

2010 Surface Work

On the

Rosebute Property

Bute 1 to 10	YC87401 to YC87410
Bute 11 to 12	YC96443 to YC96544
Bute 13 to 22	YC87977 to YC87986
Bute 23	YC95496
Bute 24	YC95580
Bute 25 to 62	YC96359 to YC96396
Rose 1 to 24	YC87106 to YC87129
Rose 25 to 28	YC96397 to YC96400
Rose 29 to 36	YC96349 to YC96356
Rose 37 to 120	YD13038 to YD13121
Rose 121 to 351	YD43401 to YD43631
Rose 352	YC95483
Rose 353 to 412	YD43633 to YD43692

**Dawson Mining District, Yukon
NTS Sheet 115O05, O06, O11, O12
63°28'N. Lat., 139°30'W. Long.**

For



**TAKU GOLD
CORP.**

**By
Mark Fekete, P.Geo.
and
Marty Huber, B.Sc., GIT
November 1, 2011**

Summary

From September 27, 2010 to November 23, 2010 Taku Gold Corp. completed a surface exploration program on the 474-claim (9,812ha) Rosebute property located at the headwaters of Rosebute Creek, a tributary to The Yukon River, some 64km south of Dawson City, Yukon. The work included deep auger-type soil geochemical and airborne geophysical surveys. The goal of the work was to identify potential gold-bearing structures by outlining geophysical and geochemical trends.

Taku holds an option to acquire a 100% interest the Rosebute property in consideration for \$325,000 in cash payments, the issuance of 1,000,000 common shares and the completion of \$1,000,000 in exploration expenditures over a four year period. The Property is subject to 2% Net Smelter Return royalty of which Taku has the right to purchase 1% for \$2,000,000.

The Property is located in an isolated part of the Yukon with little local resources or infrastructure. There are no roads to the Property and access is by helicopter only. Very little previous work has been done to date.

The Property lies within the Yukon-Tanana Terrane which consists of several successions of complexly deformed Late Proterozoic to Late Permian sedimentary and volcanic rocks episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous, and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous.

The Property lies in the underexplored Klondike-White Gold district of the loosely defined Tintina Gold Belt. Taku's exploration effort at Rosebute is based on practical survey methods that generate drill targets and have led to discoveries in the area including Underworld's May 2009 discovery of the Saddle and Arc zones approximately 30km south of Rosebute. Detailed geochemical surveys and closely spaced, low altitude, helicopter-borne geophysical surveys have been proven to be effective in the area. Due to the deeply weathered nature of the soils in this unglaciated area, it is very important to take samples from the deeper C-horizon.

A 1,107.2 line kilometer high resolution magnetic and radiometric airborne survey flown on flight lines spaced 100m apart was completed over the entire Rosebute property in September 2010. A 5,087-sample geochemical survey was completed over prospective portions of the property in October 2010. The soil samples were collected with hand augers at 50m sample intervals along GPS traverse lines spaced 100m apart on two separate grids. The samples were analyzed for 36 elements including gold.

An anomalous area approximately 200 hectares in size was identified on the first grid located in the northwestern part of the Property. Within this area there are three distinct, east-trending linear anomalies. The first anomaly is well defined over 2,200m and shows maximum values up to 201ppb Au. The second anomaly is well defined over 400m long and shows maximum values up to 84ppb Au. The third anomaly is intermittently defined over 1,100m and shows maximum values up to 155ppb Au. These three east-trending geochemical features all appear to crosscut the regional geological fabric that, as indicated by airborne magnetic data, is generally northwesterly. Also they all appear to lie on the margin of a circular radiometric high lying just north of Rosebute Creek. Nothing of interest was found on the second grid. Roughly 60% of the property was not covered in 2010 by soil geochemistry and remains to be tested.

The surface work met its primary goal of outlining geophysical or geochemical trends that may potentially be gold-bearing structures. It is the Authors' opinion that the Rosebute property is of sufficient merit to recommend that surface exploration work continue. It is recommended that the remaining 60% of the Property be covered with ridge and spur soil sampling. It is also recommended that more detailed sampling be completed in the anomalous area located in the northwestern part of the Property. It is estimated that the proposed work will involve the collecting of 10,000 soil samples at a cost \$750,000.

Certificate of Qualifications

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

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986 and I am a Member in good standing of the Order of Geologists of Quebec (OGQ #553) and the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC #31440), and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Rosebute property on numerous occasions including most recently in July 2011;
3. I wrote and I am, as the qualified person, responsible for the contents of this technical report entitled "2010 Surface Work on the Rosebute Property, Dawson Mining District, Yukon, NTS Sheet 115O05, O06, O11 & O12, 63°28'N. Lat., 139°30'W. Long. for Taku Gold Corp.," based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an Officer and Director and I beneficially hold a number of shares in Taku Gold Corp.;
6. I hold no direct interest in the Rosebute property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared in full compliance with, National Instrument 43-101 and according to Form 43-101F1.

Respectfully submitted this 1st day of November 2011,

(s) "**Mark Fekete**"

Mark Fekete, P.Geo.

Certificate of Qualifications

I, Marty Huber, having my place of residence at 16 Flax Mill Dr. in Conestogo in the Province of Ontario do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from Acadia University in May 2011, I have been engaged as a Geologist in Training (“GIT”) continuously since May 2011 and I am not a “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have not visited the Rosebute property;
3. I co-wrote this technical report entitled “2010 Surface Work on the Rosebute Property, Dawson Mining District, Yukon, NTS Sheet 115005, O06, O11 & O12, 63°28’N. Lat., 139°30’W. Long. for Taku Gold Corp.,” under the supervision of Mark Fekete, P.Geo.;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I do not beneficially hold a number of shares in Taku Gold Corp.;
6. I hold no direct interest in the Rosebute property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared in full compliance with, National Instrument 43-101 and according to Form 43-101F1

Respectfully submitted this 1st day of November 2011,

(s) “*Marty Huber*”

Marty Huber, B.Sc., GIT

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1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was retained by Taku Gold. Corp. (“Taku”) to write a technical report (the “Report”) describing the surface exploration work carried out on the Rosebute property (“Rosebute” or the “Property”) in Yukon in 2010. The Report describes the soil geochemical sampling and airborne geophysical surveys.

The goal of the surface work was to identify areas of anomalous gold-in-soil and/or geophysical trends that may be related to the gold bearing structures similar to Kinross’s White Gold deposit located about 30km due south of the Property.

The Report is based primarily on the results of the work completed on Rosebute in 2010 but also contains information obtained from a review of relevant reports and maps cited throughout the Report. The Report was prepared by Geologist in Training Marty Huber (the “Junior Author”) under the supervision of Professional Geologist Mark Fekete (the “Senior Author”). The Senior Author has visited and personally inspected the property on numerous occasions. The Senior Author is the designated “qualified person” as defined in Section 1.2 in and for the purposes of National Instrument 43-101. The main purpose of the Report is to complete statutory assessment work filings required under the Yukon Quartz Mining Act. It is not intended to and does not fully comply with National Instrument 43-101. The Report contains specific recommendations and proposes a budget for further work.

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

2. Reliance on Other Experts

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

3. Location and Property Description

The Property covers an approximate area of 9,812 hectares within the Dawson Mining Division of Yukon. It is located at the headwaters of Rosebute Creek, a tributary of the Yukon River, about 64km south of Dawson City (Figure 1). The approximate centre of the Property is described by 63°28’00” North Latitude and 139°30’00” West Longitude on N.T.S. Sheets 115O05(Excelsior Creek), 115O06 (Stewart River), 115O11 (Reindeer Mountain) & 115O12 (Ogilvie). The Property includes 474 contiguous, un-surveyed mineral titles (Figure 2) more fully described in Table 1 below.

Table 1 - List of Claims

Claim Name No.	Tag No.	Expiry Date	#
Bute 1 to 10	YC87401 to YC87410	25-Mar-15	10
Bute 11 to 12	YC96443 to YC96544	25-Mar-15	2
Bute 13 to 22	YC87977 to YC87986	25-Mar-15	10
Bute 23	YC95496	25-Mar-15	1
Bute 24	YC95580	25-Mar-15	1
Bute 25 to 62	YC96359 to YC96396	25-Mar-15	38
Rose 1 to 24	YC87106 to YC87129	25-Mar-15	24
Rose 25 to 28	YC96397 to YC96400	25-Mar-15	4

Rose 29 to 36	YC96349 to YC96356	25-Mar-15	8
Rose 37 to 120	YD13038 to YD13121	25-Mar-15	84
Rose 121 to 351	YD43401 to YD43631	25-Mar-15	231
Rose 352	YC95483	25-Mar-15	1
Rose 353 to 412	YD43633 to YD43692	25-Mar-15	60
			474

On March 30, 2010, Taku entered into an option agreement to acquire a 100% interest in 120 claims known as the Rose Property and 62 claims known as the Bute Property, both located south of Dawson City in the White Gold district of Yukon Territory. Under the terms of the agreement, Taku has the option to earn a 100% interest in the Rose and Bute Property for a total consideration of \$325,000 in cash payments, the issuance of 1,000,000 common shares and the completion of \$1,000,000 in exploration expenditures on the Property over a four year period. The property is subject to two per cent (2%) Net Smelter Return (“NSR”) of which Taku has the right to buy back the first one per cent (1%) for two million dollars (\$2,000,000). On April 12, 2010 Taku acquired through staking an additional 292 claims to expand the property to 474 claims.

The mineral claims included in the Property were acquired under the Yukon Quartz Mining Act which grants only the hard rock mineral rights to the claim holder. The surface rights for the area of the Property are held by the Crown. To maintain the claims in good standing, a minimum of \$100 assessment work per claim must be completed annually. There are provisions to apply for more than one year work at a time up to a maximum of five years, to apply work from one claim to other adjoining claims (grouping) up to a maximum of 750 contiguous claims and to pay cash in lieu of work up to a maximum of five years. The Quartz Mining Land Use Regulations consist of a classification system based on varying levels of specific activities. These threshold levels categorize exploration activities into four classes of operation. Classes 1 through 4 represent activities with increasing potential to cause adverse environmental impacts.

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

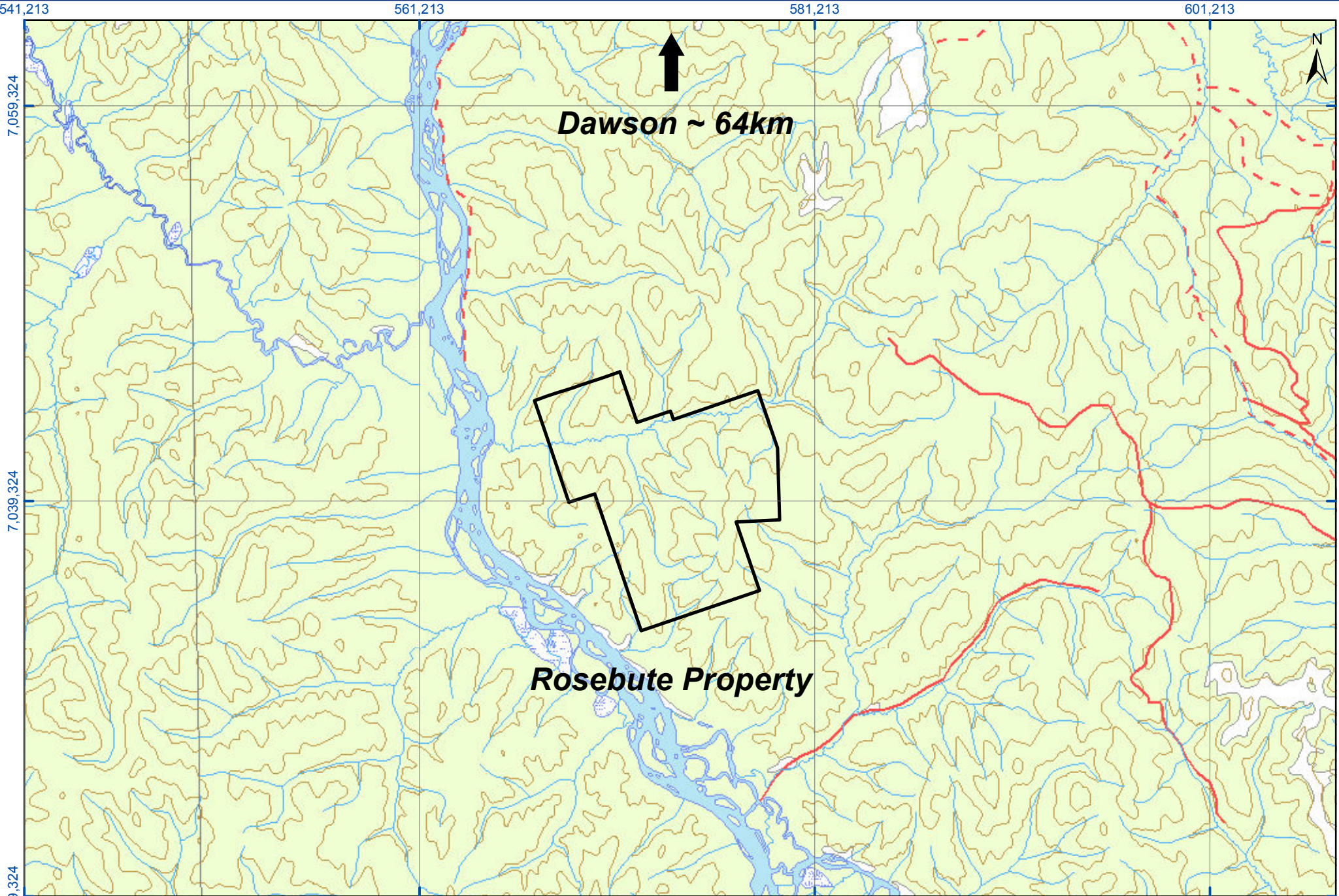
Class 2 programs are considered to represent the upper level of “grassroots” exploration activities. A notification submitted through the Mining Lands Office which outlines the activities and how they will be reclaimed is required. These programs comprise activities that have a moderate potential to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

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

The work described in this Report was completed as a Class 1 Program.

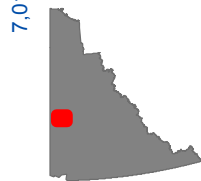
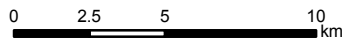
4. Accessibility, Local Resources, Infrastructure, Physiography and Climate

There is no road access to the property. Access to the claims is by helicopter, which can be chartered year round from Dawson City. The Rosebute property is located in an isolated part of Yukon with relatively few local resources or infrastructure. The Property can be worked by helicopter from Dawson City or from an exploration camp set up on or near the Property. A camp can be supported from Dawson City, where services are limited, or from Whitehorse where a full range of services are locally available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.

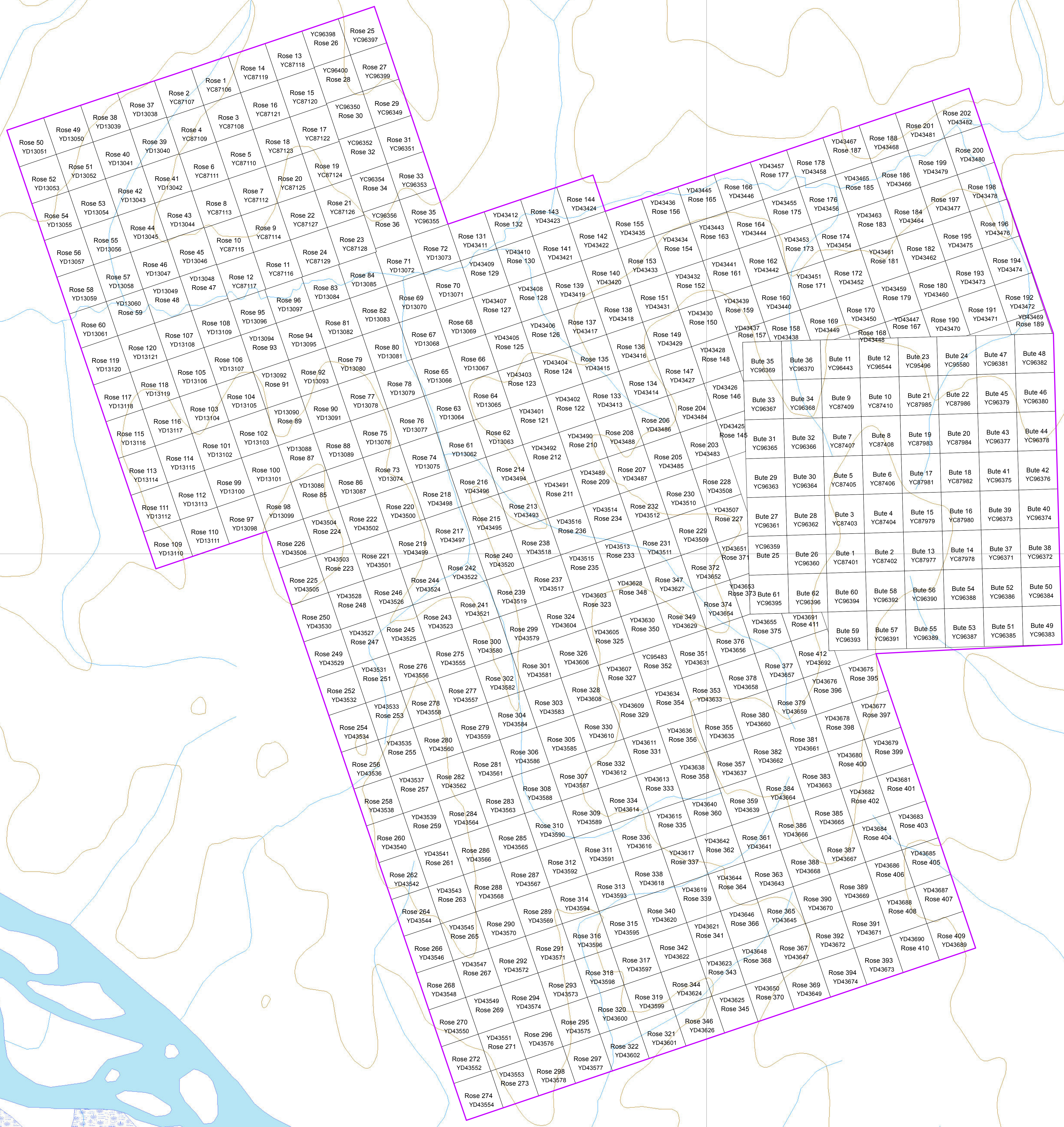
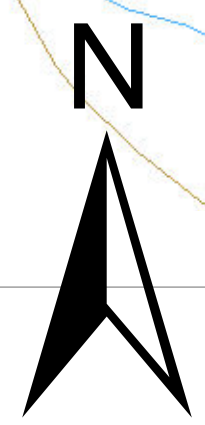


ROSEBUTE PROPERTY
Figure 1. GENERAL LOCATION

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:250 000



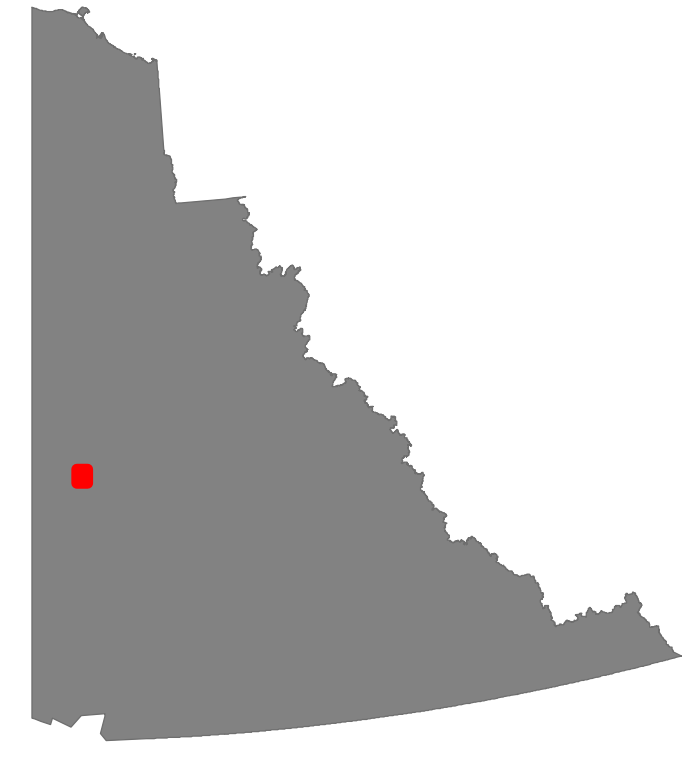
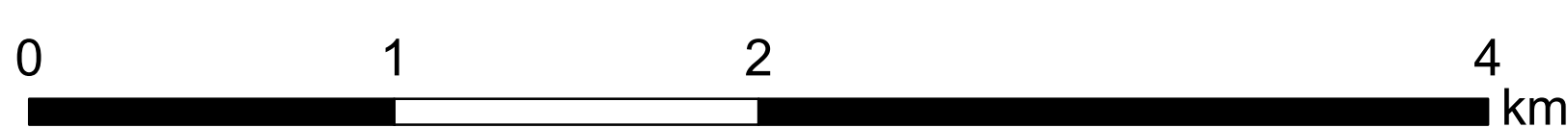
Rosebute Property
Figure 1. General Location
Taku Gold Corp.
NTS Sheet: 1150
Date: October 28, 2011



ROSEBUTE PROPERTY
Figure 2. CLAIMS MAP

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:20 000

Rosebute Property
 Figure 2. Claims Map
 Taku Gold Corp.
 NTS Sheet: 115O/05, 06, 11 & 12
 Date: October 21, 2011



The Property covers the headwaters of Rosebute Creek in the Dawson Range of Yukon. Unlike most parts of Yukon, the Dawson Range was not affected by the last period of continental glaciations and so it is characterized by low rolling hills incised with steep sided, V-shaped valleys. Bedrock is typically deeply weathered and there is very little (perhaps less than 5%) outcrop exposed; usually on ridges above tree-line or in rare canyons in the creek valleys. Elevations on the Property range from 400m to 1100m above sea level. Most of the Property lies below tree-line and is covered by a typical boreal mixture of pine, spruce, balsam fir, aspen and birch trees and willow and alder brush. North and west slopes are often covered with thick moss blanketing permafrost.

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

5. Exploration History

The following exploration history of the Property has been compiled from the Yukon Energy and Mines and Resources Library and Yukon Geological Survey MINFILE database. There has been limited exploration work on the property. Table 2 below lists all known assessment reports that describe work done adjacent to and within the boundaries of the present Property in whole or in part.

Table 2 - Previous Assessment Work Files

Company	Year	AFR No.	Author	Work	Link
Kennecott Canada Exploration Inc.	2003	094441	Roger Hulstein	Soil geochem	094441
Copper Ridge Explorations Inc.	2005	094511	J. Greg Dawson	Soil Geochem	094511

There is one mineral showings documented within the area of the Property listed in Table 3 below:

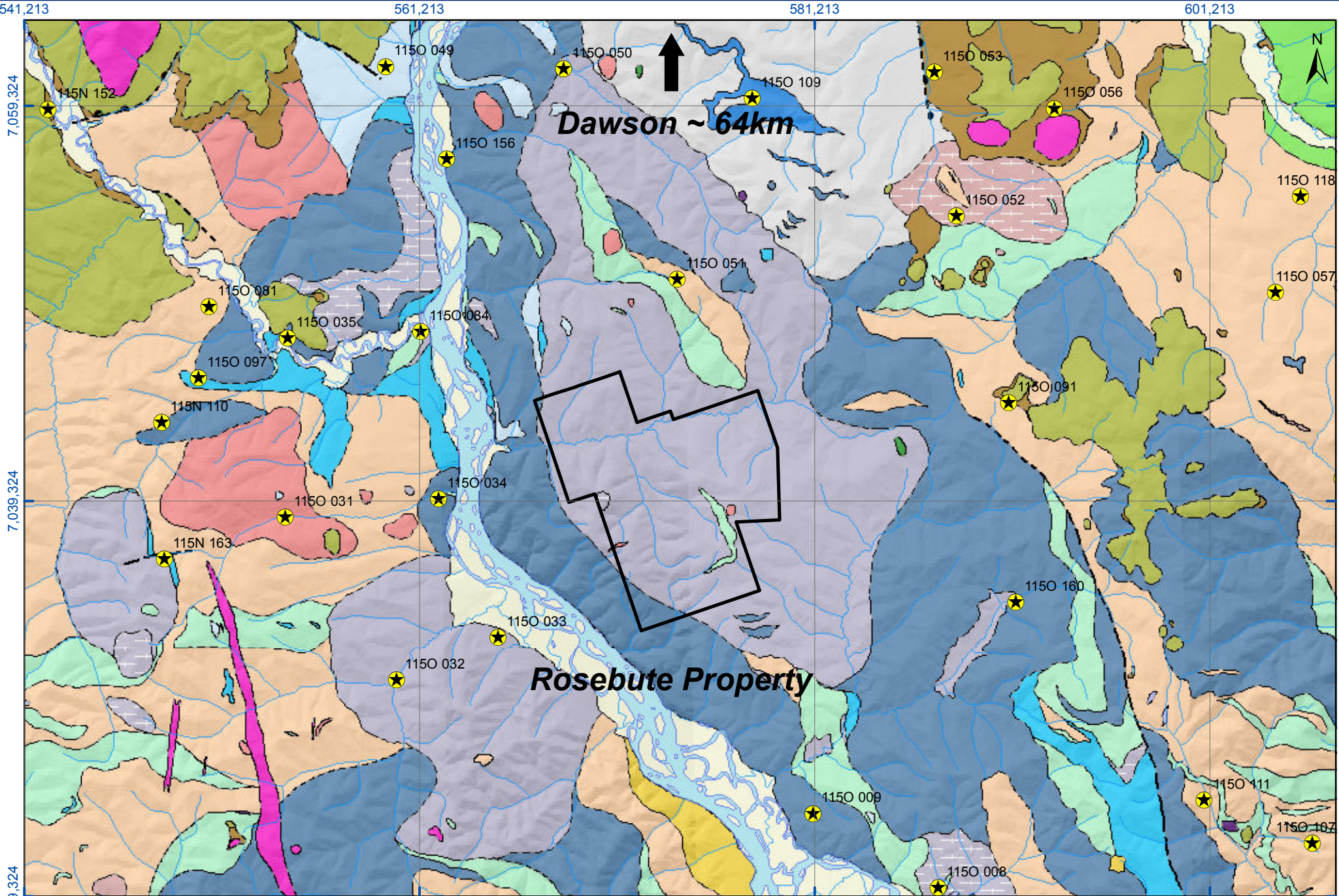
Table 3 - MINFILE Showings

MINFILE No.	MINEFILE Name	Link
115O 167	LJS	115O 167

In 2002, Kennecott carried out a soil sampling survey over and adjacent to an aeromagnetic high identified by the Geological Survey of Canada in 2001. An additional 40 claims were staked in response to the discovery of a “sulfidic kill zone” (AFR No. 094441). In 2004, Copper Ridge carried out a soil sampling, geological mapping and prospecting survey in the vicinity of a geochemical anomaly and a sulfidic kill zone identified by Kennecott in 2003 (AFR No. 094511).

