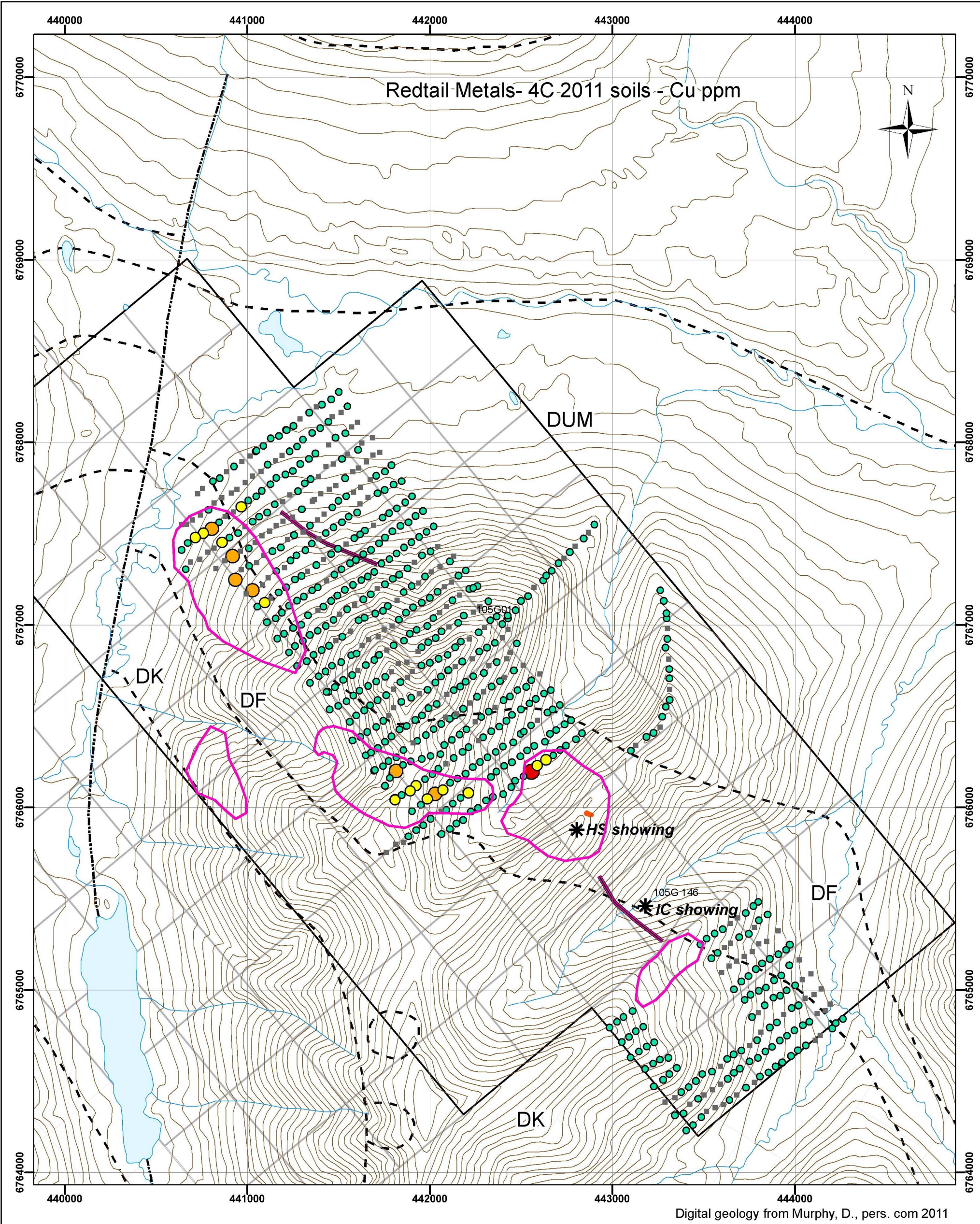


4C - 2011 soil sample location- North Grid

- No sample site ●
- Soil sample site ●

1:12,000





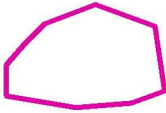
Legend

FOC_20110902_SoilsAssays

Cu_ppm

- no sample
- 0.1 - 166.5 ppm
- 166.51 - 416 ppm
- 417.6 - 838 ppm
- 838 - 2082.5 ppm

4C - 2011 soils- Cu

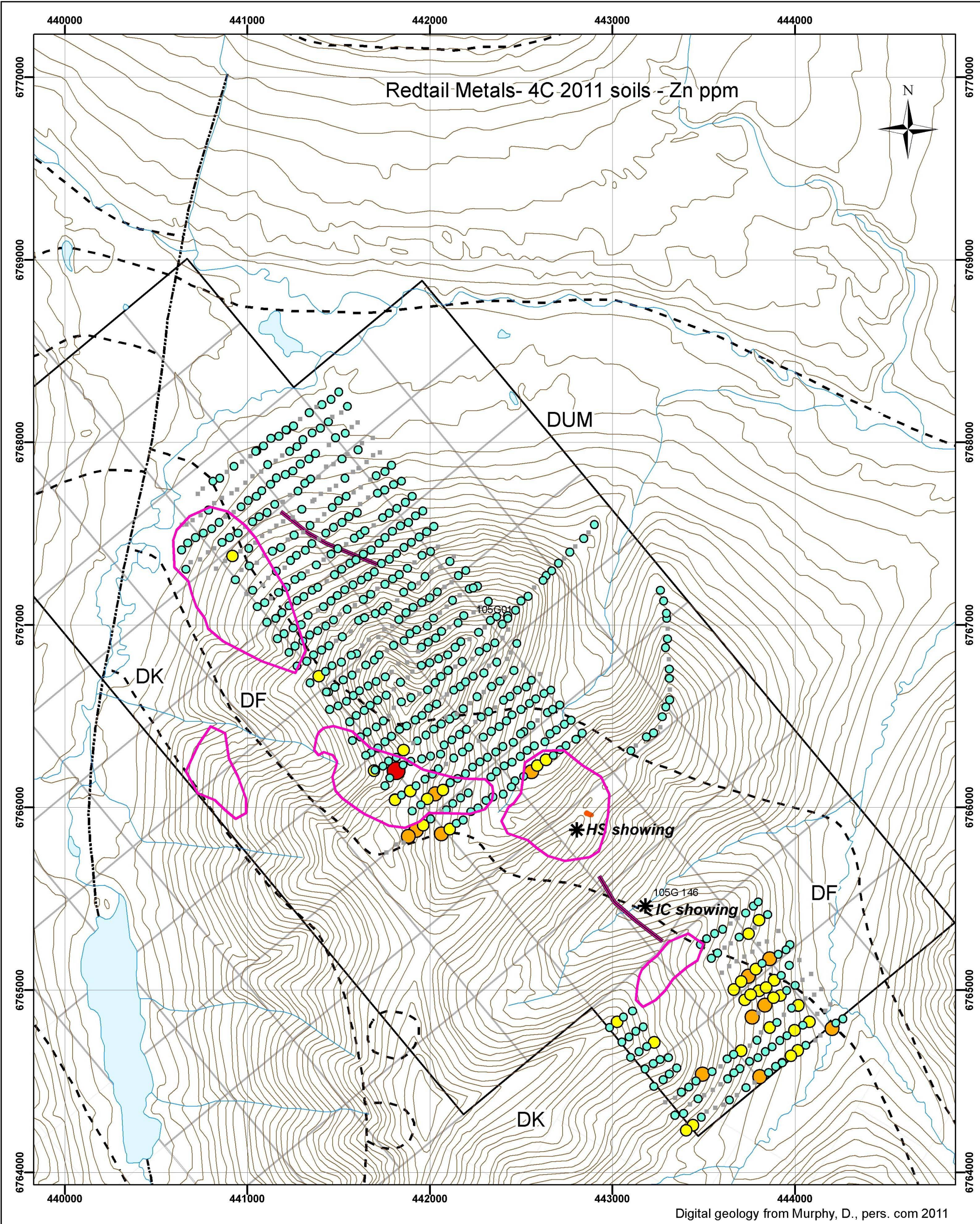


area of high Cu values



VTEM conductor





Legend

FOC_20110902_SoilsAssays

Zn_ppm

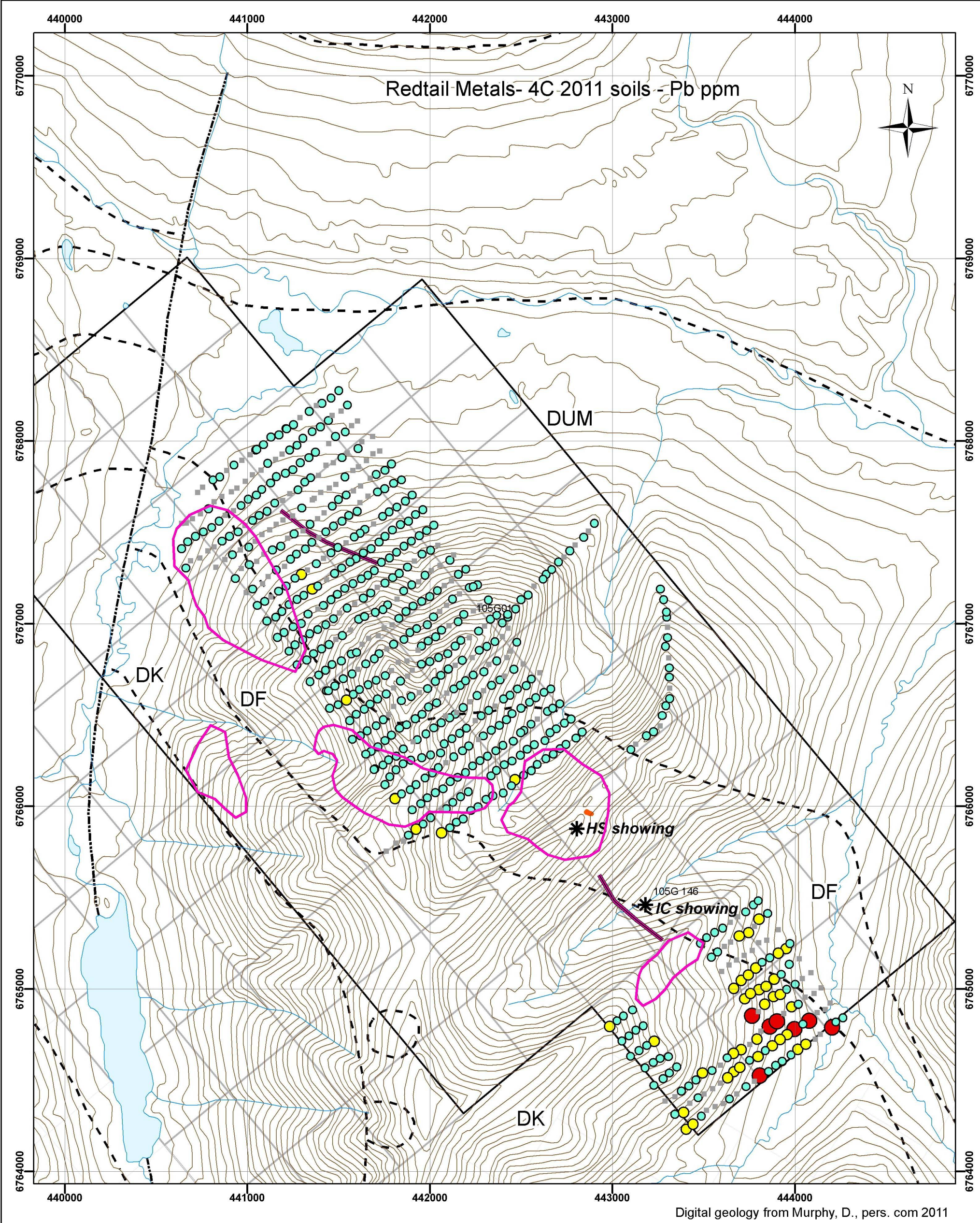
- no sample
- 0.1 - 94 ppm
- 94.1 - 149 ppm
- 149.1 - 294 ppm
- 294.1 - 604 ppm

4C - 2011 soils- Zn

area of high Cu values

VTEM conductor





Legend

FOC_20110902_SoilsAssays

Pb_ppm

- no sample
- 0.1 - 12.7 ppm
- 12.71 - 28.4 ppm
- 28.41 - 75.6 ppm

4C - 2011 soils- Pb

area of high Cu values

VTEM conductor



APPENDIX G- ASSAY CERTIFICATES



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4 Canada

Submitted By: Hugh Baker
Receiving Lab: Canada-Whitehorse
Received: July 12, 2011
Report Date: August 05, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11000536.1

CLIENT JOB INFORMATION

Project: 4c
Shipment ID: 4C-2011-S-1
P.O. Number: quotation NA-11-435
Number of Samples: 322

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Greg Dawson
Jack Cote
Andrew Caldwell
Gilles Dessureau

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Redtail Metals Corp**
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4 Canada

Project: 4c
Report Date: August 05, 2011

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI11000536.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1161201	Soil	0.4	91.8	3.8	35	<0.1	64.9	18.7	372	2.31	<0.5	1.5	0.3	11	<0.1	0.2	<0.1	56	0.50	0.070	3	
1161202	Soil	0.4	70.9	2.4	44	0.1	91.7	15.6	600	2.21	<0.5	1.7	0.1	13	0.1	0.2	<0.1	55	0.79	0.056	5	
1161203	Soil	0.4	206.6	8.2	145	<0.1	83.7	32.9	462	3.33	0.8	1.0	1.7	10	0.2	<0.1	0.1	107	0.28	0.049	11	
1161204	Soil	0.4	590.4	1.9	242	<0.1	96.8	38.8	201	2.46	<0.5	1.2	0.2	8	0.3	0.1	<0.1	49	0.20	0.034	3	
1161205	Soil	0.7	233.3	11.2	100	<0.1	42.8	17.4	248	2.37	1.1	4.4	0.3	5	0.2	0.2	0.1	54	0.12	0.045	5	
1161206	Soil	0.5	96.5	4.6	51	<0.1	42.1	12.8	347	1.96	<0.5	1.2	0.2	7	0.1	0.1	<0.1	51	0.16	0.049	4	
1161207	Soil	0.4	76.0	2.6	34	0.1	35.4	9.8	143	1.69	<0.5	1.3	0.2	7	0.3	0.2	<0.1	45	0.33	0.033	2	
1161208	Soil	0.5	72.9	2.2	31	<0.1	41.1	12.1	440	1.67	0.9	0.9	0.3	8	0.1	0.1	<0.1	41	0.31	0.042	3	
1161209	Soil	0.4	100.3	1.9	36	<0.1	56.1	18.5	233	2.09	0.9	3.1	0.6	6	0.1	0.1	<0.1	45	0.28	0.043	3	
1161210	Soil	0.7	68.9	3.9	52	0.1	70.7	15.3	383	2.58	1.2	0.7	0.4	8	0.3	0.3	<0.1	58	0.23	0.040	4	
1161211	Soil	0.5	67.1	3.1	37	<0.1	56.9	15.3	294	2.14	0.9	2.1	0.3	6	<0.1	0.2	<0.1	54	0.27	0.035	4	
1161212	Soil	0.5	80.0	2.3	51	<0.1	92.9	18.1	318	1.98	1.0	1.3	0.4	11	0.2	0.2	<0.1	46	0.33	0.048	4	
1161213	Soil	0.4	33.1	6.3	47	<0.1	916.5	53.0	776	4.12	2.6	0.7	1.7	10	<0.1	0.3	<0.1	41	0.16	0.035	6	
1161214	Soil	0.4	82.7	2.4	42	<0.1	464.6	32.3	425	3.09	1.3	<0.5	1.1	13	<0.1	0.2	<0.1	58	0.58	0.037	4	
1161215	Soil	0.8	71.7	3.1	31	<0.1	96.3	14.3	351	1.50	1.1	1.6	0.3	15	<0.1	0.3	<0.1	31	0.61	0.066	4	
1161216	Soil	0.3	53.1	3.2	45	<0.1	173.1	23.3	357	2.55	1.3	1.5	1.1	7	0.1	0.2	<0.1	55	0.34	0.032	5	
1161217	Soil	2.0	143.4	13.6	178	<0.1	87.8	24.1	1590	4.46	4.4	2.9	5.2	7	<0.1	0.3	0.3	101	0.03	0.035	11	
1161218	Soil	1.1	79.6	5.0	99	0.3	61.3	19.7	942	3.31	1.8	2.4	1.1	9	0.3	0.3	0.1	92	0.16	0.062	10	
1161219	Soil	0.9	98.6	5.9	93	0.2	79.6	26.6	840	4.59	1.5	1.6	0.8	8	0.2	0.2	0.2	127	0.14	0.047	9	
1161220	Soil	0.4	93.7	1.7	50	<0.1	69.4	29.8	1719	3.05	<0.5	2.1	0.2	10	0.2	0.1	<0.1	64	0.33	0.054	3	
1161221	Soil	0.4	69.8	4.3	44	0.1	77.0	15.5	227	2.52	1.7	3.1	1.1	8	0.1	0.2	<0.1	62	0.28	0.039	6	
1161222	Soil	0.6	62.3	4.9	45	0.1	64.5	13.3	394	2.44	0.7	1.5	0.5	7	0.1	0.2	<0.1	60	0.22	0.054	5	
1161223	Soil	1.5	53.1	11.5	72	0.2	48.9	10.9	352	3.27	1.8	1.3	1.3	7	0.2	0.2	0.3	79	0.15	0.040	10	
1161224	Soil	2.6	26.5	10.2	51	0.2	18.2	6.8	548	2.49	1.4	1.4	1.2	4	0.1	0.3	0.3	64	0.07	0.044	10	
1161225	Soil	1.3	32.6	8.7	44	0.2	18.9	11.6	818	1.76	0.6	1.6	0.2	6	0.1	0.3	0.2	47	0.12	0.062	5	
1161226	Soil	1.8	72.7	10.1	82	<0.1	33.6	11.3	348	3.21	1.6	1.2	3.0	10	0.2	0.2	0.2	78	0.46	0.043	10	
1161227	Soil	2.4	58.8	15.3	91	0.1	48.8	15.2	575	4.50	3.4	2.6	4.1	6	0.2	0.4	0.3	79	0.15	0.048	11	
1161228	Soil	0.9	94.4	7.3	79	<0.1	77.5	17.0	461	2.97	1.7	1.1	1.2	13	0.1	0.1	0.1	82	0.56	0.049	9	
1161229	Soil	1.5	2082	8.3	294	0.1	113.0	76.9	674	4.84	0.9	6.6	1.6	16	0.4	<0.1	0.1	120	0.48	0.061	9	
1161230	Soil	0.9	350.2	4.0	140	0.2	46.6	19.4	253	3.64	<0.5	11.9	0.4	8	0.1	0.1	<0.1	91	0.22	0.047	5	



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161201	Soil	94	0.84	155	0.086	<1	1.58	0.033	0.20	<0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
1161202	Soil	200	1.08	167	0.057	<1	1.93	0.040	0.05	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
1161203	Soil	108	1.41	288	0.112	<1	2.80	0.014	0.33	<0.1	0.03	6.8	<0.1	<0.05	8	<0.5	<0.2
1161204	Soil	40	0.64	64	0.030	<1	1.90	0.022	0.02	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1161205	Soil	53	0.61	57	0.040	<1	1.66	0.017	0.03	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
1161206	Soil	68	0.60	123	0.055	<1	1.66	0.024	0.07	<0.1	0.02	2.5	<0.1	<0.05	4	0.7	<0.2
1161207	Soil	55	0.49	42	0.088	<1	0.99	0.029	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1161208	Soil	64	0.66	89	0.065	<1	2.13	0.042	0.05	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1161209	Soil	71	0.72	76	0.091	<1	2.08	0.030	0.07	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
1161210	Soil	84	0.70	82	0.098	<1	1.43	0.024	0.05	<0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
1161211	Soil	81	0.69	67	0.100	<1	1.80	0.034	0.04	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
1161212	Soil	74	0.79	108	0.076	<1	1.80	0.049	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
1161213	Soil	364	3.31	108	0.066	2	0.94	0.019	0.09	0.2	0.02	5.4	<0.1	<0.05	3	<0.5	<0.2
1161214	Soil	195	2.29	118	0.098	1	1.33	0.048	0.09	<0.1	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
1161215	Soil	71	0.54	106	0.029	<1	1.12	0.031	0.04	<0.1	0.03	1.8	<0.1	0.06	3	<0.5	<0.2
1161216	Soil	152	1.36	75	0.132	<1	1.40	0.032	0.09	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
1161217	Soil	103	0.95	1200	0.143	<1	1.90	0.011	0.61	<0.1	0.01	7.7	0.5	<0.05	8	0.9	<0.2
1161218	Soil	97	0.81	486	0.085	<1	1.65	0.019	0.31	<0.1	0.02	6.6	0.2	0.06	6	<0.5	<0.2
1161219	Soil	148	1.21	480	0.121	<1	2.66	0.014	0.37	<0.1	0.03	8.0	0.3	<0.05	8	<0.5	<0.2
1161220	Soil	110	0.80	134	0.051	<1	2.12	0.023	0.06	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
1161221	Soil	127	1.07	90	0.130	<1	2.39	0.027	0.05	0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
1161222	Soil	101	0.64	84	0.080	<1	2.11	0.026	0.06	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
1161223	Soil	80	0.54	146	0.119	<1	1.26	0.018	0.11	<0.1	0.01	3.5	0.1	<0.05	9	<0.5	<0.2
1161224	Soil	32	0.29	96	0.084	<1	0.98	0.013	0.13	<0.1	0.02	2.3	0.1	<0.05	8	<0.5	<0.2
1161225	Soil	32	0.33	67	0.050	<1	0.78	0.019	0.10	<0.1	0.06	1.3	0.2	0.06	6	<0.5	<0.2
1161226	Soil	56	0.72	165	0.149	<1	1.38	0.019	0.24	0.1	0.02	5.0	0.2	<0.05	8	0.6	<0.2
1161227	Soil	81	0.79	143	0.155	<1	2.15	0.015	0.21	0.2	0.03	5.4	0.3	<0.05	10	0.7	<0.2
1161228	Soil	122	1.10	212	0.111	<1	2.09	0.030	0.11	<0.1	0.02	5.0	0.1	<0.05	7	<0.5	<0.2
1161229	Soil	119	1.62	241	0.125	<1	3.03	0.025	0.24	<0.1	0.02	8.3	0.1	0.08	9	1.2	<0.2
1161230	Soil	72	1.09	125	0.059	<1	1.74	0.023	0.05	<0.1	0.02	4.1	<0.1	0.06	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161231	Soil	0.6	294.0	6.8	114	<0.1	54.9	24.8	560	3.95	<0.5	5.8	2.1	11	0.3	<0.1	<0.1	98	0.61	0.063	8
1161232	Soil	0.3	120.1	1.8	71	<0.1	95.4	30.8	466	3.75	<0.5	1.0	0.6	9	0.2	<0.1	<0.1	101	0.69	0.051	3
1161233	Soil	0.4	97.0	1.2	49	<0.1	84.8	30.3	490	3.16	<0.5	1.2	0.3	8	<0.1	<0.1	<0.1	84	0.74	0.057	2
1161234	Soil	0.4	100.6	0.7	44	<0.1	74.5	26.4	369	3.20	<0.5	<0.5	0.3	6	<0.1	0.1	0.3	82	0.64	0.038	2
1161235	Soil	0.3	166.5	2.0	51	<0.1	61.4	35.8	555	3.95	3.0	0.9	0.3	7	0.1	0.3	0.2	82	0.76	0.053	2
1161236	Soil	0.3	37.8	1.3	32	<0.1	20.0	8.6	82	1.14	1.6	<0.5	0.1	9	0.5	0.4	1.1	28	0.52	0.057	1
1161237	Soil	0.4	17.3	5.1	43	<0.1	1335	80.4	831	5.21	5.6	1.1	0.9	5	0.1	0.4	<0.1	28	0.09	0.036	3
1161238	Soil	0.3	17.5	3.5	45	<0.1	1173	75.1	838	5.34	6.5	2.1	0.8	8	0.2	0.5	<0.1	28	0.10	0.049	4
1161239	Soil	0.6	19.6	11.3	48	<0.1	1219	82.9	896	4.45	4.8	2.7	0.7	8	0.2	1.0	0.1	28	0.18	0.067	4
1161240	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.
1161241	Soil	0.2	18.9	2.7	43	<0.1	1273	76.8	873	5.83	3.8	<0.5	0.6	6	0.2	0.5	<0.1	25	0.06	0.048	3
1161262	Soil	0.2	73.4	3.8	34	<0.1	719.2	49.1	449	3.80	3.8	4.6	1.4	9	0.1	0.3	0.1	24	0.09	0.028	4
1161263	Soil	0.4	5.5	5.4	34	<0.1	946.3	84.0	1130	4.36	3.0	<0.5	0.4	9	0.1	0.5	<0.1	19	0.13	0.047	2
1161264	Soil	0.2	9.5	3.6	47	<0.1	511.8	50.9	591	4.55	2.2	<0.5	1.2	4	0.1	0.4	0.4	46	0.09	0.015	4
1161265	Soil	<0.1	8.4	2.2	24	<0.1	1096	70.2	982	4.85	10.4	1.3	0.4	4	0.1	0.2	0.1	13	0.13	0.017	2
1161266	Soil	0.1	24.3	2.8	46	<0.1	1581	106.7	1147	5.53	3.2	1.8	0.6	4	0.2	0.3	<0.1	21	0.05	0.037	3
1161267	Soil	0.1	26.6	1.5	38	<0.1	2232	151.1	1460	6.03	2.0	3.6	0.3	2	0.1	0.4	<0.1	19	0.04	0.017	1
1161268	Soil	0.5	20.2	3.4	50	<0.1	2337	184.0	2096	7.72	2.3	3.5	0.4	3	0.1	0.6	<0.1	27	0.04	0.037	1
1161269	Soil	0.5	13.4	4.0	44	<0.1	1803	117.6	1197	6.23	3.0	1.1	1.2	5	0.2	0.5	<0.1	26	0.06	0.037	5
1161270	Soil	0.2	10.5	1.9	40	<0.1	2016	137.8	1425	6.16	2.9	2.1	0.5	2	<0.1	0.5	<0.1	20	0.04	0.026	2
1161271	Soil	0.3	7.7	7.6	32	<0.1	2107	146.8	1588	5.16	2.2	3.6	0.5	2	<0.1	1.0	<0.1	18	0.03	0.016	1
1161272	Soil	0.2	14.0	2.6	38	<0.1	1739	118.4	1281	4.94	2.8	3.1	1.0	3	<0.1	0.3	<0.1	19	0.05	0.025	3
1161273	Soil	0.2	13.7	3.2	41	<0.1	1602	97.4	1035	5.63	2.6	2.5	0.9	5	0.1	0.5	<0.1	23	0.05	0.030	3
1161274	Soil	0.5	15.6	4.4	40	<0.1	1074	75.4	886	4.67	3.0	1.2	1.4	8	0.3	0.5	<0.1	26	0.11	0.049	6
1161275	Soil	0.5	15.0	4.8	44	<0.1	1003	65.0	721	4.79	3.3	1.2	1.9	6	0.2	0.5	<0.1	29	0.09	0.035	7
1161276	Soil	0.1	11.9	2.3	31	<0.1	1797	115.2	1108	5.42	2.8	1.9	0.8	2	<0.1	0.3	<0.1	17	0.05	0.012	2
1161277	Soil	0.2	14.1	3.5	43	<0.1	1231	72.5	726	4.68	3.5	0.9	0.8	5	0.1	0.7	<0.1	28	0.06	0.042	4
1161278	Soil	0.5	12.1	4.3	41	<0.1	754.9	47.6	575	4.00	18.9	1.7	1.4	12	0.2	0.6	0.2	27	0.15	0.046	6
1161279	Soil	0.2	76.2	3.7	52	<0.1	452.8	35.9	437	4.87	15.2	2.3	2.0	6	0.1	0.3	0.1	84	0.21	0.034	7
1161280	Soil	0.4	97.4	5.0	78	<0.1	289.5	28.3	720	4.83	5.7	7.9	3.3	7	0.1	0.3	<0.1	98	0.23	0.084	10