6. Geology

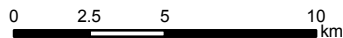
The Property lies within the Yukon-Tanana Terrane which, due to large areas with little or no bedrock exposure and limited modern regional or detailed mapping, remains very poorly understood. Generally it consists of several successions of layered sedimentary and volcanic rocks ranging from Late Proterozoic to Late Permian age that overlay the older Nisling Terrane. These complexly deformed layered rocks have been episodically intruded by various intrusive rocks in the Permian, Jurassic, Cretaceous and Tertiary periods. The intrusive events have been accompanied by volcanic activity especially in the Upper Jurassic to Lower Cretaceous. The Yukon-Tanana has been subjected to numerous prolonged deformational events including subduction and accretion that has led to significant structural thickening. Imbricated allochthonous terranes such as Slide Mountain Terrane are evidenced by altered ultramafic fragments (Figure 4).



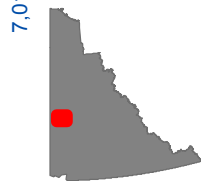
★ Mineral Occurance

ROSEBUTE PROPERTY
Figure 3. REGIONAL GEOLOGY



Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:250 000




Rosebute Property
 Figure 3. Regional Geology
 Taku Gold Corp.
 NTS Sheet: 1150
 Date: October 28, 2011



QUATERNARY

-  Qs
Fluvial silt, sand and gravel
-  Qb
Basalt

TERTIARY

-  Ts
Conglomerate, sandstone, shale

DEVONIAN TO MISSISSIPPIAN?


-  DME
Earn group

TERTIARY EOCENE

-  Er
Porphyry

CRETACEOUS

UPPER CRETACEOUS

-  uKcV
Carmacks Group

MID?-CRETACEOUS

-  Kg/Kgd
Granite/Granodiorite

LOWER CRETACEOUS

-  IKToG
Tantalus(?) Formation


JURASSIC

EARLY JURASSIC

-  EJgd
Granodiorite

TRIASSIC

LATE TRIASSIC

-  LTrum
Pyroxene Mountain Body

PALEOZOIC AND/OR MESOZOIC

-  PMd
Gabbro





CARBONIFEROUS

-  CD
Dawson-Clinton Creek Assemblage

MID(?) - TO LATE PALEOZOIC

-  mPum/mPums
Ultramafic-Gabbro

PERMIAN

-  Pv
Foliated volcanic
-  PKs
Klondike Schist
-  Pg
Jim Creek Pluton
-  Pogg, Pogq/Poga
Pogt
Orthogneiss (Younger, 264-259 Ma)

DEVONIAN TO MISSISSIPPIAN

-  DMNq/DMNI
Nasina Assemblage
-  DMogg/DMoga
DMogt
Orthogneiss (Older, 363-343 Ma)
-  DMogta
Undivided DMogt (Orthogneiss (older))
and DMA (Amphibolite)
-  DMA
Amphibolite
-  DMm
Mafic schist
-  DMc
Marble
-  DMps
Quartz-Mica schist
-  DMcg
Metaconglomerate
-  DMq
Quartzite

SYMBOLS


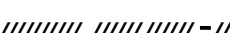
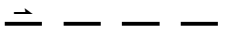
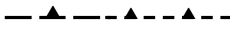
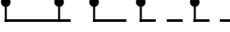

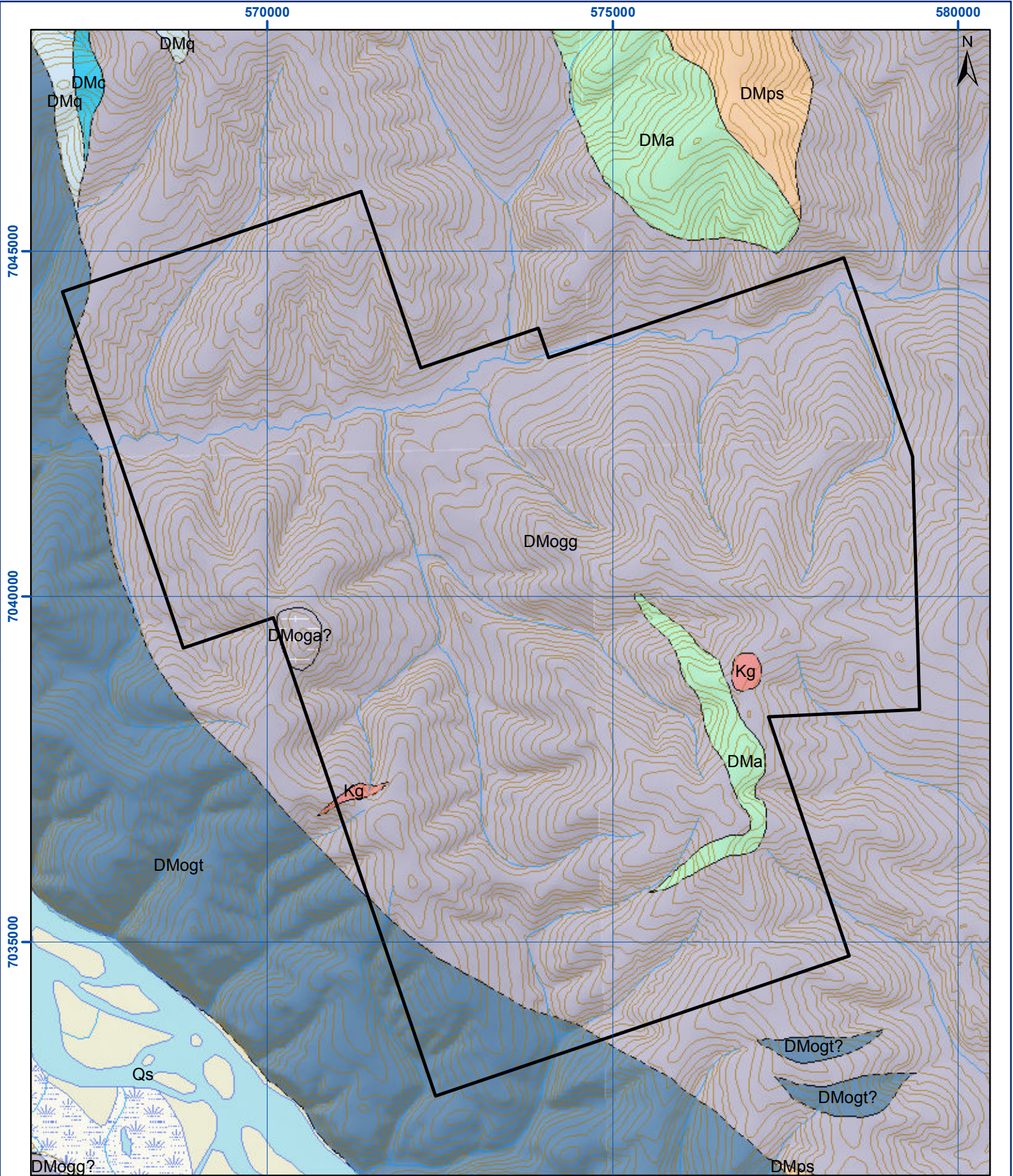
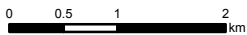
-  Geological contact
(defined, approximate, assumed)
-  Fault, sense of movement uncertain
(defined, approximate, assumed)
-  Fault, transcurrent, dextral
(approximate)
-  Fault, thrust (teeth on upper plate)
(defined, approximate, assumed)
-  Fault, normal (teeth on upper plate)
(defined, approximate, assumed)
-  Fault, low-angle normal
(teeth on upper plate)
(approximate, assumed)

Figure 3 continued. Legend for Regional Geology



ROSEBUTE PROPERTY
Figure 4. PROPERTY GEOLOGY

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:70 000



Rosebute Property
 Figure 4. Property Geology
 Taku Gold Corp.
 NTS Sheet: 1150/05, 6, 11 & 12
 Date: October 23, 2011

The most recent regional mapping and compilation work in the Stewart River area (Ryan and Gordey, 2004) indicates that the Property is underlain mainly by Devonian to Mississippian undivided orthogneiss (Figure 4). This unit consists primarily of pink to orange k-feldspar rich granitic orthogneiss commonly with biotite, which is generally banded to layered (DMogg). An eastern portion of the property is underlain by Devonian to Mississippian amphibolite schist or gneiss associated with psammite or interlayered with orthogneiss (DMA). Also in this area of the property is a Cretaceous porphyritic Granite pluton (Kg).

7. Deposit Types

The Property lies within an underexplored part of the loosely defined Tintina Gold Belt. This metallogical province has past production of 29.9 million ounces and 39.3 million ounces of resources for total gold resources of 69.2 million ounces. Notable gold deposits are Donlin Creek, Ft. Knox, Pogo and Brewery Creek. The underexplored nature of the Klondike-White Gold district was highlighted by Underworld's discovery of the Saddle and Arc zones in May 2009 on the White property located 30km south of Rosebute, and more recently by the Supremo discovery on Kaminak's Coffee property located approximately 60km south of Rosebute.

The Klondike-White Gold district lies within the larger Dawson Range area where a number of known gold and porphyry copper deposits show a wide range of styles, geological settings and geochemical associations. Taku's exploration effort at Rosebute is not adhering to any firm deposit model but is instead based on practical survey methods that generate drill targets and have led to discoveries by other groups working in the area.

Detailed geochemical surveys have proven to be effective in the area, as shown by Shawn Ryan's success on the White and Coffee properties. The Dawson Range generally shows deeply weathered, oxidized soils in an unglaciated periglacial environment. This simply means that in order to collect soils that best represent the underlying bedrock it is necessary to take relatively deep soil samples that are likely less weathered and less oxidized. Another useful exploration tool is to fly closely spaced, low altitude, helicopter-borne geophysical surveys to assist in interpreting bedrock units, structure, and alteration.

8. Mineralization

Very little *in situ* mineralization has been identified on Property to date due primarily to the lack of outcrop. No significant mineralization or alteration was noted.

9. 2010 Exploration Work

9.1. Introduction

Exploration work in 2010 included an airborne geophysical survey and two detailed geochemical soil grids. Limited prospecting and sampling was completed as well. The Junior Author compiled the field data into digital maps and wrote this Report up to November 1, 2011. Field work commenced on September 28, 2010 and was completed on October 14, 2010. The geophysical survey was done on September 27 to 29, 2010, and the analytical work was done from November 8 to 23, 2010. A detailed Statement of Work is included herein as Appendix A (Volume II).

9.2. Airborne Geophysical Survey

The multi-sensor airborne geophysical survey was completed by Precision Geosurveys Inc. of Vancouver, British Columbia with a helicopter flying grid lines at 100 meter line spacing. A total of 1107.2 line kilometers of data were collected. A high resolution magnetometer system was used to assist in interpreting bedrock units, structure, and alteration. A radiometric system consisting of a multichannel spectrometer with state-of-the-art design and large gamma ray sensing crystals was used to map lithologies and alteration. Included in the Report are coloured summary contour maps for the total field magnetic intensity (Figure 5), total radiometric count (Figure 6), percent potassium (Figure 7), parts per million thorium (Figure 8), and parts per million uranium (Figure 9). A full description and data CD of the airborne geophysical survey is included herein as Appendix D (Volume III).

570,000 mE

575,000 mE

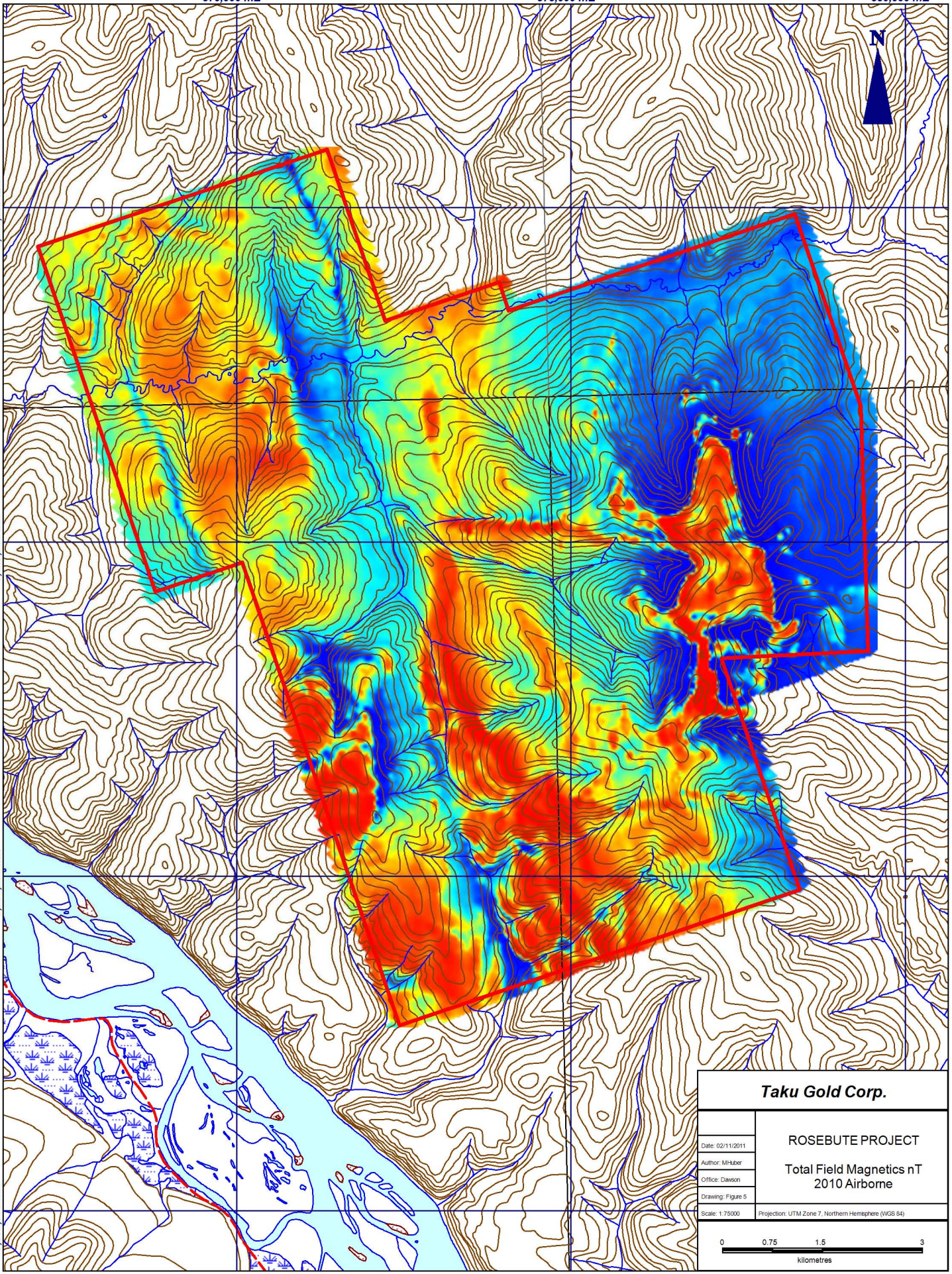
580,000 mE

7,045,000 mN

7,040,000 mN

7,035,000 mN

7,030,000 mN



Taku Gold Corp.

ROSEBUTE PROJECT

Total Field Magnetics nT
2010 Airborne

Date: 02/11/2011
Author: MHuber
Office: Dawson
Drawing: Figure 5
Scale: 1:75000

Projection: UTM Zone 7, Northern Hemisphere (WGS 84)



570,000 mE

575,000 mE

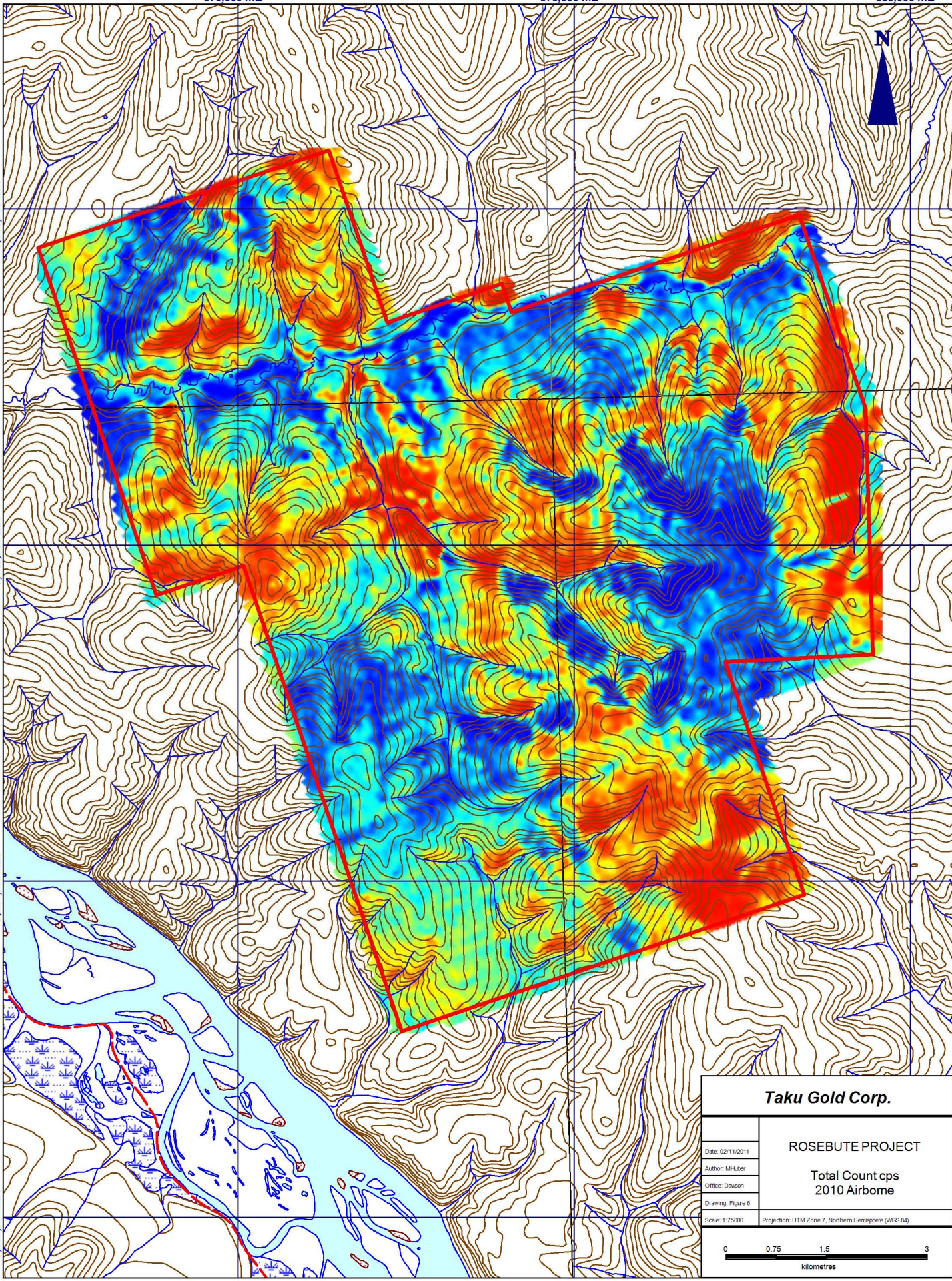
580,000 mE

7,045,000 mN

7,040,000 mN

7,035,000 mN

7,030,000 mN



Taku Gold Corp.

ROSEBUTE PROJECT

**Total Count cps
2010 Airborne**

Date: 02/11/2011
Author: MHuber
Office: Dawson
Drawing: Figure 6
Scale: 1:75000

Projection: UTM Zone 7, Northern Hemisphere (WGS 84)



570,000 mE

575,000 mE

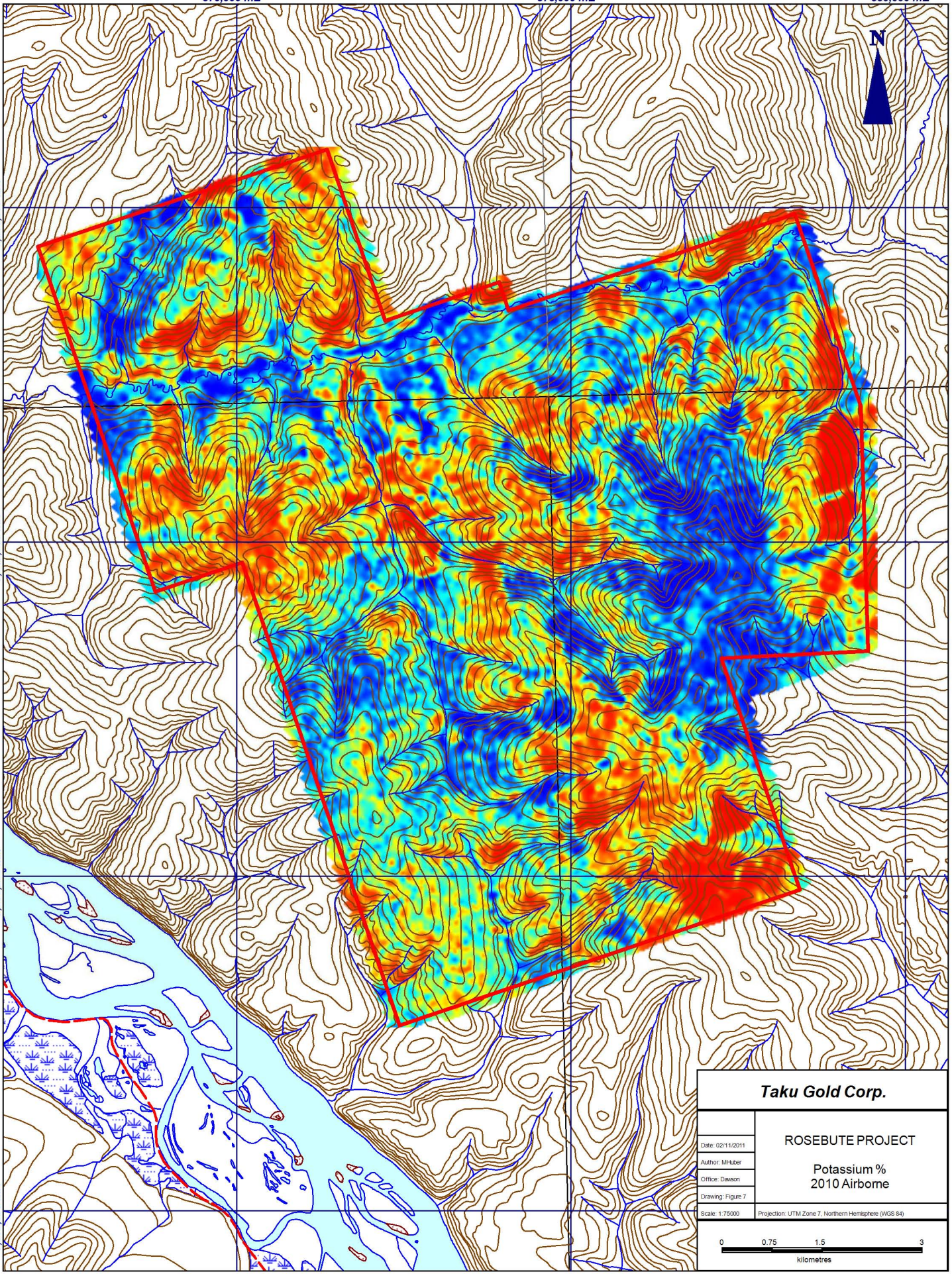
580,000 mE

7,045,000 mN

7,040,000 mN

7,035,000 mN

7,030,000 mN



Taku Gold Corp.

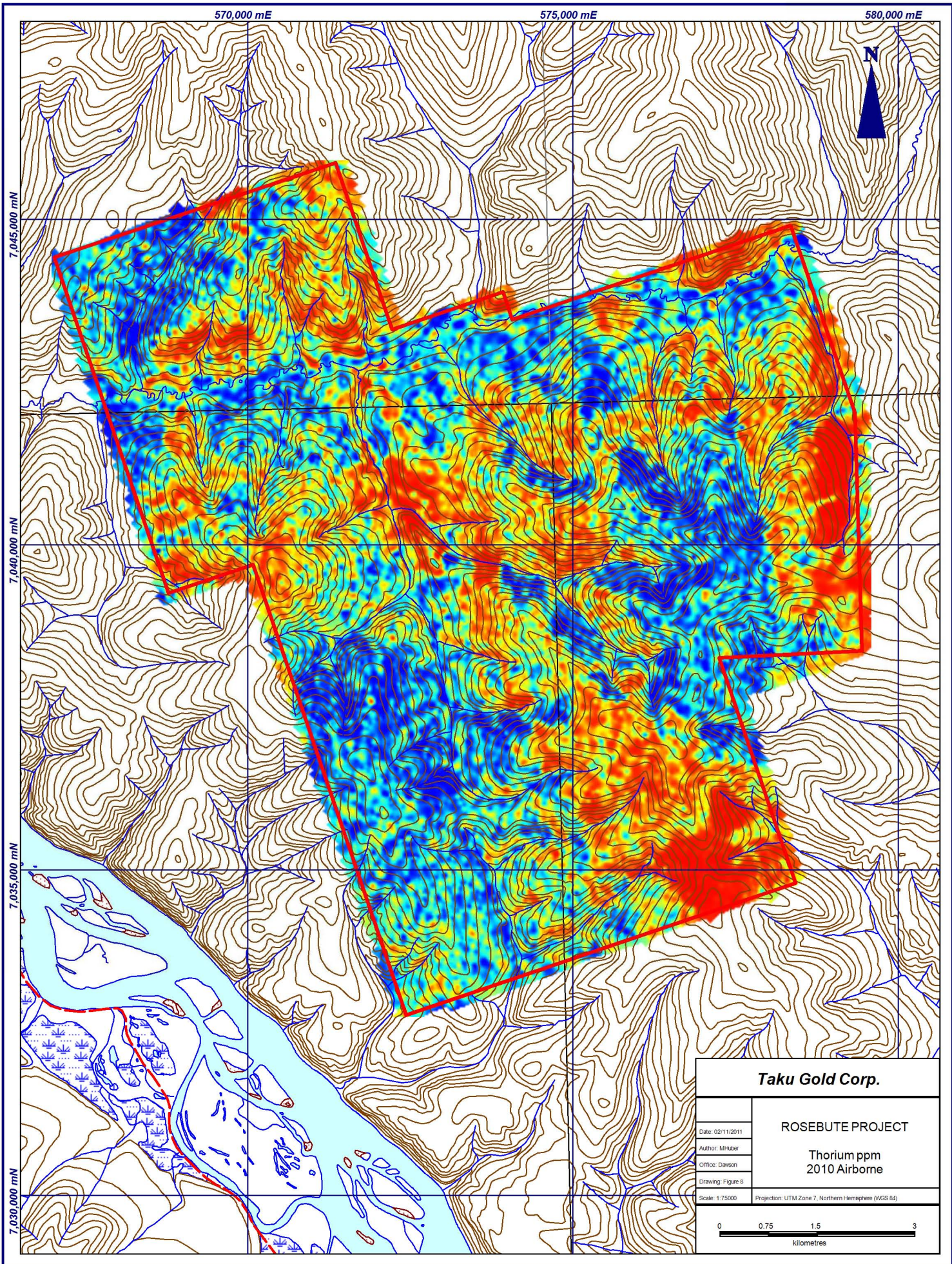
ROSEBUTE PROJECT

Potassium %
2010 Airborne

Date: 02/11/2011
Author: MHuber
Office: Dawson
Drawing: Figure 7
Scale: 1:75000

Projection: UTM Zone 7, Northern Hemisphere (WGS 84)





570,000 mE

575,000 mE

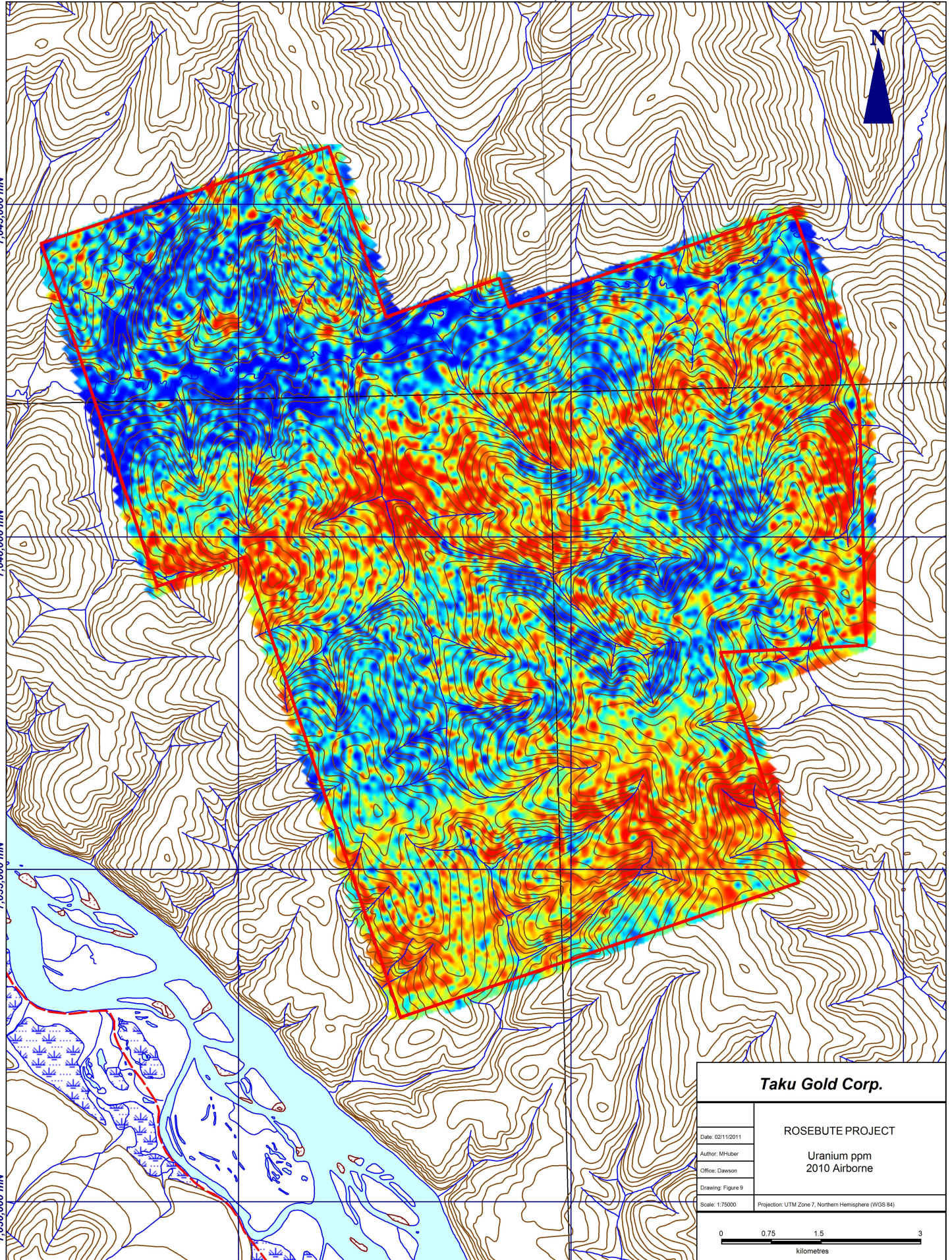
580,000 mE

7,045,000 mN

7,040,000 mN

7,035,000 mN

7,030,000 mN



Taku Gold Corp.

ROSEBUTE PROJECT

**Uranium ppm
2010 Airborne**

Date: 02/11/2011

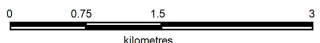
Author: MHuber

Office: Dawson

Drawing: Figure 9

Scale: 1:75000

Projection: UTM Zone 7, Northern Hemisphere (WGS 84)



9.3. Sampling and Analytical Procedures

A soil geochemical survey and limited prospecting was conducted on the Property from September 28, 2010 to October 14, 2010. The work was supervised by the Senior Author. The work was done on foot and by helicopter by Ground Truth Exploration Inc. from Dawson City and a remote camp. A total of 5,087 soil samples were collected over two grids with hand augers at 50m sample intervals on lines spaced 100m apart using GPS traverse lines. This sampling array was chosen in an attempt to cover the most anomalous portions of the property from the airborne geophysics in such a way that would indicate potential gold anomalies.

Sample locations were flagged in the field and recorded with Garmin 76CX GPS receivers in map datum UTM NAD 83 Zone 7. Field observations were recorded in HP iPAQ field computers. The data was post-processed into a customized Access database. Sample locations (Figure 10 and 11) and descriptions are included as Appendix B (Volume II). A data CD is also included. Soil sample material varied from clay to sand with some humus samples. Sample depth varied from 20 to 110cm with an average depth of 65cm.

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

9.4. Data Verification

It is the Authors opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the soil and rock samples were diligently followed and are adequate to meet industry standards commonly accepted for this level of exploration. The Authors have relied upon the adequacy and accuracy of the analytical results provided by Acme. Independent verification of those results has not been undertaken. The Authors reconciled the field data with the analytical results and found no discrepancies.

9.5. Results

The magnetic data (Figure 5) shows a series of alternating magnetic highs and lows trending in a southeast to northwest direction. This magnetic pattern suggests alternating layered rock units. The southern half of a prominent magnetic trough that traverses the entire property borders a leaf-shaped magnetic ridge. Further to the east there is an isolated magnetic high within a flat, featureless magnetic basin. There are several narrow, cross-cutting, east to west-trending magnetic highs that may represent dykes or faults. The total count radiometric data (Figure 6) correlates well and appears to be due both to potassium (Figure 7) and thorium (Figure 8). Total count highs occur as spotty, roughly circular, discontinuous mounds within a rather flat background. The uranium survey (Figure 9) showed no significant results.

The soil samples returned gold values ranging from below the detection limit (i.e. <5 parts per billion gold) to a maximum of 201ppb Au. Excellent geochemical results were obtained from the first grid located in the northwestern part of the Property, and an anomalous area approximately 200 hectares in size was identified. Within this area there are three distinct, east-trending linear anomalies. The first anomaly is well defined over 2,200m and shows maximum values up to 201ppb Au. The second anomaly is well defined over 400m long and shows maximum values up to 84ppb Au. The third anomaly is intermittently defined over 1,100m and shows maximum values up to 155ppb Au. These three east-trending geochemical features all appear to lie on the margin of a circular radiometric high lying just north of Rosebute Creek. The second grid, covering roughly 1,500 hectares in the central part of the property, returned only a few individual anomalous values and is generally less prospective for gold mineralization. Roughly 60% of the property was not covered in 2010 and remains to be tested.

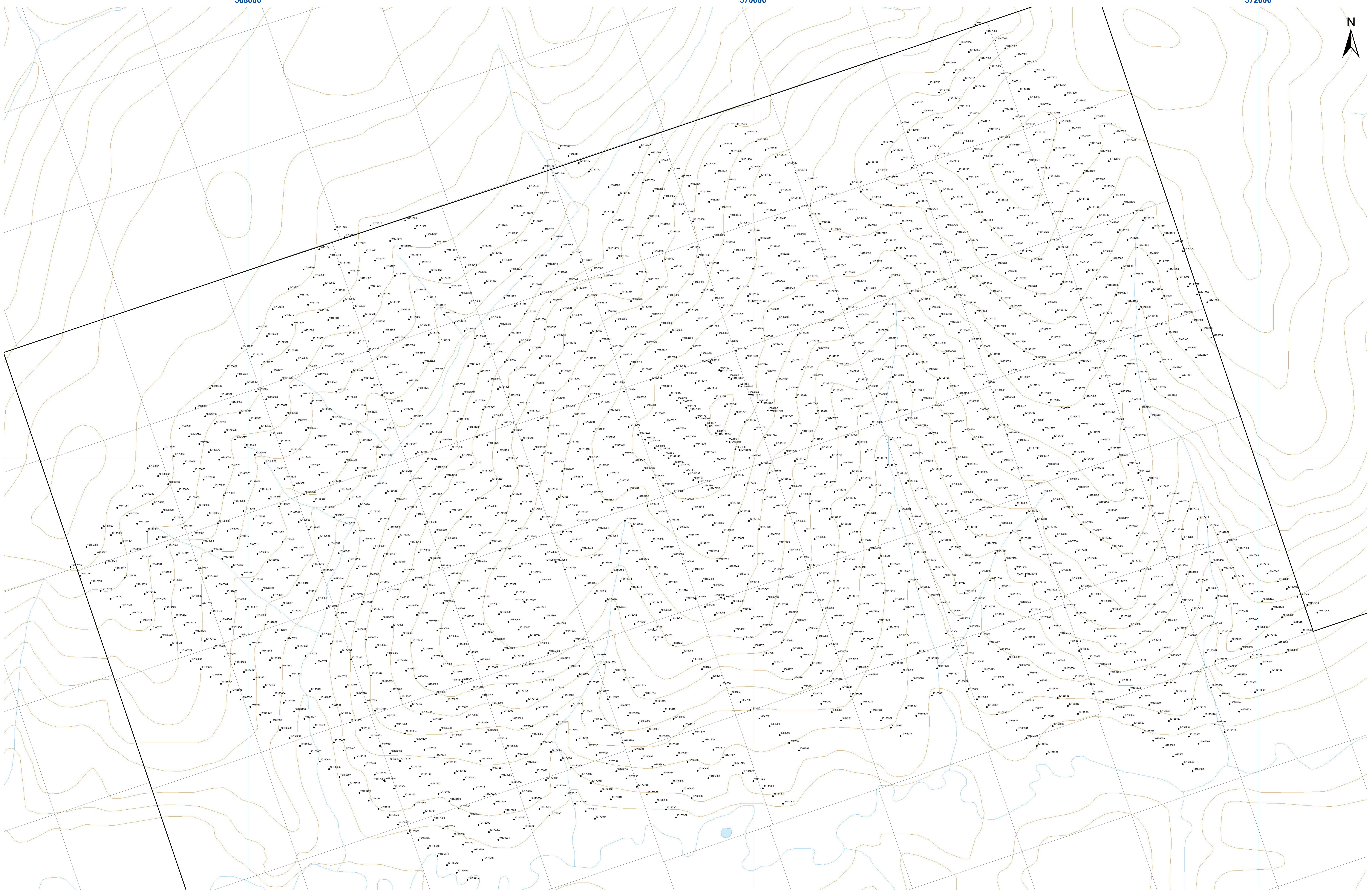
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570000

572000



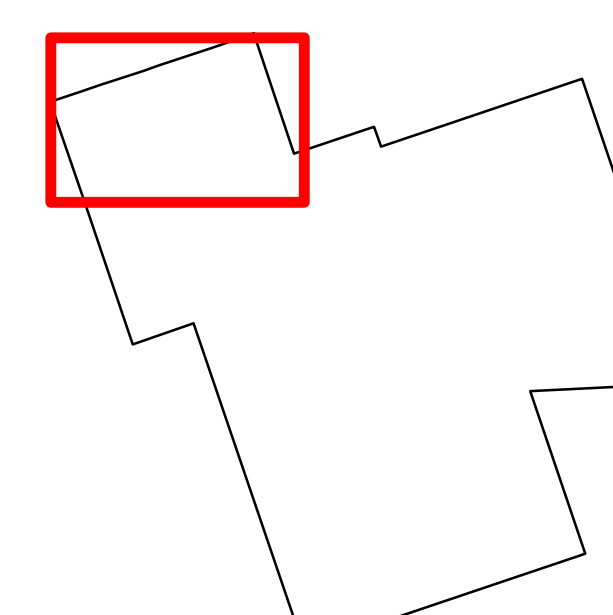
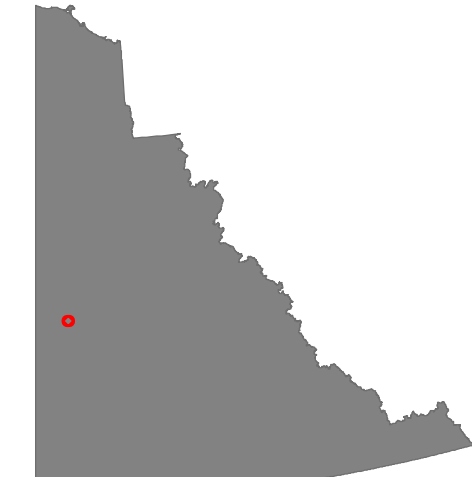
704000



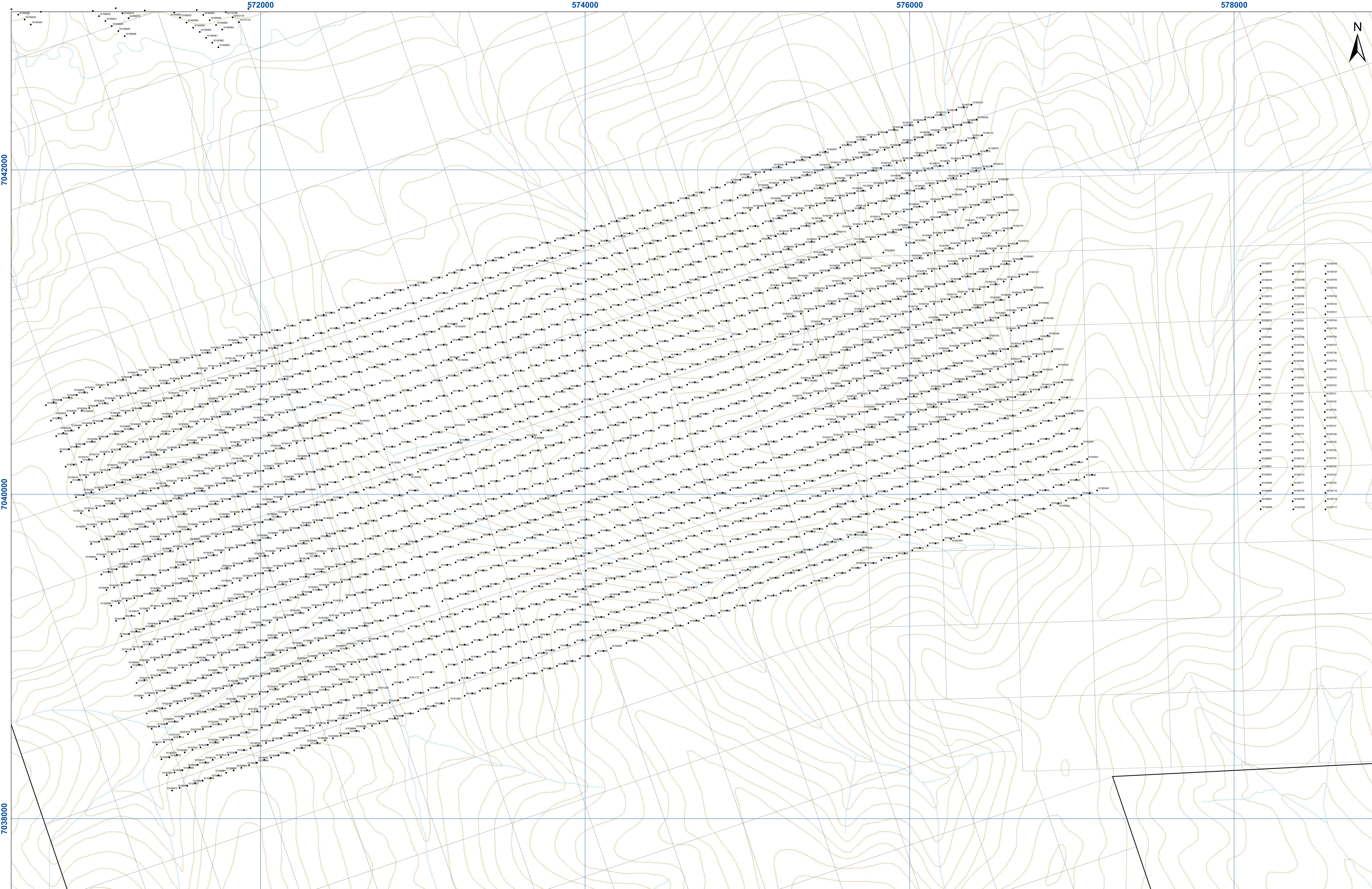
ROSEBUTE PROPERTY
Figure 10. SAMPLE LOCATIONS I

Universal Transverse Mercator Zone 7
World Geodetic System 1984
Scale 1:4 500

0 125 250 500 m

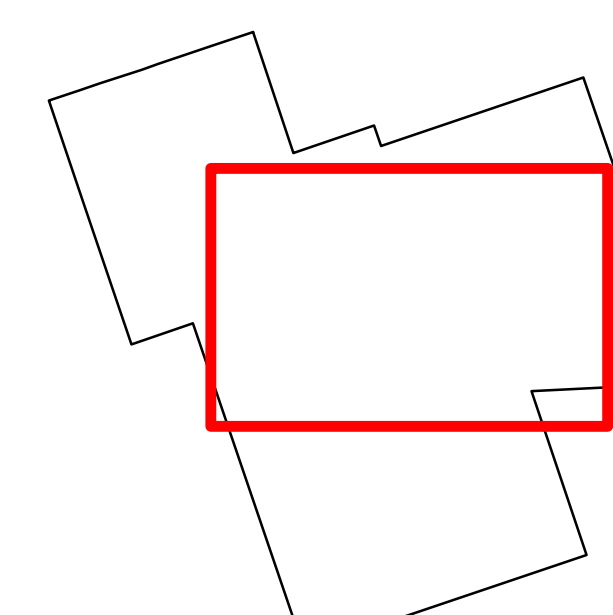
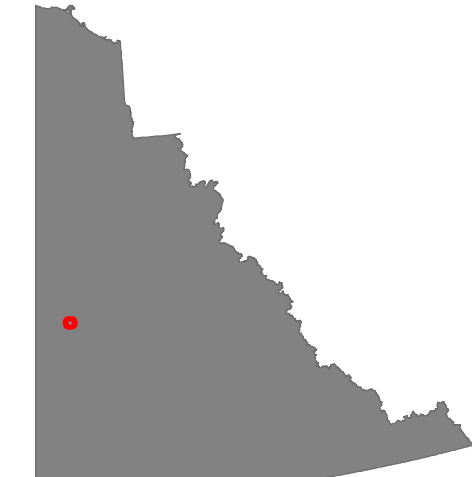
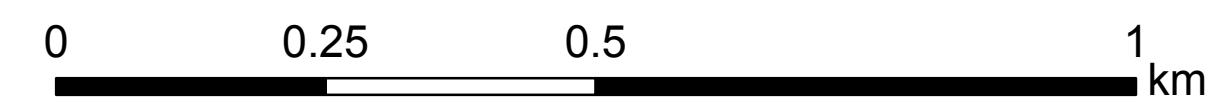


Rosebute Property
Figure 10. Sample Locations I
Taku Gold Corp.
NTS Sheet: 1150/12
Date: October 31, 2011

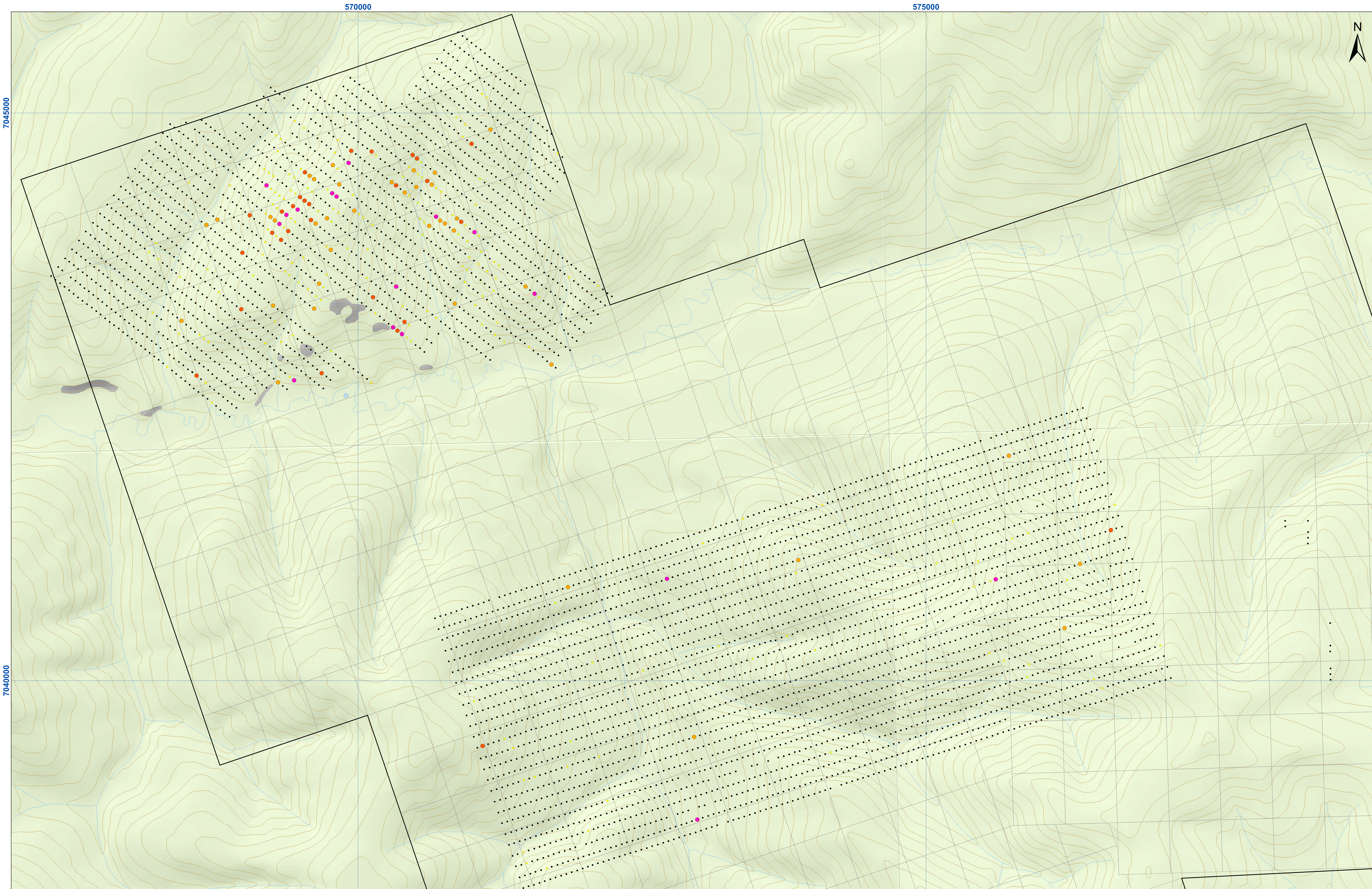


ROSEBUTE PROPERTY
Figure 11. SAMPLE LOCATIONS II

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:7 000



Rosebute Property
 Figure 11. Sample Locations II
 Taku Gold Corp.
 NTS Sheet: 1150/05, 06, 11 & 12
 Date: October 31, 2011



7045000

570000

575000

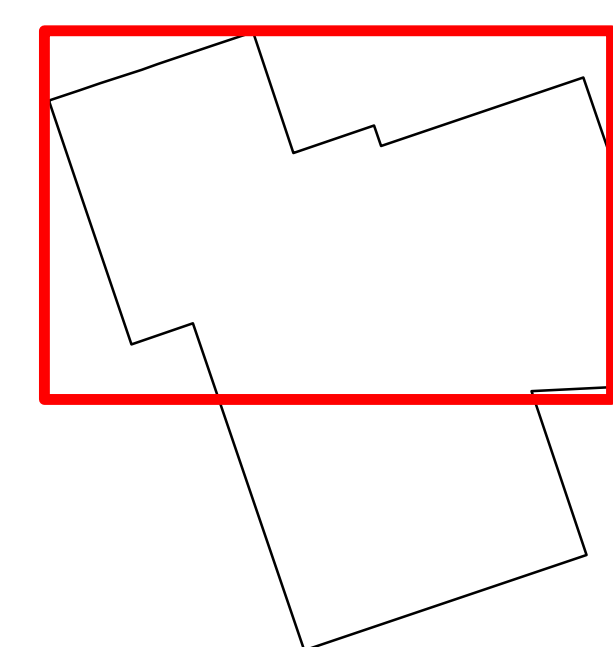
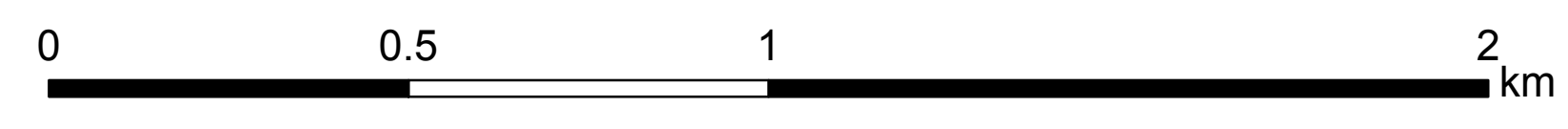
7040000

Soil Au ppb

- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 60
- > 60

ROSEBUTE PROPERTY
Figure 12. DETAILED GOLD ANOMOLY MAP

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:10 000



Rosebute Property
 Figure 12. Detailed Gold Anomaly Map
 Taku Gold Corp.
 NTS Sheet: 1150/05, 06, 11 & 12
 Date: October 31, 2011

10. Adjacent Properties

No gold deposits are known to exist on the properties immediately adjacent to the Property. Significant gold mineralization has been reported approximately 30km south of Rosebute at Kinross's White Gold deposit with a current resource estimation at the Golden Saddle zone of 1,004,570 indicated ounces at 3.2gpt Au and 407,413 inferred ounces at 2.5gpt Au; and at the Arc Zone of 170,470 inferred ounces at 1.2gpt Au (Underworld Press Release - January 19, 2010). Kaminak's discovery hold of 15.5m over 17.1gpt Au at the Supremo zone (Kaminak Press Release - May 26, 2010) is located approximately 60 km south from Rosebute.

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

11. Mineral Processing and Metallurgical Testing

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

12. Mineral Resource and Mineral Reserve Estimates

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

13. Other Relevant Data and Information

The Authors are not aware of any other relevant data and information or explanation to make this report more understandable and not misleading

14. Interpretation of Results and Conclusions

Excellent geochemical results were obtained from the first grid located in the northwestern part of the property, and an anomalous area approximately 200 hectares in size was identified. This highly anomalous area has great potential and should be explored further. More field prospecting and mapping is required in order to further interpret the geophysical data.

15. Recommendations

The surface work met its primary goal of outlining geophysical or geochemical trends that may potentially be gold-bearing structures. It is the Authors' opinion that the Rosebute property is of sufficient merit to recommend that further surface exploration work continue. It is recommended that the remaining 60% of the property be covered with ridge and spur soil geochemical survey at 50m sample intervals. It is also recommended that more detailed sampling be done in the anomalous area located in the northwestern part of the Property. This should be sampling between the current lines such that the spacing between lines will be 50m. Collecting deeper C-horizon samples must be emphasized for all soil sampling on the Property.

Table 4 - Estimated Budget

Geochemical Survey	10,000	Samples @	\$75	per sample	\$750,000
				Total	\$750,000

16. References

Gordey, S.P. and Ryan, J.J., 2005

Geology, Stewart River Area (115 N, 115-O and part of 115 J), Yukon Territory; Geological Survey of Canada, Open File 4970, scale 1:250 000.