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161231	Soil	83	1.17	358	0.123	<1	1.87	0.038	0.29	<0.1	0.03	7.5	0.1	<0.05	6	0.6	<0.2
1161232	Soil	184	2.09	407	0.182	<1	2.37	0.046	0.28	<0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
1161233	Soil	158	1.63	199	0.172	<1	1.89	0.051	0.24	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
1161234	Soil	137	1.49	207	0.178	1	1.61	0.037	0.22	<0.1	<0.01	3.8	0.1	0.15	5	<0.5	<0.2
1161235	Soil	94	1.64	121	0.181	<1	1.92	0.035	0.24	<0.1	0.01	4.5	0.1	0.11	6	<0.5	<0.2
1161236	Soil	38	0.29	87	0.049	3	0.53	0.028	0.08	<0.1	0.08	1.8	<0.1	0.19	2	<0.5	<0.2
1161237	Soil	638	10.46	45	0.013	11	0.34	0.007	0.02	0.2	0.02	3.1	<0.1	0.11	1	<0.5	<0.2
1161238	Soil	670	8.78	63	0.015	9	0.48	0.009	0.03	0.3	0.04	3.3	<0.1	0.09	1	<0.5	<0.2
1161239	Soil	704	7.64	79	0.019	11	0.42	0.012	0.04	0.4	0.07	3.4	<0.1	0.09	1	<0.5	<0.2
1161240	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.
1161241	Soil	629	9.87	50	0.013	13	0.40	0.007	0.02	0.4	0.02	3.7	<0.1	0.05	1	<0.5	<0.2
1161262	Soil	411	4.22	60	0.028	5	0.68	0.010	0.04	0.7	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1161263	Soil	448	5.77	63	0.012	5	0.32	0.011	0.02	0.6	0.03	2.6	<0.1	<0.05	1	<0.5	<0.2
1161264	Soil	599	2.69	41	0.069	3	0.51	0.010	0.02	0.7	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1161265	Soil	377	10.49	37	0.006	3	0.23	0.003	<0.01	0.2	<0.01	3.8	<0.1	<0.05	<1	0.7	<0.2
1161266	Soil	594	10.88	47	0.010	12	0.34	0.006	0.02	0.4	0.04	3.4	<0.1	<0.05	1	<0.5	<0.2
1161267	Soil	710	9.67	38	0.005	16	0.17	0.005	0.02	0.5	<0.01	3.9	<0.1	<0.05	<1	0.6	<0.2
1161268	Soil	1175	14.58	56	0.009	21	0.24	0.006	0.01	0.5	<0.01	4.2	<0.1	<0.05	<1	<0.5	<0.2
1161269	Soil	728	11.66	63	0.015	16	0.42	0.005	0.02	0.4	<0.01	3.7	<0.1	<0.05	1	<0.5	<0.2
1161270	Soil	781	14.95	34	0.007	16	0.22	0.005	0.01	0.4	0.01	4.3	<0.1	<0.05	<1	<0.5	<0.2
1161271	Soil	780	16.49	26	0.006	21	0.15	0.003	0.01	0.5	0.02	4.1	<0.1	<0.05	<1	1.7	<0.2
1161272	Soil	484	13.03	45	0.011	15	0.28	0.005	0.02	0.3	<0.01	4.1	<0.1	<0.05	<1	<0.5	<0.2
1161273	Soil	708	13.08	43	0.011	17	0.32	0.007	0.02	0.3	<0.01	4.1	<0.1	<0.05	1	<0.5	<0.2
1161274	Soil	500	8.04	79	0.017	10	0.51	0.011	0.03	0.2	0.03	3.1	<0.1	<0.05	1	<0.5	<0.2
1161275	Soil	573	7.82	64	0.022	11	0.56	0.008	0.02	0.2	0.01	3.1	<0.1	<0.05	2	1.2	<0.2
1161276	Soil	569	13.51	26	0.006	11	0.18	0.004	0.01	0.4	<0.01	3.1	<0.1	<0.05	<1	0.7	<0.2
1161277	Soil	613	8.76	53	0.019	11	0.44	0.009	0.03	0.7	<0.01	3.1	<0.1	<0.05	1	<0.5	<0.2
1161278	Soil	385	5.48	72	0.020	7	0.57	0.009	0.03	0.5	0.01	3.0	<0.1	<0.05	2	<0.5	<0.2
1161279	Soil	223	3.72	128	0.132	3	1.81	0.020	0.15	0.2	<0.01	6.7	0.2	<0.05	6	<0.5	<0.2
1161280	Soil	129	2.34	197	0.202	2	2.15	0.011	0.35	0.2	<0.01	6.2	0.2	<0.05	7	<0.5	<0.2



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Project: 4c
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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	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1
1161281	Soil	0.3	13.5	6.2	29	<0.1	103.8	12.5	230	1.87	1.8	<0.5	1.4	6	0.1	0.4	0.2	45	0.10	0.034	7
1161282	Soil	0.4	22.2	3.0	22	<0.1	24.0	6.2	110	1.30	1.0	3.1	0.8	6	<0.1	0.4	<0.1	46	0.25	0.015	4
1160678	Soil	0.4	11.6	6.2	48	<0.1	679.4	62.3	807	5.00	5.0	1.2	2.8	8	0.2	0.5	0.2	35	0.11	0.027	7
1160679	Soil	0.4	17.2	5.8	48	<0.1	957.5	50.5	593	4.56	5.8	1.6	3.0	7	0.1	0.5	0.1	29	0.06	0.026	9
1160680	Soil	0.2	12.4	2.4	31	<0.1	1442	84.5	1023	5.29	9.5	2.1	0.6	3	0.1	0.4	<0.1	17	0.07	0.027	3
1160681	Soil	0.1	14.9	2.1	41	<0.1	1428	100.4	1158	5.63	4.0	1.3	0.7	4	<0.1	0.4	<0.1	22	0.04	0.030	2
1160682	Soil	0.3	8.7	4.0	46	<0.1	1451	115.1	1197	7.20	3.1	<0.5	0.5	3	0.2	0.6	<0.1	28	0.05	0.041	2
1160683	Soil	0.2	22.5	1.9	44	<0.1	1819	104.8	1063	5.77	2.4	6.2	0.7	3	0.1	0.6	<0.1	22	0.04	0.030	2
1160684	Soil	0.2	9.4	3.4	26	<0.1	828.8	54.9	540	4.03	1.4	<0.5	0.5	5	0.1	0.6	<0.1	22	0.04	0.031	2
1160685	Soil	0.4	24.3	2.7	40	<0.1	1635	104.3	1085	5.31	2.1	3.9	1.2	5	0.1	0.9	0.2	28	0.07	0.028	4
1160686	Soil	0.4	15.3	3.8	41	<0.1	1555	111.4	1274	5.58	2.2	1.0	1.0	4	0.1	0.8	0.2	29	0.05	0.030	3
1160687	Soil	0.5	19.4	3.5	42	<0.1	1401	95.4	1062	4.75	2.5	3.0	1.8	6	0.1	0.5	0.2	29	0.08	0.028	6
1160688	Soil	0.3	8.0	2.5	46	<0.1	1317	123.0	1361	5.56	2.1	2.0	0.3	6	0.1	0.6	0.1	24	0.06	0.041	1
1160689	Soil	0.4	20.6	4.7	43	<0.1	765.7	59.7	748	4.54	2.7	<0.5	1.6	7	0.2	0.6	0.2	37	0.07	0.036	5
1160690	Soil	0.4	14.6	3.8	41	<0.1	1160	87.4	996	4.80	2.3	<0.5	0.6	6	0.2	0.4	0.1	26	0.07	0.052	3
1160691	Soil	0.2	7.6	1.0	35	<0.1	1616	126.1	1253	5.17	2.1	1.0	0.2	1	<0.1	0.6	<0.1	19	0.03	0.020	<1
1160692	Soil	0.2	16.3	17.6	63	<0.1	937.1	51.7	500	3.43	8.3	4.0	0.7	10	0.1	0.3	<0.1	34	0.08	0.015	2
1160693	Soil	0.3	28.8	5.8	70	<0.1	451.7	30.2	447	3.40	6.9	<0.5	3.4	7	0.1	0.4	0.2	50	0.12	0.043	9
1160694	Soil	0.4	44.6	5.4	51	<0.1	208.7	20.8	387	3.00	4.7	7.1	2.0	7	<0.1	0.3	0.1	64	0.14	0.041	6
1160695	Soil	0.3	63.2	4.5	69	<0.1	228.9	20.6	457	3.08	3.5	0.6	1.9	10	0.2	0.3	0.2	62	0.18	0.063	8
1160696	Soil	0.4	58.7	4.2	50	<0.1	107.5	17.6	315	2.76	4.0	<0.5	1.4	12	<0.1	0.5	0.2	57	0.22	0.041	5
1160697	Soil	0.4	76.5	3.6	36	<0.1	47.5	14.8	338	2.23	2.0	<0.5	0.6	14	<0.1	0.4	0.1	54	0.39	0.029	4
1160698	Soil	0.6	130.4	2.8	55	<0.1	51.4	16.9	171	1.90	1.6	3.9	0.5	13	<0.1	0.5	0.1	46	0.44	0.028	5
1160699	Soil	0.8	135.6	7.8	94	0.1	57.2	30.3	934	4.67	<0.5	1.7	3.7	13	0.1	0.4	0.1	109	0.51	0.087	16
1160700	Soil	0.7	136.7	7.4	97	0.1	56.5	29.1	896	4.84	0.5	1.3	3.6	14	0.1	0.2	0.1	115	0.54	0.096	17
1159450	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.
1159451	Soil	0.6	140.2	2.1	37	<0.1	47.6	28.7	609	3.00	<0.5	<0.5	0.6	10	0.1	0.7	<0.1	61	0.63	0.061	4
1159452	Soil	0.5	83.2	3.0	53	<0.1	128.9	25.7	658	3.55	0.8	<0.5	2.4	16	<0.1	0.4	<0.1	86	0.60	0.059	9
1159453	Soil	0.6	76.8	2.7	62	<0.1	121.9	26.5	541	3.98	0.7	<0.5	2.1	24	<0.1	0.4	<0.1	117	0.54	0.052	8
1159454	Soil	1.0	78.8	5.8	97	<0.1	124.7	18.0	908	5.10	2.0	<0.5	8.0	12	<0.1	<0.1	0.1	124	0.27	0.111	18



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161281	Soil	199	0.52	95	0.090	<1	0.63	0.013	0.06	0.3	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1161282	Soil	47	0.38	58	0.089	<1	0.75	0.028	0.03	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
1160678	Soil	445	4.36	65	0.040	4	0.89	0.010	0.04	0.4	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1160679	Soil	390	5.50	64	0.027	4	0.74	0.007	0.04	0.4	<0.01	3.4	<0.1	<0.05	2	<0.5	<0.2
1160680	Soil	460	10.29	38	0.009	5	0.35	0.007	0.01	0.3	<0.01	3.6	<0.1	<0.05	<1	<0.5	<0.2
1160681	Soil	688	11.03	40	0.010	8	0.32	0.006	0.02	0.4	<0.01	3.5	<0.1	<0.05	<1	<0.5	<0.2
1160682	Soil	796	9.78	40	0.010	11	0.32	0.005	0.02	0.3	<0.01	3.7	<0.1	<0.05	1	<0.5	<0.2
1160683	Soil	675	11.95	35	0.010	14	0.30	0.008	0.02	0.3	<0.01	3.5	<0.1	<0.05	<1	<0.5	<0.2
1160684	Soil	507	5.78	31	0.018	8	0.36	0.017	0.02	0.4	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
1160685	Soil	802	8.62	51	0.013	14	0.34	0.008	0.02	0.3	0.01	3.0	<0.1	0.06	1	<0.5	<0.2
1160686	Soil	858	10.04	51	0.012	15	0.33	0.006	0.02	0.4	0.02	3.5	<0.1	<0.05	<1	<0.5	<0.2
1160687	Soil	607	8.85	55	0.018	14	0.43	0.007	0.02	0.3	0.01	3.9	<0.1	<0.05	1	<0.5	<0.2
1160688	Soil	912	8.32	49	0.008	14	0.23	0.008	0.01	0.4	0.01	3.4	<0.1	<0.05	<1	<0.5	<0.2
1160689	Soil	480	5.80	62	0.039	6	0.83	0.010	0.03	0.2	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1160690	Soil	637	9.08	63	0.011	9	0.40	0.007	0.02	0.3	0.02	2.5	<0.1	<0.05	1	<0.5	<0.2
1160691	Soil	769	12.98	26	0.003	16	0.14	0.003	<0.01	0.4	<0.01	2.9	<0.1	<0.05	<1	<0.5	<0.2
1160692	Soil	651	6.82	173	0.048	6	1.61	0.007	0.05	0.3	<0.01	3.3	0.2	<0.05	7	<0.5	<0.2
1160693	Soil	195	2.62	110	0.117	5	1.25	0.010	0.25	0.3	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
1160694	Soil	203	1.51	76	0.140	3	1.32	0.016	0.13	0.2	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
1160695	Soil	140	1.61	141	0.104	2	1.41	0.018	0.10	0.2	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
1160696	Soil	108	1.06	63	0.098	2	1.74	0.023	0.06	0.2	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
1160697	Soil	89	0.78	82	0.084	2	1.68	0.031	0.04	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
1160698	Soil	59	0.69	101	0.067	1	1.15	0.025	0.05	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
1160699	Soil	68	0.91	525	0.092	2	1.70	0.037	0.54	<0.1	0.02	12.2	0.2	<0.05	6	<0.5	<0.2
1160700	Soil	79	1.02	584	0.114	1	1.86	0.040	0.61	<0.1	0.02	12.9	0.2	<0.05	6	<0.5	<0.2
1159450	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.
1159451	Soil	58	0.46	202	0.048	2	0.91	0.036	0.09	<0.1	0.01	8.7	<0.1	<0.05	2	<0.5	<0.2
1159452	Soil	135	1.12	280	0.163	2	1.75	0.043	0.49	<0.1	0.02	7.0	0.2	<0.05	5	<0.5	<0.2
1159453	Soil	228	1.60	273	0.224	2	2.37	0.060	0.70	<0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
1159454	Soil	51	0.96	414	0.267	1	1.32	0.006	0.64	<0.1	0.01	9.4	0.4	<0.05	8	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159455	Soil	0.1	3.3	5.9	52	<0.1	617.1	37.2	487	2.17	0.6	<0.5	0.6	87	<0.1	0.2	<0.1	15	0.09	0.015	1
1159456	Soil	0.2	17.5	2.9	29	<0.1	1543	85.5	832	2.96	3.4	<0.5	0.6	28	0.1	0.3	<0.1	16	0.12	0.023	2
1159457	Soil	0.1	7.7	4.8	34	<0.1	954.9	49.5	489	3.29	2.7	1.0	0.9	65	0.1	0.3	<0.1	19	0.09	0.013	3
1159458	Soil	0.5	18.9	4.6	42	<0.1	743.5	49.9	727	3.63	4.0	0.7	2.4	9	0.1	0.4	<0.1	26	0.11	0.020	8
1159459	Soil	0.3	19.1	3.5	38	<0.1	979.9	56.0	912	3.59	3.6	1.6	1.7	5	<0.1	0.3	<0.1	21	0.06	0.015	5
1159460	Soil	1.4	13.1	12.2	66	0.1	17.9	6.0	406	2.46	5.0	2.2	7.9	9	0.2	0.6	0.4	28	0.09	0.029	23
1159461	Soil	2.7	140.9	9.4	153	<0.1	79.7	20.2	827	3.69	7.6	0.7	3.5	9	<0.1	0.4	0.3	67	0.02	0.043	12
1159462	Soil	2.7	112.0	15.6	172	0.2	70.5	18.2	1399	4.31	2.9	0.8	3.1	9	0.2	0.3	0.4	91	0.04	0.067	15
1159463	Soil	2.0	99.5	9.0	117	0.2	68.5	23.2	1442	4.28	4.8	2.5	3.7	10	0.2	0.2	0.3	112	0.08	0.075	18
1159464	Soil	0.9	85.7	4.4	77	0.2	72.9	21.1	755	3.48	2.2	1.3	1.7	16	0.2	0.1	0.1	86	0.46	0.071	11
1159465	Soil	0.3	54.9	2.0	25	<0.1	48.2	12.4	220	1.48	<0.5	0.7	0.5	8	<0.1	0.2	<0.1	37	0.33	0.058	3
1159466	Soil	0.5	80.2	6.5	73	<0.1	53.8	19.0	502	3.09	0.7	<0.5	1.2	12	0.2	0.2	<0.1	84	0.31	0.067	8
1159467	Soil	0.6	102.2	4.3	62	<0.1	42.4	17.7	444	2.14	0.8	0.9	0.2	7	0.2	0.3	<0.1	48	0.21	0.050	4
1159468	Soil	0.6	180.0	2.0	68	<0.1	36.4	16.1	318	2.42	<0.5	3.1	0.3	11	<0.1	0.2	<0.1	52	0.26	0.048	3
1159469	Soil	0.4	23.2	3.7	50	<0.1	1220	118.3	1329	3.70	4.7	1.3	1.3	11	<0.1	0.9	<0.1	35	0.19	0.041	8
1159470	Soil	0.5	81.8	2.9	88	<0.1	347.8	37.4	967	5.18	5.4	1.7	5.6	14	<0.1	0.2	<0.1	110	0.46	0.119	19
1159471	Soil	0.2	10.7	2.4	33	<0.1	1078	81.0	789	3.27	2.1	3.9	1.3	4	<0.1	0.2	<0.1	19	0.07	0.012	3
1159472	Soil	0.5	16.1	5.0	55	<0.1	1137	81.4	953	5.15	4.4	5.0	1.5	5	0.1	0.6	<0.1	32	0.08	0.044	6
1159473	Soil	0.4	11.0	5.7	58	<0.1	1304	105.2	1237	5.55	4.7	3.6	1.3	5	0.2	0.6	<0.1	31	0.07	0.049	5
1159474	Soil	0.6	13.8	5.2	64	<0.1	1147	97.8	1231	4.27	7.0	2.0	0.7	8	0.3	0.7	<0.1	22	0.16	0.073	4
1159475	Soil	0.4	21.1	5.0	48	<0.1	1099	67.5	900	4.64	8.2	3.4	1.7	6	0.2	0.9	<0.1	24	0.09	0.041	7
1159476	Soil	0.6	19.5	5.4	48	<0.1	839.5	55.4	759	3.86	6.3	3.3	2.5	7	0.3	0.6	0.1	27	0.11	0.034	9
1159477	Soil	0.3	22.6	4.4	62	<0.1	1096	69.5	963	4.67	6.0	6.0	1.1	7	0.2	0.7	<0.1	25	0.11	0.055	5
1159478	Soil	0.3	18.9	5.8	53	<0.1	1343	82.3	1061	4.75	6.8	4.4	0.9	4	0.2	0.7	<0.1	20	0.08	0.039	3
1159479	Soil	0.3	13.6	4.1	47	<0.1	1148	81.0	1169	4.62	7.9	2.8	1.2	4	0.2	0.5	<0.1	23	0.08	0.036	5
1159480	Soil	0.3	15.7	4.0	52	<0.1	1041	66.4	921	4.52	5.1	2.5	0.8	7	0.3	0.4	<0.1	22	0.09	0.051	4
1159481	Soil	0.3	17.4	3.7	52	<0.1	1332	89.9	1041	5.21	5.8	2.9	0.9	4	0.2	0.4	<0.1	25	0.08	0.041	4
1159351	Soil	0.8	189.9	14.7	113	<0.1	36.8	16.7	532	5.53	<0.5	1.1	2.6	4	<0.1	0.2	0.2	175	0.22	0.101	9
1159352	Soil	0.4	91.6	2.8	74	<0.1	42.2	27.6	263	2.05	<0.5	1.6	0.7	5	0.3	0.2	<0.1	55	0.22	0.037	4
1159353	Soil	0.9	195.8	2.9	103	0.1	25.0	12.0	150	3.44	0.6	5.0	0.4	8	<0.1	0.2	<0.1	67	0.11	0.062	5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159455	Soil	437	6.03	929	0.013	2	1.58	0.008	0.02	<0.1	0.01	1.3	0.5	<0.05	5	<0.5	<0.2
1159456	Soil	548	4.47	55	0.009	3	0.62	0.007	0.03	<0.1	0.02	3.5	0.2	<0.05	3	<0.5	<0.2
1159457	Soil	607	7.18	149	0.017	3	1.46	0.006	0.02	0.1	<0.01	3.0	0.4	<0.05	7	<0.5	<0.2
1159458	Soil	284	6.44	59	0.023	6	0.54	0.009	0.02	0.2	0.03	3.3	<0.1	<0.05	2	<0.5	<0.2
1159459	Soil	329	10.41	47	0.018	11	0.44	0.008	0.02	0.1	0.01	3.0	<0.1	<0.05	1	<0.5	<0.2
1159460	Soil	19	0.70	109	0.085	2	1.87	0.008	0.26	0.3	0.04	2.8	0.3	<0.05	8	<0.5	<0.2
1159461	Soil	45	0.54	580	0.108	<1	1.13	0.009	0.33	0.1	0.03	4.7	0.4	<0.05	6	<0.5	<0.2
1159462	Soil	60	0.50	455	0.082	2	1.18	0.008	0.28	0.1	0.01	6.7	0.4	0.07	6	<0.5	<0.2
1159463	Soil	96	0.80	590	0.109	1	1.80	0.012	0.39	<0.1	0.02	9.7	0.3	0.06	7	<0.5	<0.2
1159464	Soil	107	0.99	515	0.088	1	1.84	0.026	0.32	<0.1	0.03	7.8	0.2	<0.05	6	<0.5	<0.2
1159465	Soil	67	0.66	56	0.088	<1	1.72	0.037	0.04	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1159466	Soil	91	1.03	273	0.096	<1	2.10	0.023	0.32	<0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
1159467	Soil	50	0.55	55	0.043	<1	1.17	0.033	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1159468	Soil	53	0.62	91	0.043	1	1.42	0.027	0.04	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
1159469	Soil	398	8.50	174	0.054	12	0.56	0.012	0.20	0.1	0.03	3.6	0.1	<0.05	2	<0.5	<0.2
1159470	Soil	183	3.20	359	0.240	3	1.93	0.034	0.74	0.1	0.02	9.6	0.3	<0.05	8	0.5	<0.2
1159471	Soil	548	10.24	40	0.010	10	0.27	0.005	0.01	0.2	0.01	2.4	<0.1	<0.05	<1	0.5	<0.2
1159472	Soil	818	9.48	79	0.016	9	0.58	0.008	0.03	0.3	0.03	3.6	<0.1	<0.05	2	<0.5	<0.2
1159473	Soil	815	12.15	73	0.013	9	0.50	0.006	0.03	0.2	0.03	3.1	<0.1	<0.05	2	0.5	<0.2
1159474	Soil	502	9.26	97	0.011	9	0.44	0.010	0.05	0.2	0.08	2.7	<0.1	0.06	1	<0.5	<0.2
1159475	Soil	481	9.24	76	0.017	5	0.55	0.007	0.02	0.2	0.02	3.4	<0.1	<0.05	2	<0.5	<0.2
1159476	Soil	311	6.99	87	0.021	4	0.65	0.009	0.03	0.2	0.03	3.2	<0.1	<0.05	2	<0.5	<0.2
1159477	Soil	602	9.05	72	0.017	6	0.58	0.010	0.03	0.2	0.03	3.3	<0.1	<0.05	2	<0.5	<0.2
1159478	Soil	576	12.79	39	0.011	6	0.41	0.007	0.02	0.3	0.04	3.4	<0.1	<0.05	1	<0.5	<0.2
1159479	Soil	514	8.08	53	0.017	5	0.46	0.005	0.02	0.5	0.03	3.7	<0.1	<0.05	1	0.6	<0.2
1159480	Soil	574	7.71	72	0.016	6	0.56	0.011	0.03	0.5	0.03	3.4	<0.1	<0.05	2	<0.5	<0.2
1159481	Soil	681	10.88	55	0.012	9	0.41	0.006	0.02	0.2	0.03	4.0	<0.1	<0.05	1	0.6	<0.2
1159351	Soil	65	1.72	866	0.180	<1	3.15	0.036	1.30	<0.1	0.01	8.3	0.3	<0.05	12	1.1	<0.2
1159352	Soil	36	0.49	57	0.054	<1	1.09	0.024	0.04	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
1159353	Soil	46	0.80	82	0.028	<1	1.53	0.039	0.03	<0.1	0.01	3.4	<0.1	0.10	5	0.7	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159354	Soil	0.4	309.9	1.9	80	<0.1	45.7	22.2	162	2.66	<0.5	2.0	0.5	7	0.2	0.1	<0.1	50	0.17	0.044	3
1159355	Soil	0.4	105.1	3.0	77	0.1	50.3	30.8	995	4.69	<0.5	1.6	0.4	8	0.2	0.3	<0.1	91	0.38	0.063	4
1159356	Soil	0.6	101.7	1.2	57	<0.1	62.7	27.8	322	2.37	<0.5	1.6	0.5	14	0.1	0.2	<0.1	61	0.51	0.047	3
1159357	Soil	0.3	62.5	1.9	27	<0.1	47.0	17.0	188	1.75	0.7	0.9	0.8	10	<0.1	0.3	<0.1	43	0.48	0.030	3
1159358	Soil	0.6	83.1	2.6	73	<0.1	43.8	20.5	298	1.97	0.5	0.8	0.2	11	0.2	0.6	<0.1	49	0.34	0.048	3
1159359	Soil	0.6	81.2	2.6	57	<0.1	79.8	18.7	298	2.29	0.5	1.5	0.5	9	0.2	1.2	<0.1	49	0.30	0.037	3
1159360	Soil	0.4	73.5	2.4	46	0.1	65.1	15.9	217	2.42	0.5	4.5	0.4	8	0.1	0.4	<0.1	55	0.30	0.029	3
1159361	Soil	0.3	34.8	5.5	60	<0.1	513.6	33.5	545	3.38	1.5	0.9	2.2	55	<0.1	0.9	<0.1	60	0.38	0.046	8
1159362	Soil	0.4	28.1	6.6	64	<0.1	895.5	52.4	617	3.98	2.9	1.6	2.6	95	0.2	0.4	<0.1	53	0.38	0.044	9
1159363	Soil	0.3	49.4	4.9	67	<0.1	864.6	61.5	853	4.64	3.0	1.9	3.9	58	<0.1	0.4	<0.1	78	0.60	0.061	12
1159364	Soil	0.3	35.3	5.0	68	<0.1	835.7	59.8	879	4.54	3.3	1.3	3.6	80	<0.1	0.4	<0.1	76	1.06	0.042	11
1159365	Soil	0.4	10.5	6.5	69	<0.1	765.3	60.9	1025	3.19	2.3	2.4	1.7	457	0.2	0.4	<0.1	24	0.24	0.039	5
1159366	Soil	0.7	17.4	7.4	47	<0.1	773.5	52.9	1102	3.61	4.9	2.2	3.4	15	0.2	0.6	0.1	33	0.18	0.020	11
1159367	Soil	0.3	10.8	9.2	78	<0.1	612.8	47.2	826	6.51	2.2	<0.5	6.1	28	0.2	0.3	<0.1	83	0.64	0.247	25
1159368	Soil	0.5	15.5	6.1	46	<0.1	1033	65.6	790	5.18	4.0	0.8	2.5	12	0.1	0.4	0.1	36	0.13	0.035	8
1159369	Soil	0.2	11.1	3.3	25	<0.1	1627	77.1	979	4.93	2.5	3.4	0.8	7	<0.1	0.2	<0.1	20	0.16	0.020	3
1159370	Soil	<0.1	7.2	1.8	14	<0.1	1324	78.7	795	3.84	3.2	1.6	0.2	9	<0.1	0.2	<0.1	9	0.36	0.008	<1
1159371	Soil	0.5	18.9	6.0	54	<0.1	884.4	71.2	936	4.65	4.8	6.3	1.7	8	0.1	0.5	0.1	37	0.13	0.066	8
1159372	Soil	0.5	12.7	9.9	55	<0.1	938.3	115.8	1536	5.17	3.7	2.9	0.9	8	0.4	0.6	<0.1	31	0.17	0.072	4
1159373	Soil	0.7	17.0	8.2	51	<0.1	569.2	43.6	581	4.01	4.8	1.5	3.1	9	0.3	0.6	0.1	38	0.12	0.043	11
1159374	Soil	0.5	17.2	6.7	51	<0.1	972.7	60.1	816	4.97	5.2	<0.5	1.9	7	0.1	0.7	0.4	30	0.11	0.042	8
1159375	Soil	0.5	18.1	8.0	53	<0.1	607.3	55.4	710	4.58	6.1	1.2	2.4	7	0.1	0.9	0.3	37	0.09	0.038	9
1159376	Soil	0.4	25.2	6.7	51	<0.1	1021	66.1	792	4.38	3.1	<0.5	1.4	8	0.2	0.5	0.2	24	0.13	0.061	6
1159377	Soil	0.4	29.3	7.0	64	<0.1	743.1	49.8	574	4.75	5.6	2.3	6.6	6	0.1	0.9	0.1	63	0.11	0.038	17
1159378	Soil	0.3	38.9	8.5	68	<0.1	366.5	29.2	577	4.45	4.5	<0.5	6.0	6	<0.1	0.5	0.2	73	0.13	0.045	12
1159379	Soil	0.2	29.2	17.2	92	<0.1	120.3	17.4	244	4.41	5.6	<0.5	13.1	6	<0.1	0.1	0.3	110	0.16	0.049	25
1159380	Soil	0.3	15.4	8.2	51	<0.1	1167	99.9	1239	5.37	3.4	0.8	1.4	6	0.2	0.8	0.1	25	0.11	0.045	6
1159381	Soil	0.7	12.9	6.4	51	<0.1	842.5	66.7	801	4.76	3.7	3.1	2.5	8	0.2	0.8	0.1	29	0.11	0.031	8
1159382	Soil	0.5	14.0	6.3	48	<0.1	1215	86.2	956	5.05	5.1	1.9	1.9	6	0.2	0.5	<0.1	26	0.10	0.033	7
1159383	Soil	0.4	13.9	4.5	44	<0.1	877.9	50.7	629	4.14	5.8	3.5	2.7	7	0.2	0.4	0.1	23	0.10	0.024	9



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159354	Soil	44	0.47	64	0.039	<1	1.27	0.032	0.02	<0.1	0.01	5.4	<0.1	<0.05	3	<0.5	<0.2
1159355	Soil	47	0.42	113	0.014	1	1.00	0.018	0.05	<0.1	0.10	13.8	0.1	<0.05	3	<0.5	<0.2
1159356	Soil	111	0.95	189	0.115	<1	1.79	0.048	0.17	<0.1	0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
1159357	Soil	85	0.73	88	0.098	<1	1.57	0.052	0.04	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
1159358	Soil	60	0.86	123	0.058	<1	1.66	0.037	0.13	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
1159359	Soil	91	0.82	95	0.080	<1	1.72	0.037	0.06	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
1159360	Soil	113	0.78	68	0.113	<1	1.80	0.032	0.04	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
1159361	Soil	242	1.81	400	0.125	2	1.42	0.036	0.28	<0.1	0.02	5.4	0.2	<0.05	5	<0.5	<0.2
1159362	Soil	431	2.33	449	0.096	2	1.32	0.026	0.27	<0.1	0.03	5.9	0.3	<0.05	5	<0.5	<0.2
1159363	Soil	385	2.02	384	0.159	2	1.54	0.040	0.39	<0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
1159364	Soil	514	3.60	590	0.133	3	1.64	0.027	0.33	<0.1	0.01	7.1	0.2	<0.05	6	<0.5	<0.2
1159365	Soil	474	5.86	5973	0.025	4	1.60	0.012	0.05	0.1	0.03	2.8	0.3	<0.05	3	<0.5	<0.2
1159366	Soil	437	5.59	96	0.034	7	0.80	0.012	0.04	0.3	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2
1159367	Soil	191	4.42	260	0.006	<1	2.72	0.009	0.08	<0.1	0.14	8.6	0.3	<0.05	9	<0.5	<0.2
1159368	Soil	481	6.67	83	0.017	5	0.89	0.008	0.03	0.2	0.02	6.1	<0.1	<0.05	3	<0.5	<0.2
1159369	Soil	542	6.57	44	0.006	2	0.35	0.004	0.01	0.2	0.02	5.3	<0.1	<0.05	<1	<0.5	<0.2
1159370	Soil	334	7.86	23	0.002	<1	0.20	0.003	<0.01	0.1	0.01	5.1	<0.1	<0.05	<1	<0.5	<0.2
1159371	Soil	693	5.40	103	0.024	6	0.85	0.010	0.04	0.2	0.02	3.8	<0.1	<0.05	3	<0.5	<0.2
1159372	Soil	790	5.66	119	0.012	9	0.52	0.010	0.05	0.2	0.04	3.2	<0.1	<0.05	2	<0.5	<0.2
1159373	Soil	441	4.07	92	0.033	4	0.90	0.010	0.04	0.2	0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
1159374	Soil	530	6.79	92	0.023	4	0.70	0.007	0.03	0.2	0.02	3.4	<0.1	0.06	2	0.9	<0.2
1159375	Soil	416	3.24	99	0.035	2	1.09	0.007	0.04	0.2	0.01	3.0	<0.1	<0.05	3	0.9	<0.2
1159376	Soil	388	7.49	78	0.018	6	0.60	0.008	0.03	<0.1	0.02	2.6	<0.1	<0.05	2	<0.5	<0.2
1159377	Soil	342	5.75	135	0.119	6	0.94	0.007	0.22	<0.1	0.01	5.4	0.2	<0.05	4	1.5	0.3
1159378	Soil	198	2.68	142	0.193	3	1.18	0.010	0.48	0.1	<0.01	5.9	0.2	<0.05	6	0.7	<0.2
1159379	Soil	114	1.53	258	0.321	1	1.41	0.006	0.63	<0.1	<0.01	5.5	0.6	<0.05	9	<0.5	<0.2
1159380	Soil	635	10.58	89	0.016	12	0.55	0.006	0.03	0.2	<0.01	3.4	<0.1	<0.05	2	1.5	<0.2
1159381	Soil	447	7.14	85	0.025	5	0.68	0.008	0.04	0.2	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1159382	Soil	624	11.09	75	0.019	10	0.56	0.007	0.03	0.1	0.03	3.2	<0.1	<0.05	2	1.6	<0.2
1159383	Soil	314	8.15	61	0.026	4	0.64	0.009	0.03	0.1	<0.01	2.7	<0.1	<0.05	2	0.8	<0.2



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Project: 4c
Report Date: August 05, 2011

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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159384	Soil		0.4	18.0	5.7	55	<0.1	1107	64.6	739	4.81	4.9	1.2	2.5	6	0.3	0.4	0.3	24	0.09	0.034	9		
1159385	Soil		0.4	16.1	5.0	64	<0.1	1138	72.9	1243	5.58	5.1	0.6	0.9	7	0.2	0.6	0.2	26	0.13	0.061	5		
1159386	Soil		0.4	19.7	5.5	70	<0.1	1423	107.0	1439	7.21	3.9	1.3	0.6	7	0.4	0.5	0.1	29	0.12	0.082	4		
1159387	Soil		0.5	18.5	4.6	55	<0.1	1265	70.4	797	5.36	4.0	<0.5	1.5	5	0.2	0.5	0.1	23	0.09	0.041	6		
1159388	Soil		0.3	19.4	4.6	48	<0.1	1397	76.4	841	5.59	3.1	0.8	1.2	4	0.2	0.4	<0.1	22	0.07	0.037	5		
1159389	Soil		0.6	21.6	6.4	61	<0.1	1272	73.3	968	5.40	5.5	0.6	2.0	7	0.3	0.6	0.1	24	0.10	0.047	9		
1159390	Soil		0.7	23.2	8.6	68	<0.1	1085	73.4	981	5.54	4.6	1.9	1.5	7	0.3	0.7	0.1	25	0.09	0.057	8		
1159391	Soil		0.5	23.1	5.1	55	<0.1	1351	83.2	1036	5.72	4.9	0.8	1.4	5	0.2	1.0	0.1	22	0.09	0.041	6		
1178133	Soil		0.6	22.9	10.1	46	<0.1	1310	85.4	923	5.20	4.3	1.6	2.5	5	0.1	3.9	0.1	23	0.07	0.021	7		
1178134	Soil		0.3	11.3	2.8	35	<0.1	1356	84.3	1076	5.24	7.8	<0.5	0.5	5	0.2	2.7	<0.1	13	0.12	0.036	2		
1178135	Soil		0.5	8.7	6.6	48	<0.1	984.7	100.6	1113	6.79	3.4	<0.5	1.8	4	0.2	1.1	0.3	26	0.05	0.032	4		
1178136	Soil		0.8	10.6	7.3	62	<0.1	753.4	72.9	805	5.14	2.9	<0.5	3.5	8	0.3	1.6	0.2	36	0.11	0.024	10		
1178137	Soil		0.4	14.8	3.9	55	<0.1	1355	98.7	950	7.16	2.6	<0.5	1.5	4	0.1	0.5	0.1	30	0.07	0.047	5		
1178138	Soil		0.6	15.5	6.6	44	<0.1	1034	77.0	891	5.85	2.4	3.3	2.5	6	<0.1	0.6	0.2	33	0.07	0.034	7		
1178139	Soil		0.6	8.0	4.7	69	<0.1	924.3	78.8	883	7.85	1.3	<0.5	1.5	3	0.2	0.7	0.1	48	0.07	0.037	5		
1178140	Soil		0.2	10.2	2.8	31	<0.1	1301	82.1	857	4.96	1.8	0.9	0.5	3	<0.1	0.5	<0.1	18	0.04	0.026	2		
1178141	Soil		0.6	9.9	4.4	41	<0.1	777.8	64.9	669	5.13	2.3	<0.5	1.8	4	0.1	0.6	0.1	33	0.05	0.025	5		
1178142	Soil		0.5	17.2	5.4	46	<0.1	1041	63.4	663	4.78	3.6	2.9	2.8	5	0.1	0.6	0.1	28	0.09	0.030	7		
1178143	Soil		0.5	11.2	5.6	38	<0.1	639.0	45.5	526	3.74	2.8	<0.5	1.8	6	0.1	0.4	0.1	33	0.06	0.035	7		
1178144	Soil		0.1	22.7	21.5	80	<0.1	976.8	47.7	456	3.83	10.3	8.4	0.7	7	<0.1	0.4	<0.1	37	0.11	0.020	2		
1178145	Soil		0.6	32.1	6.3	63	<0.1	216.0	17.5	298	2.95	4.6	<0.5	3.1	11	<0.1	0.3	0.1	53	0.29	0.048	10		
1178146	Soil		0.5	17.3	7.4	33	<0.1	45.5	6.2	138	1.59	1.8	<0.5	2.7	7	<0.1	0.2	0.3	47	0.20	0.013	10		
1178147	Soil		0.6	57.7	5.1	63	<0.1	132.6	14.6	252	2.53	2.1	0.6	1.5	8	<0.1	0.3	0.1	57	0.27	0.047	8		
1178148	Soil		0.5	193.2	4.7	66	<0.1	75.6	22.3	310	3.49	2.0	2.9	1.3	8	<0.1	0.4	0.1	65	0.30	0.040	5		
1178149	Soil		1.6	73.6	10.4	85	0.1	48.7	11.5	308	2.39	2.6	16.7	3.3	8	0.3	0.5	0.4	49	0.21	0.023	10		
1178150	Soil		0.9	264.3	24.6	135	0.1	45.8	22.4	768	6.92	<0.5	2.7	2.9	6	<0.1	0.4	0.4	212	0.32	0.132	10		
1159013	Soil		0.6	17.4	3.7	43	<0.1	1306	101.9	1008	5.63	4.9	1.6	1.8	6	0.2	0.6	0.2	26	0.07	0.031	4		
1159014	Soil		0.4	10.4	4.0	51	<0.1	1154	90.7	911	6.68	3.4	8.0	0.7	3	<0.1	0.5	0.2	37	0.04	0.022	2		
1159015	Soil		0.7	17.9	4.6	40	<0.1	1125	90.0	877	5.19	3.8	2.0	1.2	6	0.2	0.9	0.2	31	0.09	0.037	5		
1159016	Soil		0.4	69.6	5.1	69	<0.1	455.2	25.9	419	3.17	1.6	1.8	2.5	6	<0.1	1.3	0.2	53	0.16	0.035	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
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159384	Soil	479	8.85	70	0.028	5	0.60	0.007	0.03	0.1	0.02	3.0	0.1	<0.05	2	0.8	<0.2
1159385	Soil	527	9.19	84	0.017	9	0.67	0.007	0.03	0.4	<0.01	3.5	<0.1	<0.05	2	0.5	<0.2
1159386	Soil	720	10.53	116	0.012	11	0.57	0.007	0.03	0.2	<0.01	3.9	<0.1	<0.05	2	1.6	<0.2
1159387	Soil	511	10.22	60	0.018	9	0.48	0.006	0.03	0.1	0.02	3.4	<0.1	<0.05	2	<0.5	<0.2
1159388	Soil	591	11.15	53	0.013	10	0.39	0.005	0.02	<0.1	0.02	3.2	<0.1	<0.05	2	1.5	<0.2
1159389	Soil	531	9.37	87	0.022	7	0.70	0.008	0.04	0.1	0.03	3.4	<0.1	<0.05	2	1.5	<0.2
1159390	Soil	545	8.16	99	0.019	6	0.65	0.006	0.03	<0.1	<0.01	3.6	<0.1	<0.05	2	1.3	<0.2
1159391	Soil	560	10.60	70	0.017	7	0.48	0.005	0.03	0.2	0.01	3.6	<0.1	<0.05	2	1.4	<0.2
1178133	Soil	559	6.93	55	0.022	6	0.58	0.006	0.04	0.4	<0.01	3.5	<0.1	<0.05	2	1.4	0.2
1178134	Soil	524	10.00	44	0.009	7	0.33	0.005	0.02	0.3	<0.01	3.4	<0.1	<0.05	1	0.5	<0.2
1178135	Soil	709	6.23	62	0.022	5	0.69	0.006	0.03	0.6	<0.01	3.4	<0.1	<0.05	2	0.6	<0.2
1178136	Soil	531	5.10	101	0.044	4	0.97	0.009	0.05	0.4	<0.01	3.0	<0.1	<0.05	3	1.3	<0.2
1178137	Soil	853	9.19	53	0.020	9	0.55	0.005	0.03	0.3	<0.01	4.2	<0.1	<0.05	2	1.1	<0.2
1178138	Soil	754	6.44	68	0.034	6	0.75	0.009	0.04	0.4	<0.01	3.8	<0.1	<0.05	3	0.9	<0.2
1178139	Soil	1472	4.73	38	0.036	5	0.41	0.006	0.03	0.6	<0.01	2.5	<0.1	<0.05	3	2.0	<0.2
1178140	Soil	677	10.55	33	0.012	13	0.31	0.009	0.01	0.3	<0.01	2.9	<0.1	<0.05	1	1.2	<0.2
1178141	Soil	683	5.90	44	0.035	6	0.61	0.009	0.02	0.4	<0.01	3.0	<0.1	<0.05	3	2.1	<0.2
1178142	Soil	477	7.88	65	0.041	9	0.69	0.008	0.03	0.3	0.01	3.4	<0.1	<0.05	3	1.6	<0.2
1178143	Soil	467	4.98	65	0.048	19	0.67	0.012	0.03	0.3	<0.01	2.0	<0.1	<0.05	4	1.5	<0.2
1178144	Soil	690	7.55	134	0.061	4	2.16	0.008	0.06	0.3	<0.01	3.7	0.2	<0.05	9	0.8	<0.2
1178145	Soil	157	1.63	130	0.118	1	1.48	0.016	0.15	0.2	<0.01	3.7	0.1	<0.05	5	2.0	<0.2
1178146	Soil	99	0.49	77	0.135	<1	1.05	0.017	0.05	0.2	<0.01	2.6	<0.1	<0.05	6	0.7	<0.2
1178147	Soil	120	1.11	104	0.094	<1	1.51	0.024	0.07	0.2	<0.01	3.5	<0.1	<0.05	5	1.6	<0.2
1178148	Soil	92	1.13	123	0.082	<1	1.53	0.027	0.11	0.1	<0.01	4.5	<0.1	<0.05	5	1.1	<0.2
1178149	Soil	77	0.65	117	0.095	<1	1.26	0.015	0.11	0.2	<0.01	3.5	0.1	<0.05	7	1.2	<0.2
1178150	Soil	62	1.99	1298	0.256	2	4.13	0.041	1.66	0.1	0.01	10.2	0.4	<0.05	14	<0.5	<0.2
1159013	Soil	644	8.32	51	0.024	5	0.57	0.007	0.04	0.5	<0.01	4.1	<0.1	<0.05	2	<0.5	<0.2
1159014	Soil	967	8.12	44	0.024	4	0.48	0.004	0.02	0.6	<0.01	2.7	<0.1	<0.05	2	<0.5	<0.2
1159015	Soil	666	6.31	60	0.024	6	0.65	0.009	0.04	0.5	0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
1159016	Soil	210	1.94	76	0.151	1	1.42	0.016	0.09	0.3	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2



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		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159017	Soil		0.4	9.4	2.6	48	<0.1	1221	107.6	1103	6.06	2.7	2.2	0.5	6	0.1	1.1	<0.1	31	0.07	0.041	2
1159018	Soil		0.5	7.5	5.0	45	<0.1	1113	96.0	1015	5.26	2.6	1.4	0.6	3	0.2	2.3	<0.1	25	0.04	0.033	2
1159019	Soil		0.4	11.4	2.7	42	<0.1	1463	113.1	1146	5.92	2.8	2.2	0.6	5	0.1	0.7	<0.1	25	0.04	0.033	2
1159020	Soil		0.5	12.3	6.7	45	<0.1	953.0	84.3	897	4.91	3.6	2.3	2.0	5	0.3	0.6	0.2	39	0.07	0.032	6
1159021	Soil		0.6	12.9	5.5	48	<0.1	789.3	57.7	673	4.44	3.2	1.1	2.1	7	0.2	0.5	0.1	34	0.08	0.038	6
1159022	Soil		0.5	23.6	8.0	44	<0.1	395.3	21.2	271	2.55	2.3	0.9	3.6	6	0.2	0.3	0.3	44	0.13	0.025	9
1159023	Soil		0.6	14.7	7.8	59	<0.1	643.4	66.0	1018	4.52	3.1	1.5	1.8	6	0.2	0.6	0.3	43	0.12	0.041	6
1159024	Soil		0.2	14.4	4.3	42	<0.1	1206	74.3	836	3.95	4.3	4.1	0.9	5	0.1	0.6	<0.1	22	0.10	0.030	3
1159025	Soil		0.3	10.1	5.1	36	<0.1	946.1	75.3	768	4.29	6.2	3.3	0.7	6	0.1	0.6	<0.1	25	0.10	0.031	3
1159026	Soil		0.5	79.3	7.3	46	<0.1	43.1	11.4	263	1.96	1.5	1.0	2.3	10	0.1	0.3	0.3	44	0.52	0.029	7
1159027	Soil		0.9	837.4	8.6	73	0.2	46.1	13.1	252	2.48	1.6	5.6	2.0	7	0.1	0.4	0.6	52	0.22	0.039	10
1159028	Soil		1.0	143.3	2.9	61	<0.1	100.6	32.6	866	3.75	<0.5	0.7	1.8	21	0.1	0.4	<0.1	102	0.71	0.093	8
1159029	Soil		1.0	160.2	2.1	59	<0.1	108.4	35.3	932	3.97	<0.5	1.2	1.6	22	<0.1	0.5	<0.1	99	0.71	0.092	7
1159030	Soil		1.1	750.5	11.9	604	0.4	203.6	244.8	5710	11.45	1.3	32.2	0.6	20	2.9	5.4	0.3	177	0.72	0.075	8
1159031	Soil		0.6	111.4	1.3	31	<0.1	57.3	21.3	471	2.53	<0.5	0.9	0.4	13	<0.1	0.4	<0.1	62	0.63	0.053	2
1159032	Soil		0.6	112.5	2.1	42	<0.1	78.1	23.4	453	3.03	0.7	1.0	1.2	17	<0.1	0.3	<0.1	70	0.54	0.060	5
1159033	Soil		0.6	96.8	2.0	49	<0.1	73.8	25.1	572	3.32	<0.5	0.7	1.2	20	<0.1	0.3	<0.1	80	0.44	0.049	5
1159034	Soil		0.4	78.3	1.8	34	<0.1	77.7	20.8	446	2.61	0.8	0.8	0.8	18	<0.1	0.2	<0.1	66	0.51	0.045	3
1159035	Soil		0.5	44.8	2.8	28	<0.1	42.0	10.6	237	1.65	1.3	1.4	0.3	13	0.1	0.4	<0.1	39	0.31	0.053	4
1159036	Soil		0.5	99.2	4.1	61	<0.1	74.5	25.9	358	2.65	2.0	0.8	1.2	13	0.2	0.4	<0.1	62	0.25	0.052	7
1159037	Soil		0.7	48.9	4.2	78	<0.1	292.4	28.2	644	4.27	1.4	1.6	2.8	28	<0.1	0.2	<0.1	92	0.31	0.065	11
1159038	Soil		0.2	10.4	5.6	42	<0.1	896.7	58.2	765	2.96	3.5	1.0	0.9	52	0.1	0.6	<0.1	20	0.16	0.041	4
1159039	Soil		0.4	47.8	2.9	42	<0.1	161.0	21.3	421	2.68	1.3	<0.5	1.2	12	<0.1	0.4	<0.1	61	0.43	0.034	6
1159040	Soil		0.4	33.1	4.8	46	<0.1	291.2	25.2	405	3.03	1.6	1.0	1.8	29	<0.1	0.2	<0.1	63	0.59	0.034	7
1159041	Soil		0.3	63.7	3.6	80	<0.1	205.7	20.0	793	4.57	2.3	2.2	5.2	25	<0.1	0.2	<0.1	102	0.38	0.101	17
1159042	Soil		0.3	9.3	10.1	72	<0.1	939.4	48.8	590	3.09	2.5	0.8	1.2	84	<0.1	0.4	<0.1	24	0.16	0.030	4
1159043	Soil		0.8	13.8	7.3	58	<0.1	671.8	61.4	927	3.79	3.8	0.7	3.1	20	0.2	0.6	0.1	35	0.25	0.026	10
1159044	Soil		0.3	97.3	3.3	56	1.0	1637	121.2	2567	5.66	9.7	73.9	0.9	5	0.2	0.5	<0.1	19	0.15	0.039	3
1159045	Soil		0.7	14.5	7.6	60	<0.1	638.5	53.9	958	4.42	5.0	1.9	2.2	15	0.2	0.6	0.1	39	0.21	0.065	10
1159046	Soil		0.5	17.0	7.9	41	<0.1	1003	79.1	1618	4.06	5.4	7.8	2.0	11	0.2	0.6	<0.1	27	0.41	0.043	8



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159017	Soil	1010	7.85	37	0.012	9	0.31	0.006	0.02	0.6	0.02	2.7	<0.1	<0.05	1	<0.5	<0.2
1159018	Soil	789	8.60	32	0.011	9	0.31	0.006	0.02	0.4	0.02	3.0	<0.1	<0.05	1	<0.5	<0.2
1159019	Soil	863	10.55	37	0.010	13	0.33	0.006	0.01	0.4	0.02	3.7	<0.1	<0.05	<1	<0.5	<0.2
1159020	Soil	709	7.32	53	0.039	8	0.60	0.009	0.03	0.4	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2
1159021	Soil	597	5.21	53	0.038	4	0.68	0.008	0.04	0.4	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
1159022	Soil	242	1.94	61	0.095	2	1.00	0.015	0.04	0.3	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
1159023	Soil	587	4.17	77	0.055	3	0.85	0.011	0.04	0.5	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
1159024	Soil	583	9.97	38	0.017	9	0.38	0.008	0.02	0.3	0.02	2.7	<0.1	<0.05	1	<0.5	<0.2
1159025	Soil	698	6.36	53	0.019	6	0.57	0.009	0.02	0.4	0.02	2.4	<0.1	<0.05	2	<0.5	<0.2
1159026	Soil	61	0.66	82	0.105	<1	1.37	0.036	0.07	0.2	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
1159027	Soil	76	0.74	96	0.080	<1	1.45	0.020	0.07	0.2	0.07	3.6	0.2	<0.05	6	<0.5	<0.2
1159028	Soil	183	1.42	552	0.175	<1	2.00	0.043	0.63	<0.1	0.02	8.7	0.1	<0.05	6	<0.5	<0.2
1159029	Soil	177	1.39	541	0.172	<1	1.97	0.045	0.62	<0.1	0.02	9.3	0.1	<0.05	6	<0.5	<0.2
1159030	Soil	113	0.43	173	0.014	2	0.68	0.013	0.03	0.2	0.56	47.1	1.3	<0.05	2	<0.5	<0.2
1159031	Soil	107	0.62	153	0.071	<1	1.40	0.046	0.12	<0.1	0.02	7.4	<0.1	<0.05	3	<0.5	<0.2
1159032	Soil	153	0.94	275	0.149	<1	2.08	0.042	0.35	<0.1	0.02	6.3	<0.1	<0.05	5	<0.5	<0.2
1159033	Soil	113	1.00	253	0.121	<1	1.91	0.035	0.28	<0.1	0.02	7.2	<0.1	<0.05	5	<0.5	<0.2
1159034	Soil	156	1.29	267	0.152	<1	2.25	0.047	0.33	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
1159035	Soil	79	0.55	80	0.074	<1	1.76	0.041	0.06	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
1159036	Soil	82	0.89	95	0.094	<1	2.13	0.028	0.09	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
1159037	Soil	177	1.53	268	0.193	<1	2.00	0.027	0.34	<0.1	0.02	6.8	0.3	<0.05	7	<0.5	<0.2
1159038	Soil	554	7.93	206	0.023	4	1.41	0.010	0.02	0.2	0.04	2.6	0.4	<0.05	5	<0.5	<0.2
1159039	Soil	118	0.96	102	0.124	<1	1.41	0.034	0.11	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
1159040	Soil	205	1.77	168	0.129	1	1.57	0.052	0.15	<0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
1159041	Soil	103	1.77	280	0.270	<1	1.73	0.013	0.74	<0.1	0.02	7.0	0.3	<0.05	7	<0.5	<0.2
1159042	Soil	579	8.62	505	0.031	5	2.22	0.012	0.03	0.1	0.02	2.7	0.4	<0.05	6	<0.5	<0.2
1159043	Soil	412	5.39	109	0.039	6	0.95	0.014	0.05	0.2	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2
1159044	Soil	416	13.67	66	0.010	12	0.33	0.007	0.03	0.2	0.06	3.3	<0.1	<0.05	<1	<0.5	<0.2
1159045	Soil	280	4.04	176	0.037	4	1.20	0.017	0.05	0.1	0.06	4.1	<0.1	<0.05	3	<0.5	<0.2
1159046	Soil	269	8.26	98	0.020	7	0.78	0.011	0.06	0.9	0.05	3.8	<0.1	<0.05	2	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159047	Soil	0.6	15.7	6.2	53	<0.1	676.3	74.1	1283	4.30	4.8	1.4	1.8	11	0.3	0.8	0.1	34	0.16	0.055	8
1159048	Soil	0.5	20.6	5.3	54	<0.1	861.2	54.3	803	4.53	9.2	1.4	1.7	8	0.2	1.3	0.1	30	0.11	0.042	8
1159049	Soil	0.5	14.2	4.6	52	<0.1	952.9	67.5	898	4.45	4.1	0.6	1.8	8	0.3	0.5	0.1	32	0.11	0.045	7
1159050	Soil	0.5	14.3	4.7	50	<0.1	1016	73.6	955	4.65	4.0	2.8	1.8	7	0.3	0.5	0.1	33	0.10	0.040	7
1161465	Soil	0.7	16.0	5.4	48	<0.1	708.0	42.3	534	3.76	5.0	1.1	3.6	8	0.2	0.5	0.1	33	0.09	0.027	11
1161466	Soil	0.5	17.9	4.5	74	<0.1	472.5	89.1	1296	5.09	4.2	<0.5	0.9	20	0.2	0.4	<0.1	70	0.21	0.073	4
1161467	Soil	0.3	24.6	3.1	71	<0.1	641.4	37.4	578	4.17	6.1	<0.5	1.8	28	<0.1	0.3	<0.1	70	0.25	0.046	6
1161468	Soil	0.6	22.6	6.3	67	<0.1	879.5	52.9	804	3.98	2.6	0.5	2.2	13	0.1	0.5	0.1	41	0.23	0.061	9
1161469	Soil	0.5	15.6	4.5	57	<0.1	918.9	71.6	872	4.57	3.5	6.1	1.6	8	0.2	0.5	<0.1	34	0.11	0.045	7
1161470	Soil	0.3	18.2	2.9	43	<0.1	1637	98.0	1020	4.63	7.3	6.6	0.9	3	0.1	0.4	<0.1	20	0.06	0.029	3
1161471	Soil	0.4	21.6	4.3	49	<0.1	1411	71.1	736	4.35	9.2	13.0	1.0	5	0.2	0.5	<0.1	23	0.14	0.047	5
1161472	Soil	0.5	22.7	6.0	60	<0.1	758.8	41.1	523	3.85	6.3	2.8	3.1	11	0.2	0.4	0.1	36	0.13	0.047	12
1161473	Soil	0.5	18.1	4.3	55	<0.1	1729	138.3	1966	6.06	9.2	3.7	1.1	4	0.3	1.1	<0.1	30	0.06	0.046	4
1161474	Soil	0.6	19.6	4.7	45	<0.1	1118	75.9	1190	4.68	5.5	2.5	2.7	6	0.2	0.5	0.1	31	0.07	0.029	7
1161475	Soil	0.4	15.2	4.3	57	<0.1	1409	124.4	2005	5.94	11.5	2.1	1.1	6	0.3	1.3	<0.1	29	0.11	0.054	5
1161476	Soil	0.5	16.1	4.3	62	<0.1	1598	113.6	1534	6.28	4.7	2.1	1.4	5	0.2	0.4	<0.1	32	0.07	0.039	5
1161477	Soil	0.5	19.1	4.2	54	<0.1	1331	85.0	1048	5.91	4.2	4.3	2.0	5	0.2	0.3	<0.1	34	0.06	0.035	7
1161478	Soil	0.5	23.7	4.0	46	<0.1	1008	72.8	872	4.35	3.5	2.7	3.2	9	0.2	0.3	<0.1	32	0.15	0.051	10
1161479	Soil	0.7	14.9	5.9	61	<0.1	988.9	75.8	1093	4.70	5.8	2.2	2.3	9	0.3	0.6	0.1	38	0.09	0.054	9
1161480	Soil	0.5	11.0	4.4	48	<0.1	1796	84.5	903	5.44	4.2	2.8	2.2	5	0.2	0.4	<0.1	23	0.05	0.026	7
1161481	Soil	0.3	14.3	3.3	37	<0.1	1196	69.0	1216	4.41	4.5	6.2	1.4	9	0.1	0.5	<0.1	18	0.21	0.032	5
1159083	Soil	0.4	13.4	4.4	54	<0.1	836.4	70.3	847	4.56	3.5	2.4	2.1	7	0.2	0.4	<0.1	33	0.10	0.037	7
1159084	Soil	0.4	21.1	3.5	45	<0.1	1080	56.4	667	4.38	3.0	2.1	1.4	7	0.2	0.5	<0.1	29	0.11	0.056	7
1159085	Soil	0.3	17.9	4.2	46	<0.1	862.2	49.0	563	4.01	3.7	18.1	1.1	7	0.1	0.7	<0.1	32	0.10	0.048	6
1159086	Soil	0.4	13.0	3.7	50	<0.1	1129	71.3	812	5.34	3.5	1.9	1.1	7	0.2	0.7	<0.1	36	0.13	0.054	6
1159087	Soil	0.5	20.2	5.0	58	<0.1	826.1	58.0	766	4.63	3.8	1.0	1.6	9	0.2	0.9	0.1	38	0.11	0.054	9
1159088	Soil	0.4	19.7	4.2	48	<0.1	913.6	63.3	1047	4.63	3.6	2.8	1.9	9	0.2	0.4	<0.1	35	0.12	0.037	8
1159089	Soil	0.4	18.6	4.9	45	<0.1	790.3	41.0	493	3.71	3.5	1.3	4.1	10	<0.1	0.8	<0.1	41	0.16	0.043	13
1159090	Soil	0.5	39.4	3.4	46	<0.1	968.3	72.1	950	4.13	2.6	<0.5	1.5	9	0.1	0.5	<0.1	31	0.14	0.035	7
1159091	Soil	0.4	21.4	3.6	38	<0.1	1112	61.1	711	3.88	2.6	<0.5	0.7	8	<0.1	0.5	<0.1	23	0.08	0.049	5