Mortensen, J.K., 1996

Geological compilation maps of the northern Stewart River map area, Klondike and Sixtymile Districts (115N/15, 16; 115O/13, 14; and parts of 115O/15, 16). Exploration and Geological Services Division, Yukon region, Indian and Northern Affairs Canada, Open File 1996-1 (G).

2010 Surface Work

On the

Rosebute Property

Bute 1 to 10	YC87401 to YC87410
Bute 11 to 12	YC96443 to YC96544
Bute 13 to 22	YC87977 to YC87986
Bute 23	YC95496
Bute 24	YC95580
Bute 25 to 62	YC96359 to YC96396
Rose 1 to 24	YC87106 to YC87129
Rose 25 to 28	YC96397 to YC96400
Rose 29 to 36	YC96349 to YC96356
Rose 37 to 120	YD13038 to YD13121
Rose 121 to 351	YD43401 to YD43631
Rose 352	YC95483
Rose 353 to 412	YD43633 to YD43692

**Dawson Mining District, Yukon
NTS Sheet 115O05, O06, O11, O12
63°28'N. Lat., 139°30'W. Long.**

For



**TAKU GOLD
CORP.**

**By
Mark Fekete, P.Geo.
and
Marty Huber, B.Sc., GIT
November 1, 2011**

VOLUME II

Appendix A – Statement of Work Expenditures (Volume II)

I, CHAD COTE

of DAWSON CITY, YUKON

Phone 867 993-5612

make oath and say that:

Office Date Stamp

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

SEE ATTACHED SCHEDULE OF CLAIMS

situated at HEADWATERS ROSEBUTE CREEK Claim sheet No. 11505 & O12

in the DAWSON CITY Mining District, to the value of at least \$325,385.30 dollars,

since the 27TH day of SEPTEMBER 2010,

to represent the following mineral claims under the authority of Grouping Certificate No. HD 03105.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

SEE ATTACHED SCHEDULE OF CLAIMS

PLEASE COMMON DATE ALL CLAIMS TO MARCH 25, 2015

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

5087 SOIL SAMPLES SURVEY AS INDICATED ON THE ATTACHED SCHEDULE OF CLAIMS & MAPS

FIELD WORK WORK DONE BY GROUND TRUTH EXPL. INC. SEPT 28 TO OCT 14, 2010

ANALYTICAL WORK DONE BY ACME LABS NOV 8 TO 23, 2010

1107.2 KM AIRBORNE MAGNETIC AND RADIOMETRIC SURVEY OVER ALL CLAIMS DONE BY

PRECISION GEOSURVEYS INC SEPT 27 TO 29, 2010

Sworn before me at _____ this 17TH day of FEBRUARY 2011.

Notary Public

Owner or Authorized Agent

Access to Information and Protection of Privacy Act

The personal information requested on this form is collected under the authority of and used for the purpose of administering the *Quartz Mining Act*. Questions about the collection and use of this information can be directed to the Mining Records Office, Mineral Resources, Department of Energy, Mines and Resources, Yukon Government, Box 2703, Whitehorse, Yukon Territory, Y1A 2C6 (867) 667-3190

Claim Information					Actual Work Done by Claim			Renewal		
Type	Grant No.	Claim Name	Claim No.	Expiry Date	Soil Geochem	Airborne Geophysical	Total	Years	Annual Fee	Total
Quartz	YC96392	Bute	58	3/25/2011		\$ 147.97	\$ 147.97	4	\$ 5.00	\$ 20.00
Quartz	YC96393	Bute	59	3/25/2011		\$ 147.97	\$ 147.97	4	\$ 5.00	\$ 20.00
Quartz	YC96394	Bute	60	3/25/2011		\$ 147.97	\$ 147.97	4	\$ 5.00	\$ 20.00
Quartz	YC96395	Bute	61	3/25/2011		\$ 147.97	\$ 147.97	4	\$ 5.00	\$ 20.00
Quartz	YC96396	Bute	62	3/25/2011		\$ 147.97	\$ 147.97	4	\$ 5.00	\$ 20.00
Column Total					\$ 255,248.30	\$ 70,137.00	\$ 325,385.30			\$ 9,120.00
From Statement of Costs					\$ 255,248.30	\$ 70,137.00	\$ 325,385.30			\$ 9,120.00
Check					\$ (0.00)	\$ (0.00)	\$ 0.00			
PLEASE COMMON DATE ALL CLAIMS TO MARCH 25, 2015										
No Claims					149	474				
Type Work					Claims GEOC	Claims GEOP				

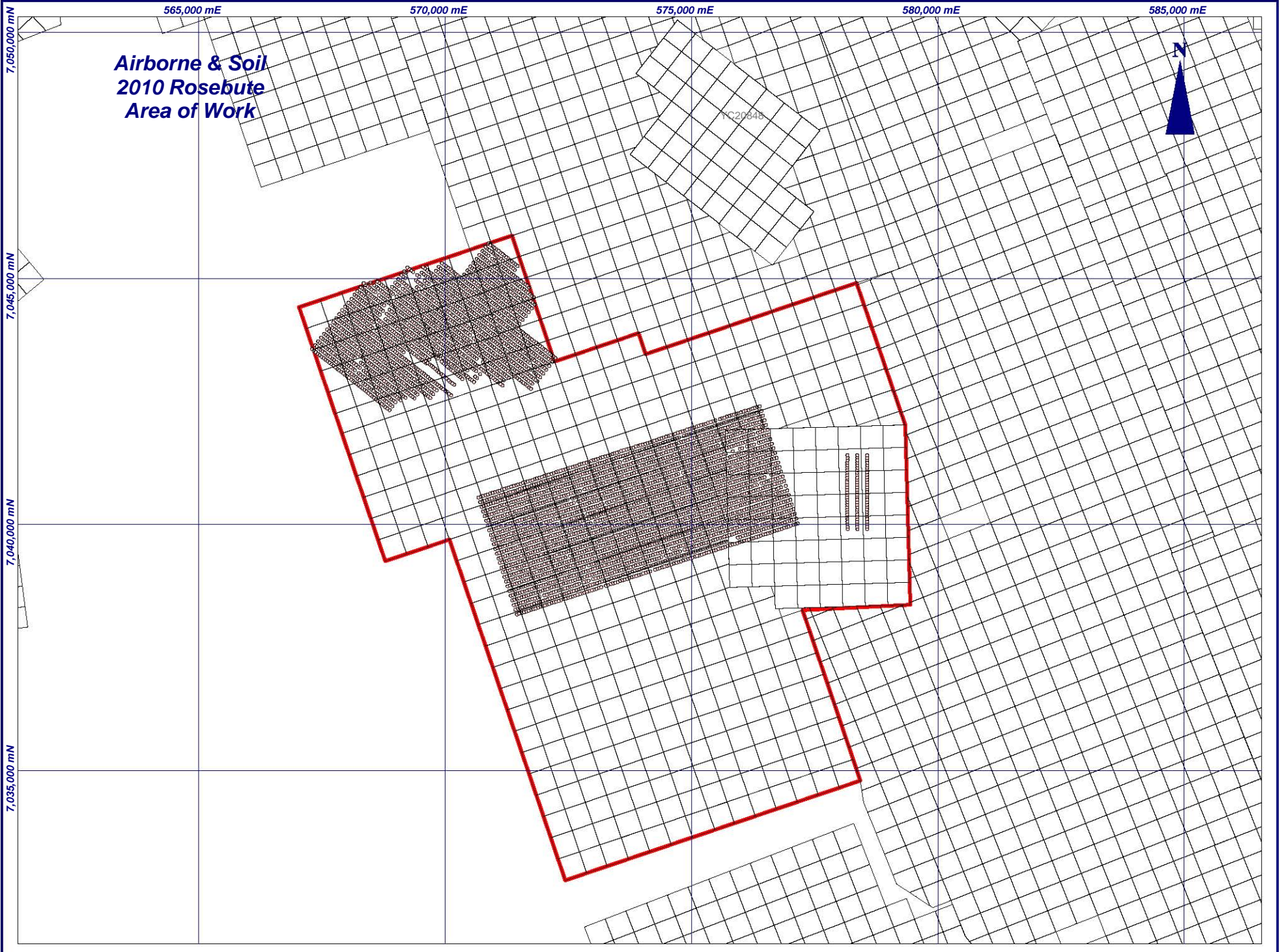
GEOC Rosebute 2010

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			Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Other	Total
Name	Ref No.	Date	5150	5151	5152	5153	5154	5155	5156	5157	Total
Acme	WHI10000587	8-Nov-10							5265.40		5,265.40
Acme	WHI10000588	5-Nov-10							5280.00		5,280.00
Acme	WHI10000589	8-Nov-10							5280.00		5,280.00
Acme	WHI10000590	8-Nov-10							5280.00		5,280.00
Acme	WHI10000591	5-Nov-10							5265.40		5,265.40
Acme	WHI10000592	8-Nov-10							5280.00		5,280.00
Acme	WHI10000593	3-Nov-10							5280.00		5,280.00
Acme	WHI10000594	5-Nov-10							5280.00		5,280.00
Acme	WHI10000595	3-Nov-10							1138.50		1,138.50
Acme	WHI10000609	12-Nov-10							5280.00		5,280.00
Acme	WHI10000610	15-Nov-10							5280.00		5,280.00
Acme	WHI10000611	15-Nov-10							5280.00		5,280.00
Acme	WHI10000612	15-Nov-10							5280.00		5,280.00
Acme	WHI10000613	12-Nov-10							1254.00		1,254.00
Acme	WHI10000630	23-Nov-10							5280.00		5,280.00
Acme	WHI10000631	23-Nov-10							5280.00		5,280.00
Acme	WHI10000632	16-Nov-10							5280.00		5,280.00
Acme	WHI10000633	17-Nov-11							2442.00		2,442.00
Ground Truth Expl.	ROS 2010-01	12-Nov-10	107,510.50								107,510.50
Trans North Helicopters	46750	30-Sep-10				6,275.20					6,275.20
Trans North Helicopters	46776	30-Sep-10				6,079.10					6,079.10
Trans North Helicopters	46777	30-Sep-10				5,686.90					5,686.90
Trans North Helicopters	46778	7-Oct-10				5,883.00					5,883.00
Trans North Helicopters	46779	7-Oct-10				5,686.90					5,686.90
Trans North Helicopters	46780	7-Oct-10				7,059.60					7,059.60
Trans North Helicopters	46781	7-Oct-10				4,706.40					4,706.40
Trans North Helicopters	46784	7-Oct-10				4,902.50					4,902.50
Trans North Helicopters	46788	18-Oct-10				4,706.40					4,706.40
Trans North Helicopters	46794	18-Oct-10				4,118.10					4,118.10
Trans North Helicopters	46797	25-Oct-10				4,314.20					4,314.20
Trans North Helicopters	46799	25-Oct-10				4,314.20					4,314.20
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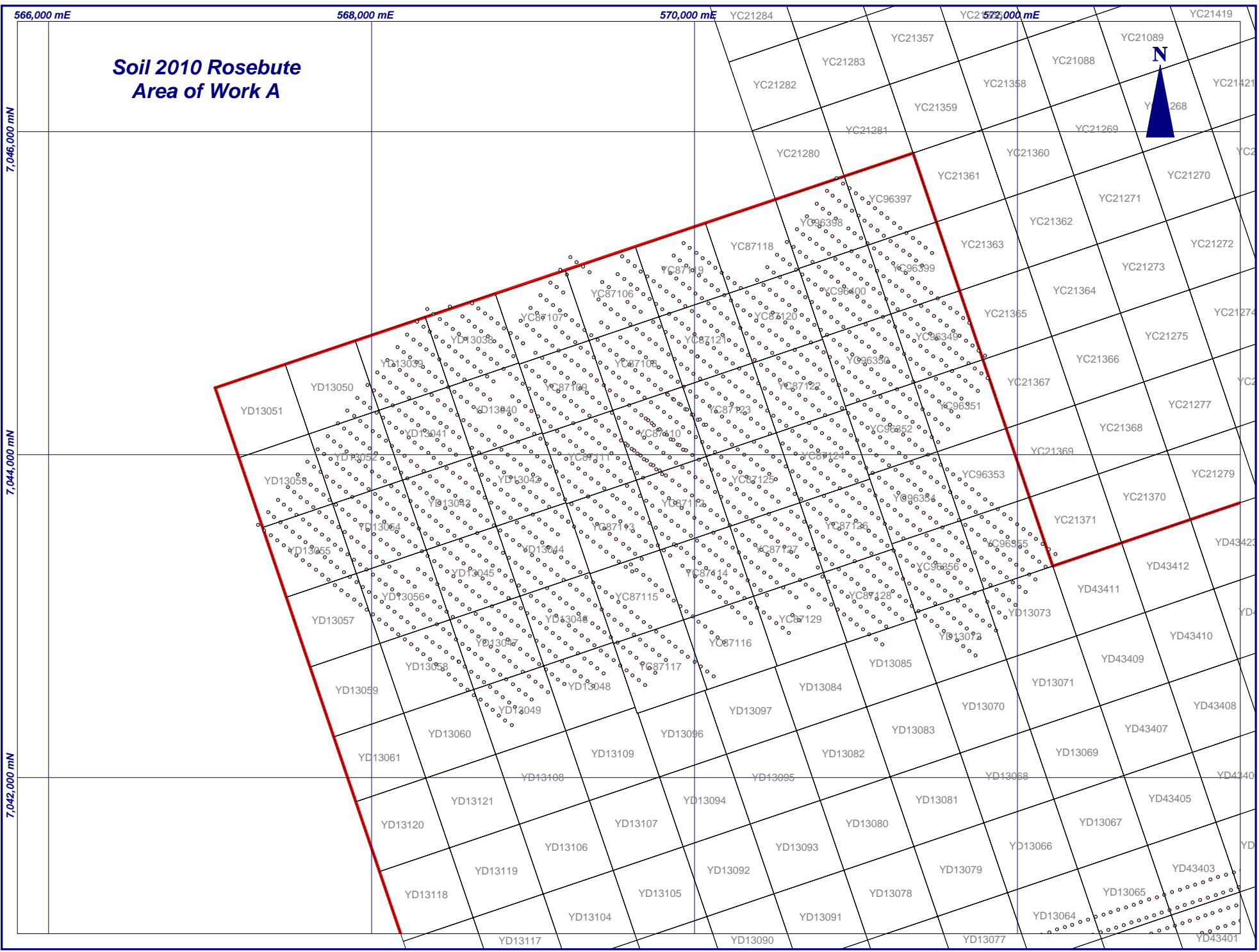
GEOP Rosebute 2010

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			Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Other	Total
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Precision Geosurveys	1015	2-Dec-10	70,137.00								70,137.00
Total			70,137.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70,137.00
										Check	70,137.00
										Diff	0.00

**Airborne & Soil
2010 Rosebute
Area of Work**



Soil 2010 Rosebute Area of Work A



566,000 mE 568,000 mE 570,000 mE 572,000 mE 574,000 mE

7,046,000 mN

7,044,000 mN

7,042,000 mN

YC21284 YC21357 YC21088 YC21419

YC21283 YC21088 YC21421

YC21282 YC21358 YC21269

YC21281 YC21359 YC21269

YC21280 YC21360 YC21270

YC96397 YC21361 YC21271

YC96398 YC21362 YC21272

YC87118 YC21363 YC21273

YC87106 YC96399 YC21364 YC21275

YC87107 YC87120 YC21365 YC21277

YC87108 YC87121 YC21366 YC21279

YC87109 YC87122 YC21367 YC21370

YC87110 YC87123 YC21368 YC21371

YC87111 YC87124 YC21369 YD43411

YC87112 YC87125 YC96353 YD43412

YC87113 YC87126 YC96354 YD43410

YC87114 YC87127 YC96355 YD43409

YC87115 YC87128 YC96356 YD43408

YC87116 YC87129 YD13073 YD43407

YD13085 YD43411 YD43410

YD13084 YD13071 YD43409

YD13097 YD13070 YD43408

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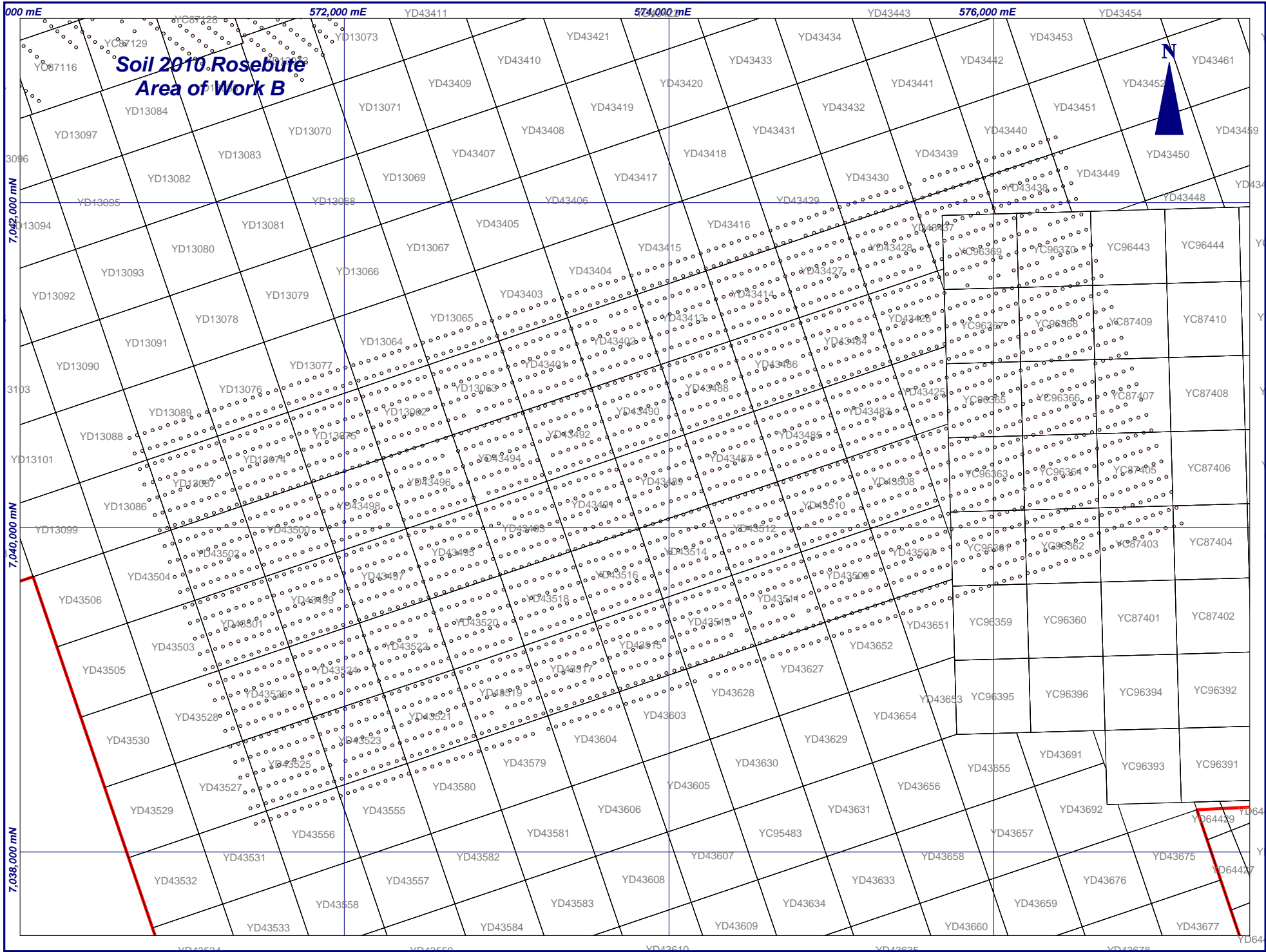
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YD13093 YD13079 YD13065

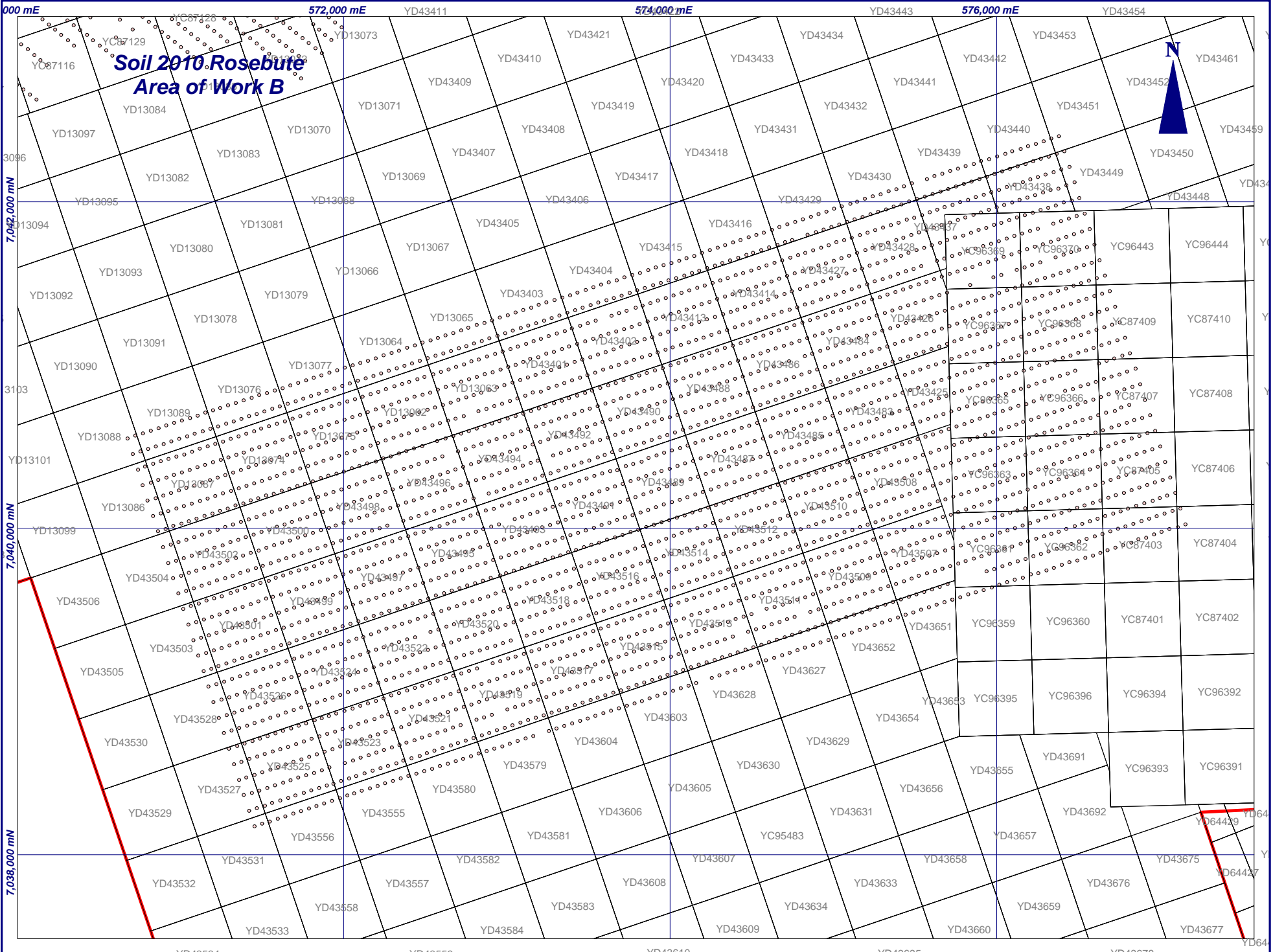
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YD13091 YD13077 YD43403

YD13090 YD13077 YD43401



**Soil 2010 Rosebute
Area of Work B**



Appendix B – Sample Locations and Descriptions (Volume II)

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10141815	03/10/2010	GroundTruth_TR	569608	7043025	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10141816	03/10/2010	GroundTruth_TR	569647	7042993	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10141817	03/10/2010	GroundTruth_TR	569686	7042963	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10141818	03/10/2010	GroundTruth_TR	569725	7042934	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10141819	03/10/2010	GroundTruth_TR	569763	7042904	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Excellent	ForestWhiteSpruce
10141820	03/10/2010	GroundTruth_TR	569803	7042873	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	50		Good	ForestWhiteSpruce
10141821	03/10/2010	GroundTruth_TR	569843	7042841	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Excellent	ForestWhiteSpruce
10141822	03/10/2010	GroundTruth_TR	569882	7042811	UTMZ7N_WGS84		Grey	Silt	Flat	C	40		Good	ForestWhiteSpruce
10141823	03/10/2010	GroundTruth_TR	569921	7042779	UTMZ7N_WGS84		Grey	Sand	Flat	C	50		Good	ForestWhiteSpruce
10100732	05/07/2010	GroundTruth_JJ	571284	7043873	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10100733	05/07/2010	GroundTruth_JJ	571324	7043841	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10102844	05/07/2010	GroundTruth_MD	570203	7044845	UTMZ7N_WGS84		RustyOrange	Silt	Moderate	C	80		Good	ForestBlackSpruce
10102845	05/07/2010	GroundTruth_MD	570242	7044814	UTMZ7N_WGS84		Orange	Silt	Moderate	C	90		Good	ForestBlackSpruce
10102846	05/07/2010	GroundTruth_MD	570284	7044785	UTMZ7N_WGS84		Orange	Silt	Moderate	C	60		Good	ForestBlackSpruce
10102847	05/07/2010	GroundTruth_MD	570322	7044751	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10102848	05/07/2010	GroundTruth_MD	570360	7044723	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10102849	05/07/2010	GroundTruth_MD	570401	7044690	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10102850	05/07/2010	GroundTruth_MD	570443	7044661	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10103925	05/07/2010	GroundTruth_JC	570943	7043760	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10103926	05/07/2010	GroundTruth_JC	570979	7043730	UTMZ7N_WGS84		BrownDark		Moderate	C	110	Wet	Good	ForestWhiteSpruce
10103927	05/07/2010	GroundTruth_JC	571021	7043700	UTMZ7N_WGS84		BrownDark		Moderate	C	90	Wet	Good	ForestWhiteSpruce
10103928	05/07/2010	GroundTruth_JC	571057	7043670	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10103929	05/07/2010	GroundTruth_JC	571098	7043637	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Excellent	ForestWhiteSpruce
10103931	05/07/2010	GroundTruth_JC	571138	7043606	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10104333	05/07/2010	GroundTruth_MD	570481	7044630	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10104334	05/07/2010	GroundTruth_MD	570519	7044598	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	80		Good	ForestWhiteSpruce
10104335	05/07/2010	GroundTruth_MD	570556	7044568	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	90		Good	ForestWhiteSpruce
10104336	05/07/2010	GroundTruth_MD	570594	7044541	UTMZ7N_WGS84		BrownLight	Silt	Steep	C	100		Good	ForestWhiteSpruce
10104337	05/07/2010	GroundTruth_MD	570636	7044508	UTMZ7N_WGS84		Orange	Sand	Steep	C	30		Good	ForestAspen
10104338	05/07/2010	GroundTruth_MD	570676	7044474	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10104339	05/07/2010	GroundTruth_MD	570717	7044443	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Good	ForestAspen
10104340	05/07/2010	GroundTruth_MD	570757	7044411	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	100		Good	ForestWhiteSpruce
10104341	05/07/2010	GroundTruth_MD	570794	7044382	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10104342	05/07/2010	GroundTruth_MD	570836	7044350	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10104343	05/07/2010	GroundTruth_MD	570875	7044319	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10104344	05/07/2010	GroundTruth_MD	570913	7044288	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10104345	05/07/2010	GroundTruth_MD	570953	7044257	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10104346	05/07/2010	GroundTruth_MD	570991	7044229	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10104347	05/07/2010	GroundTruth_MD	571035	7044194	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10104348	05/07/2010	GroundTruth_MD	571072	7044167	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10104349	05/07/2010	GroundTruth_MD	571108	7044138	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10104350	05/07/2010	GroundTruth_MD	571149	7044108	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10104351	05/07/2010	GroundTruth_MD	571187	7044076	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10104352	05/07/2010	GroundTruth_MD	571227	7044045	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10104353	05/07/2010	GroundTruth_MD	571267	7044011	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10104354	05/07/2010	GroundTruth_MD	571306	7043985	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10104355	05/07/2010	GroundTruth_MD	571345	7043949	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10104356	05/07/2010	GroundTruth_MD	571385	7043922	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10105581	01/10/2010	GroundTruth_DB	571228	7044936	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10105582	01/10/2010	GroundTruth_DB	571258	7044901	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10105583	01/10/2010	GroundTruth_DB	571301	7044870	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBirch
10105584	01/10/2010	GroundTruth_DB	571339	7044841	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10105585	01/10/2010	GroundTruth_DB	571381	7044808	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10105586	01/10/2010	GroundTruth_DB	571419	7044779	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBirch
10105587	01/10/2010	GroundTruth_DB	571460	7044749	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10105588	01/10/2010	GroundTruth_DB	571499	7044718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBirch
10105589	01/10/2010	GroundTruth_DB	571543	7044686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10105590	01/10/2010	GroundTruth_DB	571579	7044658	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10105591	01/10/2010	GroundTruth_DB	571620	7044629	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10105592	01/10/2010	GroundTruth_DB	571657	7044596	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10105593	01/10/2010	GroundTruth_DB	571697	7044566	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10105594	01/10/2010	GroundTruth_DB	571736	7044534	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10105717	27/06/2010	GroundTruth_CC	578563	7039907	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	BurnOld
10105718	27/06/2010	GroundTruth_CC	578563	7039958	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	BurnOld
10105719	27/06/2010	GroundTruth_CC	578562	7040009	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	BurnOld
10105720	27/06/2010	GroundTruth_CC	578560	7040058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	BurnOld
10105721	27/06/2010	GroundTruth_CC	578562	7040108	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10105722	27/06/2010	GroundTruth_CC	578560	7040158	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	BurnOld
10105723	27/06/2010	GroundTruth_CC	578559	7040209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	BurnOld
10105724	27/06/2010	GroundTruth_CC	578559	7040258	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	BurnOld
10105725	27/06/2010	GroundTruth_CC	578560	7040309	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	BurnOld
10105726	27/06/2010	GroundTruth_CC	578561	7040357	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	BurnOld
10105727	27/06/2010	GroundTruth_CC	578560	7040408	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	100		Excellent	BurnOld
10105728	27/06/2010	GroundTruth_CC	578559	7040459	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	BurnOld
10105729	27/06/2010	GroundTruth_CC	578559	7040508	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105730	27/06/2010	GroundTruth_CC	578560	7040558	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	BurnOld
10105731	27/06/2010	GroundTruth_CC	578559	7040608	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	BurnOld
10105732	27/06/2010	GroundTruth_CC	578561	7040659	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	BurnOld
10105733	27/06/2010	GroundTruth_CC	578561	7040707	UTMZ7N_WGS84		Orange	Sand	Moderate	B	40		Good	BurnOld
10105734	27/06/2010	GroundTruth_CC	578561	7040757	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	60		Good	BurnOld
10105735	27/06/2010	GroundTruth_CC	578562	7040810	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105736	27/06/2010	GroundTruth_CC	578561	7040859	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	BurnOld
10105737	27/06/2010	GroundTruth_CC	578561	7040908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105738	27/06/2010	GroundTruth_CC	578561	7040959	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105739	27/06/2010	GroundTruth_CC	578561	7041009	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105740	27/06/2010	GroundTruth_CC	578562	7041059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105741	27/06/2010	GroundTruth_CC	578562	7041110	UTMZ7N_WGS84		Orange	Sand	Moderate	B	80		Excellent	BurnOld
10105742	27/06/2010	GroundTruth_CC	578563	7041160	UTMZ7N_WGS84		Orange	Sand	Moderate	B	40		Good	BurnOld
10105743	27/06/2010	GroundTruth_CC	578563	7041209	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	60		Good	BurnOld
10105744	27/06/2010	GroundTruth_CC	578563	7041259	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105745	27/06/2010	GroundTruth_CC	578562	7041309	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105747	27/06/2010	GroundTruth_CC	578564	7041359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105749	27/06/2010	GroundTruth_CC	578563	7041408	UTMZ7N_WGS84		Orange	Sand	Moderate	C	40		Excellent	BurnOld
10105768	27/06/2010	GroundTruth_DB	578365	7039907	UTMZ7N_WGS84		BrownDark		Moderate	B	30	Frozen	Poor	DrainageBrush
10105769	27/06/2010	GroundTruth_DB	578361	7039957	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	DrainageBrush
10105770	27/06/2010	GroundTruth_DB	578361	7040008	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	DrainageBrush
10105771	27/06/2010	GroundTruth_DB	578361	7040058	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40		Poor	DrainageBrush
10105772	27/06/2010	GroundTruth_DB	578362	7040108	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	30		Poor	DrainageBrush
10105773	27/06/2010	GroundTruth_DB	578360	7040158	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	DrainageBrush
10105774	27/06/2010	GroundTruth_DB	578361	7040208	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	40		Poor	DrainageBrush
10105775	27/06/2010	GroundTruth_DB	578359	7040259	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	DrainageBrush
10105776	27/06/2010	GroundTruth_DB	578360	7040308	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	DrainageBrush
10105777	27/06/2010	GroundTruth_DB	578360	7040358	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	DrainageBrush
10105778	27/06/2010	GroundTruth_DB	578358	7040409	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	20		Poor	DrainageBrush
10105779	27/06/2010	GroundTruth_DB	578359	7040459	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	DrainageBrush
10105780	27/06/2010	GroundTruth_DB	578358	7040507	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	DrainageBrush
10105781	27/06/2010	GroundTruth_DB	578358	7040559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestMixed
10105782	27/06/2010	GroundTruth_DB	578358	7040608	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	20		Poor	ForestMixed
10105783	27/06/2010	GroundTruth_DB	578358	7040658	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	20		Poor	ForestMixed
10105784	27/06/2010	GroundTruth_DB	578361	7040707	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	20		Good	ForestMixed