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159047	Soil	439	4.47	142	0.023	7	0.82	0.011	0.07	0.4	0.03	3.3	<0.1	0.08	3	<0.5	<0.2
1159048	Soil	518	6.34	97	0.023	5	0.67	0.009	0.03	0.3	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1159049	Soil	561	7.14	85	0.021	7	0.57	0.007	0.02	0.2	0.03	3.2	<0.1	<0.05	2	<0.5	<0.2
1159050	Soil	596	7.56	80	0.020	6	0.53	0.006	0.02	0.1	0.02	3.3	<0.1	<0.05	2	<0.5	<0.2
1161465	Soil	401	5.05	86	0.034	4	0.72	0.007	0.03	0.2	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1161466	Soil	482	2.56	247	0.103	2	1.30	0.011	0.18	0.2	0.05	5.3	0.1	0.06	5	<0.5	<0.2
1161467	Soil	439	6.02	499	0.113	3	1.78	0.012	0.18	<0.1	<0.01	7.0	0.3	<0.05	8	<0.5	<0.2
1161468	Soil	365	7.44	225	0.056	6	1.12	0.011	0.13	0.1	0.03	4.9	0.1	<0.05	4	<0.5	<0.2
1161469	Soil	658	7.17	91	0.024	8	0.71	0.008	0.04	0.2	0.02	3.3	<0.1	<0.05	2	<0.5	<0.2
1161470	Soil	487	13.82	43	0.011	9	0.39	0.005	0.01	0.1	0.02	3.0	<0.1	<0.05	1	<0.5	<0.2
1161471	Soil	430	12.38	47	0.016	10	0.54	0.007	0.03	0.1	0.02	3.2	<0.1	0.07	1	<0.5	<0.2
1161472	Soil	362	4.85	96	0.045	3	0.87	0.010	0.03	0.2	0.02	3.8	<0.1	0.06	3	<0.5	<0.2
1161473	Soil	801	11.91	83	0.016	9	0.46	0.006	0.03	0.7	0.06	5.4	<0.1	0.11	1	<0.5	<0.2
1161474	Soil	484	7.81	78	0.025	5	0.69	0.006	0.03	0.3	0.02	3.8	<0.1	<0.05	2	<0.5	<0.2
1161475	Soil	610	9.57	95	0.016	9	0.53	0.007	0.03	0.2	0.05	3.9	<0.1	<0.05	2	<0.5	<0.2
1161476	Soil	681	12.34	87	0.018	11	0.53	0.006	0.03	0.1	0.02	4.2	<0.1	<0.05	2	<0.5	<0.2
1161477	Soil	721	9.80	70	0.023	11	0.57	0.006	0.02	0.1	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2
1161478	Soil	627	8.29	73	0.030	6	0.53	0.007	0.03	0.1	0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
1161479	Soil	692	6.33	135	0.025	4	0.80	0.008	0.03	0.2	0.02	3.8	<0.1	<0.05	3	<0.5	<0.2
1161480	Soil	248	12.84	63	0.017	3	0.55	0.003	0.02	0.2	0.01	3.5	<0.1	<0.05	2	<0.5	<0.2
1161481	Soil	304	10.39	66	0.016	6	0.46	0.007	0.03	0.2	0.04	3.1	<0.1	<0.05	1	<0.5	<0.2
1159083	Soil	630	5.92	70	0.028	4	0.61	0.009	0.03	0.2	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
1159084	Soil	593	8.22	74	0.020	6	0.56	0.010	0.03	0.2	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
1159085	Soil	649	6.51	70	0.023	5	0.72	0.016	0.03	0.2	0.02	3.0	<0.1	<0.05	2	<0.5	<0.2
1159086	Soil	907	8.78	75	0.018	10	0.66	0.010	0.04	0.2	0.02	3.9	<0.1	<0.05	2	<0.5	<0.2
1159087	Soil	600	6.19	111	0.027	8	0.81	0.010	0.03	0.2	0.01	3.9	<0.1	<0.05	2	<0.5	<0.2
1159088	Soil	590	8.04	91	0.026	9	0.69	0.010	0.04	0.2	0.02	3.6	<0.1	<0.05	2	<0.5	<0.2
1159089	Soil	404	7.54	60	0.034	8	0.56	0.010	0.06	0.1	0.02	4.6	0.1	<0.05	3	<0.5	<0.2
1159090	Soil	534	7.29	72	0.022	7	0.59	0.011	0.03	0.3	0.02	3.9	<0.1	<0.05	2	<0.5	<0.2
1159091	Soil	496	7.13	73	0.021	7	0.66	0.021	0.03	0.4	0.02	3.3	<0.1	<0.05	2	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159092	Soil	0.7	25.1	5.6	51	<0.1	896.2	64.0	799	4.62	3.8	4.6	2.5	9	0.2	0.6	0.1	40	0.14	0.047	10
1159093	Soil	0.5	18.9	5.3	48	<0.1	1056	79.4	976	4.89	4.3	2.4	1.6	8	0.2	0.4	0.1	35	0.12	0.040	7
1159094	Soil	0.5	25.8	6.3	46	<0.1	1104	68.9	795	4.53	4.6	3.8	2.3	6	0.2	0.6	<0.1	34	0.10	0.027	7
1159095	Soil	0.5	19.7	4.9	43	<0.1	977.8	56.2	632	4.08	3.6	3.6	2.2	7	0.2	0.8	<0.1	32	0.12	0.035	8
1159096	Soil	0.5	17.9	5.7	41	<0.1	1043	63.3	638	4.05	3.0	10.1	2.7	8	<0.1	0.4	<0.1	31	0.15	0.036	9
1159097	Soil	0.6	14.8	6.3	52	<0.1	1272	95.2	1295	5.50	5.7	4.7	1.0	7	0.3	0.8	0.2	23	0.12	0.063	5
1159098	Soil	0.3	5.8	5.1	23	<0.1	800.2	50.0	576	2.73	4.6	1.2	0.3	6	<0.1	0.8	<0.1	13	0.05	0.029	1
1159099	Soil	0.7	7.2	5.9	55	<0.1	684.1	75.2	807	6.48	5.7	1.5	1.3	7	0.1	0.5	0.1	43	0.05	0.029	4
1159100	Soil	0.5	9.0	7.5	27	<0.1	155.5	16.2	236	2.04	1.3	1.5	1.8	5	<0.1	0.8	0.3	32	0.07	0.013	6
1161242	Soil	0.5	33.4	3.8	27	<0.1	40.4	9.6	232	1.61	1.4	1.4	0.4	6	0.2	4.4	<0.1	39	0.25	0.044	3
1161243	Soil	0.4	75.0	3.1	106	<0.1	252.9	22.0	473	3.55	1.6	<0.5	3.1	7	0.1	0.8	<0.1	82	0.27	0.078	8
1161244	Soil	0.6	20.8	8.0	49	<0.1	1439	107.7	1137	4.81	3.8	4.8	1.9	4	<0.1	4.4	<0.1	30	0.09	0.037	6
1161245	Soil	0.4	14.0	7.5	42	<0.1	1021	74.3	766	4.38	5.9	1.9	1.5	6	0.1	2.4	<0.1	25	0.09	0.034	5
1161246	Soil	0.4	15.7	6.2	47	<0.1	1227	101.3	1211	4.87	4.6	1.2	0.7	8	0.3	1.7	0.1	27	0.16	0.069	4
1161247	Soil	0.6	20.0	9.2	53	<0.1	747.8	42.7	594	3.37	5.8	4.3	1.8	10	0.2	0.8	0.2	26	0.19	0.054	8
1161248	Soil	0.7	16.4	6.4	59	<0.1	800.5	40.8	522	3.79	6.7	1.8	2.5	8	0.2	0.5	0.1	28	0.10	0.047	9
1161249	Soil	0.4	16.7	5.5	51	<0.1	757.8	39.9	588	3.43	3.8	1.6	0.8	7	0.2	0.8	0.1	22	0.08	0.058	5
1161250	Soil	0.4	15.2	6.5	72	<0.1	776.5	63.7	1002	4.48	6.4	1.1	0.8	10	0.3	1.8	0.1	24	0.15	0.078	5
1159051	Soil	0.3	16.7	6.1	57	<0.1	1147	95.4	1658	5.31	5.7	17.1	1.2	6	0.1	0.7	0.1	29	0.13	0.053	6
1159052	Soil	0.4	17.8	4.0	51	<0.1	1423	120.9	1424	5.76	4.5	2.3	0.6	5	0.2	0.9	<0.1	21	0.11	0.057	2
1159053	Soil	0.3	19.9	4.6	48	<0.1	1290	84.1	988	4.85	9.2	4.2	1.2	5	0.2	2.5	<0.1	21	0.07	0.037	5
1159054	Soil	0.5	16.3	4.4	45	<0.1	1260	76.9	893	4.85	5.5	2.3	1.6	5	0.2	0.8	<0.1	24	0.05	0.033	5
1159055	Soil	0.5	14.3	4.8	51	<0.1	1268	77.2	938	4.68	6.0	2.2	1.2	6	0.2	1.2	0.1	22	0.10	0.044	5
1159056	Soil	0.3	11.7	3.8	47	<0.1	1461	85.7	918	5.36	4.6	<0.5	1.4	4	<0.1	1.1	<0.1	24	0.06	0.029	5
1159057	Soil	0.3	18.3	4.6	52	<0.1	1365	74.5	783	5.08	5.5	2.3	1.3	4	0.1	0.4	<0.1	23	0.07	0.037	5
1159058	Soil	0.4	20.8	4.9	59	<0.1	1286	71.2	746	5.21	7.7	4.5	1.8	5	0.3	6.0	<0.1	27	0.07	0.038	6
1159059	Soil	0.4	16.4	5.2	55	<0.1	1208	72.9	944	4.36	6.8	2.1	0.9	7	0.2	1.4	0.1	19	0.12	0.056	4
1159060	Soil	0.3	20.9	4.0	49	<0.1	1321	85.5	940	4.96	6.6	1.8	1.1	4	0.2	3.2	<0.1	21	0.07	0.035	4
1159154	Soil	0.6	87.2	5.0	43	<0.1	48.2	15.3	258	2.31	1.4	42.8	1.4	7	0.1	0.3	<0.1	57	0.26	0.046	5
1159155	Soil	0.4	15.8	5.4	49	<0.1	1300	142.6	1705	6.51	5.6	0.6	0.8	5	0.3	1.5	<0.1	34	0.08	0.077	3



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159092	Soil	644	6.53	97	0.034	7	0.85	0.013	0.05	0.3	0.02	4.5	<0.1	<0.05	2	<0.5	<0.2
1159093	Soil	629	6.11	97	0.027	4	0.72	0.011	0.04	0.4	0.02	5.1	<0.1	<0.05	2	<0.5	<0.2
1159094	Soil	617	8.48	73	0.027	7	0.59	0.009	0.03	0.2	0.02	4.0	<0.1	<0.05	2	<0.5	<0.2
1159095	Soil	619	7.10	73	0.028	6	0.58	0.010	0.03	0.2	0.02	3.4	<0.1	<0.05	2	<0.5	<0.2
1159096	Soil	587	7.87	62	0.031	6	0.56	0.010	0.03	0.2	0.01	3.4	<0.1	<0.05	2	<0.5	<0.2
1159097	Soil	449	7.46	90	0.018	6	0.53	0.006	0.04	0.5	0.03	3.4	<0.1	0.09	2	0.6	<0.2
1159098	Soil	290	5.40	31	0.013	6	0.35	0.018	0.02	0.3	<0.01	2.3	<0.1	0.07	<1	0.7	<0.2
1159099	Soil	906	3.82	43	0.030	3	0.68	0.005	0.02	0.6	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1159100	Soil	290	1.09	57	0.051	<1	0.59	0.008	0.02	0.2	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1161242	Soil	55	0.34	54	0.064	1	1.58	0.024	0.03	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1161243	Soil	131	1.53	244	0.153	<1	1.63	0.022	0.34	<0.1	<0.01	6.1	0.2	<0.05	6	<0.5	<0.2
1161244	Soil	809	10.79	66	0.026	13	0.43	0.007	0.04	0.4	<0.01	3.7	<0.1	0.09	1	<0.5	<0.2
1161245	Soil	584	8.19	56	0.016	10	0.48	0.008	0.03	0.2	0.01	3.2	<0.1	0.06	1	<0.5	<0.2
1161246	Soil	772	8.53	105	0.011	10	0.48	0.009	0.03	0.3	0.02	2.5	<0.1	0.10	1	<0.5	<0.2
1161247	Soil	262	5.50	94	0.021	5	0.74	0.010	0.04	0.2	0.02	2.6	<0.1	0.08	2	0.6	<0.2
1161248	Soil	372	6.33	81	0.026	5	0.72	0.007	0.03	0.1	<0.01	3.2	<0.1	<0.05	2	<0.5	<0.2
1161249	Soil	385	5.22	88	0.019	3	0.66	0.012	0.02	0.4	<0.01	2.4	<0.1	0.05	2	<0.5	<0.2
1161250	Soil	407	4.39	99	0.015	4	0.85	0.010	0.04	0.8	0.02	2.6	<0.1	0.09	2	<0.5	<0.2
1159051	Soil	519	7.64	105	0.018	5	0.65	0.007	0.03	0.5	0.01	4.0	<0.1	0.06	2	<0.5	<0.2
1159052	Soil	639	9.73	73	0.009	8	0.40	0.005	0.02	0.4	0.02	3.7	<0.1	0.07	1	<0.5	<0.2
1159053	Soil	427	10.48	59	0.014	8	0.48	0.005	0.02	0.1	0.01	3.3	<0.1	<0.05	1	<0.5	<0.2
1159054	Soil	538	9.24	60	0.016	5	0.51	0.005	0.02	<0.1	0.01	3.4	<0.1	<0.05	1	<0.5	<0.2
1159055	Soil	423	8.90	72	0.016	5	0.51	0.006	0.02	<0.1	<0.01	3.3	<0.1	<0.05	2	0.5	<0.2
1159056	Soil	631	11.16	50	0.013	8	0.36	0.004	0.02	<0.1	0.01	4.3	<0.1	<0.05	1	<0.5	<0.2
1159057	Soil	559	10.55	51	0.014	5	0.45	0.004	0.02	0.1	<0.01	3.3	<0.1	<0.05	1	<0.5	<0.2
1159058	Soil	503	9.80	62	0.019	5	0.55	0.005	0.02	0.1	<0.01	3.6	<0.1	<0.05	2	<0.5	<0.2
1159059	Soil	310	8.57	76	0.011	6	0.46	0.007	0.03	0.1	0.05	2.6	<0.1	<0.05	1	<0.5	<0.2
1159060	Soil	466	10.88	54	0.013	7	0.42	0.004	0.02	0.1	0.01	3.8	<0.1	<0.05	1	<0.5	<0.2
1159154	Soil	65	0.66	114	0.109	<1	1.85	0.022	0.09	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
1159155	Soil	968	8.09	102	0.014	8	0.44	0.006	0.03	0.3	0.02	3.8	<0.1	<0.05	1	<0.5	<0.2



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159156	Soil	0.3	22.6	10.1	64	<0.1	652.7	33.4	381	3.95	6.8	2.6	7.0	17	<0.1	0.5	0.1	56	0.13	0.031	16	
1159157	Soil	0.5	10.9	2.8	37	<0.1	1301	100.8	984	4.97	3.8	<0.5	0.5	3	0.1	0.7	<0.1	21	0.08	0.040	2	
1159158	Soil	0.3	11.8	4.6	36	<0.1	1145	90.2	835	3.73	2.7	4.0	1.5	3	<0.1	0.6	<0.1	20	0.05	0.016	4	
1159159	Soil	0.5	11.5	6.0	49	<0.1	1089	99.2	1084	4.44	3.9	4.8	1.3	5	0.2	0.7	<0.1	25	0.08	0.047	6	
1159160	Soil	0.2	21.2	4.5	44	<0.1	1200	62.6	670	4.26	3.6	1.7	1.9	5	0.1	0.4	<0.1	25	0.08	0.027	5	
1159161	Soil	0.5	16.2	5.2	51	<0.1	1457	124.7	1373	5.58	3.5	1.4	1.0	5	0.3	0.9	<0.1	29	0.10	0.059	4	
1159162	Soil	0.3	12.6	4.7	50	<0.1	1550	127.8	1567	5.91	5.0	1.0	1.3	5	0.2	0.8	<0.1	27	0.07	0.038	4	
1159163	Soil	0.4	11.6	3.1	46	<0.1	1477	107.3	1229	5.25	2.7	1.3	0.8	4	0.1	0.4	<0.1	22	0.06	0.037	3	
1159164	Soil	0.3	16.9	3.6	38	<0.1	1504	96.5	1017	4.69	2.4	4.5	1.3	3	<0.1	0.3	<0.1	22	0.04	0.022	4	
1159165	Soil	0.3	10.9	4.5	61	<0.1	1100	66.5	757	5.49	2.1	1.6	1.4	8	<0.1	0.6	<0.1	37	0.13	0.068	10	
1159166	Soil	0.4	13.8	4.2	54	<0.1	1265	93.8	1197	5.22	5.1	2.5	0.7	5	0.2	1.6	0.3	20	0.12	0.056	3	
1159167	Soil	0.5	9.0	4.3	48	<0.1	1401	108.3	1268	5.31	3.5	<0.5	0.9	6	0.1	0.7	0.2	23	0.05	0.033	4	
1159168	Soil	0.3	11.7	2.5	31	<0.1	1739	154.9	1863	4.07	3.0	4.1	0.3	2	<0.1	1.7	0.1	10	0.03	0.014	<1	
1159169	Soil	0.2	11.1	2.0	28	<0.1	797.5	47.2	494	3.23	2.0	1.7	0.3	5	<0.1	0.5	<0.1	19	0.04	0.034	2	
1159170	Soil	0.3	9.8	4.2	42	<0.1	1171	66.0	669	5.23	5.4	1.4	1.1	5	0.1	0.5	0.1	28	0.06	0.045	4	
1159171	Soil	0.5	19.7	6.3	52	<0.1	856.2	75.8	1020	4.65	5.3	1.0	1.2	8	0.3	1.0	0.1	27	0.10	0.056	6	
1159172	Soil	0.3	21.0	5.6	50	<0.1	990.0	59.9	832	4.38	5.4	1.9	1.6	7	0.2	0.6	0.1	28	0.08	0.044	7	
1159173	Soil	0.6	16.8	7.7	52	<0.1	657.2	62.9	996	4.06	4.9	9.7	1.6	10	0.3	1.2	0.2	32	0.13	0.064	9	
1159103	Soil	0.5	42.7	7.5	83	<0.1	520.0	34.8	680	4.45	31.4	4.5	5.0	10	<0.1	0.9	0.1	76	0.26	0.077	16	
1159104	Soil	0.5	27.9	3.6	50	<0.1	764.2	44.2	586	4.00	9.7	2.9	3.6	8	0.1	0.6	0.1	51	0.21	0.070	11	
1159105	Soil	0.3	16.6	3.9	37	<0.1	1072	59.8	615	3.63	3.9	9.1	1.4	4	0.2	0.6	0.1	21	0.07	0.020	4	
1159106	Soil	0.4	17.5	5.1	38	<0.1	1087	73.4	852	3.85	4.7	4.8	1.8	5	0.1	1.1	0.1	23	0.08	0.020	6	
1159107	Soil	0.3	16.9	5.8	57	<0.1	998.0	47.8	580	4.32	6.6	2.0	1.3	8	0.2	0.8	0.1	27	0.10	0.053	7	
1159108	Soil	0.5	27.3	5.6	57	<0.1	1262	100.9	1452	5.52	4.2	7.9	0.8	7	0.3	1.1	0.1	24	0.10	0.073	4	
1159109	Soil	0.4	24.6	4.3	49	<0.1	1236	76.4	994	4.59	6.4	1.9	0.8	6	0.2	0.6	<0.1	19	0.12	0.045	4	
1159110	Soil	0.4	20.8	4.3	46	<0.1	1338	109.9	1347	6.04	4.9	1.0	0.8	5	0.2	0.4	0.1	24	0.07	0.055	4	
1159111	Soil	0.6	13.8	5.7	51	<0.1	973.2	68.9	800	4.53	4.4	2.6	2.4	6	0.2	0.4	0.2	26	0.06	0.025	6	
1159112	Soil	0.7	14.2	6.6	49	<0.1	1066	82.9	1041	4.68	4.8	1.9	1.8	5	0.2	1.6	0.1	24	0.06	0.040	6	
1159113	Soil	0.2	10.7	3.9	48	<0.1	1536	112.6	1209	5.04	3.0	1.6	0.6	3	0.1	0.5	<0.1	16	0.04	0.033	3	
1159114	Soil	0.3	13.8	3.0	38	<0.1	1525	98.3	1190	4.13	2.8	2.3	0.4	6	<0.1	1.3	<0.1	14	0.08	0.042	2	



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159156	Soil	321	3.39	630	0.118	3	0.91	0.008	0.18	0.1	0.02	5.4	0.3	<0.05	4	<0.5	<0.2
1159157	Soil	685	8.57	64	0.009	12	0.26	0.004	0.02	0.4	0.02	3.0	<0.1	0.05	<1	0.5	<0.2
1159158	Soil	531	9.25	36	0.015	11	0.33	0.005	0.02	0.4	0.01	3.0	<0.1	<0.05	1	<0.5	<0.2
1159159	Soil	633	7.43	79	0.016	8	0.49	0.006	0.03	0.5	0.01	3.1	<0.1	<0.05	2	<0.5	<0.2
1159160	Soil	501	8.26	50	0.025	7	0.48	0.007	0.02	0.2	<0.01	3.8	<0.1	<0.05	1	<0.5	<0.2
1159161	Soil	941	11.04	57	0.013	18	0.44	0.005	0.05	0.3	0.03	4.0	<0.1	0.05	1	<0.5	<0.2
1159162	Soil	632	11.42	77	0.013	14	0.47	0.004	0.02	0.3	0.03	5.1	<0.1	<0.05	1	<0.5	<0.2
1159163	Soil	636	12.26	60	0.009	14	0.34	0.005	0.02	0.2	0.01	4.2	<0.1	<0.05	1	<0.5	<0.2
1159164	Soil	662	12.26	42	0.016	14	0.32	0.004	0.01	0.2	0.01	4.3	<0.1	<0.05	1	<0.5	<0.2
1159165	Soil	601	7.79	121	0.014	7	0.65	0.008	0.03	<0.1	<0.01	4.9	<0.1	<0.05	2	<0.5	<0.2
1159166	Soil	447	8.09	65	0.012	6	0.49	0.006	0.02	0.5	0.05	3.0	<0.1	<0.05	1	0.8	<0.2
1159167	Soil	456	8.44	62	0.022	8	0.48	0.009	0.02	0.9	0.02	4.1	<0.1	<0.05	1	<0.5	<0.2
1159168	Soil	379	14.04	35	0.005	12	0.17	0.003	0.01	0.5	0.02	2.3	<0.1	<0.05	<1	<0.5	<0.2
1159169	Soil	360	4.25	36	0.021	5	0.36	0.014	0.02	0.6	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
1159170	Soil	631	8.74	50	0.015	6	0.39	0.004	0.02	0.2	0.03	2.7	<0.1	<0.05	1	<0.5	<0.2
1159171	Soil	341	5.53	89	0.021	3	0.66	0.007	0.04	0.2	0.03	2.9	<0.1	<0.05	2	<0.5	<0.2
1159172	Soil	470	6.98	75	0.023	6	0.54	0.006	0.03	0.2	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
1159173	Soil	357	3.60	116	0.025	4	0.70	0.007	0.05	0.2	0.04	2.8	<0.1	<0.05	2	<0.5	<0.2
1159103	Soil	175	3.33	271	0.188	3	1.31	0.008	0.44	0.1	0.03	5.8	0.4	<0.05	6	<0.5	<0.2
1159104	Soil	368	6.31	126	0.092	5	0.80	0.011	0.22	0.1	0.02	4.2	0.2	<0.05	3	<0.5	<0.2
1159105	Soil	399	9.48	39	0.018	9	0.38	0.006	0.02	0.2	0.01	2.4	<0.1	<0.05	1	<0.5	<0.2
1159106	Soil	385	8.94	53	0.018	8	0.42	0.006	0.03	0.4	0.03	2.5	<0.1	<0.05	1	0.6	<0.2
1159107	Soil	466	6.55	75	0.022	4	0.60	0.008	0.03	0.3	0.02	2.7	<0.1	<0.05	2	<0.5	<0.2
1159108	Soil	468	9.60	98	0.013	7	0.50	0.006	0.03	0.2	0.04	2.9	<0.1	<0.05	1	0.6	<0.2
1159109	Soil	353	10.62	64	0.012	7	0.42	0.005	0.02	0.1	0.03	2.6	<0.1	<0.05	1	<0.5	<0.2
1159110	Soil	562	9.88	77	0.012	6	0.53	0.005	0.02	0.2	0.04	3.4	<0.1	<0.05	2	0.5	<0.2
1159111	Soil	345	8.78	79	0.020	5	0.60	0.004	0.02	0.1	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
1159112	Soil	359	9.03	70	0.017	7	0.64	0.004	0.02	0.2	0.03	4.1	<0.1	<0.05	2	0.5	<0.2
1159113	Soil	484	11.21	48	0.010	5	0.34	0.004	0.02	0.5	0.02	2.6	<0.1	<0.05	<1	<0.5	<0.2
1159114	Soil	396	8.47	51	0.011	5	0.39	0.011	0.02	0.5	0.03	2.9	<0.1	<0.05	<1	0.5	<0.2



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Project: 4c
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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159115	Soil	0.2	12.1	3.1	39	<0.1	1693	117.8	1312	5.57	18.1	6.4	0.7	3	0.1	0.9	<0.1	18	0.06	0.028	3
1159116	Soil	0.4	15.8	4.2	47	<0.1	1295	74.6	830	4.88	5.5	1.7	1.2	5	0.2	0.9	<0.1	24	0.09	0.037	5
1159117	Soil	0.5	19.3	5.8	57	<0.1	813.8	38.8	476	3.77	4.0	1.6	1.5	8	0.2	0.6	0.1	25	0.11	0.050	7
1159118	Soil	0.4	24.3	4.9	51	<0.1	984.6	60.4	871	4.14	4.4	1.2	1.2	8	0.2	0.6	0.1	25	0.09	0.065	6
1159119	Soil	0.6	7.1	6.1	33	<0.1	314.0	22.3	251	3.64	4.2	1.0	1.6	6	0.1	1.4	0.2	44	0.08	0.025	9
1159120	Soil	0.5	9.0	6.6	41	<0.1	370.6	37.7	717	3.34	7.6	6.5	2.0	9	0.2	1.7	0.1	36	0.14	0.030	9
1159121	Soil	0.7	7.9	8.5	59	<0.1	647.4	68.2	791	5.84	13.0	2.8	1.9	6	0.4	2.9	0.2	42	0.07	0.038	6
1159122	Soil	0.7	20.8	11.0	63	<0.1	645.2	63.7	1398	3.94	14.5	3.3	1.5	12	0.5	1.9	0.2	39	0.14	0.079	11
1159123	Soil	0.6	13.1	8.1	43	<0.1	638.9	55.1	755	4.44	9.7	4.8	2.3	8	0.2	1.3	0.1	33	0.07	0.041	8
1159124	Soil	0.6	14.9	6.6	45	<0.1	420.0	32.7	467	3.07	8.3	2.6	4.7	11	0.2	1.2	0.1	34	0.17	0.058	12
1159125	Soil	0.6	11.4	8.2	74	<0.1	528.0	60.2	1279	5.61	8.5	1.7	0.5	11	0.3	1.0	0.2	43	0.15	0.166	6
1159126	Soil	0.4	11.5	5.7	84	<0.1	1134	128.9	2025	7.25	7.4	2.4	0.5	6	0.4	1.1	<0.1	35	0.09	0.088	4
1159127	Soil	0.6	15.8	5.9	58	<0.1	938.8	63.9	903	4.49	6.9	2.5	1.8	6	0.3	1.0	0.1	30	0.07	0.043	8
1159128	Soil	0.5	12.7	5.1	59	<0.1	1057	91.6	1397	5.03	6.9	1.0	1.3	5	0.2	0.9	0.2	29	0.06	0.043	5
1159129	Soil	0.8	13.6	9.3	51	<0.1	278.0	32.6	573	3.28	6.8	0.7	0.6	10	0.3	1.0	0.2	44	0.20	0.130	9
1159130	Soil	0.8	16.6	8.6	59	<0.1	465.9	52.9	1087	3.20	6.0	1.7	1.6	16	0.3	1.0	0.2	34	0.26	0.077	8
1159131	Soil	0.9	17.1	11.1	60	<0.1	421.5	53.1	749	4.50	6.4	<0.5	1.8	14	0.3	1.0	0.3	51	0.11	0.057	9
1159132	Soil	0.1	29.8	2.8	42	<0.1	222.1	30.5	503	3.77	1.0	1.1	0.6	8	<0.1	0.3	<0.1	117	0.18	0.018	2
1159395	Soil	0.5	61.6	3.3	27	<0.1	25.1	9.1	209	1.73	0.6	<0.5	0.3	6	<0.1	1.4	<0.1	46	0.24	0.029	3
1159150	Soil	0.4	20.2	6.3	56	<0.1	1133	55.3	713	4.66	5.4	3.2	1.2	7	0.3	0.5	0.1	23	0.10	0.061	7
1159201	Soil	0.3	14.3	4.0	56	<0.1	1261	86.4	1074	4.76	2.8	1.7	0.4	8	0.2	0.4	<0.1	16	0.08	0.056	3
1159202	Soil	0.6	21.9	7.0	55	<0.1	1262	100.6	1452	5.52	5.8	2.2	1.0	7	0.4	0.6	0.1	24	0.12	0.060	6



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Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000536.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159115	Soil	486	11.55	45	0.010	5	0.31	0.003	0.02	0.4	0.03	3.6	<0.1	<0.05	<1	0.6	<0.2
1159116	Soil	506	10.03	56	0.015	6	0.43	0.004	0.02	0.1	0.03	3.1	<0.1	<0.05	1	<0.5	<0.2
1159117	Soil	261	6.39	92	0.020	<1	0.75	0.007	0.03	0.2	0.02	2.7	<0.1	<0.05	2	<0.5	<0.2
1159118	Soil	306	6.93	84	0.018	3	0.66	0.007	0.04	0.2	0.03	2.6	<0.1	<0.05	2	<0.5	<0.2
1159119	Soil	534	0.83	68	0.053	<1	0.50	0.006	0.03	0.9	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
1159120	Soil	329	1.48	96	0.036	<1	0.83	0.008	0.03	1.8	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1159121	Soil	666	3.03	81	0.035	1	0.56	0.007	0.04	2.2	0.05	1.9	<0.1	<0.05	3	0.6	<0.2
1159122	Soil	264	2.61	190	0.030	1	1.27	0.011	0.04	1.0	0.05	3.4	<0.1	<0.05	4	0.7	<0.2
1159123	Soil	409	3.02	97	0.034	2	0.86	0.010	0.04	1.4	0.03	2.5	<0.1	<0.05	3	0.7	<0.2
1159124	Soil	241	1.61	93	0.045	1	0.80	0.007	0.03	0.5	0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1159125	Soil	501	1.81	140	0.025	2	0.92	0.007	0.04	1.8	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
1159126	Soil	851	6.76	124	0.017	14	0.51	0.006	0.03	1.5	0.03	2.8	<0.1	<0.05	2	<0.5	<0.2
1159127	Soil	516	6.94	76	0.023	10	0.64	0.004	0.02	1.0	0.03	3.6	<0.1	<0.05	2	<0.5	<0.2
1159128	Soil	380	10.50	83	0.017	13	0.50	0.004	0.02	1.1	0.02	5.7	<0.1	<0.05	1	<0.5	<0.2
1159129	Soil	170	1.04	63	0.028	<1	1.21	0.010	0.06	0.6	0.04	1.5	<0.1	<0.05	4	0.7	<0.2
1159130	Soil	240	1.93	97	0.031	2	0.98	0.009	0.05	0.4	0.04	2.6	<0.1	0.07	3	<0.5	<0.2
1159131	Soil	500	2.00	168	0.039	2	1.24	0.006	0.04	0.3	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
1159132	Soil	185	1.30	461	0.217	1	1.21	0.006	0.23	<0.1	0.02	8.9	0.6	<0.05	6	<0.5	<0.2
1159395	Soil	54	0.40	42	0.117	<1	1.28	0.021	0.04	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1159150	Soil	374	7.26	77	0.020	4	0.68	0.007	0.03	0.2	0.04	3.0	<0.1	<0.05	2	<0.5	<0.2
1159201	Soil	264	9.13	94	0.015	3	0.52	0.010	0.02	0.3	0.02	2.6	<0.1	<0.05	2	<0.5	<0.2
1159202	Soil	281	8.41	112	0.016	5	0.70	0.005	0.05	0.4	0.04	3.1	<0.1	<0.05	2	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000536.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1161204	Soil	0.4	590.4	1.9	242	<0.1	96.8	38.8	201	2.46	<0.5	1.2	0.2	8	0.3	0.1	<0.1	49	0.20	0.034	3
REP 1161204	QC	0.4	580.9	1.9	240	<0.1	96.0	38.1	195	2.43	<0.5	0.6	0.2	8	0.3	<0.1	<0.1	48	0.19	0.033	4
1161229	Soil	1.5	2082	8.3	294	0.1	113.0	76.9	674	4.84	0.9	6.6	1.6	16	0.4	<0.1	0.1	120	0.48	0.061	9
REP 1161229	QC	1.4	2066	8.7	300	0.1	112.9	78.4	678	4.82	0.8	5.9	1.5	16	0.5	<0.1	0.1	120	0.46	0.059	9
1161266	Soil	0.1	24.3	2.8	46	<0.1	1581	106.7	1147	5.53	3.2	1.8	0.6	4	0.2	0.3	<0.1	21	0.05	0.037	3
REP 1161266	QC	0.2	23.4	2.8	44	<0.1	1481	97.4	1070	5.39	3.3	1.9	0.6	4	0.1	0.4	<0.1	20	0.05	0.038	3
1161279	Soil	0.2	76.2	3.7	52	<0.1	452.8	35.9	437	4.87	15.2	2.3	2.0	6	0.1	0.3	0.1	84	0.21	0.034	7
REP 1161279	QC	0.1	75.0	4.0	52	<0.1	464.2	34.5	445	4.97	15.8	1.6	2.1	6	0.1	0.3	<0.1	87	0.21	0.034	7
1160700	Soil	0.7	136.7	7.4	97	0.1	56.5	29.1	896	4.84	0.5	1.3	3.6	14	0.1	0.2	0.1	115	0.54	0.096	17
REP 1160700	QC	0.8	134.1	7.3	95	0.2	55.9	27.9	877	4.72	<0.5	1.9	3.6	14	<0.1	0.2	0.1	112	0.54	0.097	17
1159466	Soil	0.5	80.2	6.5	73	<0.1	53.8	19.0	502	3.09	0.7	<0.5	1.2	12	0.2	0.2	<0.1	84	0.31	0.067	8
REP 1159466	QC	0.6	78.6	6.3	71	<0.1	54.1	18.7	486	3.06	0.6	1.1	1.2	12	0.2	0.3	<0.1	82	0.29	0.064	8
1159475	Soil	0.4	21.1	5.0	48	<0.1	1099	67.5	900	4.64	8.2	3.4	1.7	6	0.2	0.9	<0.1	24	0.09	0.041	7
REP 1159475	QC	0.4	21.8	4.8	48	<0.1	1101	66.6	900	4.60	8.1	2.9	1.8	6	0.2	0.9	<0.1	25	0.09	0.039	7
1159370	Soil	<0.1	7.2	1.8	14	<0.1	1324	78.7	795	3.84	3.2	1.6	0.2	9	<0.1	0.2	<0.1	9	0.36	0.008	<1
REP 1159370	QC	<0.1	7.1	1.8	15	<0.1	1335	79.7	824	3.92	3.1	2.9	0.2	9	0.1	0.2	<0.1	9	0.36	0.008	<1
1159376	Soil	0.4	25.2	6.7	51	<0.1	1021	66.1	792	4.38	3.1	<0.5	1.4	8	0.2	0.5	0.2	24	0.13	0.061	6
REP 1159376	QC	0.4	25.6	7.1	56	<0.1	1044	69.8	832	4.55	2.9	<0.5	1.4	8	0.3	0.6	0.2	24	0.12	0.062	7
1178139	Soil	0.6	8.0	4.7	69	<0.1	924.3	78.8	883	7.85	1.3	<0.5	1.5	3	0.2	0.7	0.1	48	0.07	0.037	5
REP 1178139	QC	0.4	8.2	4.6	68	<0.1	913.6	76.6	856	7.58	2.4	<0.5	1.6	4	0.1	0.7	0.1	46	0.05	0.039	5
1159027	Soil	0.9	837.4	8.6	73	0.2	46.1	13.1	252	2.48	1.6	5.6	2.0	7	0.1	0.4	0.6	52	0.22	0.039	10
REP 1159027	QC	0.9	844.2	8.8	72	0.2	45.7	13.4	247	2.49	1.6	5.4	2.1	8	0.2	0.3	0.5	51	0.21	0.039	10
1159043	Soil	0.8	13.8	7.3	58	<0.1	671.8	61.4	927	3.79	3.8	0.7	3.1	20	0.2	0.6	0.1	35	0.25	0.026	10
REP 1159043	QC	0.8	13.7	7.1	56	<0.1	657.1	61.4	905	3.68	3.6	1.2	2.8	20	0.2	0.6	0.1	33	0.23	0.027	9
1161475	Soil	0.4	15.2	4.3	57	<0.1	1409	124.4	2005	5.94	11.5	2.1	1.1	6	0.3	1.3	<0.1	29	0.11	0.054	5
REP 1161475	QC	0.4	15.1	4.2	58	<0.1	1428	124.2	1977	5.84	11.5	2.3	1.1	6	0.2	1.3	<0.1	29	0.11	0.054	5
1159083	Soil	0.4	13.4	4.4	54	<0.1	836.4	70.3	847	4.56	3.5	2.4	2.1	7	0.2	0.4	<0.1	33	0.10	0.037	7
REP 1159083	QC	0.4	13.7	3.8	54	<0.1	867.0	71.7	825	4.51	3.7	0.9	2.1	6	0.2	0.4	<0.1	33	0.10	0.037	7



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Project: 4c
Report Date: August 05, 2011

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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
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1161204	Soil	40	0.64	64	0.030	<1	1.90	0.022	0.02	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
REP 1161204	QC	39	0.63	61	0.030	<1	1.88	0.021	0.02	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
1161229	Soil	119	1.62	241	0.125	<1	3.03	0.025	0.24	<0.1	0.02	8.3	0.1	0.08	9	1.2	<0.2
REP 1161229	QC	120	1.59	246	0.122	<1	2.98	0.024	0.24	<0.1	0.02	8.2	0.1	0.08	9	1.4	<0.2
1161266	Soil	594	10.88	47	0.010	12	0.34	0.006	0.02	0.4	0.04	3.4	<0.1	<0.05	1	<0.5	<0.2
REP 1161266	QC	576	10.34	45	0.011	9	0.36	0.006	0.02	0.4	0.03	3.4	<0.1	<0.05	<1	<0.5	<0.2
1161279	Soil	223	3.72	128	0.132	3	1.81	0.020	0.15	0.2	<0.01	6.7	0.2	<0.05	6	<0.5	<0.2
REP 1161279	QC	230	3.77	129	0.138	4	1.83	0.020	0.15	0.2	<0.01	6.9	0.2	<0.05	5	<0.5	<0.2
1160700	Soil	79	1.02	584	0.114	1	1.86	0.040	0.61	<0.1	0.02	12.9	0.2	<0.05	6	<0.5	<0.2
REP 1160700	QC	77	1.04	582	0.109	1	1.89	0.040	0.60	<0.1	0.02	12.3	0.2	<0.05	7	<0.5	<0.2
1159466	Soil	91	1.03	273	0.096	<1	2.10	0.023	0.32	<0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
REP 1159466	QC	89	1.02	267	0.091	<1	2.07	0.023	0.31	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
1159475	Soil	481	9.24	76	0.017	5	0.55	0.007	0.02	0.2	0.02	3.4	<0.1	<0.05	2	<0.5	<0.2
REP 1159475	QC	488	9.26	75	0.018	6	0.55	0.007	0.02	0.2	0.02	3.4	<0.1	<0.05	2	0.6	<0.2
1159370	Soil	334	7.86	23	0.002	<1	0.20	0.003	<0.01	0.1	0.01	5.1	<0.1	<0.05	<1	<0.5	<0.2
REP 1159370	QC	340	8.15	24	0.002	<1	0.20	0.003	<0.01	0.2	<0.01	5.2	<0.1	<0.05	<1	<0.5	<0.2
1159376	Soil	388	7.49	78	0.018	6	0.60	0.008	0.03	<0.1	0.02	2.6	<0.1	<0.05	2	<0.5	<0.2
REP 1159376	QC	376	7.68	80	0.016	6	0.61	0.008	0.04	0.1	0.02	2.7	<0.1	<0.05	2	0.8	<0.2
1178139	Soil	1472	4.73	38	0.036	5	0.41	0.006	0.03	0.6	<0.01	2.5	<0.1	<0.05	3	2.0	<0.2
REP 1178139	QC	1441	4.57	38	0.034	3	0.41	0.006	0.03	0.6	<0.01	2.6	<0.1	<0.05	3	1.1	<0.2
1159027	Soil	76	0.74	96	0.080	<1	1.45	0.020	0.07	0.2	0.07	3.6	0.2	<0.05	6	<0.5	<0.2
REP 1159027	QC	77	0.74	95	0.079	<1	1.49	0.021	0.07	0.2	0.06	3.8	0.1	<0.05	6	<0.5	<0.2
1159043	Soil	412	5.39	109	0.039	6	0.95	0.014	0.05	0.2	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2
REP 1159043	QC	391	5.22	108	0.037	7	0.91	0.013	0.04	0.2	0.03	3.6	<0.1	<0.05	3	<0.5	<0.2
1161475	Soil	610	9.57	95	0.016	9	0.53	0.007	0.03	0.2	0.05	3.9	<0.1	<0.05	2	<0.5	<0.2
REP 1161475	QC	617	9.91	97	0.017	9	0.53	0.007	0.03	0.2	0.05	4.0	<0.1	<0.05	2	0.6	<0.2
1159083	Soil	630	5.92	70	0.028	4	0.61	0.009	0.03	0.2	0.02	3.2	<0.1	<0.05	2	<0.5	<0.2
REP 1159083	QC	646	5.98	68	0.029	4	0.60	0.008	0.03	0.2	0.01	3.3	<0.1	<0.05	2	<0.5	<0.2



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Part 1

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1159097	Soil	0.6	14.8	6.3	52	<0.1	1272	95.2	1295	5.50	5.7	4.7	1.0	7	0.3	0.8	0.2	23	0.12	0.063
REP 1159097	QC	0.6	15.7	7.1	53	<0.1	1271	96.1	1261	5.51	5.4	2.0	1.1	7	0.5	0.7	0.2	23	0.13	0.065
1159055	Soil	0.5	14.3	4.8	51	<0.1	1268	77.2	938	4.68	6.0	2.2	1.2	6	0.2	1.2	0.1	22	0.10	0.044
REP 1159055	QC	0.4	14.6	4.9	50	<0.1	1251	76.5	944	4.66	6.4	1.1	1.2	6	0.2	1.0	0.1	23	0.09	0.041
1159108	Soil	0.5	27.3	5.6	57	<0.1	1262	100.9	1452	5.52	4.2	7.9	0.8	7	0.3	1.1	0.1	24	0.10	0.073
REP 1159108	QC	0.5	26.7	5.5	56	<0.1	1239	101.8	1443	5.48	4.2	2.6	0.8	7	0.3	1.0	0.1	24	0.10	0.071
1159128	Soil	0.5	12.7	5.1	59	<0.1	1057	91.6	1397	5.03	6.9	1.0	1.3	5	0.2	0.9	0.2	29	0.06	0.043
REP 1159128	QC	0.5	12.7	5.1	60	<0.1	1081	92.8	1420	5.19	6.9	<0.5	1.4	5	0.2	1.0	<0.1	30	0.06	0.044
1159130	Soil	0.8	16.6	8.6	59	<0.1	465.9	52.9	1087	3.20	6.0	1.7	1.6	16	0.3	1.0	0.2	34	0.26	0.077
REP 1159130	QC	0.7	16.1	8.7	56	<0.1	458.4	51.6	1047	3.29	5.9	<0.5	1.8	16	0.3	1.0	0.2	35	0.26	0.075
Reference Materials																				
STD DS8	Standard	13.7	112.2	120.7	324	1.8	39.4	7.9	596	2.39	25.1	112.1	6.6	63	2.1	4.9	6.8	42	0.66	0.077
STD DS8	Standard	13.4	115.2	122.3	316	1.8	40.7	7.9	626	2.57	25.9	111.9	6.8	65	2.5	5.0	6.9	44	0.71	0.078
STD DS8	Standard	13.4	115.4	136.6	333	1.8	37.5	7.5	639	2.54	28.0	109.9	7.1	71	2.5	6.2	7.2	43	0.70	0.084
STD DS8	Standard	12.9	108.0	125.9	314	1.8	37.1	7.2	595	2.39	25.8	114.8	6.9	65	2.4	5.7	7.0	40	0.64	0.079
STD DS8	Standard	11.3	93.5	115.3	276	1.5	31.5	6.5	537	2.14	23.0	105.1	6.4	54	2.2	4.5	5.2	37	0.61	0.067
STD DS8	Standard	12.4	103.3	125.7	303	1.7	33.4	7.2	591	2.36	25.3	114.0	7.0	60	2.4	4.9	5.6	41	0.67	0.074
STD DS8	Standard	13.5	106.1	126.6	303	1.7	36.1	7.0	587	2.34	25.3	104.4	6.9	68	2.1	5.8	6.2	40	0.67	0.077
STD DS8	Standard	12.7	105.8	121.8	298	1.9	36.9	7.2	576	2.36	25.8	106.6	7.0	67	1.9	5.7	6.1	40	0.64	0.075
STD DS8	Standard	12.6	109.7	125.6	314	1.7	37.7	7.2	595	2.45	26.9	109.4	6.4	67	2.3	5.6	6.7	40	0.65	0.081
STD DS8	Standard	12.4	103.0	122.9	301	1.7	34.2	6.9	571	2.34	25.1	116.0	5.9	64	2.1	5.5	6.3	39	0.64	0.076
STD DS8	Standard	14.1	108.2	127.1	315	1.7	39.8	7.7	617	2.53	27.0	103.9	6.9	64	2.3	6.1	5.8	39	0.71	0.081
STD DS8	Standard	13.8	106.1	126.4	309	1.9	45.7	8.1	629	2.54	25.7	130.1	7.3	63	2.3	5.6	6.1	38	0.71	0.080
STD DS8	Standard	12.1	98.0	112.1	286	1.7	33.9	6.9	558	2.23	23.9	98.9	6.1	63	2.0	5.3	5.9	38	0.62	0.072
STD DS8	Standard	11.9	97.9	112.0	291	1.7	34.5	6.7	553	2.23	24.1	98.5	6.1	63	2.4	5.3	5.8	37	0.60	0.075
STD DS8	Standard	11.9	104.6	125.9	302	1.9	36.5	7.3	589	2.40	25.6	125.3	6.2	60	2.3	5.5	5.8	41	0.62	0.077
STD DS8	Standard	12.8	107.1	125.3	302	1.8	37.5	7.5	602	2.38	24.7	103.9	6.3	61	2.3	5.4	5.6	42	0.63	0.077
STD DS8	Standard	13.6	99.6	125.1	307	1.8	37.5	7.6	619	2.46	24.3	120.1	6.7	65	2.3	5.2	6.4	42	0.71	0.080
STD DS8	Standard	12.3	105.9	125.5	300	1.7	35.7	7.2	592	2.39	24.6	99.8	6.7	61	2.1	5.6	6.4	40	0.66	0.077



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Part 2

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159097	Soil	449	7.46	90	0.018	6	0.53	0.006	0.04	0.5	0.03	3.4	<0.1	0.09	2	0.6	<0.2
REP 1159097	QC	447	7.24	94	0.018	6	0.54	0.006	0.04	0.5	<0.01	3.8	<0.1	0.12	2	<0.5	<0.2
1159055	Soil	423	8.90	72	0.016	5	0.51	0.006	0.02	<0.1	<0.01	3.3	<0.1	<0.05	2	0.5	<0.2
REP 1159055	QC	417	9.22	74	0.015	5	0.52	0.006	0.02	0.1	0.02	3.3	<0.1	<0.05	2	<0.5	<0.2
1159108	Soil	468	9.60	98	0.013	7	0.50	0.006	0.03	0.2	0.04	2.9	<0.1	<0.05	1	0.6	<0.2
REP 1159108	QC	458	9.67	97	0.013	6	0.49	0.006	0.03	0.2	0.04	2.9	<0.1	<0.05	2	0.5	<0.2
1159128	Soil	380	10.50	83	0.017	13	0.50	0.004	0.02	1.1	0.02	5.7	<0.1	<0.05	1	<0.5	<0.2
REP 1159128	QC	393	10.61	80	0.017	15	0.50	0.004	0.02	1.1	0.02	5.9	<0.1	<0.05	2	<0.5	<0.2
1159130	Soil	240	1.93	97	0.031	2	0.98	0.009	0.05	0.4	0.04	2.6	<0.1	0.07	3	<0.5	<0.2
REP 1159130	QC	254	1.94	95	0.033	2	1.00	0.009	0.05	0.4	0.03	2.7	<0.1	0.07	3	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.59	268	0.112	2	0.88	0.082	0.41	2.9	0.19	2.1	5.6	0.16	5	5.7	4.8
STD DS8	Standard	127	0.62	289	0.115	3	0.92	0.087	0.43	2.9	0.20	2.1	5.4	0.16	5	4.8	5.0
STD DS8	Standard	124	0.64	276	0.120	3	0.93	0.087	0.45	2.8	0.21	2.1	5.7	0.17	5	5.6	5.2
STD DS8	Standard	114	0.60	262	0.108	2	0.87	0.080	0.41	2.8	0.20	1.9	5.4	0.13	4	4.7	4.9
STD DS8	Standard	101	0.54	254	0.099	2	0.80	0.079	0.37	2.7	0.18	2.2	4.9	0.10	4	4.1	4.2
STD DS8	Standard	106	0.59	278	0.110	2	0.88	0.087	0.41	2.9	0.20	2.4	5.3	0.12	5	4.5	4.6
STD DS8	Standard	111	0.60	271	0.121	2	0.87	0.089	0.40	2.9	0.22	1.9	5.3	0.13	5	5.6	4.6
STD DS8	Standard	109	0.59	266	0.117	2	0.87	0.085	0.40	2.8	0.21	2.0	5.1	0.11	4	5.1	4.9
STD DS8	Standard	112	0.60	262	0.112	2	0.88	0.083	0.41	2.9	0.22	1.8	5.4	0.13	4	5.3	4.7
STD DS8	Standard	105	0.55	256	0.107	<1	0.84	0.082	0.40	2.8	0.20	1.8	5.3	0.10	4	5.4	4.9
STD DS8	Standard	116	0.57	295	0.127	3	0.93	0.073	0.41	3.3	0.20	2.1	5.3	0.07	5	6.4	5.0
STD DS8	Standard	114	0.61	289	0.120	2	0.93	0.073	0.42	3.2	0.20	2.0	5.4	0.06	5	7.2	5.9
STD DS8	Standard	106	0.58	251	0.105	3	0.83	0.079	0.38	2.5	0.20	1.7	4.8	0.15	4	4.3	4.4
STD DS8	Standard	104	0.55	251	0.102	3	0.83	0.082	0.39	2.6	0.18	1.8	4.9	0.15	4	3.9	4.5
STD DS8	Standard	107	0.54	269	0.109	3	0.87	0.069	0.40	2.9	0.21	1.7	5.5	0.15	4	5.3	5.1
STD DS8	Standard	107	0.54	264	0.112	2	0.86	0.069	0.40	2.9	0.24	1.8	5.4	0.13	4	5.7	5.1
STD DS8	Standard	113	0.65	279	0.116	3	0.94	0.087	0.44	3.0	0.22	2.1	5.5	0.19	5	5.2	5.1
STD DS8	Standard	113	0.58	271	0.113	2	0.87	0.082	0.39	3.0	0.19	1.9	5.2	0.19	4	4.0	4.6



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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 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	1DX15 La ppm 1
STD DS8	Standard	13.4	108.4	128.5	300	1.7	36.4	7.2	596	2.37	25.2	102.2	6.8	62	2.4	4.9	6.7	42	0.64	0.080	13
STD DS8	Standard	13.7	116.9	130.5	318	1.8	40.7	8.4	632	2.55	27.2	109.1	6.5	62	2.4	5.5	6.6	46	0.70	0.078	14
STD DS8	Standard	13.5	111.3	129.2	302	1.8	38.7	7.8	591	2.40	24.2	109.9	6.8	62	2.2	5.2	6.5	42	0.67	0.073	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: 4c

Report Date: August 05, 2011

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QUALITY CONTROL REPORT

WHI11000536.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
STD DS8	Standard	115	0.58	262	0.115	3	0.87	0.081	0.38	3.0	0.17	2.0	5.4	0.17	4	4.8
STD DS8	Standard	125	0.61	264	0.117	2	0.91	0.087	0.41	3.0	0.20	2.4	5.6	0.22	5	5.8
STD DS8	Standard	118	0.58	261	0.115	2	0.90	0.089	0.39	3.0	0.21	2.3	5.4	0.18	5	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5



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Submitted By: Hugh Baker
Receiving Lab: Canada-Whitehorse
Received: July 12, 2011
Report Date: August 05, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

WHI11000537.1

CLIENT JOB INFORMATION

Project: 4c
Shipment ID: 4C-2011-S-1
P.O. Number: Quotation NA-11-435
Number of Samples: 211