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10105785	27/06/2010	GroundTruth_DB	578359	7040758	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	ForestMixed
10105786	27/06/2010	GroundTruth_DB	578359	7040808	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Poor	ForestMixed
10105787	27/06/2010	GroundTruth_DB	578360	7040859	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	20		Poor	ForestMixed
10105788	27/06/2010	GroundTruth_DB	578360	7040908	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	20		Poor	ForestMixed
10105789	27/06/2010	GroundTruth_DB	578361	7040957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	ForestMixed
10105790	27/06/2010	GroundTruth_DB	578360	7041008	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	ForestMixed
10105791	27/06/2010	GroundTruth_DB	578359	7041058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Poor	DrainageBrush
10105792	27/06/2010	GroundTruth_DB	578362	7041109	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	30		Poor	DrainageBrush
10105793	27/06/2010	GroundTruth_DB	578360	7041158	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	DrainageBrush
10105794	27/06/2010	GroundTruth_DB	578362	7041209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	DrainageBrush
10105795	27/06/2010	GroundTruth_DB	578364	7041259	UTMZ7N_WGS84		Black	Sand	Moderate	B	40		Poor	ForestBlackSpruce
10105796	27/06/2010	GroundTruth_DB	578364	7041309	UTMZ7N_WGS84		Grey	Sand	Moderate	B	30	Frozen	Poor	ForestBlackSpruce
10105797	27/06/2010	GroundTruth_DB	578362	7041358	UTMZ7N_WGS84		Grey	Sand	Moderate	B	30		Poor	ForestBlackSpruce
10105799	27/06/2010	GroundTruth_DB	578363	7041408	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10105946	27/06/2010	GroundTruth_CP	578164	7039908	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	70		Excellent	ForestMixed
10105947	27/06/2010	GroundTruth_CP	578163	7039958	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestMixed
10105948	27/06/2010	GroundTruth_CP	578161	7040008	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	40		Good	ForestMixed
10105949	27/06/2010	GroundTruth_CP	578162	7040058	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	50		Excellent	ForestMixed
10105950	27/06/2010	GroundTruth_CP	578161	7040109	UTMZ7N_WGS84		RustyRed	Sand	Flat	B	50		Excellent	ForestMixed
10105951	27/06/2010	GroundTruth_CP	578161	7040159	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	40		Good	ForestMixed
10105952	27/06/2010	GroundTruth_CP	578160	7040208	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestMixed
10105953	27/06/2010	GroundTruth_CP	578161	7040259	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	100		Excellent	ForestMixed
10105954	27/06/2010	GroundTruth_CP	578160	7040308	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestMixed
10105955	27/06/2010	GroundTruth_CP	578160	7040360	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	50		Good	ForestMixed
10105956	27/06/2010	GroundTruth_CP	578160	7040409	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	50		Good	ForestMixed
10105957	27/06/2010	GroundTruth_CP	578159	7040458	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105958	27/06/2010	GroundTruth_CP	578159	7040509	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105959	27/06/2010	GroundTruth_CP	578158	7040557	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	BurnOld
10105960	27/06/2010	GroundTruth_CP	578157	7040608	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105962	27/06/2010	GroundTruth_CP	578158	7040659	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Poor	BurnOld
10105963	27/06/2010	GroundTruth_CP	578158	7040707	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Frozen	Good	BurnOld
10105964	27/06/2010	GroundTruth_CP	578159	7040757	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105965	27/06/2010	GroundTruth_CP	578159	7040807	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105966	27/06/2010	GroundTruth_CP	578159	7040858	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	BurnOld
10105967	27/06/2010	GroundTruth_CP	578159	7040908	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	B	80		Excellent	BurnOld
10105968	27/06/2010	GroundTruth_CP	578160	7040957	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	B	60		Good	BurnOld
10105969	27/06/2010	GroundTruth_CP	578161	7041007	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	B	50		Good	BurnOld
10105970	27/06/2010	GroundTruth_CP	578161	7041058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	BurnOld
10105971	27/06/2010	GroundTruth_CP	578160	7041108	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	BurnOld
10105972	27/06/2010	GroundTruth_CP	578161	7041159	UTMZ7N_WGS84		BrownDark		Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10105973	27/06/2010	GroundTruth_CP	578161	7041208	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10105974	27/06/2010	GroundTruth_CP	578162	7041258	UTMZ7N_WGS84		BrownDark		Moderate	B	40	Frozen	Good	ForestBlackSpruce
10105975	27/06/2010	GroundTruth_CP	578163	7041307	UTMZ7N_WGS84		RustyOrange		Moderate	C	110	Frozen	Good	ForestAspen
10105976	27/06/2010	GroundTruth_CP	578163	7041358	UTMZ7N_WGS84		RustyOrange		Moderate	C	70	Frozen	Excellent	ForestAspen
10105977	27/06/2010	GroundTruth_CP	578162	7041409	UTMZ7N_WGS84		RustyOrange		Moderate	B	30	Frozen	Poor	ForestBlackSpruce
10108367	05/07/2010	GroundTruth_JC	569955	7044532	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10108368	05/07/2010	GroundTruth_JC	569993	7044501	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108369	05/07/2010	GroundTruth_JC	570034	7044470	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10108370	05/07/2010	GroundTruth_JC	570074	7044440	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10108371	05/07/2010	GroundTruth_JC	570112	7044409	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10108372	05/07/2010	GroundTruth_JC	570153	7044378	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108373	05/07/2010	GroundTruth_JC	570193	7044347	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108374	05/07/2010	GroundTruth_JC	570231	7044315	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10108375	05/07/2010	GroundTruth_JC	570272	7044283	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Excellent	ForestWhiteSpruce
10108376	05/07/2010	GroundTruth_JC	570312	7044256	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10108377	05/07/2010	GroundTruth_JC	570350	7044223	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	100		Excellent	ForestWhiteSpruce
10108378	05/07/2010	GroundTruth_JC	570390	7044192	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestWhiteSpruce
10108379	05/07/2010	GroundTruth_JC	570426	7044164	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	80		Good	ForestWhiteSpruce
10108380	05/07/2010	GroundTruth_JC	570467	7044130	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestWhiteSpruce
10108381	05/07/2010	GroundTruth_JC	570546	7044069	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	70		Excellent	ForestWhiteSpruce
10108382	05/07/2010	GroundTruth_JC	570584	7044038	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108383	05/07/2010	GroundTruth_JC	570626	7044006	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10108384	05/07/2010	GroundTruth_JC	570667	7043977	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108385	05/07/2010	GroundTruth_JC	570704	7043946	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Good	ForestWhiteSpruce
10108386	05/07/2010	GroundTruth_JC	570743	7043915	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	80		Excellent	ForestAspen
10108387	05/07/2010	GroundTruth_JC	570783	7043885	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	70		Excellent	ForestAspen
10108388	05/07/2010	GroundTruth_JC	570825	7043854	UTMZ7N_WGS84		Yellow	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108389	05/07/2010	GroundTruth_JC	570862	7043821	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10108390	05/07/2010	GroundTruth_JC	570900	7043792	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10108721	05/07/2010	GroundTruth_JJ	570141	7044766	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10108722	05/07/2010	GroundTruth_JJ	570174	7044742	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10108723	05/07/2010	GroundTruth_JJ	570213	7044709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10108724	05/07/2010	GroundTruth_JJ	570254	7044679	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10108725	05/07/2010	GroundTruth_JJ	570293	7044648	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10108726	05/07/2010	GroundTruth_JJ	570332	7044617	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10108727	05/07/2010	GroundTruth_JJ	570372	7044587	UTMZ7N_WGS84		Grey	Silt	Moderate	C	60		Good	ForestBlackSpruce
10108728	05/07/2010	GroundTruth_JJ	570412	7044556	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestBlackSpruce
10108729	05/07/2010	GroundTruth_JJ	570450	7044525	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10108730	05/07/2010	GroundTruth_JJ	570491	7044494	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10108731	05/07/2010	GroundTruth_JJ	570528	7044462	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	90		Good	ForestWhiteSpruce
10108732	05/07/2010	GroundTruth_JJ	570565	7044431	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	90		Good	ForestWhiteSpruce
10108733	05/07/2010	GroundTruth_JJ	570609	7044401	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestWhiteSpruce
10108734	05/07/2010	GroundTruth_JJ	570648	7044369	UTMZ7N_WGS84		Orange	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10108735	05/07/2010	GroundTruth_JJ	570687	7044340	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10108736	05/07/2010	GroundTruth_JJ	570732	7044306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10108737	05/07/2010	GroundTruth_JJ	570770	7044274	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10108738	05/07/2010	GroundTruth_JJ	570809	7044244	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10108739	05/07/2010	GroundTruth_JJ	570850	7044213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108740	05/07/2010	GroundTruth_JJ	570889	7044181	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108741	05/07/2010	GroundTruth_JJ	570930	7044151	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10108742	05/07/2010	GroundTruth_JJ	570969	7044120	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBirch
10108743	05/07/2010	GroundTruth_JJ	571007	7044089	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108745	05/07/2010	GroundTruth_JJ	571047	7044059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10108746	05/07/2010	GroundTruth_JJ	571088	7044027	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10108747	05/07/2010	GroundTruth_JJ	571126	7043996	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108748	05/07/2010	GroundTruth_JJ	571165	7043964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10108749	05/07/2010	GroundTruth_JJ	571204	7043934	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10108750	05/07/2010	GroundTruth_JJ	571245	7043906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10108848	05/07/2010	GroundTruth_RR	570080	7044688	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70	Wet	Excellent	ForestWhiteSpruce
10108849	05/07/2010	GroundTruth_RR	570120	7044660	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108850	05/07/2010	GroundTruth_RR	570159	7044627	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10108851	05/07/2010	GroundTruth_RR	570197	7044595	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10108852	05/07/2010	GroundTruth_RR	570237	7044565	UTMZ7N_WGS84	TalusFine	BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10108853	05/07/2010	GroundTruth_RR	570277	7044533	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10108854	05/07/2010	GroundTruth_RR	570316	7044502	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10108855	05/07/2010	GroundTruth_RR	570356	7044473	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10108856	05/07/2010	GroundTruth_RR	570395	7044442	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108857	05/07/2010	GroundTruth_RR	570435	7044410	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10108858	05/07/2010	GroundTruth_RR	570474	7044381	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10108859	05/07/2010	GroundTruth_RR	570513	7044348	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80	Wet	Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10108860	05/07/2010	GroundTruth_RR	570554	7044317	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestWhiteSpruce
10108861	05/07/2010	GroundTruth_RR	570592	7044288	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	80		Excellent	ForestWhiteSpruce
10108863	05/07/2010	GroundTruth_RR	570633	7044257	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10108864	05/07/2010	GroundTruth_RR	570670	7044226	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10108865	05/07/2010	GroundTruth_RR	570710	7044196	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10108866	05/07/2010	GroundTruth_RR	570749	7044164	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	90		Good	ForestWhiteSpruce
10108867	05/07/2010	GroundTruth_RR	570789	7044133	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Excellent	ForestWhiteSpruce
10108868	05/07/2010	GroundTruth_RR	570832	7044101	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10108869	05/07/2010	GroundTruth_RR	570870	7044071	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108870	05/07/2010	GroundTruth_RR	570908	7044041	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108871	05/07/2010	GroundTruth_RR	570946	7044012	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10108872	05/07/2010	GroundTruth_RR	570984	7043980	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10108873	05/07/2010	GroundTruth_RR	571025	7043950	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108874	05/07/2010	GroundTruth_RR	571064	7043918	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10108875	05/07/2010	GroundTruth_RR	571103	7043887	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10108876	05/07/2010	GroundTruth_RR	571143	7043857	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10108877	05/07/2010	GroundTruth_RR	571183	7043826	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10108878	05/07/2010	GroundTruth_RR	571222	7043795	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10108879	05/07/2010	GroundTruth_RR	571263	7043764	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10111921	02/10/2010	GroundTruth_GD	571475	7043471	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestWhiteSpruce
10111922	02/10/2010	GroundTruth_GD	571513	7043440	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestAspen
10111924	02/10/2010	GroundTruth_GD	571554	7043408	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestAspen
10111925	03/10/2010	GroundTruth_GD	569733	7043434	UTMZ7N_WGS84		RustyRed		Moderate	C	70		Excellent	ForestWhiteSpruce
10111926	03/10/2010	GroundTruth_GD	569697	7043464	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10111927	03/10/2010	GroundTruth_GD	569657	7043496	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestWhiteSpruce
10111928	03/10/2010	GroundTruth_GD	569618	7043527	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestWhiteSpruce
10111929	03/10/2010	GroundTruth_GD	569578	7043555	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10140533	05/10/2010	GroundTruth_TR	568483	7042889	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10140534	05/10/2010	GroundTruth_TR	568523	7042856	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10140568	01/10/2010	GroundTruth_TR	570972	7045260	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10140569	01/10/2010	GroundTruth_TR	571010	7045229	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10140570	01/10/2010	GroundTruth_TR	571051	7045198	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10140571	01/10/2010	GroundTruth_TR	571090	7045168	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10140572	01/10/2010	GroundTruth_TR	571130	7045138	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestWhiteSpruce
10141710	01/10/2010	GroundTruth_TR	570696	7045476	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10141711	01/10/2010	GroundTruth_TR	570736	7045444	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10141712	01/10/2010	GroundTruth_TR	570774	7045414	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10141713	01/10/2010	GroundTruth_TR	570813	7045383	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10141714	01/10/2010	GroundTruth_TR	570854	7045353	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10141715	01/10/2010	GroundTruth_TR	570893	7045322	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10141716	01/10/2010	GroundTruth_TR	570932	7045291	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10141717	28/09/2010	GroundTruth_TR	569772	7044293	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Excellent	ForestWhiteSpruce
10141718	28/09/2010	GroundTruth_TR	569811	7044264	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Good	ForestWhiteSpruce
10141719	28/09/2010	GroundTruth_TR	569849	7044232	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestWhiteSpruce
10141720	28/09/2010	GroundTruth_TR	569889	7044202	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141721	28/09/2010	GroundTruth_TR	569929	7044170	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141722	28/09/2010	GroundTruth_TR	569967	7044139	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141723	28/09/2010	GroundTruth_TR	570008	7044109	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141724	28/09/2010	GroundTruth_TR	570048	7044078	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10141725	28/09/2010	GroundTruth_TR	570086	7044047	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141726	28/09/2010	GroundTruth_TR	570127	7044016	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90		Good	ForestWhiteSpruce
10141727	28/09/2010	GroundTruth_TR	570166	7043985	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141728	28/09/2010	GroundTruth_TR	570205	7043954	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141729	28/09/2010	GroundTruth_TR	570244	7043924	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141730	28/09/2010	GroundTruth_TR	570284	7043892	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10141731	28/09/2010	GroundTruth_TR	570323	7043862	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141732	28/09/2010	GroundTruth_TR	570363	7043830	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10141733	28/09/2010	GroundTruth_TR	570400	7043801	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141734	28/09/2010	GroundTruth_TR	570441	7043770	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141735	28/09/2010	GroundTruth_TR	570481	7043740	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10141736	28/09/2010	GroundTruth_TR	570519	7043709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141737	28/09/2010	GroundTruth_TR	570598	7043647	UTMZ7N_WGS84		Black	Sand	Flat	C	110		Poor	ForestWhiteSpruce
10141738	28/09/2010	GroundTruth_TR	570639	7043616	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141739	28/09/2010	GroundTruth_TR	570679	7043585	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10141741	28/09/2010	GroundTruth_TR	570717	7043555	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141743	28/09/2010	GroundTruth_TR	570757	7043524	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10141744	28/09/2010	GroundTruth_TR	570795	7043492	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141745	28/09/2010	GroundTruth_TR	570837	7043462	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10141746	28/09/2010	GroundTruth_TR	570874	7043432	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10141748	28/09/2010	GroundTruth_TR	570914	7043400	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10141749	28/09/2010	GroundTruth_TR	570953	7043370	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10141750	29/09/2010	GroundTruth_TR	570511	7045238	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10141751	29/09/2010	GroundTruth_TR	570549	7045209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10141752	29/09/2010	GroundTruth_TR	570590	7045178	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10141753	29/09/2010	GroundTruth_TR	570629	7045146	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBirch
10141754	29/09/2010	GroundTruth_TR	570668	7045116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141755	29/09/2010	GroundTruth_TR	570705	7045084	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141756	29/09/2010	GroundTruth_TR	570747	7045054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141757	29/09/2010	GroundTruth_TR	570787	7045023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141758	29/09/2010	GroundTruth_TR	570825	7044992	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141759	29/09/2010	GroundTruth_TR	570865	7044961	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141760	29/09/2010	GroundTruth_TR	570904	7044930	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141761	29/09/2010	GroundTruth_TR	570945	7044900	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141762	29/09/2010	GroundTruth_TR	570984	7044869	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10141763	29/09/2010	GroundTruth_TR	571024	7044838	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10141764	29/09/2010	GroundTruth_TR	571061	7044807	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10141765	29/09/2010	GroundTruth_TR	571103	7044776	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10141766	29/09/2010	GroundTruth_TR	571139	7044746	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10141767	29/09/2010	GroundTruth_TR	571179	7044716	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141768	29/09/2010	GroundTruth_TR	571220	7044685	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141769	29/09/2010	GroundTruth_TR	571258	7044656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141770	29/09/2010	GroundTruth_TR	571298	7044623	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141772	29/09/2010	GroundTruth_TR	571337	7044593	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141773	29/09/2010	GroundTruth_TR	571376	7044563	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10141774	29/09/2010	GroundTruth_TR	571416	7044531	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141775	29/09/2010	GroundTruth_TR	571456	7044501	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10141776	29/09/2010	GroundTruth_TR	571495	7044470	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Poor	ForestWhiteSpruce
10141777	29/09/2010	GroundTruth_TR	571535	7044440	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141778	29/09/2010	GroundTruth_TR	571574	7044408	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10141779	29/09/2010	GroundTruth_TR	571613	7044378	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141780	29/09/2010	GroundTruth_TR	571653	7044347	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141781	29/09/2010	GroundTruth_TR	571692	7044315	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10141782	01/10/2010	GroundTruth_TR	571170	7045105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10141783	01/10/2010	GroundTruth_TR	571208	7045075	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141784	01/10/2010	GroundTruth_TR	571248	7045044	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141785	01/10/2010	GroundTruth_TR	571286	7045015	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141786	01/10/2010	GroundTruth_TR	571326	7044983	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141787	01/10/2010	GroundTruth_TR	571365	7044951	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141788	01/10/2010	GroundTruth_TR	571404	7044921	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141789	01/10/2010	GroundTruth_TR	571445	7044891	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10141790	01/10/2010	GroundTruth_TR	571483	7044859	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	100		Good	ForestWhiteSpruce
10141791	01/10/2010	GroundTruth_TR	571522	7044830	UTMZ7N_WGS84		BrownDark	Clay	Flat	C	60		Good	ForestBlackSpruce
10141792	01/10/2010	GroundTruth_TR	571562	7044799	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10141793	01/10/2010	GroundTruth_TR	571603	7044767	UTMZ7N_WGS84		Black	Sand	Moderate	C	110	Frozen	Good	ForestWhiteSpruce
10141794	01/10/2010	GroundTruth_TR	571641	7044736	UTMZ7N_WGS84		Grey	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10141795	01/10/2010	GroundTruth_TR	571681	7044706	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141797	01/10/2010	GroundTruth_TR	571722	7044676	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10141798	01/10/2010	GroundTruth_TR	571759	7044644	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10141800	01/10/2010	GroundTruth_TR	571799	7044613	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10141801	03/10/2010	GroundTruth_TR	569094	7043427	UTMZ7N_WGS84		RustyOrange	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10141802	03/10/2010	GroundTruth_TR	569134	7043396	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Excellent	ForestWhiteSpruce
10141803	03/10/2010	GroundTruth_TR	569174	7043364	UTMZ7N_WGS84		Grey	Silt	Moderate	C	30		Good	ForestWhiteSpruce
10141804	03/10/2010	GroundTruth_TR	569213	7043333	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10141805	03/10/2010	GroundTruth_TR	569252	7043303	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10141806	03/10/2010	GroundTruth_TR	569292	7043272	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10141807	03/10/2010	GroundTruth_TR	569331	7043241	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141808	03/10/2010	GroundTruth_TR	569372	7043209	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestWhiteSpruce
10141809	03/10/2010	GroundTruth_TR	569410	7043179	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10141810	03/10/2010	GroundTruth_TR	569450	7043148	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10141811	03/10/2010	GroundTruth_TR	569489	7043118	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10141813	03/10/2010	GroundTruth_TR	569529	7043087	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestAspen
10141814	03/10/2010	GroundTruth_TR	569569	7043057	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	40		Good	ForestAspen
10141824	03/10/2010	GroundTruth_TR	569959	7042748	UTMZ7N_WGS84		Grey	Silt	Moderate	C	60		Good	ForestAspen
10141825	03/10/2010	GroundTruth_TR	570001	7042717	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestAspen
10141826	03/10/2010	GroundTruth_TR	570039	7042688	UTMZ7N_WGS84		Grey	Sand	Steep	C	70		Good	ForestAspen
10141827	03/10/2010	GroundTruth_TR	570079	7042657	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	40		Good	ForestMixed
10141828	03/10/2010	GroundTruth_TR	570119	7042627	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	40		Good	ForestAspen
10141829	05/10/2010	GroundTruth_TR	567421	7043719	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141830	05/10/2010	GroundTruth_TR	567457	7043691	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10141831	05/10/2010	GroundTruth_TR	567497	7043660	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141832	05/10/2010	GroundTruth_TR	567535	7043627	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147061	05/10/2010	GroundTruth_AW	567756	7043582	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147062	05/10/2010	GroundTruth_AW	567795	7043551	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147063	05/10/2010	GroundTruth_AW	567834	7043521	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBirch
10147064	05/10/2010	GroundTruth_AW	567875	7043488	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBirch
10147065	05/10/2010	GroundTruth_AW	567912	7043460	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBirch
10147066	05/10/2010	GroundTruth_AW	567951	7043429	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestBlackSpruce
10147067	05/10/2010	GroundTruth_AW	567992	7043397	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10147068	05/10/2010	GroundTruth_AW	568030	7043366	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10147069	05/10/2010	GroundTruth_AW	568070	7043337	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Poor	ForestBlackSpruce
10151798	30/09/2010	GroundTruth_JM	570423	7043909	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10151799	30/09/2010	GroundTruth_JM	570463	7043881	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90	Wet	Good	ForestBlackSpruce
10151800	30/09/2010	GroundTruth_JM	570503	7043848	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10151801	30/09/2010	GroundTruth_JM	570580	7043786	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10151802	30/09/2010	GroundTruth_JM	570620	7043756	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestBlackSpruce
10151803	30/09/2010	GroundTruth_JM	570661	7043726	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBlackSpruce
10151804	30/09/2010	GroundTruth_JM	570701	7043694	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10151805	30/09/2010	GroundTruth_JM	570739	7043664	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10151806	30/09/2010	GroundTruth_JM	570779	7043634	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestAspen
10151807	30/09/2010	GroundTruth_JM	570818	7043602	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Excellent	ForestAspen
10151808	30/09/2010	GroundTruth_JM	570858	7043571	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Good	ForestAspen
10151809	30/09/2010	GroundTruth_JM	570897	7043541	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10151810	30/09/2010	GroundTruth_JM	570939	7043512	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Excellent	ForestBlackSpruce
10151811	30/09/2010	GroundTruth_JM	570976	7043480	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10151813	30/09/2010	GroundTruth_JM	571014	7043448	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10141833	05/10/2010	GroundTruth_TR	567576	7043598	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141834	05/10/2010	GroundTruth_TR	567614	7043568	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestWhiteSpruce
10141835	05/10/2010	GroundTruth_TR	567654	7043536	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141836	05/10/2010	GroundTruth_TR	567693	7043505	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141837	05/10/2010	GroundTruth_TR	567733	7043474	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10141838	05/10/2010	GroundTruth_TR	567773	7043442	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Excellent	ForestBirch
10141839	05/10/2010	GroundTruth_TR	567811	7043412	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Excellent	ForestBirch
10141840	05/10/2010	GroundTruth_TR	567851	7043382	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10141841	05/10/2010	GroundTruth_TR	567891	7043349	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10141842	05/10/2010	GroundTruth_TR	567929	7043319	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10141843	05/10/2010	GroundTruth_TR	567969	7043289	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90		Good	ForestWhiteSpruce
10141844	05/10/2010	GroundTruth_TR	568009	7043257	UTMZ7N_WGS84		Grey	Clay	Moderate	C	60		Poor	ForestWhiteSpruce
10141845	05/10/2010	GroundTruth_TR	568049	7043225	UTMZ7N_WGS84		Black	Gravel	Moderate	C	90		Good	ForestWhiteSpruce
10141846	05/10/2010	GroundTruth_TR	568087	7043196	UTMZ7N_WGS84		Black	Gravel	Moderate	B	80		Poor	ForestWhiteSpruce
10141847	05/10/2010	GroundTruth_TR	568128	7043166	UTMZ7N_WGS84		Black	Gravel	Moderate	B	80		Good	ForestWhiteSpruce
10141848	05/10/2010	GroundTruth_TR	568167	7043134	UTMZ7N_WGS84		Black	Clay	Moderate	B	80	Wet	Poor	ForestBlackSpruce
10141849	05/10/2010	GroundTruth_TR	568245	7043073	UTMZ7N_WGS84		Black	Clay	Moderate	B	40		Poor	ForestBlackSpruce
10141850	05/10/2010	GroundTruth_TR	568284	7043040	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestWhiteSpruce
10141851	05/10/2010	GroundTruth_TR	568323	7043009	UTMZ7N_WGS84		BrownDark	Gravel	Steep	C	90		Good	ForestAspen
10141852	05/10/2010	GroundTruth_TR	568363	7042979	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50		Good	ForestAspen
10141853	05/10/2010	GroundTruth_TR	568404	7042949	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10141854	05/10/2010	GroundTruth_TR	568444	7042919	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10146120	01/10/2010	GroundTruth_GD	570889	7045071	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Good	ForestWhiteSpruce
10146121	01/10/2010	GroundTruth_GD	570926	7045042	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10146122	01/10/2010	GroundTruth_GD	570966	7045009	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10146123	01/10/2010	GroundTruth_GD	571009	7044978	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10146124	01/10/2010	GroundTruth_GD	571047	7044948	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10146125	01/10/2010	GroundTruth_GD	571084	7044918	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10146126	01/10/2010	GroundTruth_GD	571126	7044884	UTMZ7N_WGS84		BrownDark		Moderate	C	40		Excellent	ForestWhiteSpruce
10146127	01/10/2010	GroundTruth_GD	571166	7044853	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10146128	01/10/2010	GroundTruth_GD	571204	7044824	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestWhiteSpruce
10146129	01/10/2010	GroundTruth_GD	571242	7044793	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10146130	01/10/2010	GroundTruth_GD	571285	7044763	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10146131	01/10/2010	GroundTruth_GD	571322	7044733	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10146132	01/10/2010	GroundTruth_GD	571360	7044705	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10146133	01/10/2010	GroundTruth_GD	571399	7044673	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestWhiteSpruce
10146134	01/10/2010	GroundTruth_GD	571438	7044642	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Excellent	ForestWhiteSpruce
10146135	01/10/2010	GroundTruth_GD	571478	7044609	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10146136	01/10/2010	GroundTruth_GD	571529	7044586	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10146137	01/10/2010	GroundTruth_GD	571559	7044551	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10146138	01/10/2010	GroundTruth_GD	571595	7044518	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10146139	01/10/2010	GroundTruth_GD	571637	7044487	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Good	ForestWhiteSpruce
10146140	01/10/2010	GroundTruth_GD	571677	7044458	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	30		Good	ForestWhiteSpruce
10146141	01/10/2010	GroundTruth_GD	571715	7044425	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10146142	01/10/2010	GroundTruth_GD	571755	7044395	UTMZ7N_WGS84		BrownDark		Moderate	C	40		Good	ForestWhiteSpruce
10146143	02/10/2010	GroundTruth_GD	572050	7043149	UTMZ7N_WGS84		BrownDark		Moderate	B	90	Wet	Good	ForestWhiteSpruce
10146144	02/10/2010	GroundTruth_GD	572012	7043181	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestWhiteSpruce
10146145	02/10/2010	GroundTruth_GD	571971	7043209	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestWhiteSpruce
10146146	02/10/2010	GroundTruth_GD	571933	7043240	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10146147	02/10/2010	GroundTruth_GD	571893	7043271	UTMZ7N_WGS84		RustyRed		Moderate	C	60		Excellent	ForestWhiteSpruce
10146148	02/10/2010	GroundTruth_GD	571852	7043301	UTMZ7N_WGS84		RustyRed		Moderate	C	60		Excellent	ForestWhiteSpruce
10146149	02/10/2010	GroundTruth_GD	571812	7043333	UTMZ7N_WGS84		RustyRed		Moderate	C	50		Good	ForestWhiteSpruce
10147001	01/10/2010	GroundTruth_AW	571039	7045587	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10147002	01/10/2010	GroundTruth_AW	570999	7045619	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10147003	01/10/2010	GroundTruth_AW	570960	7045650	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147004	01/10/2010	GroundTruth_AW	570920	7045679	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10147005	01/10/2010	GroundTruth_AW	570880	7045712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10147006	01/10/2010	GroundTruth_AW	570820	7045634	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147007	01/10/2010	GroundTruth_AW	570855	7045604	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10147008	01/10/2010	GroundTruth_AW	570896	7045572	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10147009	01/10/2010	GroundTruth_AW	570936	7045541	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10147010	01/10/2010	GroundTruth_AW	570975	7045511	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147011	01/10/2010	GroundTruth_AW	571016	7045480	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147012	01/10/2010	GroundTruth_AW	571053	7045449	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147013	01/10/2010	GroundTruth_AW	571092	7045418	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147014	01/10/2010	GroundTruth_AW	571133	7045389	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10147015	01/10/2010	GroundTruth_AW	571172	7045356	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147016	01/10/2010	GroundTruth_AW	571274	7045404	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10147017	01/10/2010	GroundTruth_AW	571312	7045373	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147018	01/10/2010	GroundTruth_AW	571353	7045342	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10147019	01/10/2010	GroundTruth_AW	571392	7045312	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10147020	01/10/2010	GroundTruth_AW	571431	7045282	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10147021	01/10/2010	GroundTruth_AW	571471	7045249	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147022	01/10/2010	GroundTruth_AW	571409	7045172	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147023	01/10/2010	GroundTruth_AW	571371	7045203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147024	01/10/2010	GroundTruth_AW	571332	7045236	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147025	01/10/2010	GroundTruth_AW	571293	7045263	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147026	01/10/2010	GroundTruth_AW	571253	7045294	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10147027	01/10/2010	GroundTruth_AW	571214	7045323	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147028	02/10/2010	GroundTruth_AW	571622	7043737	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestAspen
10147029	02/10/2010	GroundTruth_AW	571583	7043768	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestAspen
10147030	02/10/2010	GroundTruth_AW	571544	7043799	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147031	02/10/2010	GroundTruth_AW	571565	7043909	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10147032	02/10/2010	GroundTruth_AW	571525	7043937	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Excellent	ForestBirch
10147033	02/10/2010	GroundTruth_AW	571486	7043969	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10147034	02/10/2010	GroundTruth_AW	571424	7043890	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	30		Good	ForestBlackSpruce
10147035	02/10/2010	GroundTruth_AW	571463	7043860	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10147036	02/10/2010	GroundTruth_AW	571502	7043830	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10147037	02/10/2010	GroundTruth_AW	571602	7043878	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147038	02/10/2010	GroundTruth_AW	571642	7043847	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147039	02/10/2010	GroundTruth_AW	571680	7043816	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147040	02/10/2010	GroundTruth_AW	571720	7043786	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10147041	02/10/2010	GroundTruth_AW	571760	7043755	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10147042	02/10/2010	GroundTruth_AW	572235	7043384	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147043	02/10/2010	GroundTruth_AW	572195	7043414	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147044	02/10/2010	GroundTruth_AW	572156	7043447	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147045	02/10/2010	GroundTruth_AW	572114	7043478	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147046	02/10/2010	GroundTruth_AW	572078	7043508	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147047	02/10/2010	GroundTruth_AW	572037	7043539	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10147048	02/10/2010	GroundTruth_AW	571998	7043569	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestAspen
10147049	02/10/2010	GroundTruth_AW	571958	7043602	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147050	02/10/2010	GroundTruth_AW	571918	7043631	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestAspen
10147051	02/10/2010	GroundTruth_AW	571878	7043663	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147052	02/10/2010	GroundTruth_AW	571840	7043694	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147053	02/10/2010	GroundTruth_AW	571800	7043723	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce
10147054	05/10/2010	GroundTruth_AW	567482	7043799	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Poor	ForestBirch
10147055	05/10/2010	GroundTruth_AW	567521	7043768	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147056	05/10/2010	GroundTruth_AW	567561	7043736	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147057	05/10/2010	GroundTruth_AW	567600	7043706	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBirch
10147058	05/10/2010	GroundTruth_AW	567639	7043675	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147059	05/10/2010	GroundTruth_AW	567677	7043643	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147060	05/10/2010	GroundTruth_AW	567719	7043613	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10147070	05/10/2010	GroundTruth_AW	568110	7043306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10147071	05/10/2010	GroundTruth_AW	568148	7043274	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10147072	05/10/2010	GroundTruth_AW	568190	7043244	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90	Wet	Poor	ForestBlackSpruce
10147073	05/10/2010	GroundTruth_AW	568228	7043213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Poor	ForestBlackSpruce
10147074	05/10/2010	GroundTruth_AW	568267	7043183	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Poor	ForestBlackSpruce
10147075	05/10/2010	GroundTruth_AW	568346	7043123	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10147076	05/10/2010	GroundTruth_AW	568388	7043090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147078	05/10/2010	GroundTruth_AW	568424	7043056	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10147079	05/10/2010	GroundTruth_AW	568464	7043028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10147080	05/10/2010	GroundTruth_AW	568503	7042995	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147081	05/10/2010	GroundTruth_AW	568543	7042968	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147082	05/10/2010	GroundTruth_AW	568583	7042935	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10147084	05/10/2010	GroundTruth_AW	568622	7042906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10147087	28/09/2010	GroundTruth_JB	569896	7044451	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147088	28/09/2010	GroundTruth_JB	569933	7044421	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10147089	28/09/2010	GroundTruth_JB	569973	7044392	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10147090	28/09/2010	GroundTruth_JB	570012	7044359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestBlackSpruce
10147091	28/09/2010	GroundTruth_JB	570052	7044332	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147092	28/09/2010	GroundTruth_JB	570093	7044300	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10147093	28/09/2010	GroundTruth_JB	570133	7044267	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10147094	28/09/2010	GroundTruth_JB	570170	7044236	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147095	28/09/2010	GroundTruth_JB	570211	7044204	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10147096	28/09/2010	GroundTruth_JB	570249	7044173	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147097	28/09/2010	GroundTruth_JB	570290	7044146	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147098	28/09/2010	GroundTruth_JB	570329	7044112	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147099	28/09/2010	GroundTruth_JB	570368	7044080	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10147100	28/09/2010	GroundTruth_JB	570408	7044051	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10147101	28/09/2010	GroundTruth_JB	570447	7044021	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10147102	28/09/2010	GroundTruth_JB	570487	7043987	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	100		Good	ForestBlackSpruce