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Redtail Metals Corp
11 Floor- 888 Dunsmuir St
Vancouver BC V6C 3K4
Canada

CC: Jack Cote
Andrew Caldwell
Gilles Dessureau
Greg Dawson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	211	Dry at 60C			WHI
SS80	211	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	210	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Vancouver BC V6C 3K4 Canada

Project:

4c

Report Date:

August 05, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000537.1

	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159203	Soil				0.3	20.4	3.7	45	<0.1	1459	102.5	1216	4.69	4.1	<0.5	0.7	9	0.2	0.4	<0.1	19	0.10	0.064	4
1159204	Soil				0.2	10.8	3.4	41	<0.1	1634	115.5	1581	5.82	6.5	1.5	0.8	3	0.1	0.3	<0.1	21	0.04	0.030	3
1159205	Soil				0.3	10.3	3.1	39	<0.1	1524	106.1	1272	5.15	8.2	3.0	0.7	4	0.1	0.6	<0.1	21	0.08	0.030	3
1159206	Soil				0.5	10.3	4.7	68	<0.1	1481	151.1	2209	6.06	5.7	2.6	0.7	6	0.4	0.5	<0.1	30	0.14	0.062	4
1159207	Soil				0.3	8.8	2.5	41	<0.1	2079	143.8	1740	6.21	10.4	2.4	0.3	3	0.1	0.7	<0.1	23	0.08	0.034	1
1159254	Soil				0.7	25.9	6.4	31	<0.1	48.8	7.2	148	1.68	<0.5	1.1	0.2	5	<0.1	0.2	0.2	56	0.13	0.032	6
1159255	Soil				0.5	26.1	4.3	27	<0.1	42.4	6.6	118	1.36	<0.5	1.1	0.2	5	<0.1	0.2	<0.1	40	0.19	0.038	5
1159256	Soil				0.8	47.7	4.6	30	0.1	18.6	7.6	184	1.72	<0.5	0.9	0.4	5	0.2	0.2	0.1	51	0.16	0.040	5
1159257	Soil				0.2	30.9	4.0	39	<0.1	787.1	45.6	550	3.43	1.6	2.1	0.9	24	0.2	0.4	<0.1	33	0.15	0.033	4
1159258	Soil				0.3	20.8	4.4	43	<0.1	696.3	43.0	518	3.37	1.3	<0.5	0.9	23	<0.1	0.4	<0.1	31	0.14	0.029	4
1159259	Soil				0.3	12.7	4.2	37	<0.1	975.8	58.2	734	3.85	2.7	0.8	0.9	28	<0.1	0.3	<0.1	23	0.14	0.029	3
1159260	Soil				0.6	30.2	4.8	39	<0.1	792.0	39.6	418	3.33	1.6	0.7	1.3	16	<0.1	0.2	<0.1	32	0.30	0.027	5
1159261	Soil				0.4	44.0	3.8	35	<0.1	812.5	54.3	306	3.12	1.8	0.8	0.9	25	<0.1	0.3	<0.1	35	0.29	0.024	4
1159262	Soil				0.4	56.8	3.6	30	<0.1	53.0	8.2	166	1.42	<0.5	<0.5	0.4	7	0.1	0.2	<0.1	38	0.20	0.028	6
1159263	Soil				0.6	93.3	4.8	49	<0.1	80.9	21.9	448	2.87	1.3	0.6	1.1	8	<0.1	0.2	<0.1	72	0.41	0.032	6
1159264	Soil				0.5	93.3	1.9	49	<0.1	58.9	28.9	534	3.00	<0.5	0.9	0.5	8	0.1	0.4	<0.1	72	0.57	0.044	3
1159265	Soil				0.4	96.2	1.5	48	<0.1	62.4	25.8	421	3.11	<0.5	0.5	0.5	9	<0.1	0.1	<0.1	75	0.54	0.047	3
1159266	Soil				0.3	17.0	3.6	40	<0.1	1098	57.6	568	4.24	2.7	4.6	1.3	6	0.1	0.3	<0.1	26	0.06	0.031	5
1159267	Soil				0.4	26.9	4.3	45	<0.1	1046	71.1	872	4.06	2.7	1.9	1.1	10	0.2	0.5	<0.1	30	0.14	0.039	5
1159268	Soil				0.6	27.9	4.1	40	<0.1	960.1	56.4	637	3.80	2.7	4.6	1.9	8	0.1	0.4	<0.1	34	0.16	0.020	7
1159269	Soil				0.3	33.0	3.8	48	<0.1	886.8	52.3	651	3.95	1.4	1.6	1.6	9	0.1	0.4	<0.1	44	0.17	0.038	6
1159270	Soil				0.3	17.2	3.5	44	<0.1	979.9	37.8	355	4.17	2.4	5.2	1.2	7	0.1	0.3	<0.1	31	0.09	0.042	5
1159271	Soil				0.4	21.0	3.1	46	<0.1	1146	81.7	993	4.95	2.3	<0.5	0.7	6	0.2	0.5	<0.1	28	0.07	0.047	4
1159272	Soil				0.2	70.1	2.5	60	<0.1	514.2	36.8	411	3.97	1.8	2.3	2.4	14	<0.1	0.1	0.2	65	0.32	0.049	6
1159273	Soil				0.4	51.8	4.3	52	<0.1	557.3	38.5	530	3.97	0.6	0.9	2.3	10	0.1	2.8	<0.1	65	0.19	0.026	7
1159274	Soil				0.4	18.1	3.9	49	<0.1	1012	125.7	1408	4.20	1.3	0.5	0.8	14	0.3	1.0	<0.1	26	0.24	0.056	3
1159275	Soil				0.5	59.6	5.5	71	<0.1	519.3	31.1	558	4.43	0.6	1.1	3.7	12	<0.1	0.5	0.1	77	0.23	0.055	10
1159301	Soil				4.7	31.6	10.0	66	0.3	187.2	12.6	164	3.29	6.5	<0.5	2.5	8	0.2	1.5	0.2	101	0.05	0.046	7
1159061	Soil				0.3	60.5	4.5	44	<0.1	100.0	13.2	260	1.81	1.8	2.4	3.4	10	0.1	0.3	0.2	36	0.33	0.039	10
1159062	Soil				1.0	149.6	8.6	69	<0.1	120.3	19.3	459	2.73	1.7	5.8	4.3	16	<0.1	0.2	0.3	60	0.46	0.039	14



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Project: 4c
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

WHI11000537.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159203	Soil	374	11.67	90	0.015	6	0.41	0.010	0.03	0.2	0.03	3.0	<0.1	<0.05	1	<0.5	<0.2
1159204	Soil	531	15.27	45	0.009	11	0.29	0.005	0.02	0.2	0.04	3.6	<0.1	<0.05	<1	<0.5	<0.2
1159205	Soil	423	12.56	36	0.010	15	0.42	0.005	0.02	0.3	0.02	4.1	<0.1	0.07	1	<0.5	<0.2
1159206	Soil	684	8.60	116	0.014	11	0.51	0.006	0.04	0.5	0.04	4.1	<0.1	0.11	1	<0.5	<0.2
1159207	Soil	692	14.28	39	0.006	18	0.24	0.005	0.01	0.4	0.02	4.8	<0.1	0.08	<1	<0.5	<0.2
1159254	Soil	121	0.31	42	0.059	<1	0.68	0.017	0.04	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
1159255	Soil	80	0.40	39	0.052	<1	0.82	0.022	0.04	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
1159256	Soil	36	0.39	75	0.085	<1	1.12	0.023	0.07	<0.1	0.02	2.1	<0.1	0.06	5	<0.5	<0.2
1159257	Soil	369	3.92	146	0.046	2	0.90	0.017	0.06	0.1	0.01	4.2	<0.1	<0.05	3	<0.5	<0.2
1159258	Soil	372	2.97	108	0.042	2	0.87	0.015	0.05	0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
1159259	Soil	559	4.36	134	0.019	3	0.81	0.009	0.02	0.2	0.01	4.1	0.1	<0.05	3	<0.5	<0.2
1159260	Soil	389	3.17	114	0.040	2	0.83	0.018	0.04	0.1	<0.01	4.6	<0.1	<0.05	3	<0.5	<0.2
1159261	Soil	558	5.28	185	0.021	3	0.67	0.011	0.04	0.2	0.01	5.3	<0.1	<0.05	2	<0.5	<0.2
1159262	Soil	48	0.46	84	0.071	<1	0.80	0.025	0.06	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1159263	Soil	117	1.16	107	0.134	<1	1.67	0.035	0.06	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1159264	Soil	110	1.12	175	0.115	<1	1.46	0.044	0.14	<0.1	0.03	6.1	<0.1	<0.05	4	<0.5	<0.2
1159265	Soil	112	1.09	173	0.110	<1	1.59	0.048	0.11	<0.1	0.03	6.3	<0.1	<0.05	4	<0.5	<0.2
1159266	Soil	606	8.39	51	0.018	7	0.45	0.008	0.02	0.2	0.01	3.2	<0.1	<0.05	1	<0.5	<0.2
1159267	Soil	548	6.96	85	0.028	6	0.60	0.017	0.03	0.2	0.01	3.5	<0.1	<0.05	2	<0.5	<0.2
1159268	Soil	512	7.06	67	0.043	5	0.69	0.022	0.04	0.2	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2
1159269	Soil	491	4.80	86	0.066	6	0.94	0.023	0.06	0.2	<0.01	4.7	<0.1	<0.05	3	<0.5	<0.2
1159270	Soil	772	8.30	51	0.021	9	0.56	0.010	0.02	0.2	0.01	3.7	<0.1	<0.05	2	<0.5	<0.2
1159271	Soil	678	9.50	65	0.015	11	0.45	0.008	0.02	0.3	0.03	4.0	<0.1	<0.05	1	<0.5	<0.2
1159272	Soil	330	2.92	187	0.163	2	1.63	0.035	0.31	<0.1	<0.01	5.2	0.2	<0.05	5	0.8	<0.2
1159273	Soil	289	3.40	115	0.119	2	1.21	0.025	0.15	0.2	0.01	6.1	<0.1	<0.05	4	<0.5	<0.2
1159274	Soil	440	6.53	108	0.028	8	0.44	0.009	0.11	0.5	0.04	3.9	<0.1	0.08	2	<0.5	<0.2
1159275	Soil	219	3.39	203	0.163	3	1.50	0.022	0.38	0.1	0.01	8.2	0.3	<0.05	6	<0.5	<0.2
1159301	Soil	254	0.55	47	0.083	<1	1.40	0.011	0.04	0.2	0.04	1.9	<0.1	<0.05	6	0.5	<0.2
1159061	Soil	95	0.86	130	0.071	<1	1.05	0.025	0.14	0.2	0.01	2.8	0.1	<0.05	4	0.7	<0.2
1159062	Soil	118	1.21	227	0.110	<1	1.81	0.031	0.21	0.2	0.02	4.4	0.2	<0.05	6	<0.5	<0.2



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Project: 4c
Report Date: August 05, 2011

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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159063	Soil		0.5	242.6	4.6	42	<0.1	30.3	17.5	385	1.83	<0.5	<0.5	1.4	13	0.2	0.4	0.1	49	0.29	0.039	7		
1159064	Soil		1.0	312.0	4.2	85	0.3	46.8	18.2	282	2.74	0.6	2.9	0.9	16	0.2	0.3	0.2	79	0.56	0.062	7		
1159065	Soil		1.5	677.7	3.8	63	0.6	33.5	19.8	346	5.67	<0.5	60.1	1.6	15	<0.1	0.2	0.2	89	0.58	0.052	5		
1159066	Soil		0.5	41.3	3.6	15	<0.1	10.0	3.2	61	0.66	<0.5	<0.5	0.2	7	0.1	0.2	<0.1	21	0.13	0.034	7		
1159067	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.		
1159068	Soil		0.5	207.8	4.9	42	0.2	50.6	17.3	664	2.05	1.7	1.1	1.1	17	0.2	0.5	0.1	50	0.95	0.047	9		
1159069	Soil		0.6	67.1	5.1	57	<0.1	445.3	41.4	519	2.67	1.4	1.3	1.9	10	<0.1	0.3	0.2	42	0.48	0.035	8		
1159070	Soil		0.5	78.2	5.4	57	<0.1	121.1	21.2	362	2.11	2.4	1.7	2.1	13	0.1	0.3	0.3	44	0.52	0.046	13		
1159071	Soil		0.4	25.5	3.2	47	<0.1	1152	68.3	620	4.37	7.3	2.9	0.9	6	0.1	0.5	<0.1	24	0.16	0.031	4		
1159072	Soil		0.4	42.1	4.0	58	<0.1	518.6	39.5	398	3.13	5.3	1.5	1.2	9	0.1	0.3	0.1	36	0.21	0.029	4		
1159073	Soil		0.8	53.0	7.0	36	0.3	98.9	17.1	422	1.68	4.0	1.6	1.8	15	0.2	0.3	0.3	30	0.32	0.050	9		
1159074	Soil		0.8	15.6	7.3	46	0.1	222.7	22.2	317	2.64	6.3	1.1	2.5	7	0.1	0.4	0.2	34	0.10	0.022	6		
1159075	Soil		0.5	66.4	5.5	36	<0.1	90.0	14.8	236	1.94	4.5	7.9	2.6	10	<0.1	0.2	0.2	39	0.28	0.034	7		
1159076	Soil		0.6	71.1	5.2	41	<0.1	109.9	15.6	202	2.07	4.6	4.8	1.9	9	<0.1	0.2	0.2	40	0.24	0.026	6		
1159077	Soil		0.4	34.2	6.9	40	<0.1	171.5	17.4	328	2.05	4.7	1.8	3.8	8	0.1	0.3	0.2	35	0.21	0.036	9		
1159078	Soil		0.9	21.5	5.4	74	<0.1	330.6	44.3	853	3.01	4.8	1.1	2.0	10	0.3	0.2	0.2	46	0.31	0.020	5		
1159079	Soil		1.8	13.9	12.2	23	0.2	17.7	4.0	133	2.27	3.3	0.7	4.3	9	<0.1	0.2	0.3	46	0.03	0.036	12		
1159080	Soil		1.0	15.3	7.2	66	<0.1	336.3	36.9	440	3.28	3.9	2.9	2.7	9	<0.1	0.2	0.2	43	0.15	0.020	7		
1159081	Soil		0.8	18.7	9.3	83	<0.1	260.3	22.5	410	3.27	5.9	1.0	4.0	10	0.1	0.2	0.4	50	0.22	0.050	9		
1161482	Soil		0.7	514.4	8.6	48	0.2	22.6	7.3	110	1.78	3.0	2.2	1.4	8	<0.1	0.3	0.3	41	0.13	0.036	9		
1161483	Soil		0.5	64.9	3.8	16	<0.1	9.0	2.5	60	0.57	3.1	0.6	0.4	8	0.1	0.2	0.3	15	0.42	0.020	5		
1161484	Soil		0.6	67.9	6.0	42	<0.1	45.5	12.8	199	1.77	3.2	1.3	1.7	13	<0.1	0.2	0.3	46	0.57	0.027	7		
1161485	Soil		0.6	104.0	4.5	40	0.1	146.7	14.6	453	1.84	4.1	1.3	0.8	17	0.2	0.3	0.2	31	1.03	0.071	8		
1161486	Soil		0.6	15.8	6.5	30	<0.1	467.4	31.2	428	2.68	5.9	0.9	2.4	5	0.1	0.4	0.2	42	0.08	0.024	7		
1161487	Soil		0.7	112.0	3.2	62	<0.1	93.4	27.1	242	2.94	3.0	<0.5	0.8	6	<0.1	0.1	<0.1	72	0.24	0.071	3		
1161488	Soil		0.4	18.4	2.9	39	<0.1	1954	143.9	1439	5.55	5.3	2.3	1.0	3	0.1	0.4	<0.1	23	0.05	0.022	3		
1161489	Soil		0.4	7.5	3.0	41	<0.1	1124	117.1	1031	6.07	5.6	8.1	0.5	3	<0.1	0.6	<0.1	27	0.06	0.034	1		
1161490	Soil		0.9	33.1	7.0	40	<0.1	617.3	31.2	519	2.38	12.8	2.1	2.0	11	0.2	0.8	0.1	28	0.30	0.044	7		
1161491	Soil		0.6	27.4	5.5	52	<0.1	307.3	24.0	601	2.42	5.2	1.2	2.1	9	0.1	0.4	0.2	37	0.18	0.045	8		
1161492	Soil		0.5	22.4	6.4	70	<0.1	616.2	50.0	480	4.88	27.6	49.2	2.1	6	<0.1	0.5	0.2	53	0.08	0.026	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
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159063	Soil	42	0.65	101	0.073	<1	1.23	0.028	0.10	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1159064	Soil	60	1.09	154	0.052	<1	1.73	0.027	0.09	0.2	0.07	4.9	<0.1	0.05	7	0.5	<0.2
1159065	Soil	85	1.62	197	0.075	<1	2.27	0.021	0.16	0.2	0.23	8.0	<0.1	0.07	9	2.4	0.4
1159066	Soil	21	0.20	72	0.035	<1	0.55	0.022	0.04	0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
1159067	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1159068	Soil	62	0.87	116	0.079	1	1.66	0.039	0.09	0.1	0.02	5.1	<0.1	<0.05	5	0.8	<0.2
1159069	Soil	332	3.11	112	0.057	3	1.14	0.021	0.06	0.3	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
1159070	Soil	102	1.00	186	0.079	2	1.35	0.023	0.11	0.2	0.02	4.0	0.1	<0.05	5	0.7	<0.2
1159071	Soil	548	9.51	116	0.024	9	0.50	0.007	0.02	0.3	0.02	3.1	<0.1	0.05	2	<0.5	<0.2
1159072	Soil	434	3.62	110	0.065	4	0.81	0.018	0.06	0.4	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1159073	Soil	68	0.60	273	0.046	1	1.00	0.020	0.09	0.2	0.04	2.4	<0.1	0.05	3	1.0	<0.2
1159074	Soil	207	1.15	67	0.068	1	0.85	0.007	0.05	0.3	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1159075	Soil	90	1.04	104	0.076	1	1.43	0.020	0.07	0.2	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1159076	Soil	124	1.04	111	0.069	<1	1.26	0.020	0.06	0.2	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1159077	Soil	134	1.12	141	0.079	<1	1.06	0.017	0.07	0.3	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1159078	Soil	439	2.26	130	0.085	2	0.83	0.018	0.09	0.6	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1159079	Soil	47	0.40	50	0.091	<1	1.20	0.010	0.07	0.2	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
1159080	Soil	357	2.67	103	0.092	2	1.13	0.013	0.10	0.3	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
1159081	Soil	155	1.67	156	0.121	1	1.60	0.011	0.11	0.4	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
1161482	Soil	43	0.37	60	0.067	<1	1.07	0.014	0.05	0.2	0.03	2.3	<0.1	<0.05	6	0.5	<0.2
1161483	Soil	24	0.22	58	0.030	<1	0.44	0.016	0.04	0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
1161484	Soil	139	0.68	98	0.134	<1	1.20	0.025	0.10	0.3	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
1161485	Soil	73	0.66	116	0.048	2	1.25	0.029	0.06	0.2	0.03	2.6	<0.1	0.07	3	1.0	<0.2
1161486	Soil	239	2.88	61	0.084	3	0.91	0.011	0.04	0.4	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
1161487	Soil	108	1.43	110	0.137	<1	1.80	0.031	0.10	0.1	0.01	2.5	<0.1	<0.05	6	0.7	<0.2
1161488	Soil	712	13.84	42	0.013	13	0.27	0.004	0.02	0.3	0.02	3.9	<0.1	<0.05	<1	<0.5	<0.2
1161489	Soil	897	7.85	35	0.013	8	0.25	0.008	0.02	0.5	0.01	2.7	<0.1	<0.05	1	<0.5	<0.2
1161490	Soil	238	3.33	96	0.060	6	0.97	0.022	0.07	0.6	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
1161491	Soil	181	1.48	93	0.069	2	1.11	0.023	0.05	0.4	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
1161492	Soil	411	3.19	72	0.103	1	1.19	0.011	0.03	0.6	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1161493	Soil	0.7	22.5	6.9	59	<0.1	732.0	50.1	634	3.95	4.9	1.0	3.5	15	0.2	0.3	0.2	43	0.14	0.034	8
1161494	Soil	0.9	9.1	7.4	28	<0.1	35.3	5.6	186	2.53	5.7	1.9	3.9	6	<0.1	0.6	0.4	44	0.07	0.036	9
1161495	Soil	0.6	3.4	6.5	17	<0.1	14.6	2.3	81	0.74	3.2	2.2	1.4	7	<0.1	0.1	0.1	17	0.09	0.012	7
1161496	Soil	0.7	8.2	8.4	31	<0.1	122.4	10.8	202	2.37	5.8	<0.5	4.5	7	<0.1	0.4	0.2	32	0.07	0.038	7
1161497	Soil	1.7	10.1	8.0	32	<0.1	43.6	5.7	149	1.47	4.5	8.3	3.2	12	0.1	0.1	0.1	24	0.19	0.049	11
1161498	Soil	0.8	9.0	7.6	35	<0.1	58.2	7.0	173	2.27	5.2	1.4	3.4	7	<0.1	0.2	0.2	34	0.09	0.025	8
1161499	Soil	0.6	10.8	7.7	44	<0.1	78.5	10.0	224	2.24	5.6	3.1	4.0	6	0.2	0.2	0.3	34	0.08	0.032	8
1161500	Soil	0.6	10.7	7.4	48	<0.1	89.7	11.0	216	1.92	4.9	1.7	4.2	7	0.1	0.2	0.2	25	0.09	0.028	8
1159151	Soil	0.9	77.1	6.8	47	0.2	108.6	15.6	505	2.20	5.3	2.3	0.9	17	0.2	0.2	0.3	36	0.34	0.133	13
1159152	Soil	1.0	11.7	9.4	42	<0.1	40.2	7.0	240	2.80	5.2	2.2	3.6	7	<0.1	0.3	0.3	43	0.09	0.037	8
1159153	Soil	0.6	61.7	9.5	69	0.2	146.4	16.3	295	2.51	4.7	12.1	3.3	14	0.2	0.3	0.2	40	0.38	0.058	14
1159392	Soil	1.0	663.9	3.3	110	0.1	87.7	34.1	250	4.89	2.5	2.2	1.0	12	0.2	0.2	<0.1	86	0.21	0.057	3
1159393	Soil	0.8	56.8	10.3	48	0.1	44.6	13.1	96	2.21	1.5	2.4	1.4	13	0.1	0.2	0.2	112	0.32	0.031	7
1159394	Soil	0.8	46.8	4.9	56	<0.1	63.8	15.3	364	2.69	1.9	0.7	2.9	11	<0.1	0.2	0.2	62	0.35	0.051	7
1159396	Soil	0.3	27.7	6.2	58	<0.1	269.3	17.7	326	2.34	17.9	1.1	3.9	11	0.1	0.3	0.2	31	0.37	0.047	11
1159397	Soil	0.6	10.4	6.4	37	<0.1	239.4	18.0	222	2.29	3.6	1.4	4.2	7	0.2	0.3	0.2	28	0.10	0.023	8
1159398	Soil	1.5	16.1	10.1	45	0.1	63.3	8.1	194	2.22	3.6	1.3	5.3	9	0.3	0.3	0.2	36	0.13	0.053	11
1159399	Soil	0.5	20.0	8.9	48	<0.1	75.7	11.2	282	1.87	3.2	4.5	6.2	10	0.2	0.2	0.2	28	0.16	0.050	12
1159400	Soil	0.4	32.4	6.1	42	<0.1	222.6	25.5	437	2.24	2.7	1.9	2.5	9	0.1	0.1	0.1	26	0.22	0.029	8
1159401	Soil	7.1	17.6	12.7	81	<0.1	29.6	8.4	303	2.99	4.3	2.1	7.3	6	0.2	0.3	0.3	54	0.19	0.035	20
1159402	Soil	2.5	18.3	10.9	99	<0.1	34.1	9.9	474	3.00	3.6	0.8	10.6	8	0.3	0.1	0.2	47	0.34	0.069	33
1159403	Soil	7.0	21.3	18.3	149	0.7	34.8	12.8	753	3.61	5.7	1.5	13.5	12	0.6	0.3	0.4	53	0.34	0.052	44
1159404	Soil	5.1	14.7	14.7	88	0.9	27.1	6.1	268	2.27	3.6	2.8	5.1	13	0.3	0.2	0.3	38	0.43	0.060	30
1159405	Soil	2.0	29.2	46.5	215	0.1	52.8	13.6	615	3.55	7.3	0.6	5.7	8	1.1	0.3	0.4	53	0.23	0.077	13
1159406	Soil	0.8	36.4	8.2	68	<0.1	52.4	11.2	262	2.27	5.3	0.5	6.0	11	0.1	0.2	0.2	43	0.34	0.057	12
1159407	Soil	0.5	43.3	5.7	48	<0.1	44.8	9.3	218	1.82	2.4	1.2	3.7	11	0.1	0.1	<0.1	38	0.41	0.067	8
1159082	Soil	0.4	19.9	7.6	36	<0.1	97.1	10.0	178	1.69	2.6	0.9	3.4	12	<0.1	0.2	0.2	28	0.26	0.039	9
1159101	Soil	0.9	151.1	8.0	60	<0.1	88.5	12.5	264	2.24	2.7	2.3	5.3	13	0.1	0.3	0.2	43	0.38	0.048	18
1159482	Soil	0.9	156.3	6.6	58	0.2	78.9	17.8	660	2.52	3.8	2.2	2.1	23	0.2	0.5	0.2	62	1.04	0.058	13
1159483	Soil	1.0	417.4	5.8	66	<0.1	41.6	13.9	192	2.74	1.4	2.7	3.3	6	0.1	0.2	0.2	58	0.19	0.044	9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1161493	Soil	417	3.31	98	0.066	3	1.26	0.020	0.07	0.3	<0.01	3.6	0.1	<0.05	4	<0.5	<0.2
1161494	Soil	96	0.46	45	0.087	<1	1.33	0.008	0.04	0.6	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
1161495	Soil	46	0.31	44	0.075	<1	0.55	0.006	0.04	0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
1161496	Soil	154	0.87	44	0.071	<1	1.01	0.007	0.04	0.4	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
1161497	Soil	62	0.58	85	0.052	<1	0.91	0.007	0.06	0.2	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1161498	Soil	90	0.55	59	0.079	<1	0.91	0.007	0.05	0.4	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
1161499	Soil	101	0.60	64	0.073	<1	1.30	0.007	0.04	0.6	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
1161500	Soil	93	0.69	68	0.061	<1	1.28	0.007	0.04	0.5	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1159151	Soil	129	0.72	265	0.031	1	1.25	0.015	0.09	0.2	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
1159152	Soil	71	0.51	56	0.088	<1	1.08	0.007	0.06	0.5	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
1159153	Soil	137	1.08	209	0.073	2	1.40	0.018	0.16	0.2	0.04	3.7	0.2	<0.05	5	0.6	<0.2
1159392	Soil	71	0.95	114	0.035	<1	1.50	0.020	0.05	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
1159393	Soil	80	0.92	274	0.124	<1	2.01	0.013	0.08	0.1	0.02	3.8	<0.1	<0.05	13	<0.5	<0.2
1159394	Soil	92	1.02	181	0.149	<1	1.70	0.034	0.26	0.3	<0.01	3.7	0.1	<0.05	7	<0.5	<0.2
1159396	Soil	131	1.80	113	0.067	4	1.26	0.034	0.13	0.4	0.02	3.7	0.1	<0.05	5	0.7	<0.2
1159397	Soil	144	1.32	106	0.053	<1	1.30	0.009	0.05	0.4	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1159398	Soil	73	0.71	78	0.049	<1	1.80	0.009	0.07	0.3	0.03	2.6	0.1	<0.05	5	<0.5	<0.2
1159399	Soil	61	0.79	106	0.057	<1	1.33	0.009	0.11	0.3	0.01	2.6	0.1	<0.05	4	<0.5	<0.2
1159400	Soil	162	1.94	145	0.046	1	0.77	0.013	0.11	0.2	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
1159401	Soil	48	0.70	82	0.162	1	1.46	0.012	0.31	0.3	<0.01	4.2	0.2	<0.05	9	<0.5	<0.2
1159402	Soil	37	0.90	109	0.165	1	1.67	0.015	0.40	0.3	<0.01	5.1	0.3	<0.05	9	<0.5	<0.2
1159403	Soil	38	0.72	163	0.132	<1	2.23	0.013	0.31	0.4	0.05	5.6	0.3	<0.05	11	0.7	<0.2
1159404	Soil	34	0.52	156	0.090	1	1.50	0.019	0.24	0.3	0.08	3.9	0.2	<0.05	9	<0.5	<0.2
1159405	Soil	57	0.89	136	0.142	<1	1.32	0.019	0.38	0.3	0.03	5.0	0.4	<0.05	7	0.5	<0.2
1159406	Soil	67	0.82	124	0.126	<1	1.35	0.027	0.24	0.2	<0.01	3.8	0.2	<0.05	6	<0.5	<0.2
1159407	Soil	59	0.71	118	0.104	<1	1.09	0.035	0.20	0.2	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
1159082	Soil	106	0.82	121	0.050	<1	0.88	0.018	0.07	0.2	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
1159101	Soil	86	0.97	151	0.085	<1	1.32	0.021	0.20	0.3	<0.01	3.6	0.2	<0.05	4	<0.5	<0.2
1159482	Soil	82	0.98	280	0.101	<1	1.77	0.046	0.13	0.3	0.05	5.5	0.2	<0.05	6	1.2	<0.2
1159483	Soil	60	0.97	112	0.067	<1	1.66	0.019	0.09	0.3	0.02	3.9	<0.1	<0.05	7	0.6	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159484	Soil	1.1	65.2	7.7	52	<0.1	47.2	12.6	215	3.27	2.7	1.4	3.6	7	<0.1	0.3	0.3	66	0.17	0.028	8
1159485	Soil	0.5	28.9	4.8	22	<0.1	16.4	4.8	105	1.20	0.7	1.1	1.5	7	<0.1	0.3	0.1	52	0.31	0.019	6
1159486	Soil	0.4	100.8	4.2	46	<0.1	47.4	15.1	434	1.88	1.2	2.2	1.3	16	0.1	0.3	<0.1	40	1.11	0.049	6
1159487	Soil	0.5	150.1	5.2	46	0.1	54.4	14.0	325	2.20	1.6	2.7	2.6	12	<0.1	0.3	0.2	45	0.75	0.041	10
1159488	Soil	0.5	66.5	6.4	58	<0.1	264.4	27.9	530	2.42	2.1	2.3	3.2	10	0.2	0.3	0.2	37	0.74	0.053	9
1159489	Soil	0.3	16.7	3.3	44	<0.1	1265	81.9	873	4.38	5.3	4.1	0.7	4	0.1	0.3	<0.1	22	0.13	0.030	3
1159490	Soil	0.6	32.3	3.2	55	<0.1	42.4	16.9	308	2.82	0.9	0.5	1.1	7	0.2	0.2	<0.1	86	0.26	0.022	4
1159491	Soil	1.1	53.0	6.7	50	<0.1	58.7	12.2	374	2.06	5.0	2.2	3.5	10	<0.1	0.2	0.2	43	0.37	0.034	12
1159492	Soil	0.6	74.0	7.5	60	0.1	59.0	12.3	329	2.35	1.6	1.2	4.7	10	<0.1	0.2	0.2	54	0.47	0.056	12
1159493	Soil	0.1	16.7	6.1	45	<0.1	184.8	17.4	282	1.83	10.0	2.3	3.3	11	<0.1	0.2	0.1	25	0.32	0.046	8
1159494	Soil	0.5	26.1	6.5	47	0.2	376.6	19.3	224	2.47	4.3	2.9	4.4	11	0.2	0.2	0.1	31	0.35	0.068	15
1159495	Soil	0.6	15.6	7.0	49	<0.1	187.6	15.1	251	2.21	2.1	2.1	4.0	12	0.1	0.1	0.1	38	0.19	0.032	10
1159496	Soil	0.6	16.5	8.2	45	<0.1	230.9	17.7	226	2.49	2.7	1.9	4.0	11	0.1	0.1	0.2	37	0.14	0.030	10
1159497	Soil	1.7	68.3	9.1	40	0.4	77.2	10.5	831	2.45	2.6	1.1	0.9	15	0.5	0.1	0.3	41	0.35	0.125	10
1159498	Soil	0.4	14.6	6.2	42	<0.1	71.6	11.1	281	1.80	3.5	19.1	4.0	11	<0.1	0.1	0.2	28	0.27	0.051	11
1159499	Soil	0.7	13.6	6.1	44	<0.1	79.3	11.2	204	1.94	2.9	1.4	3.1	10	<0.1	0.1	0.1	34	0.20	0.031	10
1159500	Soil	0.6	15.4	6.3	43	<0.1	87.2	12.3	257	2.00	3.2	0.6	3.2	10	<0.1	0.1	0.1	34	0.20	0.028	10
1159251	Soil	0.8	60.7	7.3	51	<0.1	206.0	20.1	361	2.39	2.8	1.3	3.2	12	0.1	0.3	0.3	38	0.28	0.029	12
1159276	Soil	1.5	23.7	13.5	46	<0.1	6.7	3.0	185	1.77	2.5	1.4	19.9	3	<0.1	0.6	0.5	30	0.02	0.013	8
1159277	Soil	1.3	12.1	12.2	125	<0.1	15.2	10.0	348	3.35	3.9	1.3	10.9	8	0.4	0.5	0.5	64	0.16	0.073	22
1159278	Soil	0.7	10.3	7.7	49	<0.1	6.0	4.0	232	1.54	1.5	0.7	6.1	6	0.2	0.1	0.3	28	0.08	0.040	29
1159279	Soil	1.7	10.4	9.4	60	<0.1	9.9	4.9	194	1.59	5.2	1.1	8.6	5	0.1	0.3	0.4	26	0.08	0.058	70
1159280	Soil	1.2	8.7	8.2	65	<0.1	9.0	6.4	389	1.86	2.8	1.3	11.4	8	0.2	0.2	0.4	25	0.09	0.045	27
1159281	Soil	1.4	9.9	7.9	78	<0.1	10.5	4.5	280	1.82	3.2	1.4	9.5	6	0.1	0.2	0.4	26	0.05	0.039	28
1159282	Soil	1.5	9.3	7.3	69	0.1	12.6	6.3	335	2.42	3.9	1.3	14.0	5	0.2	0.3	0.3	29	0.06	0.034	44
1159283	Soil	1.1	7.2	8.9	61	<0.1	6.3	4.3	267	1.61	1.3	<0.5	9.7	6	0.2	0.2	0.6	34	0.08	0.027	12
1159284	Soil	1.1	5.9	9.5	34	<0.1	5.7	2.5	347	1.14	1.0	1.2	3.8	4	0.3	0.3	0.4	35	0.04	0.031	11
1159285	Soil	1.4	6.5	7.4	61	0.1	8.5	3.7	221	1.87	3.5	1.0	7.8	8	<0.1	0.3	0.3	33	0.08	0.029	15
1159286	Soil	1.3	4.9	7.2	37	0.1	4.9	2.3	425	1.15	1.6	<0.5	2.8	5	0.2	0.2	0.3	24	0.04	0.028	11
1159287	Soil	1.0	9.3	16.7	118	0.2	9.2	5.2	305	1.86	2.9	0.9	25.9	5	0.4	0.2	0.6	19	0.15	0.056	104