10147103	28/09/2010	GroundTruth_JB	570526	7043959	UTMZ7N_WGS84		Black	Sand	Steep	C	90	Frozen	Poor	ForestBlackSpruce
10147104	28/09/2010	GroundTruth_JB	570565	7043927	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10147105	28/09/2010	GroundTruth_JB	570606	7043897	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10147106	28/09/2010	GroundTruth_JB	570644	7043867	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10147107	28/09/2010	GroundTruth_JB	570685	7043835	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Good	ForestBlackSpruce
10147108	28/09/2010	GroundTruth_JB	570724	7043807	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10147109	28/09/2010	GroundTruth_JB	570763	7043777	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	80		Good	ForestBlackSpruce
10147110	28/09/2010	GroundTruth_JB	570802	7043744	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10147111	28/09/2010	GroundTruth_JB	570843	7043714	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10147112	28/09/2010	GroundTruth_JB	570882	7043684	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestAspen
10147113	28/09/2010	GroundTruth_JB	570920	7043651	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestAspen
10147114	28/09/2010	GroundTruth_JB	570959	7043620	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10147115	28/09/2010	GroundTruth_JB	570999	7043591	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10147116	04/10/2010	GroundTruth_JB	567297	7043565	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10147117	04/10/2010	GroundTruth_JB	567335	7043530	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10147118	04/10/2010	GroundTruth_JB	567376	7043501	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestAspen
10147119	04/10/2010	GroundTruth_JB	567416	7043470	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestAspen
10147120	04/10/2010	GroundTruth_JB	567456	7043439	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10147121	04/10/2010	GroundTruth_JB	567495	7043407	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestAspen
10147122	04/10/2010	GroundTruth_JB	567534	7043376	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10147145	28/09/2010	GroundTruth_MW	569835	7044371	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestBlackSpruce
10147146	28/09/2010	GroundTruth_MW	569873	7044341	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10147147	28/09/2010	GroundTruth_MW	569586	7044057	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestBlackSpruce
10147148	28/09/2010	GroundTruth_MW	569626	7044026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147149	28/09/2010	GroundTruth_MW	569666	7043995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147150	28/09/2010	GroundTruth_MW	569705	7043964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147151	28/09/2010	GroundTruth_MW	569745	7043934	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147152	28/09/2010	GroundTruth_MW	569784	7043902	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	30		Good	ForestWhiteSpruce
10147153	28/09/2010	GroundTruth_MW	569823	7043871	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10147154	28/09/2010	GroundTruth_MW	569863	7043840	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147155	28/09/2010	GroundTruth_MW	569905	7043810	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10147156	28/09/2010	GroundTruth_MW	569943	7043779	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10147157	28/09/2010	GroundTruth_MW	569984	7043747	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10147158	28/09/2010	GroundTruth_MW	570024	7043715	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Poor	ForestWhiteSpruce
10147159	28/09/2010	GroundTruth_MW	570061	7043686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10147160	28/09/2010	GroundTruth_MW	570100	7043656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147161	28/09/2010	GroundTruth_MW	570140	7043625	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10147162	28/09/2010	GroundTruth_MW	570176	7043596	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10147163	28/09/2010	GroundTruth_MW	570217	7043564	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10147164	28/09/2010	GroundTruth_MW	570256	7043533	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147165	28/09/2010	GroundTruth_MW	570296	7043502	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10147166	28/09/2010	GroundTruth_MW	570336	7043471	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10147167	28/09/2010	GroundTruth_MW	570376	7043441	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10147168	28/09/2010	GroundTruth_MW	570414	7043411	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10147169	28/09/2010	GroundTruth_MW	570452	7043380	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10147170	28/09/2010	GroundTruth_MW	570496	7043347	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147171	28/09/2010	GroundTruth_MW	570532	7043318	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147172	28/09/2010	GroundTruth_MW	570573	7043287	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147173	28/09/2010	GroundTruth_MW	570612	7043256	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10147174	28/09/2010	GroundTruth_MW	570653	7043224	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10147175	28/09/2010	GroundTruth_MW	570689	7043195	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10147176	28/09/2010	GroundTruth_MW	570729	7043164	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	70		Good	ForestBlackSpruce
10147177	28/09/2010	GroundTruth_MW	570769	7043134	UTMZ7N_WGS84		BrownDark	Clay	Flat	C	70		Poor	ForestBlackSpruce
10147178	29/09/2010	GroundTruth_MW	570325	7045004	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Good	ForestBlackSpruce
10147179	29/09/2010	GroundTruth_MW	570366	7044972	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Good	ForestBlackSpruce
10147180	29/09/2010	GroundTruth_MW	570407	7044939	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Good	ForestBlackSpruce
10147181	29/09/2010	GroundTruth_MW	570445	7044910	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50		Good	ForestBlackSpruce
10147182	29/09/2010	GroundTruth_MW	570484	7044879	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestAspen
10147183	29/09/2010	GroundTruth_MW	570522	7044850	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147184	29/09/2010	GroundTruth_MW	570562	7044819	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147185	29/09/2010	GroundTruth_MW	570602	7044787	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10147186	29/09/2010	GroundTruth_MW	570641	7044758	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10147187	29/09/2010	GroundTruth_MW	570682	7044725	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147188	29/09/2010	GroundTruth_MW	570721	7044695	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10147189	29/09/2010	GroundTruth_MW	570759	7044664	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10147190	29/09/2010	GroundTruth_MW	570799	7044634	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10147191	29/09/2010	GroundTruth_MW	570838	7044604	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147192	29/09/2010	GroundTruth_MW	570880	7044571	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestWhiteSpruce
10147193	29/09/2010	GroundTruth_MW	570918	7044540	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10147194	29/09/2010	GroundTruth_MW	570956	7044511	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10147195	29/09/2010	GroundTruth_MW	570995	7044480	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10147196	29/09/2010	GroundTruth_MW	571034	7044449	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestWhiteSpruce
10147197	29/09/2010	GroundTruth_MW	571073	7044419	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147198	29/09/2010	GroundTruth_MW	571113	7044387	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147199	29/09/2010	GroundTruth_MW	571152	7044359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147200	29/09/2010	GroundTruth_MW	571191	7044326	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147201	29/09/2010	GroundTruth_MW	571232	7044296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestWhiteSpruce
10147202	29/09/2010	GroundTruth_MW	571271	7044264	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10147203	29/09/2010	GroundTruth_MW	571312	7044233	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147204	29/09/2010	GroundTruth_MW	571350	7044203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10147205	29/09/2010	GroundTruth_MW	571390	7044171	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10147206	29/09/2010	GroundTruth_MW	571428	7044142	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10147207	29/09/2010	GroundTruth_MW	571469	7044109	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10147208	29/09/2010	GroundTruth_MW	571509	7044078	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10147209	01/10/2010	GroundTruth_GD	570572	7045317	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Excellent	ForestBlackSpruce
10147210	01/10/2010	GroundTruth_GD	570613	7045287	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10147211	01/10/2010	GroundTruth_GD	570652	7045255	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147212	01/10/2010	GroundTruth_GD	570691	7045225	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10147213	01/10/2010	GroundTruth_GD	570731	7045194	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10147214	01/10/2010	GroundTruth_GD	570770	7045163	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Excellent	ForestWhiteSpruce
10147215	01/10/2010	GroundTruth_GD	570811	7045131	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Good	ForestWhiteSpruce
10147216	01/10/2010	GroundTruth_GD	570848	7045102	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10147217	02/10/2010	GroundTruth_GD	571777	7043362	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10147218	02/10/2010	GroundTruth_GD	571736	7043394	UTMZ7N_WGS84		BrownDark		Moderate	C	40		Excellent	ForestAspen
10147219	02/10/2010	GroundTruth_GD	571696	7043426	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10147220	02/10/2010	GroundTruth_GD	571657	7043455	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10147221	02/10/2010	GroundTruth_GD	571618	7043485	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestAspen
10147222	02/10/2010	GroundTruth_GD	571578	7043518	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10147223	02/10/2010	GroundTruth_GD	571535	7043549	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Excellent	ForestWhiteSpruce
10147224	02/10/2010	GroundTruth_GD	571497	7043580	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10147225	02/10/2010	GroundTruth_GD	571459	7043609	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Excellent	ForestWhiteSpruce
10147226	02/10/2010	GroundTruth_GD	571419	7043640	UTMZ7N_WGS84		Green		Moderate	C	70		Excellent	ForestWhiteSpruce
10147227	02/10/2010	GroundTruth_GD	571378	7043672	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10147228	02/10/2010	GroundTruth_GD	571337	7043702	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10147229	02/10/2010	GroundTruth_GD	571299	7043733	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10147230	02/10/2010	GroundTruth_GD	571240	7043658	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10147231	02/10/2010	GroundTruth_GD	571277	7043624	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10147232	02/10/2010	GroundTruth_GD	571317	7043592	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Excellent	ForestWhiteSpruce
10147233	02/10/2010	GroundTruth_GD	571356	7043562	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10147234	02/10/2010	GroundTruth_GD	571396	7043534	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10147235	02/10/2010	GroundTruth_GD	571437	7043500	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10147283	28/09/2010	GroundTruth_AW	570019	7044609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147284	28/09/2010	GroundTruth_AW	570058	7044578	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147285	28/09/2010	GroundTruth_AW	570098	7044547	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10147286	28/09/2010	GroundTruth_AW	570137	7044515	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147287	28/09/2010	GroundTruth_AW	570177	7044484	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10147288	28/09/2010	GroundTruth_AW	570216	7044453	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147289	28/09/2010	GroundTruth_AW	570254	7044423	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10147290	28/09/2010	GroundTruth_AW	570296	7044391	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10147291	28/09/2010	GroundTruth_AW	570334	7044362	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10147292	28/09/2010	GroundTruth_AW	570374	7044331	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10147293	28/09/2010	GroundTruth_AW	570411	7044299	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10147294	28/09/2010	GroundTruth_AW	570450	7044273	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147295	28/09/2010	GroundTruth_AW	570489	7044241	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147296	28/09/2010	GroundTruth_AW	570527	7044209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147297	28/09/2010	GroundTruth_AW	570568	7044179	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147298	28/09/2010	GroundTruth_AW	570606	7044147	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10147299	28/09/2010	GroundTruth_AW	570646	7044117	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestWhiteSpruce
10147300	28/09/2010	GroundTruth_AW	570686	7044086	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10147301	28/09/2010	GroundTruth_AW	570724	7044052	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10147302	28/09/2010	GroundTruth_AW	570765	7044026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147303	28/09/2010	GroundTruth_AW	570807	7043992	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestWhiteSpruce
10147304	28/09/2010	GroundTruth_AW	570844	7043964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147305	28/09/2010	GroundTruth_AW	570883	7043932	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147306	28/09/2010	GroundTruth_AW	570923	7043901	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10147307	28/09/2010	GroundTruth_AW	570964	7043870	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147308	28/09/2010	GroundTruth_AW	571003	7043840	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10147309	28/09/2010	GroundTruth_AW	571041	7043809	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10147310	28/09/2010	GroundTruth_AW	571084	7043779	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestWhiteSpruce
10147311	28/09/2010	GroundTruth_AW	571120	7043747	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147312	28/09/2010	GroundTruth_AW	571160	7043716	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147313	28/09/2010	GroundTruth_AW	571199	7043687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147314	28/09/2010	GroundTruth_AW	571079	7043528	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10147315	28/09/2010	GroundTruth_AW	571038	7043557	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestAspen
10147316	02/10/2010	GroundTruth_AW	571779	7043614	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147317	02/10/2010	GroundTruth_AW	571741	7043645	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147318	02/10/2010	GroundTruth_AW	571702	7043675	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10147319	02/10/2010	GroundTruth_AW	571663	7043705	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10147320	01/10/2010	GroundTruth_AW	571236	7045434	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10147321	01/10/2010	GroundTruth_AW	571195	7045466	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10147322	01/10/2010	GroundTruth_AW	571157	7045495	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147323	01/10/2010	GroundTruth_AW	571117	7045526	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147324	01/10/2010	GroundTruth_AW	571078	7045558	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10147325	28/09/2010	GroundTruth_DB	569713	7044213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10147326	28/09/2010	GroundTruth_DB	569748	7044182	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10147327	28/09/2010	GroundTruth_DB	569649	7044137	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147328	28/09/2010	GroundTruth_DB	569688	7044105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	DrainageAlder
10147329	28/09/2010	GroundTruth_DB	569727	7044073	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147330	28/09/2010	GroundTruth_DB	569767	7044044	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147331	28/09/2010	GroundTruth_DB	569807	7044012	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestAspen
10147332	28/09/2010	GroundTruth_DB	569847	7043983	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	30		Good	ForestAspen
10147333	28/09/2010	GroundTruth_DB	569886	7043950	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147334	28/09/2010	GroundTruth_DB	569925	7043921	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147335	28/09/2010	GroundTruth_DB	569966	7043890	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147336	28/09/2010	GroundTruth_DB	570006	7043860	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147337	28/09/2010	GroundTruth_DB	570046	7043832	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147338	28/09/2010	GroundTruth_DB	570084	7043800	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10147339	28/09/2010	GroundTruth_DB	570127	7043769	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10147340	28/09/2010	GroundTruth_DB	570165	7043738	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestPine
10147341	28/09/2010	GroundTruth_DB	570206	7043708	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestPine
10147342	28/09/2010	GroundTruth_DB	570244	7043675	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestPine
10147343	28/09/2010	GroundTruth_DB	570279	7043644	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10147344	28/09/2010	GroundTruth_DB	570322	7043614	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10147345	28/09/2010	GroundTruth_DB	570360	7043586	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestPine
10147346	28/09/2010	GroundTruth_DB	570400	7043556	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestPine
10147347	28/09/2010	GroundTruth_DB	570441	7043523	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147348	28/09/2010	GroundTruth_DB	570476	7043491	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147349	28/09/2010	GroundTruth_DB	570516	7043462	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147350	28/09/2010	GroundTruth_DB	570557	7043429	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10147351	28/09/2010	GroundTruth_DB	570599	7043397	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10147352	28/09/2010	GroundTruth_DB	570635	7043368	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10147354	28/09/2010	GroundTruth_DB	570764	7043301	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	30		Good	ForestBlackSpruce
10147355	28/09/2010	GroundTruth_DB	570792	7043245	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40		Good	ForestBlackSpruce
10147356	28/09/2010	GroundTruth_DB	570829	7043214	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40		Good	ForestBlackSpruce
10147359	04/10/2010	GroundTruth_DB	568773	7042529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Poor	ForestAspen
10147360	04/10/2010	GroundTruth_DB	568734	7042562	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10147361	04/10/2010	GroundTruth_DB	568696	7042591	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10147362	04/10/2010	GroundTruth_DB	568659	7042623	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestAspen
10147363	04/10/2010	GroundTruth_DB	568617	7042655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10147364	04/10/2010	GroundTruth_DB	568578	7042687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10147365	04/10/2010	GroundTruth_DB	568542	7042717	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10147367	04/10/2010	GroundTruth_DB	568478	7042639	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10147437	04/10/2010	GroundTruth_AN	569053	7042564	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147438	04/10/2010	GroundTruth_AN	569015	7042594	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147439	04/10/2010	GroundTruth_AN	568975	7042627	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147440	04/10/2010	GroundTruth_AN	568936	7042656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10147441	04/10/2010	GroundTruth_AN	568893	7042686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147442	04/10/2010	GroundTruth_AN	568855	7042722	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Frozen	Good	ForestWhiteSpruce
10147443	04/10/2010	GroundTruth_AN	568819	7042749	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Good	ForestWhiteSpruce
10147444	04/10/2010	GroundTruth_AN	568779	7042785	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147445	04/10/2010	GroundTruth_AN	568738	7042811	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10147446	04/10/2010	GroundTruth_AN	568699	7042841	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10147447	04/10/2010	GroundTruth_AN	568662	7042874	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10147971	29/09/2010	GroundTruth_MF	575896	7040353	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Good	ForestWhiteSpruce
10147972	29/09/2010	GroundTruth_MF	575941	7040370	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10147973	29/09/2010	GroundTruth_MF	575989	7040386	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10148046	28/09/2010	GroundTruth_MF	575049	7041655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10148047	28/09/2010	GroundTruth_MF	575096	7041670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10148048	28/09/2010	GroundTruth_MF	575145	7041687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10148049	28/09/2010	GroundTruth_MF	575196	7041704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10148050	28/09/2010	GroundTruth_MF	575239	7041718	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10148051	28/09/2010	GroundTruth_MF	575289	7041735	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10148053	28/09/2010	GroundTruth_MF	575335	7041750	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10148054	28/09/2010	GroundTruth_MF	575385	7041766	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10148055	28/09/2010	GroundTruth_MF	575428	7041780	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10148056	28/09/2010	GroundTruth_MF	575477	7041797	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10148057	28/09/2010	GroundTruth_MF	575524	7041813	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10148058	28/09/2010	GroundTruth_MF	575570	7041828	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10148061	28/09/2010	GroundTruth_MF	575615	7041842	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10148062	28/09/2010	GroundTruth_MF	575662	7041857	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10148063	28/09/2010	GroundTruth_MF	575714	7041873	UTMZ7N_WGS84		Black	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10148064	28/09/2010	GroundTruth_MF	575762	7041889	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10148065	28/09/2010	GroundTruth_MF	575808	7041904	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10148066	28/09/2010	GroundTruth_MF	575858	7041920	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	100	Wet	Good	ForestBlackSpruce
10148067	28/09/2010	GroundTruth_MF	575903	7041934	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80	Wet	Good	ForestBlackSpruce
10148068	28/09/2010	GroundTruth_MF	575952	7041951	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestBirch
10148069	28/09/2010	GroundTruth_MF	576000	7041966	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10148070	28/09/2010	GroundTruth_MF	576046	7041981	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10148071	28/09/2010	GroundTruth_MF	576095	7041996	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10148072	28/09/2010	GroundTruth_MF	576140	7042012	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10148073	28/09/2010	GroundTruth_MF	576188	7042026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10148074	28/09/2010	GroundTruth_MF	576235	7042041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10148075	28/09/2010	GroundTruth_MF	576284	7042057	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10148076	28/09/2010	GroundTruth_MF	576330	7042073	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestBirch
10148077	28/09/2010	GroundTruth_MF	576378	7042081	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestWhiteSpruce
10148078	28/09/2010	GroundTruth_MF	576427	7042101	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10148079	28/09/2010	GroundTruth_MF	576477	7042120	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	70		Poor	ForestWhiteSpruce
10148080	29/09/2010	GroundTruth_MF	575514	7040229	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10148082	29/09/2010	GroundTruth_MF	575560	7040244	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10148083	29/09/2010	GroundTruth_MF	575609	7040261	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	DrainageAlder
10148084	29/09/2010	GroundTruth_MF	575656	7040275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10148085	29/09/2010	GroundTruth_MF	575703	7040291	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10148086	29/09/2010	GroundTruth_MF	575751	7040308	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10148087	29/09/2010	GroundTruth_MF	575801	7040324	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10148088	29/09/2010	GroundTruth_MF	575845	7040338	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestWhiteSpruce
10149501	07/10/2010	GroundTruth_PM	568931	7043299	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10149502	07/10/2010	GroundTruth_PM	568891	7043330	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10149503	07/10/2010	GroundTruth_PM	568850	7043361	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10149504	07/10/2010	GroundTruth_PM	568814	7043392	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10149505	07/10/2010	GroundTruth_PM	568773	7043422	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10149506	07/10/2010	GroundTruth_PM	568735	7043454	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10149507	07/10/2010	GroundTruth_PM	568697	7043485	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10149508	07/10/2010	GroundTruth_PM	568654	7043514	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10149509	07/10/2010	GroundTruth_PM	568614	7043546	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Good	ForestWhiteSpruce
10149510	07/10/2010	GroundTruth_PM	568578	7043577	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBirch
10149512	07/10/2010	GroundTruth_PM	568536	7043608	UTMZ7N_WGS84		Black	Sand	Moderate	C	80	Wet	Good	ForestBirch
10149513	07/10/2010	GroundTruth_PM	568498	7043639	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBirch
10149514	07/10/2010	GroundTruth_PM	568457	7043669	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10149515	07/10/2010	GroundTruth_PM	568419	7043700	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10149516	07/10/2010	GroundTruth_PM	568379	7043732	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60	Frozen	Poor	ForestBlackSpruce
10149517	07/10/2010	GroundTruth_PM	568341	7043762	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149518	07/10/2010	GroundTruth_PM	568300	7043793	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10149519	07/10/2010	GroundTruth_PM	568261	7043824	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10149520	07/10/2010	GroundTruth_PM	568222	7043853	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestAspen
10149521	07/10/2010	GroundTruth_PM	568183	7043888	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149522	07/10/2010	GroundTruth_PM	568144	7043914	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10149523	07/10/2010	GroundTruth_PM	568105	7043947	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10149524	07/10/2010	GroundTruth_PM	568066	7043976	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestWhiteSpruce
10149525	07/10/2010	GroundTruth_PM	568027	7044009	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10149526	07/10/2010	GroundTruth_PM	567988	7044039	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10149527	07/10/2010	GroundTruth_PM	567949	7044070	UTMZ7N_WGS84		Black	Silt	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10149528	07/10/2010	GroundTruth_PM	567909	7044099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10149529	07/10/2010	GroundTruth_PM	567869	7044132	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10149530	07/10/2010	GroundTruth_PM	567830	7044162	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10149531	07/10/2010	GroundTruth_DB	568089	7044087	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10149532	07/10/2010	GroundTruth_DB	568047	7044115	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	SubAlpineFir
10149533	07/10/2010	GroundTruth_DB	568007	7044146	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	SubAlpineFir
10149534	07/10/2010	GroundTruth_DB	567968	7044175	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	SubAlpineFir
10149535	07/10/2010	GroundTruth_DB	567930	7044209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	DrainageBrush
10149537	07/10/2010	GroundTruth_DB	567892	7044240	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	SubAlpineFir
10149538	07/10/2010	GroundTruth_DB	567850	7044273	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	SubAlpineFir
10149550	07/10/2010	GroundTruth_MD	568867	7043219	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	30		Good	ForestAspen
10149551	07/10/2010	GroundTruth_MD	568829	7043251	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10149552	07/10/2010	GroundTruth_MD	568791	7043283	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10149553	07/10/2010	GroundTruth_MD	568750	7043313	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149554	07/10/2010	GroundTruth_MD	568710	7043344	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149555	07/10/2010	GroundTruth_MD	568669	7043375	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149556	07/10/2010	GroundTruth_MD	568630	7043404	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10149557	07/10/2010	GroundTruth_MD	568592	7043436	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Good	ForestBlackSpruce
10149558	07/10/2010	GroundTruth_MD	568553	7043467	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Frozen	Poor	ForestBlackSpruce
10149559	07/10/2010	GroundTruth_MD	568513	7043498	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Frozen	Good	ForestBlackSpruce
10149560	07/10/2010	GroundTruth_MD	568473	7043528	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149561	07/10/2010	GroundTruth_MD	568431	7043558	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10149562	07/10/2010	GroundTruth_MD	568398	7043589	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10149563	07/10/2010	GroundTruth_MD	568359	7043619	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Poor	ForestBlackSpruce
10149564	07/10/2010	GroundTruth_MD	568319	7043651	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10149565	07/10/2010	GroundTruth_MD	568280	7043680	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10149566	07/10/2010	GroundTruth_MD	568241	7043713	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10149568	07/10/2010	GroundTruth_MD	568201	7043743	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10149569	07/10/2010	GroundTruth_MD	567729	7044114	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10149570	07/10/2010	GroundTruth_MD	567767	7044082	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10149571	07/10/2010	GroundTruth_MD	567807	7044052	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBirch
10149572	07/10/2010	GroundTruth_MD	567845	7044020	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestBirch
10149574	07/10/2010	GroundTruth_MD	567886	7043990	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10149575	07/10/2010	GroundTruth_MD	567923	7043960	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10149576	07/10/2010	GroundTruth_MD	567963	7043928	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10149577	07/10/2010	GroundTruth_MD	568003	7043895	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10149578	07/10/2010	GroundTruth_MD	568045	7043865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10149579	07/10/2010	GroundTruth_MD	568083	7043835	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10149580	07/10/2010	GroundTruth_MD	568122	7043805	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10149581	07/10/2010	GroundTruth_MD	568161	7043773	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10150997	13/10/2010	GroundTruth_IB	569486	7044009	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10150998	13/10/2010	GroundTruth_IB	569446	7044040	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10150999	13/10/2010	GroundTruth_IB	569408	7044070	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10151000	13/10/2010	GroundTruth_IB	569369	7044102	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151001	13/10/2010	GroundTruth_IB	569329	7044131	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151002	13/10/2010	GroundTruth_IB	569288	7044162	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10151003	13/10/2010	GroundTruth_IB	569249	7044195	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestWhiteSpruce
10151004	13/10/2010	GroundTruth_IB	569210	7044226	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10151005	13/10/2010	GroundTruth_IB	569172	7044255	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10151006	13/10/2010	GroundTruth_IB	569131	7044285	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestWhiteSpruce
10151007	13/10/2010	GroundTruth_IB	569095	7044315	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestWhiteSpruce
10151008	13/10/2010	GroundTruth_IB	569056	7044346	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10151009	13/10/2010	GroundTruth_IB	569017	7044377	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10151010	13/10/2010	GroundTruth_IB	568976	7044409	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestWhiteSpruce
10151011	13/10/2010	GroundTruth_IB	568936	7044439	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10151012	13/10/2010	GroundTruth_IB	568898	7044470	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10151013	13/10/2010	GroundTruth_IB	568858	7044500	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestWhiteSpruce
10151014	13/10/2010	GroundTruth_IB	568818	7044531	UTMZ7N_WGS84		RustyRed	Silt	Flat	C	70		Good	ForestWhiteSpruce
10151015	13/10/2010	GroundTruth_IB	568777	7044564	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestWhiteSpruce
10151016	13/10/2010	GroundTruth_IB	568739	7044593	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10151017	13/10/2010	GroundTruth_IB	568699	7044624	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10151018	13/10/2010	GroundTruth_IB	568660	7044655	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151019	13/10/2010	GroundTruth_IB	568582	7044718	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Poor	ForestWhiteSpruce
10151020	13/10/2010	GroundTruth_IB	568541	7044748	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70	Wet	Poor	ForestWhiteSpruce
10151021	13/10/2010	GroundTruth_IB	568503	7044778	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100	Wet	Poor	ForestWhiteSpruce
10151022	13/10/2010	GroundTruth_IB	568463	7044810	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Poor	ForestWhiteSpruce
10151023	13/10/2010	GroundTruth_IB	568423	7044839	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Poor	ForestWhiteSpruce
10151024	13/10/2010	GroundTruth_IB	568383	7044871	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10151025	13/10/2010	GroundTruth_IB	568345	7044902	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151100	12/10/2010	GroundTruth_TR	569184	7043865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151101	12/10/2010	GroundTruth_TR	569145	7043895	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10151102	12/10/2010	GroundTruth_TR	569105	7043926	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151103	12/10/2010	GroundTruth_TR	569066	7043957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151104	12/10/2010	GroundTruth_TR	569026	7043989	UTMZ7N_WGS84		Black		Moderate	B	90	Wet	Poor	ForestWhiteSpruce
10151105	12/10/2010	GroundTruth_TR	568988	7044019	UTMZ7N_WGS84		Black	Clay	Moderate	B	70		Poor	ForestWhiteSpruce
10151106	12/10/2010	GroundTruth_TR	568948	7044048	UTMZ7N_WGS84		Black	Clay	Moderate	B	70		Poor	ForestWhiteSpruce
10151107	12/10/2010	GroundTruth_TR	568907	7044080	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151108	12/10/2010	GroundTruth_TR	568869	7044111	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10151109	12/10/2010	GroundTruth_TR	568829	7044142	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10151110	12/10/2010	GroundTruth_TR	568790	7044172	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151111	12/10/2010	GroundTruth_TR	568161	7044666	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151112	12/10/2010	GroundTruth_TR	568199	7044635	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151113	12/10/2010	GroundTruth_TR	568238	7044603	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10151114	12/10/2010	GroundTruth_TR	568278	7044573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151115	12/10/2010	GroundTruth_TR	568318	7044543	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10151116	12/10/2010	GroundTruth_TR	568356	7044512	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151118	12/10/2010	GroundTruth_TR	568395	7044482	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151119	12/10/2010	GroundTruth_TR	568435	7044450	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151120	12/10/2010	GroundTruth_TR	568475	7044419	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10151121	12/10/2010	GroundTruth_TR	568513	7044389	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10151122	12/10/2010	GroundTruth_TR	568553	7044358	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Poor	ForestWhiteSpruce
10151123	12/10/2010	GroundTruth_TR	568591	7044327	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	50		Good	ForestWhiteSpruce
10151124	12/10/2010	GroundTruth_TR	568631	7044295	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90		Poor	ForestWhiteSpruce
10151125	12/10/2010	GroundTruth_TR	568671	7044266	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	100		Good	ForestWhiteSpruce
10151126	14/10/2010	GroundTruth_TR	570018	7044608	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	70		Excellent	ForestWhiteSpruce
10151127	14/10/2010	GroundTruth_TR	569980	7044638	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151128	14/10/2010	GroundTruth_TR	569940	7044667	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151129	14/10/2010	GroundTruth_TR	569902	7044699	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151130	14/10/2010	GroundTruth_TR	569862	7044730	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151131	14/10/2010	GroundTruth_TR	569821	7044760	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151132	14/10/2010	GroundTruth_TR	569783	7044792	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10151133	14/10/2010	GroundTruth_TR	569744	7044822	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Wet	Good	ForestBlackSpruce
10151134	14/10/2010	GroundTruth_TR	569666	7044885	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	100		Good	ForestBlackSpruce
10151135	14/10/2010	GroundTruth_TR	569626	7044914	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40		Poor	ForestBlackSpruce
10151136	14/10/2010	GroundTruth_TR	569585	7044946	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50		Poor	ForestBlackSpruce
10151137	14/10/2010	GroundTruth_TR	569469	7045038	UTMZ7N_WGS84	TalusFine	BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10151138	14/10/2010	GroundTruth_TR	569428	7045069	UTMZ7N_WGS84	TalusFine	BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151139	14/10/2010	GroundTruth_TR	569350	7045130	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	60		Good	ForestWhiteSpruce
10151140	14/10/2010	GroundTruth_TR	569310	7045165	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10151141	14/10/2010	GroundTruth_TR	569269	7045192	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151142	14/10/2010	GroundTruth_TR	569231	7045223	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151144	14/10/2010	GroundTruth_TR	569523	7044869	UTMZ7N_WGS84		Black	Clay	Moderate	C	70		Poor	ForestWhiteSpruce
10151145	14/10/2010	GroundTruth_TR	569482	7044901	UTMZ7N_WGS84		Black	Clay	Moderate	C	90		Poor	ForestWhiteSpruce
10151146	14/10/2010	GroundTruth_TR	569444	7044930	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10151147	14/10/2010	GroundTruth_TR	569406	7044961	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151148	14/10/2010	GroundTruth_TR	569209	7045115	UTMZ7N_WGS84		Black	Gravel	Flat	B	90		Poor	ForestBlackSpruce
10151149	14/10/2010	GroundTruth_TR	569169	7045145	UTMZ7N_WGS84		Black	Clay	Moderate	B	90		Poor	ForestBlackSpruce
10151250	13/10/2010	GroundTruth_WW	569267	7044053	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10151251	12/10/2010	GroundTruth_IF	569154	7043506	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151252	12/10/2010	GroundTruth_IF	569116	7043536	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	70		Excellent	ForestWhiteSpruce
10151253	12/10/2010	GroundTruth_IF	569077	7043568	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151254	12/10/2010	GroundTruth_IF	569038	7043598	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151255	12/10/2010	GroundTruth_IF	568998	7043629	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151256	12/10/2010	GroundTruth_IF	568959	7043660	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151257	12/10/2010	GroundTruth_IF	568919	7043690	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10151258	12/10/2010	GroundTruth_IF	568879	7043721	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151259	12/10/2010	GroundTruth_IF	568842	7043753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10151260	12/10/2010	GroundTruth_IF	568801	7043783	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10151261	12/10/2010	GroundTruth_IF	568763	7043815	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10151262	12/10/2010	GroundTruth_IF	568722	7043844	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10151263	12/10/2010	GroundTruth_IF	568682	7043875	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBirch
10151264	12/10/2010	GroundTruth_IF	568643	7043907	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestBirch
10151265	12/10/2010	GroundTruth_IF	568605	7043937	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Poor	ForestBirch
10151266	12/10/2010	GroundTruth_IF	568523	7044000	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10151267	12/10/2010	GroundTruth_IF	568485	7044030	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10151268	12/10/2010	GroundTruth_IF	568445	7044058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151269	12/10/2010	GroundTruth_IF	568407	7044091	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10151270	12/10/2010	GroundTruth_IF	568365	7044123	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10151271	12/10/2010	GroundTruth_IF	568329	7044150	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10151272	12/10/2010	GroundTruth_IF	568289	7044183	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	110	Wet	Good	ForestWhiteSpruce
10151273	12/10/2010	GroundTruth_IF	568249	7044213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10151274	12/10/2010	GroundTruth_IF	568211	7044243	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151275	12/10/2010	GroundTruth_IF	568171	7044275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151276	12/10/2010	GroundTruth_IF	568131	7044305	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151277	12/10/2010	GroundTruth_IF	568093	7044336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151278	12/10/2010	GroundTruth_IF	568054	7044367	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestBirch