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159484	Soil	64	0.68	73	0.080	<1	1.72	0.018	0.08	0.3	0.02	3.6	<0.1	<0.05	7	0.6	<0.2
1159485	Soil	41	0.35	55	0.148	<1	0.77	0.027	0.05	0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
1159486	Soil	107	0.81	114	0.082	<1	1.35	0.033	0.09	0.2	0.03	3.4	<0.1	<0.05	5	0.9	<0.2
1159487	Soil	69	0.76	132	0.085	<1	1.39	0.032	0.09	0.2	0.02	4.3	0.1	<0.05	6	0.7	<0.2
1159488	Soil	193	1.86	116	0.063	2	1.09	0.027	0.11	0.6	0.02	3.8	<0.1	<0.05	4	0.7	<0.2
1159489	Soil	702	10.05	44	0.014	8	0.42	0.011	0.02	0.3	<0.01	3.1	<0.1	<0.05	1	<0.5	<0.2
1159490	Soil	124	1.27	89	0.198	<1	2.15	0.041	0.10	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
1159491	Soil	68	0.89	200	0.083	<1	1.23	0.030	0.15	0.5	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
1159492	Soil	66	0.94	254	0.120	<1	1.72	0.041	0.29	0.3	<0.01	4.5	0.1	<0.05	6	<0.5	<0.2
1159493	Soil	123	1.29	91	0.052	3	0.93	0.026	0.10	0.3	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1159494	Soil	224	2.86	108	0.061	2	1.05	0.026	0.12	0.3	0.02	3.5	0.1	<0.05	4	0.6	<0.2
1159495	Soil	120	1.52	113	0.072	<1	1.32	0.017	0.12	0.2	0.01	3.1	0.1	<0.05	5	<0.5	<0.2
1159496	Soil	119	1.37	111	0.068	<1	1.49	0.012	0.11	0.3	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
1159497	Soil	92	0.55	224	0.025	<1	1.10	0.012	0.09	0.2	0.04	2.0	0.1	0.07	5	0.6	<0.2
1159498	Soil	78	0.69	143	0.059	<1	0.85	0.013	0.11	0.3	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1159499	Soil	136	0.91	103	0.067	<1	0.97	0.014	0.07	0.3	<0.01	2.5	<0.1	0.06	4	<0.5	<0.2
1159500	Soil	139	0.92	115	0.063	<1	0.92	0.013	0.07	0.4	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
1159251	Soil	174	1.53	151	0.080	2	1.07	0.018	0.13	0.2	<0.01	3.0	<0.1	0.05	4	<0.5	<0.2
1159276	Soil	9	0.46	25	0.073	2	1.46	0.005	0.16	0.2	0.02	4.0	0.1	<0.05	13	<0.5	<0.2
1159277	Soil	20	0.82	70	0.204	2	2.31	0.009	0.39	0.3	0.02	4.7	0.2	<0.05	10	<0.5	<0.2
1159278	Soil	9	0.37	44	0.078	1	1.21	0.016	0.20	0.2	<0.01	1.7	0.1	<0.05	5	<0.5	<0.2
1159279	Soil	13	0.33	40	0.063	1	0.93	0.011	0.15	0.2	0.03	2.0	0.2	<0.05	5	<0.5	<0.2
1159280	Soil	10	0.48	63	0.089	1	1.55	0.009	0.31	0.3	<0.01	2.5	0.2	<0.05	8	<0.5	<0.2
1159281	Soil	13	0.47	66	0.082	1	1.56	0.007	0.26	0.4	<0.01	2.4	0.2	<0.05	7	<0.5	<0.2
1159282	Soil	15	0.47	52	0.111	1	1.56	0.005	0.24	0.3	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
1159283	Soil	14	0.46	58	0.119	<1	1.03	0.006	0.35	0.2	0.02	2.1	0.2	<0.05	8	<0.5	<0.2
1159284	Soil	14	0.17	50	0.116	1	0.56	0.005	0.14	0.2	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
1159285	Soil	13	0.41	51	0.114	1	1.12	0.007	0.30	0.3	0.03	2.0	0.2	<0.05	8	<0.5	<0.2
1159286	Soil	10	0.21	63	0.065	1	0.61	0.005	0.16	0.2	0.03	1.1	0.1	<0.05	6	<0.5	<0.2
1159287	Soil	8	0.57	75	0.056	<1	1.54	0.008	0.42	0.2	0.01	3.0	0.3	<0.05	7	<0.5	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1159288	Soil	1.2	8.3	10.1	75	<0.1	10.5	5.6	216	2.16	2.8	0.8	13.6	5	0.2	0.2	0.5	27	0.06	0.036	16
1159289	Soil	1.4	6.6	10.3	73	<0.1	8.7	4.0	252	1.67	2.3	0.8	10.0	6	0.2	0.2	0.4	25	0.05	0.030	16
1159290	Soil	1.1	12.0	9.6	82	<0.1	13.7	8.4	246	3.08	2.6	0.8	10.0	6	0.2	0.3	0.5	61	0.07	0.033	15
1159291	Soil	1.2	15.6	10.6	79	<0.1	17.1	7.0	246	2.58	2.5	1.4	9.6	6	0.2	0.2	0.3	48	0.08	0.043	15
1159292	Soil	1.5	15.6	17.8	102	<0.1	14.2	8.4	819	3.55	1.9	<0.5	7.4	5	0.4	0.3	0.4	64	0.13	0.077	15
1159293	Soil	1.4	16.0	13.5	143	0.1	13.9	10.7	302	4.25	2.9	<0.5	6.5	5	0.2	0.2	0.4	85	0.11	0.048	18
1159294	Soil	0.9	10.5	8.9	49	0.2	9.9	5.3	147	1.87	0.8	0.7	2.6	9	0.2	0.2	0.2	37	0.11	0.043	25
1159295	Soil	1.3	5.3	6.6	23	<0.1	5.1	1.3	63	0.72	0.6	0.6	1.6	4	0.3	0.2	0.3	27	0.04	0.019	10
1159296	Soil	1.6	5.3	8.8	33	<0.1	6.4	2.4	103	1.31	0.9	<0.5	2.5	4	0.2	0.3	0.3	32	0.05	0.026	9
1159297	Soil	4.0	30.5	35.6	176	0.4	47.1	17.8	613	4.35	6.3	1.1	24.0	12	0.4	0.3	0.6	71	0.13	0.025	105
1159298	Soil	4.3	14.2	8.1	90	<0.1	13.9	9.0	390	2.92	1.6	0.5	8.6	7	0.3	0.1	0.2	47	0.38	0.096	22
1159299	Soil	2.7	13.2	7.5	67	<0.1	17.5	8.4	387	2.21	2.2	<0.5	8.0	7	0.1	0.1	0.2	39	0.39	0.076	22
1159300	Soil	4.7	16.5	11.6	89	<0.1	23.2	9.2	369	3.06	3.1	0.8	8.3	6	0.1	0.2	0.3	54	0.19	0.046	18
1159174	Soil	0.4	76.4	4.6	49	0.1	69.7	15.8	233	2.61	2.1	0.7	1.4	10	0.2	0.3	<0.1	66	0.30	0.046	5
1159175	Soil	0.8	50.5	9.0	61	<0.1	53.0	12.6	229	2.34	2.5	0.7	2.3	9	0.1	0.2	<0.1	49	0.27	0.030	7
1159176	Soil	0.7	59.4	13.4	71	0.3	59.7	13.0	249	2.46	4.0	1.9	2.3	11	0.2	0.3	0.2	48	0.34	0.048	8
1159177	Soil	1.8	25.2	26.8	124	0.3	23.6	10.4	484	3.65	5.6	0.8	4.2	9	0.3	0.3	0.2	68	0.22	0.094	12
1159178	Soil	1.6	25.5	21.0	98	0.2	24.8	9.4	515	2.85	4.2	<0.5	3.1	11	0.3	0.4	0.2	47	0.30	0.039	12
1159179	Soil	0.6	82.3	4.5	82	<0.1	148.2	30.9	607	4.09	2.0	2.3	1.9	11	0.2	0.4	<0.1	95	0.44	0.034	7
1159180	Soil	0.7	62.0	9.0	79	0.2	62.0	17.7	355	3.05	2.2	1.1	1.8	9	0.1	0.3	<0.1	75	0.31	0.042	8
1159181	Soil	1.2	45.8	11.0	86	0.2	42.0	11.1	318	2.99	4.3	0.6	2.4	10	0.2	0.3	0.1	66	0.23	0.046	9
1159182	Soil	0.9	34.2	11.9	69	0.1	34.7	8.8	210	2.35	2.4	<0.5	2.9	7	0.1	0.3	0.1	57	0.22	0.033	8
1159183	Soil	0.4	102.4	2.0	38	<0.1	79.4	17.4	370	2.54	1.0	3.1	0.3	4	0.1	0.3	<0.1	59	0.28	0.058	2
1159184	Soil	0.6	43.7	4.5	38	<0.1	42.5	10.4	130	2.43	1.8	2.4	1.1	6	<0.1	0.5	<0.1	57	0.22	0.077	3
1159185	Soil	0.5	65.7	4.2	34	<0.1	78.5	12.5	167	2.23	2.4	<0.5	0.7	6	0.1	0.3	0.1	51	0.25	0.046	4
1159186	Soil	0.5	31.6	5.4	52	<0.1	26.3	9.8	225	2.37	2.3	0.7	1.3	6	0.3	0.3	0.1	57	0.18	0.047	4
1159187	Soil	1.3	12.9	10.8	81	<0.1	16.3	6.6	353	2.63	3.8	0.7	10.1	7	0.2	0.4	0.4	45	0.18	0.047	15
1159188	Soil	1.6	8.4	10.5	84	<0.1	13.4	5.2	299	2.44	2.4	2.0	7.6	5	0.4	0.3	0.4	37	0.09	0.035	12
1159189	Soil	1.2	5.9	7.9	45	<0.1	7.1	2.8	164	1.53	2.4	1.9	7.7	6	0.4	0.3	0.4	26	0.07	0.032	11
1159190	Soil	1.2	12.3	13.1	158	<0.1	10.3	8.8	340	3.29	2.6	0.6	10.0	7	0.4	0.2	0.5	69	0.15	0.077	12



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159288	Soil	13	0.56	59	0.107	<1	1.76	0.006	0.31	0.3	0.01	2.8	0.2	<0.05	8	<0.5	<0.2
1159289	Soil	14	0.42	50	0.101	<1	1.14	0.007	0.30	0.2	0.03	1.9	0.2	<0.05	7	<0.5	<0.2
1159290	Soil	30	0.71	38	0.203	<1	1.64	0.007	0.48	0.3	0.03	4.4	0.3	<0.05	10	<0.5	<0.2
1159291	Soil	28	0.56	70	0.176	1	1.30	0.006	0.34	0.2	0.01	3.3	0.2	<0.05	8	<0.5	<0.2
1159292	Soil	23	0.72	90	0.260	1	1.76	0.011	0.38	0.3	<0.01	5.1	0.4	<0.05	13	<0.5	<0.2
1159293	Soil	27	1.04	65	0.331	<1	2.02	0.010	0.86	0.3	<0.01	6.9	0.4	<0.05	12	<0.5	<0.2
1159294	Soil	17	0.46	40	0.127	<1	1.16	0.019	0.17	0.2	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
1159295	Soil	10	0.06	32	0.067	<1	0.25	0.011	0.05	0.2	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
1159296	Soil	14	0.26	27	0.118	<1	0.64	0.008	0.13	0.2	0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
1159297	Soil	60	0.98	168	0.213	1	3.12	0.014	0.36	0.3	0.04	8.0	0.3	<0.05	13	<0.5	<0.2
1159298	Soil	26	0.75	69	0.221	<1	1.47	0.019	0.56	0.3	<0.01	5.3	0.3	<0.05	8	<0.5	<0.2
1159299	Soil	26	0.57	55	0.156	<1	1.18	0.012	0.34	0.4	<0.01	3.9	0.2	<0.05	6	<0.5	<0.2
1159300	Soil	39	0.77	78	0.216	<1	1.54	0.013	0.40	0.3	<0.01	4.6	0.2	<0.05	9	<0.5	<0.2
1159174	Soil	109	1.13	208	0.186	<1	2.31	0.043	0.14	<0.1	0.01	4.3	<0.1	<0.05	7	<0.5	<0.2
1159175	Soil	74	0.75	91	0.129	<1	1.88	0.031	0.07	0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1159176	Soil	95	0.93	70	0.129	<1	1.70	0.038	0.10	0.2	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
1159177	Soil	42	0.69	94	0.195	<1	1.55	0.019	0.32	0.3	0.02	5.4	0.3	<0.05	8	<0.5	<0.2
1159178	Soil	40	0.57	95	0.162	<1	1.27	0.022	0.29	0.2	<0.01	3.8	0.2	<0.05	7	<0.5	<0.2
1159179	Soil	217	1.78	117	0.239	<1	2.45	0.028	0.28	<0.1	<0.01	6.9	<0.1	<0.05	7	<0.5	<0.2
1159180	Soil	102	1.08	265	0.157	<1	2.04	0.027	0.25	<0.1	0.01	4.3	<0.1	<0.05	7	<0.5	<0.2
1159181	Soil	67	0.79	130	0.156	<1	1.61	0.025	0.17	0.1	<0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
1159182	Soil	55	0.61	61	0.176	<1	1.41	0.026	0.10	0.2	<0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
1159183	Soil	135	1.15	64	0.114	<1	1.94	0.030	0.04	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
1159184	Soil	68	0.64	50	0.101	<1	1.97	0.021	0.04	0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
1159185	Soil	92	0.82	62	0.106	<1	1.75	0.021	0.04	0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
1159186	Soil	50	0.58	54	0.157	<1	1.59	0.018	0.10	0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
1159187	Soil	23	0.64	85	0.148	<1	1.51	0.008	0.35	0.5	0.03	3.2	0.2	<0.05	9	<0.5	<0.2
1159188	Soil	20	0.51	76	0.138	<1	1.31	0.007	0.34	0.3	0.02	2.6	0.2	<0.05	9	<0.5	<0.2
1159189	Soil	12	0.32	47	0.102	<1	0.89	0.006	0.22	0.4	0.02	1.4	0.2	<0.05	8	<0.5	<0.2
1159190	Soil	14	0.76	84	0.194	<1	1.98	0.006	0.65	0.5	0.02	4.4	0.4	<0.05	12	<0.5	<0.2



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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159191	Soil	1.5	8.9	9.9	54	<0.1	11.9	4.0	208	2.21	2.9	1.3	10.1	4	0.1	0.3	0.5	45	0.06	0.029	10
1159192	Soil	1.2	5.9	6.4	26	<0.1	5.4	2.5	108	1.59	1.8	1.2	6.6	3	<0.1	0.2	0.4	33	0.05	0.032	10
1159193	Soil	2.8	10.8	15.7	55	0.1	14.0	4.6	203	2.22	3.1	1.0	6.6	5	0.1	0.2	0.4	55	0.08	0.034	12
1159194	Soil	3.8	19.3	21.0	115	0.3	19.3	6.6	314	4.25	10.3	13.7	9.9	6	0.2	0.4	0.6	62	0.06	0.037	14
1159195	Soil	2.8	13.0	13.4	81	0.3	15.0	6.0	260	2.52	4.2	3.2	5.3	5	0.2	0.2	0.4	46	0.10	0.023	21
1159196	Soil	4.8	44.7	75.6	106	1.0	15.0	4.4	254	3.46	17.5	2.1	7.8	16	0.3	1.1	0.5	57	0.07	0.045	13
1159197	Soil	2.4	32.2	35.3	85	1.6	30.2	4.9	226	2.96	7.3	1.8	3.7	7	0.2	0.6	0.3	70	0.09	0.060	11
1159198	Soil	1.7	35.5	13.4	86	0.2	65.7	9.3	378	2.74	4.1	3.5	3.8	8	0.3	0.2	0.2	66	0.13	0.032	10
1159199	Soil	1.5	46.9	11.6	119	0.3	53.9	12.7	555	3.33	4.2	1.8	6.5	9	0.6	0.2	0.3	62	0.18	0.044	18
1159200	Soil	1.6	52.8	11.8	126	0.3	63.0	12.8	528	3.42	4.5	2.7	6.7	10	0.6	0.3	0.3	64	0.19	0.041	18
1159302	Soil	0.5	5.3	9.0	29	0.2	4.2	2.0	80	1.03	1.2	2.1	3.1	4	0.1	0.2	0.3	22	0.04	0.034	10
1159303	Soil	1.5	17.0	14.5	91	<0.1	20.7	8.9	302	4.00	3.4	1.3	7.2	5	0.1	0.3	0.4	72	0.10	0.036	11
1159304	Soil	1.0	4.8	9.1	33	<0.1	5.5	2.8	175	1.48	1.2	<0.5	4.7	4	0.1	0.2	0.4	40	0.06	0.019	10
1159305	Soil	1.3	8.2	15.7	42	0.2	8.8	3.3	141	1.67	1.9	<0.5	3.9	5	0.1	0.2	0.3	34	0.06	0.026	7
1159306	Soil	1.3	7.2	16.5	53	0.2	7.0	3.2	138	1.63	2.0	0.9	3.7	5	0.2	0.1	0.3	28	0.06	0.028	12
1159307	Soil	2.1	16.4	15.3	87	0.3	24.2	7.4	262	2.87	3.8	0.7	13.2	5	0.2	0.2	0.5	43	0.12	0.029	25
1159308	Soil	0.2	0.8	1.3	5	<0.1	0.9	0.4	12	0.18	<0.5	<0.5	<0.1	4	<0.1	<0.1	<0.1	6	0.02	0.015	1
1159309	Soil	4.3	12.0	15.4	90	<0.1	17.6	6.6	318	2.74	2.9	0.6	11.1	7	0.1	0.1	0.5	46	0.18	0.032	26
1159310	Soil	2.0	9.6	9.4	52	0.2	11.1	4.3	173	1.69	2.3	<0.5	5.8	5	0.1	0.1	0.2	31	0.10	0.036	20
1159311	Soil	3.5	11.7	13.0	87	0.7	26.9	6.5	300	2.66	3.8	<0.5	5.4	6	0.2	0.2	0.3	46	0.17	0.044	17
1159312	Soil	2.1	9.2	14.3	72	0.7	8.9	3.8	175	1.81	3.4	0.8	3.3	6	0.2	0.1	0.3	29	0.10	0.037	16
1159313	Soil	3.1	22.5	19.2	90	0.4	30.2	6.3	276	2.41	6.0	1.8	5.4	8	0.3	0.3	0.3	40	0.14	0.033	16
1159314	Soil	6.4	39.3	38.7	95	2.0	18.2	5.0	176	1.90	8.0	0.7	2.5	9	1.1	0.5	0.4	36	0.11	0.036	29
1159315	Soil	1.4	10.0	9.7	36	0.2	7.5	2.4	102	1.01	2.5	<0.5	5.7	2	0.2	0.1	0.2	23	0.05	0.011	18
1159316	Soil	9.6	147.1	64.4	133	4.4	27.2	7.3	324	3.41	19.6	2.9	6.8	6	0.3	0.6	0.4	45	0.11	0.075	34
1159317	Soil	1.1	38.2	10.6	69	0.1	44.1	9.9	229	2.42	3.8	<0.5	3.4	6	0.3	0.2	0.1	48	0.25	0.049	8
1159318	Soil	1.4	22.0	15.5	65	0.1	29.2	7.4	397	2.42	3.6	<0.5	2.6	7	0.3	0.2	0.2	54	0.19	0.043	10
1159319	Soil	1.2	32.5	13.0	71	<0.1	42.5	7.5	204	2.34	3.7	<0.5	3.1	5	0.4	0.2	0.2	56	0.18	0.033	8
1159320	Soil	0.7	51.9	6.5	176	0.2	63.5	8.4	140	2.30	0.6	0.5	0.9	4	1.2	0.2	<0.1	54	0.19	0.044	3
1159321	Soil	1.1	28.0	12.6	78	0.2	25.9	6.9	194	2.10	4.4	<0.5	2.3	6	0.4	0.2	0.2	44	0.14	0.033	9



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159191	Soil	18	0.41	39	0.161	<1	1.10	0.005	0.28	0.3	0.02	1.9	0.2	<0.05	11	<0.5	<0.2
1159192	Soil	9	0.25	29	0.115	<1	0.71	0.007	0.14	0.3	0.01	1.2	0.1	<0.05	8	<0.5	<0.2
1159193	Soil	22	0.40	49	0.183	<1	1.11	0.008	0.17	0.4	0.01	2.5	0.1	<0.05	11	<0.5	<0.2
1159194	Soil	28	0.56	94	0.195	<1	1.66	0.008	0.32	0.7	0.01	3.9	0.3	<0.05	15	<0.5	<0.2
1159195	Soil	25	0.52	62	0.142	<1	1.27	0.009	0.20	0.3	0.01	3.0	0.2	<0.05	9	<0.5	<0.2
1159196	Soil	22	0.34	238	0.104	1	0.98	0.005	0.24	0.5	0.09	2.6	0.5	<0.05	7	2.1	<0.2
1159197	Soil	59	0.50	175	0.122	<1	1.16	0.008	0.16	0.4	0.13	2.9	0.4	<0.05	10	2.3	<0.2
1159198	Soil	88	0.76	165	0.136	<1	1.39	0.011	0.14	0.3	0.02	3.3	0.2	<0.05	9	<0.5	<0.2
1159199	Soil	64	0.95	336	0.168	<1	1.99	0.012	0.32	0.4	0.02	5.1	0.3	<0.05	9	<0.5	<0.2
1159200	Soil	71	0.96	348	0.158	<1	2.07	0.012	0.29	0.3	0.02	5.1	0.3	<0.05	9	0.6	<0.2
1159302	Soil	7	0.20	41	0.094	<1	0.71	0.010	0.15	0.2	0.01	1.1	0.1	<0.05	7	<0.5	<0.2
1159303	Soil	31	0.89	72	0.258	<1	2.00	0.008	0.31	0.4	0.01	5.1	0.2	<0.05	14	<0.5	<0.2
1159304	Soil	10	0.27	35	0.147	<1	0.79	0.009	0.16	0.3	<0.01	1.3	0.1	<0.05	10	<0.5	<0.2
1159305	Soil	15	0.24	34	0.116	<1	0.68	0.012	0.16	0.3	0.01	1.5	0.1	<0.05	6	<0.5	<0.2
1159306	Soil	12	0.28	39	0.093	<1	0.86	0.013	0.14	0.2	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
1159307	Soil	29	0.65	68	0.147	<1	1.59	0.009	0.27	0.3	0.01	3.6	0.2	<0.05	9	<0.5	<0.2
1159308	Soil	2	0.01	7	0.008	<1	0.08	0.018	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
1159309	Soil	25	0.58	78	0.163	<1	1.58	0.010	0.27	0.5	<0.01	3.9	0.3	<0.05	11	<0.5	<0.2
1159310	Soil	17	0.35	47	0.111	<1	0.90	0.012	0.17	0.3	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
1159311	Soil	39	0.60	63	0.145	<1	1.32	0.010	0.19	0.4	0.02	3.4	0.2	<0.05	9	<0.5	<0.2
1159312	Soil	14	0.39	53	0.091	<1	1.04	0.015	0.17	0.2	0.02	2.2	0.2	<0.05	6	<0.5	<0.2
1159313	Soil	45	0.58	131	0.116	<1	1.43	0.011	0.19	0.3	0.02	3.2	0.2	<0.05	8	<0.5	<0.2
1159314	Soil	23	0.28	345	0.067	<1	1.21	0.010	0.11	0.3	0.08	1.9	0.7	<0.05	7	<0.5	<0.2
1159315	Soil	12	0.20	71	0.098	<1	0.54	0.008	0.09	0.3	<0.01	1.6	0.2	<0.05	5	<0.5	<0.2
1159316	Soil	34	0.47	150	0.089	<1	2.46	0.009	0.21	0.3	0.34	4.4	1.2	<0.05	8	2.7	<0.2
1159317	Soil	64	0.64	108	0.140	<1	1.54	0.022	0.16	0.2	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
1159318	Soil	52	0.59	99	0.155	<1	1.27	0.021	0.22	0.2	<0.01	3.2	0.2	<0.05	8	<0.5	<0.2
1159319	Soil	62	0.58	89	0.138	1	1.34	0.018	0.11	0.2	<0.01	2.9	0.1	<0.05	8	<0.5	<0.2
1159320	Soil	83	0.55	90	0.125	<1	1.53	0.024	0.04	<0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
1159321	Soil	40	0.45	130	0.099	1	1.17	0.015	0.11	0.2	0.03	2.8	0.1	<0.05	5	0.7	<0.2



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1159322	Soil	1.2	36.4	23.4	121	0.6	32.0	10.4	471	2.40	3.4	1.3	1.6	12	0.5	0.2	0.2	52	0.27	0.048	9	
1159323	Soil	1.9	49.0	25.1	181	0.5	39.6	14.4	683	3.38	4.7	1.6	3.0	14	1.0	0.2	0.2	104	0.21	0.052	11	
1159324	Soil	1.9	52.1	28.4	121	0.2	34.7	9.5	338	3.20	6.5	2.5	3.1	9	0.8	0.3	0.4	103	0.13	0.058	10	
1159325	Soil	2.1	55.1	18.8	135	<0.1	43.9	9.9	881	4.34	2.4	<0.5	3.4	4	0.2	0.2	0.4	133	0.07	0.062	7	
1159133	Soil	0.9	4.6	9.4	29	<0.1	3.7	1.7	100	1.08	0.9	<0.5	4.2	4	0.2	0.3	0.4	26	0.06	0.036	10	
1159134	Soil	1.1	7.3	9.3	75	<0.1	10.5	5.4	284	2.48	3.6	0.6	6.3	6	0.2	0.2	0.4	46	0.09	0.060	12	
1159135	Soil	1.0	7.1	10.8	72	<0.1	9.3	4.3	231	1.96	2.6	3.2	4.3	9	0.2	0.3	0.4	35	0.16	0.049	12	
1159136	Soil	1.1	6.1	9.1	51	<0.1	7.8	3.0	134	1.63	2.2	1.1	7.7	5	0.2	0.2	0.5	27	0.04	0.039	13	
1159137	Soil	2.5	47.4	47.6	201	0.9	45.8	9.4	463	3.67	6.7	3.3	6.5	11	0.6	0.5	0.4	80	0.11	0.057	14	
1159138	Soil	2.2	56.3	19.7	229	0.5	56.0	20.1	2163	4.09	4.4	1.2	4.6	9	0.9	0.3	0.3	78	0.13	0.072	15	
1159139	Soil	1.4	31.7	13.5	125	0.2	32.8	11.0	614	3.28	3.8	1.2	5.7	8	0.2	0.2	0.2	68	0.17	0.058	13	
1159140	Soil	1.7	41.4	13.0	127	0.3	36.8	11.6	561	3.51	3.5	2.1	5.2	10	0.3	0.2	0.2	77	0.17	0.055	15	
1159141	Soil	1.1	40.2	10.6	94	0.2	53.9	10.2	352	2.74	3.1	1.3	4.1	9	0.4	0.2	0.2	66	0.21	0.030	12	
1159142	Soil	1.1	34.6	10.4	86	0.3	43.2	10.2	431	2.66	3.2	<0.5	3.7	8	0.3	0.2	0.2	57	0.26	0.066	12	
1159143	Soil	1.0	23.3	10.7	57	<0.1	41.9	7.9	291	1.85	2.1	0.5	1.8	7	0.2	0.2	0.2	45	0.24	0.030	9	
1159144	Soil	0.8	40.9	10.2	88	0.3	25.4	7.2	213	1.95	2.0	1.1	1.9	8	0.6	0.1	0.1	42	0.27	0.037	9	
1159145	Soil	1.2	31.7	17.5	118	0.2	24.9	7.9	313	2.45	3.3	0.7	3.4	9	1.0	0.2	0.2	52	0.24	0.042	13	
1159146	Soil	1.5	48.0	17.8	109	<0.1	44.4	15.4	548	3.33	5.2	2.4	4.0	8	0.4	0.2	0.3	96	0.18	0.045	13	
1159147	Soil	1.6	46.9	24.0	149	0.2	43.3	11.7	505	3.16	4.2	2.3	3.9	10	0.3	0.2	0.2	88	0.15	0.063	12	
1159148	Soil	1.7	26.7	16.3	99	0.2	30.1	8.5	786	2.81	3.3	0.8	3.8	6	0.4	0.2	0.4	81	0.07	0.049	13	
1159149	Soil	1.6	43.7	20.8	126	0.3	38.3	8.5	663	3.11	3.5	1.7	4.2	7	0.3	0.3	0.3	77	0.09	0.072	12	
1178201	Soil	1.4	22.8	8.3	78	0.1	36.1	6.9	299	2.27	2.4	2.4	3.8	7	0.2	0.2	0.2	56	0.10	0.023	12	
1178202	Soil	2.0	46.0	9.1	94	0.2	76.2	15.2	485	2.79	3.1	3.6	8.5	17	0.4	0.2	0.3	53	0.42	0.074	29	
1178203	Soil	1.1	16.6	10.0	61	0.2	16.9	6.5	215	2.23	2.5	1.0	2.4	5	0.1	0.2	0.2	49	0.19	0.027	10	
1178204	Soil	0.9	59.3	13.2	101	0.2	64.7	15.3	413	3.44	15.9	2.6	4.4	6	0.3	0.3	0.1	61	0.24	0.071	10	
1178205	Soil	1.5	19.4	17.0	78	0.2	23.5	6.8	298	2.91	5.2	1.2	3.7	5	0.2	0.3	0.2	57	0.15	0.049	11	
1178206	Soil	1.5	18.3	24.2	74	0.1	18.5	5.6	313	2.59	4.2	3.4	3.2	5	0.3	0.3	0.6	51	0.12	0.036	12	
1178207	Soil	2.0	29.6	112.5	283	0.6	22.7	10.2	462	4.01	8.8	2.1	5.4	8	0.6	0.4	0.7	50	0.13	0.062	13	
1178208	Soil	2.0	44.1	27.3	159	0.2	30.6	7.1	377	2.56	4.3	0.8	2.9	10	1.1	0.6	0.2	50	0.11	0.045	12	
1159252	Soil	0.7	70.9	4.1	45	<0.1	32.2	10.3	363	1.90	0.8	1.5	0.2	13	0.2	0.6	<0.1	46	0.62	0.074	5	



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159322	Soil	56	0.66	421	0.099	<1	1.52	0.019	0.15	0.1	0.04	3.0	0.2	<0.05	7	<0.5	<0.2
1159323	Soil	64	0.98	856	0.157	<1	2.12	0.012	0.26	0.2	0.06	6.1	0.3	<0.05	10	0.7	<0.2
1159324	Soil	53	0.79	682	0.166	2	1.74	0.012	0.32	0.3	0.01	5.5	0.3	<0.05	10	0.9	<0.2
1159325	Soil	95	1.06	586	0.215	2	2.17	0.008	0.48	0.3	0.01	7.8	0.3	<0.05	15	<0.5	<0.2
1159133	Soil	8	0.17	46	0.094	<1	0.54	0.003	0.16	0.1	0.03	1.1	0.1	<0.05	7	<0.5	<0.2
1159134	Soil	19	0.48	91	0.133	2	1.22	0.005	0.33	0.3	0.03	2.8	0.2	<0.05	8	<0.5	<0.2
1159135	Soil	15	0.40	82	0.100	1	1.00	0.009	0.33	0.2	0.03	2.1	0.2	<0.05	8	<0.5	<0.2
1159136	Soil	12	0.32	51	0.092	<1	0.96	0.005	0.21	0.2	0.02	1.7	0.2	<0.05	7	<0.5	<0.2
1159137	Soil	65	0.75	314	0.137	1	2.21	0.010	0.23	0.5	0.05	5.2	0.3	<0.05	11	1.2	<0.2
1159138	Soil	79	0.81	381	0.099	2	2.04	0.011	0.26	0.2	0.03	5.1	0.4	<0.05	9	0.6	<0.2
1159139	Soil	53	0.89	398	0.161	<1	1.86	0.009	0.40	0.3	0.01	5.5	0.3	<0.05	9	0.6	<0.2
1159140	Soil	56	0.91	542	0.146	<1	2.08	0.012	0.39	0.3	0.02	6.0	0.3	<0.05	10	<0.5	<0.2
1159141	Soil	71	0.89	278	0.161	1	1.81	0.016	0.24	0.2	0.02	5.0	0.2	<0.05	8	<0.5	<0.2
1159142	Soil	55	0.72	254	0.131	<1	1.60	0.021	0.32	0.2	0.02	4.4	0.2	<0.05	7	0.6	<0.2
1159143	Soil	69	0.60	98	0.116	<1	1.23	0.024	0.11	0.1	0.01	2.9	0.1	<0.05	7	<0.5	<0.2
1159144	Soil	43	0.55	274	0.111	1	1.28	0.026	0.11	0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
1159145	Soil	39	0.60	434	0.136	<1	1.48	0.018	0.20	0.2	0.01	4.0	0.2	<0.05	8	<0.5	<0.2
1159146	Soil	80	1.10	394	0.193	1	2.06	0.017	0.39	0.2	0.02	6.3	0.2	<0.05	11	<0.5	<0.2
1159147	Soil	68	1.03	453	0.153	<1	2.24	0.013	0.28	0.2	0.02	6.3	0.3	<0.05	10	<0.5	<0.2
1159148	Soil	65	0.70	343	0.129	<1	1.72	0.006	0.29	0.4	0.02	4.4	0.2	<0.05	10	<0.5	<0.2
1159149	Soil	53	0.48	232	0.098	1	1.25	0.006	0.22	0.2	0.02	4.3	0.2	<0.05	9	<0.5	<0.2
1178201	Soil	69	0.67	219	0.139	2	1.24	0.011	0.30	0.2	0.02	3.6	0.2	<0.05	8	<0.5	<0.2
1178202	Soil	98	0.90	311	0.136	<1	1.62	0.018	0.28	0.3	0.04	5.9	0.3	<0.05	7	2.5	<0.2
1178203	Soil	33	0.59	87	0.171	1	1.30	0.018	0.20	0.2	0.02	3.7	0.2	<0.05	10	0.5	<0.2
1178204	Soil	73	0.92	104	0.139	<1	1.73	0.019	0.22	0.2	0.01	4.4	0.2	<0.05	6	<0.5	<0.2
1178205	Soil	45	0.61	71	0.167	<1	1.24	0.015	0.21	0.3	0.02	4.0	0.2	<0.05	10	<0.5	<0.2
1178206	Soil	34	0.41	81	0.144	1	1.29	0.013	0.17	0.2	0.02	3.1	0.2	<0.05	9	<0.5	<0.2
1178207	Soil	33	0.62	114	0.151	<1	1.84	0.010	0.31	0.4	0.02	4.5	0.3	0.07	9	0.7	<0.2
1178208	Soil	33	0.29	1152	0.056	<1	0.87	0.005	0.10	0.2	0.02	3.5	0.2	<0.05	5	0.6	<0.2
1159252	Soil	54	0.50	147	0.043	<1	1.65	0.029	0.10	<0.1	0.02	2.0	<0.1	0.06	5	0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1159253	Soil	0.4	19.0	4.8	24	0.7	125.7	10.6	584	1.77	1.0	1.1	<0.1	5	0.3	0.2	0.1	42	0.08	0.059



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CERTIFICATE OF ANALYSIS

WHI11000537.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1159253	Soil	524	0.64	62	0.019	<1	0.59	0.009	0.03	<0.1	0.04	0.7	<0.1	<0.05	4	<0.5	<0.2



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Part 1

QUALITY CONTROL REPORT

WHI11000537.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1159263	Soil	0.6	93.3	4.8	49	<0.1	80.9	21.9	448	2.87	1.3	0.6	1.1	8	<0.1	0.2	<0.1	72	0.41	0.032	6
REP 1159263	QC	0.7	91.3	4.4	47	<0.1	81.2	21.1	438	2.82	1.4	0.5	1.1	7	<0.1	0.2	<0.1	72	0.41	0.029	5
1159271	Soil	0.4	21.0	3.1	46	<0.1	1146	81.7	993	4.95	2.3	<0.5	0.7	6	0.2	0.5	<0.1	28	0.07	0.047	4
REP 1159271	QC	0.3	21.4	3.3	47	<0.1	1201	84.9	1020	5.04	2.5	3.7	0.7	6	0.1	0.4	<0.1	29	0.08	0.051	4
1161483	Soil	0.5	64.9	3.8	16	<0.1	9.0	2.5	60	0.57	3.1	0.6	0.4	8	0.1	0.2	0.3	15	0.42	0.020	5
REP 1161483	QC	0.4	67.9	3.7	17	0.1	9.2	2.6	63	0.58	2.8	<0.5	0.4	8	0.1	0.3	0.3	16	0.43	0.019	5
1161492	Soil	0.5	22.4	6.4	70	<0.1	616.2	50.0	480	4.88	27.6	49.2	2.1	6	<0.1	0.5	0.2	53	0.08	0.026	6
REP 1161492	QC	0.7	21.8	6.7	68	<0.1	615.9	49.4	512	4.99	28.6	47.6	2.2	7	0.1	0.6	0.2	53	0.08	0.025	6
1159393	Soil	0.8	56.8	10.3	48	0.1	44.6	13.1	96	2.21	1.5	2.4	1.4	13	0.1	0.2	0.2	112	0.32	0.031	7
REP 1159393	QC	0.9	55.3	10.2	48	<0.1	43.3	12.5	97	2.19	1.3	1.3	1.5	12	0.2	0.2	0.2	111	0.32	0.030	7
1159492	Soil	0.6	74.0	7.5	60	0.1	59.0	12.3	329	2.35	1.6	1.2	4.7	10	<0.1	0.2	0.2	54	0.47	0.056	12
REP 1159492	QC	0.6	75.4	7.4	59	0.1	58.5	12.4	328	2.34	1.5	7.4	4.6	10	0.1	0.1	0.2	55	0.47	0.054	12
1159286	Soil	1.3	4.9	7.2	37	0.1	4.9	2.3	425	1.15	1.6	<0.5	2.8	5	0.2	0.2	0.3	24	0.04	0.028	11
REP 1159286	QC	1.1	5.1	7.8	39	0.2	5.4	2.4	469	1.22	2.0	0.6	2.8	5	0.2	0.3	0.3	25	0.04	0.030	12
1159298	Soil	4.3	14.2	8.1	90	<0.1	13.9	9.0	390	2.92	1.6	0.5	8.6	7	0.3	0.1	0.2	47	0.38	0.096	22
REP 1159298	QC	3.9	13.7	8.0	89	<0.1	13.0	8.8	375	2.83	1.8	1.5	8.8	7	0.2	0.2	0.2	47	0.39	0.094	23
1159185	Soil	0.5	65.7	4.2	34	<0.1	78.5	12.5	167	2.23	2.4	<0.5	0.7	6	0.1	0.3	0.1	51	0.25	0.046	4
REP 1159185	QC	0.5	64.8	4.4	34	<0.1	76.5	11.8	164	2.20	2.1	2.1	0.8	6	<0.1	0.3	<0.1	49	0.21	0.048	3
1159302	Soil	0.5	5.3	9.0	29	0.2	4.2	2.0	80	1.03	1.2	2.1	3.1	4	0.1	0.2	0.3	22	0.04	0.034	10
REP 1159302	QC	0.5	4.9	8.9	28	0.2	3.9	2.0	78	1.03	1.0	1.0	3.0	4	<0.1	0.1	0.3	22	0.04	0.033	9
1159322	Soil	1.2	36.4	23.4	121	0.6	32.0	10.4	471	2.40	3.4	1.3	1.6	12	0.5	0.2	0.2	52	0.27	0.048	9
REP 1159322	QC	1.2	34.4	21.8	117	0.7	31.8	10.2	458	2.31	3.2	1.5	1.7	12	0.5	0.2	0.2	51	0.26	0.046	8
1159145	Soil	1.2	31.7	17.5	118	0.2	24.9	7.9	313	2.45	3.3	0.7	3.4	9	1.0	0.2	0.2	52	0.24	0.042	13
REP 1159145	QC	1.2	31.9	18.5	118	0.2	24.7	8.0	330	2.61	3.5	<0.5	3.3	10	1.0	0.2	0.2	53	0.23	0.039	12
Reference Materials																					
STD DS8	Standard	13.0	108.2	123.8	339	2.0	36.6	7.8	666	2.62	29.4	104.2	6.7	66	2.4	5.4	6.9	44	0.71	0.087	14
STD DS8	Standard	13.6	104.0	121.5	318	1.9	35.3	7.4	645	2.52	28.1	112.8	6.6	69	2.6	5.5	6.6	43	0.74	0.090	15
STD DS8	Standard	12.5	101.1	131.4	293	1.7	35.1	7.0	588	2.31	24.7	105.7	6.6	65	2.1	5.2	6.4	40	0.63	0.074	14



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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
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1159263	Soil	117	1.16	107	0.134	<1	1.67	0.035	0.06	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
REP 1159263	QC	117	1.16	105	0.133	<1	1.64	0.034	0.05	0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1159271	Soil	678	9.50	65	0.015	11	0.45	0.008	0.02	0.3	0.03	4.0	<0.1	<0.05	1	<0.5	<0.2
REP 1159271	QC	683	9.61	67	0.016	12	0.47	0.008	0.02	0.4	0.02	4.2	<0.1	<0.05	1	<0.5	<0.2
1161483	Soil	24	0.22	58	0.030	<1	0.44	0.016	0.04	0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
REP 1161483	QC	24	0.22	59	0.031	<1	0.43	0.016	0.04	0.1	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1161492	Soil	411	3.19	72	0.103	1	1.19	0.011	0.03	0.6	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
REP 1161492	QC	427	3.21	72	0.109	3	1.22	0.011	0.04	0.6	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
1159393	Soil	80	0.92	274	0.124	<1	2.01	0.013	0.08	0.1	0.02	3.8	<0.1	<0.05	13	<0.5	<0.2
REP 1159393	QC	78	0.89	269	0.124	<1	2.02	0.013	0.07	0.1	0.02	3.9	<0.1	<0.05	13	<0.5	<0.2
1159492	Soil	66	0.94	254	0.120	<1	1.72	0.041	0.29	0.3	<0.01	4.5	0.1	<0.05	6	<0.5	<0.2
REP 1159492	QC	66	0.92	251	0.120	<1	1.69	0.039	0.30	0.4	0.02	4.5	0.2	<0.05	6	<0.5	<0.2
1159286	Soil	10	0.21	63	0.065	1	0.61	0.005	0.16	0.2	0.03	1.1	0.1	<0.05	6	<0.5	<0.2
REP 1159286	QC	11	0.22	69	0.066	<1	0.64	0.005	0.17	0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
1159298	Soil	26	0.75	69	0.221	<1	1.47	0.019	0.56	0.3	<0.01	5.3	0.3	<0.05	8	<0.5	<0.2
REP 1159298	QC	25	0.73	72	0.218	<1	1.44	0.015	0.54	0.3	<0.01	4.8	0.3	<0.05	8	<0.5	<0.2
1159185	Soil	92	0.82	62	0.106	<1	1.75	0.021	0.04	0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
REP 1159185	QC	87	0.76	62	0.098	<1	1.68	0.018	0.03	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
1159302	Soil	7	0.20	41	0.094	<1	0.71	0.010	0.15	0.2	0.01	1.1	0.1	<0.05	7	<0.5	<0.2
REP 1159302	QC	8	0.19	41	0.091	<1	0.70	0.010	0.15	0.2	0.01	1.2	0.1	<0.05	6	<0.5	<0.2
1159322	Soil	56	0.66	421	0.099	<1	1.52	0.019	0.15	0.1	0.04	3.0	0.2	<0.05	7	<0.5	<0.2
REP 1159322	QC	53	0.62	419	0.093	2	1.39	0.018	0.14	0.1	0.03	2.9	0.2	<0.05	7	0.7	<0.2
1159145	Soil	39	0.60	434	0.136	<1	1.48	0.018	0.20	0.2	0.01	4.0	0.2	<0.05	8	<0.5	<0.2
REP 1159145	QC	40	0.59	440	0.135	<1	1.49	0.019	0.21	0.2	0.03	4.0	0.2	<0.05	8	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	118	0.64	279	0.107	3	0.93	0.098	0.45	2.7	0.20	2.3	5.2	0.16	5	5.7	4.8
STD DS8	Standard	114	0.60	288	0.111	2	0.95	0.106	0.46	2.8	0.22	2.5	5.3	0.14	5	5.7	5.0
STD DS8	Standard	113	0.56	253	0.111	2	0.87	0.083	0.37	2.8	0.21	1.9	5.4	0.11	5	5.3	4.3



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QUALITY CONTROL REPORT

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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 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	1DX15 La ppm 1
STD DS8	Standard	11.8	99.5	128.5	301	1.7	36.5	7.3	610	2.35	24.4	108.3	6.7	66	2.2	5.5	6.3	39	0.66	0.070	13
STD DS8	Standard	12.4	101.9	106.1	304	1.8	35.6	6.8	578	2.38	25.5	113.0	5.7	56	2.2	4.6	5.6	34	0.64	0.075	13
STD DS8	Standard	13.5	103.0	108.7	312	1.9	35.9	6.9	623	2.45	27.1	106.9	6.0	60	2.2	4.8	5.8	38	0.68	0.078	14
STD DS8	Standard	13.0	116.7	128.5	306	1.7	38.9	7.5	611	2.46	27.6	109.2	6.6	67	2.1	6.4	6.6	41	0.67	0.077	13
STD DS8	Standard	13.2	116.7	131.0	325	1.8	41.3	8.1	617	2.45	28.4	110.2	7.0	67	2.3	6.4	6.6	40	0.66	0.081	14
STD DS8	Standard	13.3	114.3	122.8	318	1.8	34.3	7.2	615	2.46	25.2	109.6	6.8	65	2.4	5.7	6.6	43	0.67	0.079	15
STD DS8	Standard	13.5	108.5	116.0	305	1.8	34.1	7.2	590	2.33	25.8	118.6	6.7	65	2.2	5.6	6.4	42	0.67	0.072	15
STD DS8	Standard	13.2	102.7	119.1	286	1.6	35.1	7.2	561	2.27	23.8	102.6	7.0	68	1.9	5.7	6.1	40	0.63	0.071	14
STD DS8	Standard	12.5	100.0	114.8	297	1.7	34.3	6.9	568	2.27	24.3	109.7	6.8	69	2.3	5.4	6.0	39	0.65	0.073	15
STD DS8	Standard	13.8	109.4	128.5	319	1.9	38.1	7.6	627	2.55	28.7	109.0	6.8	63	2.2	5.2	5.6	43	0.71	0.083	15
STD DS8	Standard	13.9	112.3	134.7	317	1.7	38.8	7.6	622	2.56	27.1	124.3	7.2	61	2.3	5.1	5.9	42	0.68	0.080	15
STD DS8	Standard	12.8	112.6	122.8	326	2.0	38.5	7.4	637	2.59	29.2	106.7	6.3	64	2.4	5.5	6.8	42	0.70	0.085	13
STD DS8	Standard	13.8	111.4	125.8	316	1.8	37.3	7.5	627	2.54	28.3	113.2	6.6	65	2.5	5.6	6.7	42	0.70	0.083	14
STD DS8	Standard	12.0	101.0	117.1	297	1.7	35.2	7.4	593	2.73	26.5	110.5	6.2	61	2.2	5.4	5.9	41	0.66	0.073	14
STD DS8	Standard	13.5	104.7	120.4	297	1.9	36.2	7.2	611	2.75	26.9	102.2	6.8	63	2.4	5.1	6.1	42	0.70	0.084	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	105	0.58	256	0.114	2	0.87	0.095	0.38	2.9	0.19	1.8	5.3	0.10	5	4.8	4.8
STD DS8	Standard	108	0.59	274	0.092	<1	0.85	0.083	0.42	3.0	0.20	2.2	5.4	0.16	5	5.1	4.8
STD DS8	Standard	112	0.61	288	0.100	<1	0.92	0.093	0.42	3.0	0.20	2.4	5.5	0.14	5	5.3	5.0
STD DS8	Standard	124	0.60	268	0.126	2	0.88	0.081	0.40	3.1	0.20	1.9	5.4	0.14	4	4.9	4.6
STD DS8	Standard	125	0.62	275	0.122	3	0.91	0.087	0.40	3.0	0.20	2.2	5.2	0.14	5	4.7	5.3
STD DS8	Standard	120	0.58	275	0.121	2	0.88	0.085	0.42	2.9	0.20	2.1	5.3	0.19	5	6.1	4.7
STD DS8	Standard	115	0.57	268	0.119	2	0.90	0.083	0.40	2.9	0.20	2.1	5.1	0.16	5	4.9	4.7
STD DS8	Standard	111	0.57	260	0.121	2	0.86	0.087	0.39	2.8	0.20	2.0	5.0	0.14	4	4.5	4.7
STD DS8	Standard	109	0.58	263	0.121	1	0.86	0.083	0.40	2.9	0.19	2.0	5.0	0.13	4	4.5	5.0
STD DS8	Standard	113	0.65	287	0.110	3	0.93	0.093	0.44	3.2	0.23	2.4	5.6	0.23	5	5.5	4.8
STD DS8	Standard	114	0.61	276	0.105	2	0.91	0.085	0.41	3.0	0.23	2.2	5.5	0.19	5	4.6	5.2
STD DS8	Standard	116	0.63	297	0.107	2	0.93	0.091	0.45	3.2	0.19	2.0	5.4	0.18	5	5.1	5.0
STD DS8	Standard	116	0.62	300	0.113	2	0.94	0.093	0.44	3.2	0.21	1.9	5.6	0.17	5	4.8	5.4
STD DS8	Standard	111	0.51	257	0.110	3	0.86	0.080	0.39	2.8	0.19	2.5	5.2	0.18	5	5.5	4.5
STD DS8	Standard	115	0.57	270	0.118	3	0.92	0.091	0.41	2.9	0.21	2.3	5.3	0.19	5	6.1	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

APPENDIX H- STATEMENT OF EXPENDITURES

Redtail Metals- 4C claims
Statement of Expenditures- 2011

December 12 2011

	4C total
Contract geochemical survey	\$27,474.20
Helicopter	\$12,609.92
Acme Labs Soil + rx Assays	<u>\$10,438.15</u>
total	\$50,522.27

total number of samples: 531

Signed:

Danièle Héon B.Sc, P.Geo.

Senior Geologist
Redtail Metals Corp.