10151279	12/10/2010	GroundTruth_IF	568015	7044398	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	80		Excellent	ForestWhiteSpruce
10151280	12/10/2010	GroundTruth_IF	567975	7044431	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151282	12/10/2010	GroundTruth_DB	569239	7043694	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestWhiteSpruce
10151283	12/10/2010	GroundTruth_DB	569199	7043723	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestWhiteSpruce
10151284	12/10/2010	GroundTruth_DB	569160	7043754	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10151285	12/10/2010	GroundTruth_DB	569120	7043786	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151286	12/10/2010	GroundTruth_DB	569081	7043815	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151287	12/10/2010	GroundTruth_DB	569040	7043846	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151288	12/10/2010	GroundTruth_DB	569000	7043877	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151289	12/10/2010	GroundTruth_DB	568962	7043906	UTMZ7N_WGS84		BrownDark		Moderate	B	30	Wet	Poor	ForestBlackSpruce
10151290	12/10/2010	GroundTruth_DB	568923	7043938	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Wet	Poor	ForestBlackSpruce
10151291	12/10/2010	GroundTruth_DB	568883	7043970	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10151292	12/10/2010	GroundTruth_DB	568843	7044000	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151293	12/10/2010	GroundTruth_DB	568804	7044031	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10151294	12/10/2010	GroundTruth_DB	568762	7044061	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10151295	12/10/2010	GroundTruth_DB	568724	7044092	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10151296	12/10/2010	GroundTruth_DB	568684	7044122	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151297	12/10/2010	GroundTruth_DB	568647	7044153	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151298	12/10/2010	GroundTruth_DB	568608	7044183	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10151299	12/10/2010	GroundTruth_DB	568569	7044213	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestAspen
10151300	12/10/2010	GroundTruth_DB	568531	7044246	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10151301	12/10/2010	GroundTruth_DB	568491	7044276	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10151302	12/10/2010	GroundTruth_DB	568452	7044306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Poor	ForestBlackSpruce
10151303	12/10/2010	GroundTruth_DB	568411	7044337	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Poor	ForestBlackSpruce
10151304	12/10/2010	GroundTruth_DB	568372	7044370	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10151305	12/10/2010	GroundTruth_DB	568334	7044399	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151306	12/10/2010	GroundTruth_DB	568295	7044431	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10151307	12/10/2010	GroundTruth_DB	568253	7044462	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10151308	12/10/2010	GroundTruth_DB	568215	7044494	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10151309	12/10/2010	GroundTruth_DB	568175	7044524	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151310	12/10/2010	GroundTruth_DB	568137	7044555	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestWhiteSpruce
10151311	12/10/2010	GroundTruth_DB	568098	7044586	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10151315	13/10/2010	GroundTruth_WW	569424	7043930	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151316	13/10/2010	GroundTruth_WW	569385	7043959	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10151317	13/10/2010	GroundTruth_WW	569347	7043992	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151318	13/10/2010	GroundTruth_WW	569307	7044023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10151319	13/10/2010	GroundTruth_WW	569229	7044084	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10151320	13/10/2010	GroundTruth_WW	569188	7044116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100	Wet	Good	ForestBlackSpruce
10151321	13/10/2010	GroundTruth_WW	569149	7044145	UTMZ7N_WGS84		BrownDark		Moderate	B	80	Wet	Poor	ForestBlackSpruce
10151322	13/10/2010	GroundTruth_WW	569109	7044175	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Poor	ForestWhiteSpruce
10151323	13/10/2010	GroundTruth_WW	569070	7044207	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestWhiteSpruce
10151324	13/10/2010	GroundTruth_WW	569031	7044237	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151325	13/10/2010	GroundTruth_WW	568990	7044270	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151326	13/10/2010	GroundTruth_WW	568952	7044300	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10151327	13/10/2010	GroundTruth_WW	568912	7044331	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10151328	13/10/2010	GroundTruth_WW	568872	7044361	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10151329	13/10/2010	GroundTruth_WW	568755	7044454	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10151330	13/10/2010	GroundTruth_WW	568716	7044484	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestBlackSpruce
10151331	13/10/2010	GroundTruth_WW	568676	7044515	UTMZ7N_WGS84		BrownLight	Silt	Moderate	B	90		Good	ForestWhiteSpruce
10151332	13/10/2010	GroundTruth_WW	568637	7044546	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	110	Wet	Good	ForestWhiteSpruce
10151333	13/10/2010	GroundTruth_WW	568596	7044576	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Wet	Poor	ForestWhiteSpruce
10151334	13/10/2010	GroundTruth_WW	568558	7044607	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestWhiteSpruce
10151335	13/10/2010	GroundTruth_WW	568518	7044639	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestBlackSpruce
10151336	13/10/2010	GroundTruth_WW	568480	7044670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10151337	13/10/2010	GroundTruth_WW	568441	7044700	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestBlackSpruce
10151338	13/10/2010	GroundTruth_WW	568400	7044730	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10151339	13/10/2010	GroundTruth_WW	568360	7044762	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10151340	13/10/2010	GroundTruth_WW	568322	7044792	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151341	13/10/2010	GroundTruth_WW	568282	7044823	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151351	13/10/2010	GroundTruth_JB	569333	7044383	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151352	13/10/2010	GroundTruth_JB	569293	7044412	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151353	13/10/2010	GroundTruth_JB	569254	7044444	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10151354	13/10/2010	GroundTruth_JB	569214	7044476	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151355	13/10/2010	GroundTruth_JB	569174	7044506	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151356	13/10/2010	GroundTruth_JB	569133	7044537	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80	Wet	Poor	ForestBlackSpruce
10151357	13/10/2010	GroundTruth_JB	569096	7044568	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151358	13/10/2010	GroundTruth_JB	569057	7044599	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151359	13/10/2010	GroundTruth_JB	569015	7044631	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151360	13/10/2010	GroundTruth_JB	568938	7044690	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10151362	13/10/2010	GroundTruth_JB	568901	7044725	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10151363	13/10/2010	GroundTruth_JB	568861	7044753	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100		Good	ForestBlackSpruce
10151364	13/10/2010	GroundTruth_JB	568820	7044782	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Good	ForestBlackSpruce
10151365	13/10/2010	GroundTruth_JB	568781	7044813	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151366	13/10/2010	GroundTruth_JB	568741	7044845	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151367	13/10/2010	GroundTruth_JB	568703	7044875	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151368	13/10/2010	GroundTruth_JB	568661	7044906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151369	13/10/2010	GroundTruth_JB	568623	7044937	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151385	14/10/2010	GroundTruth_WW	569855	7044483	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151386	14/10/2010	GroundTruth_WW	569819	7044510	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Good	ForestBlackSpruce
10151387	14/10/2010	GroundTruth_WW	569778	7044541	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151388	14/10/2010	GroundTruth_WW	569738	7044573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestBlackSpruce
10151389	14/10/2010	GroundTruth_WW	569699	7044603	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBlackSpruce
10151390	14/10/2010	GroundTruth_WW	569661	7044634	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10151391	14/10/2010	GroundTruth_WW	569620	7044665	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10151392	14/10/2010	GroundTruth_WW	569581	7044696	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10151393	14/10/2010	GroundTruth_WW	569541	7044726	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10151394	14/10/2010	GroundTruth_WW	569462	7044788	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10151395	14/10/2010	GroundTruth_WW	569917	7044560	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10151396	14/10/2010	GroundTruth_WW	569877	7044592	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestBlackSpruce
10151397	14/10/2010	GroundTruth_WW	569839	7044621	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60	Wet	Good	ForestBlackSpruce
10151398	14/10/2010	GroundTruth_WW	569798	7044652	UTMZ7N_WGS84		BrownDark	Sand	Moderate	A	70		Good	ForestBlackSpruce
10151399	14/10/2010	GroundTruth_WW	569760	7044685	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10151400	14/10/2010	GroundTruth_WW	569721	7044715	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10151401	14/10/2010	GroundTruth_WW	569680	7044747	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10151402	14/10/2010	GroundTruth_WW	569642	7044777	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10151403	14/10/2010	GroundTruth_WW	569602	7044808	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10151404	14/10/2010	GroundTruth_WW	569563	7044840	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10151405	14/10/2010	GroundTruth_WW	569422	7044819	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10151406	14/10/2010	GroundTruth_WW	569187	7045004	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	70	Wet	Poor	ForestBlackSpruce
10151407	14/10/2010	GroundTruth_WW	569146	7045038	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Poor	ForestBlackSpruce
10151408	14/10/2010	GroundTruth_WW	569108	7045065	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestBlackSpruce
10151418	14/10/2010	GroundTruth_AW	570287	7045032	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10151419	14/10/2010	GroundTruth_AW	570248	7045062	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestBlackSpruce
10151420	14/10/2010	GroundTruth_AW	570208	7045095	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151421	14/10/2010	GroundTruth_AW	570168	7045127	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestBlackSpruce
10151422	14/10/2010	GroundTruth_AW	570129	7045157	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151423	14/10/2010	GroundTruth_AW	570090	7045188	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10151424	14/10/2010	GroundTruth_AW	570050	7045217	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestBlackSpruce
10151425	14/10/2010	GroundTruth_AW	570012	7045250	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10151426	14/10/2010	GroundTruth_AW	569970	7045281	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10151427	14/10/2010	GroundTruth_AW	569932	7045310	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10151428	14/10/2010	GroundTruth_AW	569871	7045233	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10151429	14/10/2010	GroundTruth_AW	569909	7045203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151430	14/10/2010	GroundTruth_AW	569949	7045171	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10151431	14/10/2010	GroundTruth_AW	569987	7045142	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10151432	14/10/2010	GroundTruth_AW	570027	7045110	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10151433	14/10/2010	GroundTruth_AW	570067	7045079	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Poor	ForestBlackSpruce
10151434	14/10/2010	GroundTruth_AW	570106	7045049	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Poor	ForestBlackSpruce
10151435	14/10/2010	GroundTruth_AW	570145	7045018	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	60		Good	ForestBlackSpruce
10151436	14/10/2010	GroundTruth_AW	570184	7044987	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10151437	14/10/2010	GroundTruth_AW	570226	7044956	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10151438	14/10/2010	GroundTruth_AW	570164	7044875	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10151439	14/10/2010	GroundTruth_AW	570124	7044908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10151440	14/10/2010	GroundTruth_AW	570086	7044937	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Good	ForestBlackSpruce
10151441	14/10/2010	GroundTruth_AW	570046	7044969	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Good	ForestBlackSpruce
10151442	14/10/2010	GroundTruth_AW	570006	7044998	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	90		Excellent	ForestBlackSpruce
10151443	14/10/2010	GroundTruth_AW	569968	7045030	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151444	14/10/2010	GroundTruth_AW	569929	7045059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10151445	14/10/2010	GroundTruth_AW	569887	7045091	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Excellent	ForestBlackSpruce
10151446	14/10/2010	GroundTruth_AW	569851	7045124	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151447	14/10/2010	GroundTruth_AW	569809	7045154	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10151785	30/09/2010	GroundTruth_JM	569914	7044309	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10151786	30/09/2010	GroundTruth_JM	569954	7044279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151787	30/09/2010	GroundTruth_JM	569992	7044247	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10151788	30/09/2010	GroundTruth_JM	570033	7044218	UTMZ7N_WGS84		Green	Silt	Moderate	C	90		Excellent	ForestBlackSpruce
10151789	30/09/2010	GroundTruth_JM	570072	7044185	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10151790	30/09/2010	GroundTruth_JM	570111	7044155	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10151791	30/09/2010	GroundTruth_JM	570151	7044124	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10151792	30/09/2010	GroundTruth_JM	570191	7044095	UTMZ7N_WGS84		BrownLight	Silt	Moderate	B	100		Good	ForestBlackSpruce
10151793	30/09/2010	GroundTruth_JM	570232	7044062	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60	Wet	Good	ForestBlackSpruce
10151794	30/09/2010	GroundTruth_JM	570268	7044032	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Good	ForestBlackSpruce
10151795	30/09/2010	GroundTruth_JM	570308	7044000	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10151796	30/09/2010	GroundTruth_JM	570350	7043970	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100		Excellent	ForestWhiteSpruce
10151797	30/09/2010	GroundTruth_JM	570387	7043937	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10151815	04/10/2010	GroundTruth_JM	568849	7043110	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Excellent	ForestAspen
10151816	04/10/2010	GroundTruth_JM	568887	7043080	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10151817	04/10/2010	GroundTruth_JM	568924	7043049	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10152501	12/10/2010	GroundTruth_AC	569219	7043585	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152502	12/10/2010	GroundTruth_AC	569179	7043616	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152503	12/10/2010	GroundTruth_AC	569139	7043645	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152504	12/10/2010	GroundTruth_AC	569100	7043677	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152505	12/10/2010	GroundTruth_AC	569062	7043709	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10152506	12/10/2010	GroundTruth_AC	569020	7043737	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10152507	12/10/2010	GroundTruth_AC	568981	7043769	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10152508	12/10/2010	GroundTruth_AC	568941	7043798	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Poor	ForestBlackSpruce
10152509	12/10/2010	GroundTruth_AC	568902	7043830	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Poor	ForestBlackSpruce
10152510	12/10/2010	GroundTruth_AC	568862	7043860	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10152511	12/10/2010	GroundTruth_AC	568820	7043891	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152512	12/10/2010	GroundTruth_AC	568781	7043921	UTMZ7N_WGS84		Grey	Clay	Moderate	B	70		Good	ForestBlackSpruce
10152513	12/10/2010	GroundTruth_AC	568742	7043952	UTMZ7N_WGS84		Grey	Clay	Moderate	B	60		Good	ForestBlackSpruce
10152514	12/10/2010	GroundTruth_AC	568704	7043983	UTMZ7N_WGS84		Grey	Clay	Moderate	B	60		Good	ForestBlackSpruce
10152516	12/10/2010	GroundTruth_AC	568665	7044013	UTMZ7N_WGS84		Grey	Gravel	Moderate	B	50		Poor	ForestBlackSpruce
10152517	12/10/2010	GroundTruth_AC	568622	7044043	UTMZ7N_WGS84		Black		Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10152518	12/10/2010	GroundTruth_AC	568543	7044108	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestAspen
10152519	12/10/2010	GroundTruth_AC	568505	7044140	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestAspen
10152520	12/10/2010	GroundTruth_AC	568465	7044171	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestAspen
10152521	12/10/2010	GroundTruth_AC	568427	7044196	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestAspen
10152522	12/10/2010	GroundTruth_AC	568388	7044229	UTMZ7N_WGS84		Grey	Clay	Moderate	B	110		Poor	ForestBlackSpruce
10152523	12/10/2010	GroundTruth_AC	568349	7044259	UTMZ7N_WGS84		Black	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152524	12/10/2010	GroundTruth_AC	568309	7044289	UTMZ7N_WGS84		Black	Clay	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10152525	12/10/2010	GroundTruth_AC	568270	7044320	UTMZ7N_WGS84		Grey	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152526	12/10/2010	GroundTruth_AC	568232	7044352	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152527	12/10/2010	GroundTruth_AC	568193	7044384	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152528	12/10/2010	GroundTruth_AC	568154	7044414	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152529	12/10/2010	GroundTruth_AC	568114	7044446	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152530	12/10/2010	GroundTruth_AC	568075	7044479	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152531	12/10/2010	GroundTruth_AC	568036	7044509	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152532	14/10/2010	GroundTruth_AC	569731	7044325	UTMZ7N_WGS84		Orange	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10152533	14/10/2010	GroundTruth_AC	569690	7044353	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Good	ForestBlackSpruce
10152534	14/10/2010	GroundTruth_AC	569653	7044387	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10152535	14/10/2010	GroundTruth_AC	569613	7044417	UTMZ7N_WGS84		BrownLight	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152536	12/10/2010	GroundTruth_AW	569360	7043852	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10152537	12/10/2010	GroundTruth_AW	569322	7043882	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10152538	12/10/2010	GroundTruth_AW	569281	7043914	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10152539	12/10/2010	GroundTruth_AW	569244	7043945	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10152540	12/10/2010	GroundTruth_AW	569205	7043974	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10152541	12/10/2010	GroundTruth_AW	569164	7044006	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10152542	12/10/2010	GroundTruth_AW	569133	7044031	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10152543	12/10/2010	GroundTruth_AW	569085	7044067	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10152544	12/10/2010	GroundTruth_AW	569046	7044099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Poor	ForestWhiteSpruce
10152545	12/10/2010	GroundTruth_AW	569007	7044129	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestWhiteSpruce
10152546	12/10/2010	GroundTruth_AW	568969	7044158	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10152547	12/10/2010	GroundTruth_AW	568931	7044189	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10152548	12/10/2010	GroundTruth_AW	568895	7044216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10152549	12/10/2010	GroundTruth_AW	568852	7044250	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10152550	12/10/2010	GroundTruth_AW	568813	7044280	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Excellent	ForestWhiteSpruce
10152551	12/10/2010	GroundTruth_AW	568734	7044342	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10152552	12/10/2010	GroundTruth_AW	568694	7044373	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10152553	12/10/2010	GroundTruth_AW	568655	7044405	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Poor	ForestWhiteSpruce
10152554	12/10/2010	GroundTruth_AW	568615	7044435	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Good	ForestWhiteSpruce
10152555	12/10/2010	GroundTruth_AW	568575	7044465	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Poor	ForestWhiteSpruce
10152556	12/10/2010	GroundTruth_AW	568536	7044496	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10152557	12/10/2010	GroundTruth_AW	568497	7044529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10152558	12/10/2010	GroundTruth_AW	568459	7044559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Poor	ForestWhiteSpruce
10152559	12/10/2010	GroundTruth_AW	568419	7044590	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	110		Good	ForestWhiteSpruce
10152560	12/10/2010	GroundTruth_AW	568379	7044619	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90		Good	ForestWhiteSpruce
10152561	12/10/2010	GroundTruth_AW	568339	7044652	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10152562	12/10/2010	GroundTruth_AW	568300	7044682	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10152563	12/10/2010	GroundTruth_AW	568260	7044712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10152564	12/10/2010	GroundTruth_AW	568220	7044743	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10152567	14/10/2010	GroundTruth_DB	570103	7044797	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152568	14/10/2010	GroundTruth_DB	570062	7044826	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10152569	14/10/2010	GroundTruth_DB	570024	7044860	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152570	14/10/2010	GroundTruth_DB	569984	7044889	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Poor	ForestBlackSpruce
10152571	14/10/2010	GroundTruth_DB	569943	7044920	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152572	14/10/2010	GroundTruth_DB	569906	7044951	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10152573	14/10/2010	GroundTruth_DB	569867	7044982	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10152574	14/10/2010	GroundTruth_DB	569826	7045011	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152575	14/10/2010	GroundTruth_DB	569786	7045043	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152576	14/10/2010	GroundTruth_DB	569747	7045074	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152577	14/10/2010	GroundTruth_DB	569708	7045104	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152578	14/10/2010	GroundTruth_DB	569667	7045134	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10152579	14/10/2010	GroundTruth_DB	569630	7045168	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	30		Good	ForestBlackSpruce
10152580	14/10/2010	GroundTruth_DB	569589	7045198	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152581	14/10/2010	GroundTruth_DB	569552	7045228	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10152582	14/10/2010	GroundTruth_DB	569524	7045118	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10152583	14/10/2010	GroundTruth_DB	569565	7045088	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152584	14/10/2010	GroundTruth_DB	569605	7045054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152585	14/10/2010	GroundTruth_DB	569645	7045026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10152586	14/10/2010	GroundTruth_DB	569683	7044994	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10152587	14/10/2010	GroundTruth_DB	569722	7044964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10152588	14/10/2010	GroundTruth_DB	569762	7044933	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Poor	ForestBlackSpruce
10152589	14/10/2010	GroundTruth_DB	569800	7044901	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152590	14/10/2010	GroundTruth_DB	569843	7044872	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152591	14/10/2010	GroundTruth_DB	569883	7044842	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10152609	14/10/2010	GroundTruth_DB	569922	7044812	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152610	14/10/2010	GroundTruth_DB	569962	7044779	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10152611	14/10/2010	GroundTruth_DB	570000	7044746	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10152612	14/10/2010	GroundTruth_DB	570040	7044719	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10152614	13/10/2010	GroundTruth_MD	569671	7044245	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10152615	13/10/2010	GroundTruth_MD	569633	7044274	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152616	13/10/2010	GroundTruth_MD	569595	7044306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152617	13/10/2010	GroundTruth_MD	569556	7044339	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152618	13/10/2010	GroundTruth_MD	569514	7044368	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152619	13/10/2010	GroundTruth_MD	569475	7044398	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152620	13/10/2010	GroundTruth_MD	569438	7044430	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152621	13/10/2010	GroundTruth_MD	569395	7044460	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152622	13/10/2010	GroundTruth_MD	569358	7044492	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152623	13/10/2010	GroundTruth_MD	569317	7044523	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152624	13/10/2010	GroundTruth_MD	569278	7044554	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152625	13/10/2010	GroundTruth_MD	569238	7044583	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152626	13/10/2010	GroundTruth_MD	569198	7044613	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152627	13/10/2010	GroundTruth_MD	569159	7044645	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152628	13/10/2010	GroundTruth_MD	569120	7044675	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10152629	13/10/2010	GroundTruth_MD	569082	7044707	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Poor	ForestBlackSpruce
10152630	13/10/2010	GroundTruth_MD	569039	7044737	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152631	13/10/2010	GroundTruth_MD	569001	7044772	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10152632	13/10/2010	GroundTruth_MD	568962	7044801	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10152633	13/10/2010	GroundTruth_MD	568923	7044829	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10152634	13/10/2010	GroundTruth_MD	568985	7044909	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10152635	13/10/2010	GroundTruth_MD	569024	7044878	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10152636	13/10/2010	GroundTruth_MD	569061	7044849	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10152637	13/10/2010	GroundTruth_MD	569139	7044790	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152638	13/10/2010	GroundTruth_MD	569376	7044603	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10152639	13/10/2010	GroundTruth_MD	569338	7044632	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10152640	13/10/2010	GroundTruth_MD	569295	7044662	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10152641	13/10/2010	GroundTruth_MD	569261	7044696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10152642	13/10/2010	GroundTruth_MD	569218	7044724	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBirch
10152643	13/10/2010	GroundTruth_MD	569181	7044757	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152649	14/10/2010	GroundTruth_AC	569573	7044447	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152650	14/10/2010	GroundTruth_AC	569532	7044477	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60		Good	ForestBlackSpruce
10152651	14/10/2010	GroundTruth_AC	569496	7044508	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70		Poor	ForestBlackSpruce
10152652	14/10/2010	GroundTruth_AC	569455	7044539	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152653	14/10/2010	GroundTruth_AC	569416	7044570	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10152654	14/10/2010	GroundTruth_AC	569477	7044647	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152655	14/10/2010	GroundTruth_AC	569517	7044618	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Good	ForestBlackSpruce
10152656	14/10/2010	GroundTruth_AC	569556	7044587	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152657	14/10/2010	GroundTruth_AC	569597	7044558	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10152658	14/10/2010	GroundTruth_AC	569633	7044523	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152659	14/10/2010	GroundTruth_AC	569675	7044495	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10152660	14/10/2010	GroundTruth_AC	569716	7044464	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152661	14/10/2010	GroundTruth_AC	569755	7044431	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152662	14/10/2010	GroundTruth_AC	569792	7044404	UTMZ7N_WGS84		RustyOrange	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152663	14/10/2010	GroundTruth_AC	569438	7044679	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60		Poor	ForestBlackSpruce
10152664	14/10/2010	GroundTruth_AC	569400	7044711	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Poor	ForestBlackSpruce
10152665	14/10/2010	GroundTruth_AC	569360	7044740	UTMZ7N_WGS84		BrownLight	Clay	Moderate	C	60		Good	ForestBlackSpruce
10152666	14/10/2010	GroundTruth_AC	569318	7044772	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10152667	14/10/2010	GroundTruth_AC	569279	7044802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce
10152668	14/10/2010	GroundTruth_AC	569241	7044833	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10152669	14/10/2010	GroundTruth_AC	569202	7044865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10152670	14/10/2010	GroundTruth_AC	569166	7044894	UTMZ7N_WGS84		BrownDark	Clay	Steep	B	70		Poor	ForestBlackSpruce
10152671	14/10/2010	GroundTruth_AC	569124	7044926	UTMZ7N_WGS84		BrownDark	Clay	Steep	B	70		Poor	ForestBlackSpruce
10152672	14/10/2010	GroundTruth_AC	569084	7044957	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	110		Poor	ForestBlackSpruce
10152673	14/10/2010	GroundTruth_AC	569046	7044987	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	90	Wet	Poor	ForestBlackSpruce
10162787	12/10/2010	GroundTruth_MF	571394	7038681	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10162788	12/10/2010	GroundTruth_MF	571442	7038696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10162790	12/10/2010	GroundTruth_MF	571488	7038711	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10162791	12/10/2010	GroundTruth_MF	571535	7038727	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10162792	12/10/2010	GroundTruth_MF	571583	7038743	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10162793	12/10/2010	GroundTruth_MF	571629	7038759	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10162794	12/10/2010	GroundTruth_MF	571679	7038774	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10162795	12/10/2010	GroundTruth_MF	571725	7038790	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10162796	12/10/2010	GroundTruth_MF	571770	7038805	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10162797	12/10/2010	GroundTruth_MF	571823	7038824	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10162798	12/10/2010	GroundTruth_MF	571866	7038836	UTMZ7N_WGS84		BrownDark	Sand	Steep	B	50		Good	ForestWhiteSpruce
10162799	12/10/2010	GroundTruth_MF	571910	7038850	UTMZ7N_WGS84		BrownDark	Silt	Flat	A	40	Frozen	Poor	ForestBlackSpruce
10162800	12/10/2010	GroundTruth_MF	571955	7038865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10162801	12/10/2010	GroundTruth_MF	572005	7038881	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10162802	12/10/2010	GroundTruth_MF	572055	7038895	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Excellent	ForestBlackSpruce
10162803	12/10/2010	GroundTruth_MF	572102	7038912	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165628	07/10/2010	GroundTruth_JB	568072	7044229	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165629	07/10/2010	GroundTruth_JB	568032	7044260	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165630	07/10/2010	GroundTruth_JB	567991	7044290	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165631	07/10/2010	GroundTruth_JB	567954	7044321	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165632	07/10/2010	GroundTruth_JB	567912	7044351	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBirch
10165633	13/10/2010	GroundTruth_JB	569607	7044165	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestBlackSpruce
10165634	13/10/2010	GroundTruth_JB	569570	7044198	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Good	ForestBlackSpruce
10165635	13/10/2010	GroundTruth_JB	569530	7044228	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165636	13/10/2010	GroundTruth_JB	569489	7044259	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165637	13/10/2010	GroundTruth_JB	569449	7044289	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165638	13/10/2010	GroundTruth_JB	569410	7044319	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165639	13/10/2010	GroundTruth_JB	569369	7044354	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165651	29/09/2010	GroundTruth_AN	570266	7044924	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165652	29/09/2010	GroundTruth_AN	570304	7044894	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165653	29/09/2010	GroundTruth_AN	570344	7044863	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10165654	29/09/2010	GroundTruth_AN	570382	7044830	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestAspen
10165655	29/09/2010	GroundTruth_AN	570421	7044799	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165656	29/09/2010	GroundTruth_AN	570465	7044769	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10173137	12/10/2010	GroundTruth_JM	571508	7039138	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173138	12/10/2010	GroundTruth_JM	571555	7039152	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173139	12/10/2010	GroundTruth_JM	571601	7039169	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	60	Wet	Good	ForestWhiteSpruce
10173140	12/10/2010	GroundTruth_JM	571650	7039184	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110		Excellent	ForestWhiteSpruce
10173141	12/10/2010	GroundTruth_JM	571698	7039201	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	110	Wet	Good	ForestWhiteSpruce
10173142	12/10/2010	GroundTruth_JM	571744	7039215	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10173143	12/10/2010	GroundTruth_JM	571792	7039232	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestWhiteSpruce
10173144	12/10/2010	GroundTruth_JM	571842	7039246	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10173145	12/10/2010	GroundTruth_JM	571888	7039263	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Good	ForestWhiteSpruce
10159001	02/10/2010	GroundTruth_AC	574811	7041575	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159002	02/10/2010	GroundTruth_AC	574763	7041562	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159003	02/10/2010	GroundTruth_AC	574716	7041546	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159004	02/10/2010	GroundTruth_AC	574668	7041529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159005	02/10/2010	GroundTruth_AC	574621	7041512	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159006	02/10/2010	GroundTruth_AC	574574	7041499	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159007	02/10/2010	GroundTruth_AC	574527	7041480	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159008	02/10/2010	GroundTruth_AC	574478	7041465	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159009	02/10/2010	GroundTruth_AC	574429	7041452	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159010	02/10/2010	GroundTruth_AC	574382	7041434	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159011	02/10/2010	GroundTruth_AC	574336	7041420	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159012	02/10/2010	GroundTruth_AC	574288	7041405	UTMZ7N_WGS84		Yellow	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159013	02/10/2010	GroundTruth_AC	574241	7041387	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10159014	02/10/2010	GroundTruth_AC	574193	7041373	UTMZ7N_WGS84		BrownDark	Gravel	Steep	B	40		Poor	ForestBlackSpruce
10159015	02/10/2010	GroundTruth_AC	574146	7041356	UTMZ7N_WGS84		BrownDark	Gravel	Steep	B	40		Poor	ForestBlackSpruce
10159016	02/10/2010	GroundTruth_AC	574101	7041340	UTMZ7N_WGS84		BrownDark	Gravel	Steep	C	50		Good	ForestBlackSpruce
10159017	02/10/2010	GroundTruth_AC	574053	7041325	UTMZ7N_WGS84		BrownDark	Gravel	Steep	C	50		Poor	ForestBlackSpruce
10159018	02/10/2010	GroundTruth_AC	574005	7041313	UTMZ7N_WGS84		BrownDark	Clay	Steep	C	60	Wet	Poor	ForestBlackSpruce
10159019	02/10/2010	GroundTruth_AC	573957	7041296	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	50		Good	ForestBlackSpruce
10159020	02/10/2010	GroundTruth_AC	573912	7041284	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10159021	02/10/2010	GroundTruth_AC	573862	7041267	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159022	02/10/2010	GroundTruth_AC	573813	7041251	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159023	02/10/2010	GroundTruth_AC	573764	7041233	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	100		Poor	ForestBlackSpruce
10159024	02/10/2010	GroundTruth_AC	573718	7041220	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159025	02/10/2010	GroundTruth_AC	573670	7041206	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159026	02/10/2010	GroundTruth_AC	573623	7041192	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	100		Good	ForestBlackSpruce
10159027	03/10/2010	GroundTruth_AC	574909	7041925	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159028	03/10/2010	GroundTruth_AC	574862	7041908	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Poor	ForestBlackSpruce
10159029	03/10/2010	GroundTruth_AC	574813	7041893	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159030	03/10/2010	GroundTruth_AC	574766	7041877	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	40		Poor	ForestWhiteSpruce
10159031	03/10/2010	GroundTruth_AC	574718	7041862	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159032	03/10/2010	GroundTruth_AC	574669	7041846	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159033	03/10/2010	GroundTruth_AC	574624	7041828	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159034	03/10/2010	GroundTruth_AC	574574	7041811	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159035	03/10/2010	GroundTruth_AC	574528	7041797	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159036	03/10/2010	GroundTruth_AC	574481	7041783	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159037	03/10/2010	GroundTruth_AC	574431	7041766	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159038	03/10/2010	GroundTruth_AC	574385	7041751	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159039	03/10/2010	GroundTruth_AC	574337	7041735	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159040	03/10/2010	GroundTruth_AC	574291	7041719	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159041	03/10/2010	GroundTruth_AC	574243	7041704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159042	03/10/2010	GroundTruth_AC	574195	7041687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159043	03/10/2010	GroundTruth_AC	574148	7041668	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159044	03/10/2010	GroundTruth_AC	574100	7041655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10159045	03/10/2010	GroundTruth_AC	574056	7041639	UTMZ7N_WGS84		Green	Clay	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10159047	03/10/2010	GroundTruth_AC	574008	7041625	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159048	03/10/2010	GroundTruth_AC	573960	7041612	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159049	03/10/2010	GroundTruth_AC	573912	7041598	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159050	03/10/2010	GroundTruth_AC	573866	7041582	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10159051	03/10/2010	GroundTruth_AC	573815	7041564	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159052	03/10/2010	GroundTruth_AC	573769	7041551	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159053	03/10/2010	GroundTruth_AC	573720	7041537	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159054	03/10/2010	GroundTruth_AC	573673	7041519	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159055	03/10/2010	GroundTruth_AC	573624	7041507	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159056	03/10/2010	GroundTruth_AC	573577	7041493	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159057	04/10/2010	GroundTruth_AC	573638	7040986	UTMZ7N_WGS84		Grey	Sand	Moderate	C	110		Good	ForestBirch
10159058	04/10/2010	GroundTruth_AC	573590	7040972	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10159059	04/10/2010	GroundTruth_AC	573541	7040953	UTMZ7N_WGS84		Grey	Clay	Moderate	C	90		Poor	ForestWhiteSpruce
10159060	04/10/2010	GroundTruth_AC	573493	7040938	UTMZ7N_WGS84		Grey	Silt	Moderate	C	80		Poor	ForestWhiteSpruce
10159061	04/10/2010	GroundTruth_AC	573448	7040923	UTMZ7N_WGS84		Grey	Silt	Moderate	C	70		Poor	ForestWhiteSpruce
10159062	04/10/2010	GroundTruth_AC	573399	7040906	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Poor	ForestWhiteSpruce
10159063	04/10/2010	GroundTruth_AC	573352	7040890	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159064	04/10/2010	GroundTruth_AC	573305	7040873	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Poor	ForestWhiteSpruce
10159065	04/10/2010	GroundTruth_AC	573255	7040859	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159066	04/10/2010	GroundTruth_AC	573208	7040837	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159067	04/10/2010	GroundTruth_AC	573159	7040832	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159068	04/10/2010	GroundTruth_AC	573113	7040812	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159069	04/10/2010	GroundTruth_AC	573065	7040795	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159070	04/10/2010	GroundTruth_AC	573019	7040780	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10159071	04/10/2010	GroundTruth_AC	572971	7040763	UTMZ7N_WGS84		Grey	Sand	Flat	C	70	Wet	Poor	ForestBlackSpruce
10159072	04/10/2010	GroundTruth_AC	572923	7040749	UTMZ7N_WGS84		Grey	Sand	Flat	C	60		Good	ForestBlackSpruce
10159073	04/10/2010	GroundTruth_AC	572875	7040731	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10159074	04/10/2010	GroundTruth_AC	572826	7040717	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10159075	04/10/2010	GroundTruth_AC	572736	7040687	UTMZ7N_WGS84		Grey	Clay	Moderate	B	60	Wet	Good	ForestBlackSpruce
10159076	04/10/2010	GroundTruth_AC	572686	7040671	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10159077	04/10/2010	GroundTruth_AC	572640	7040659	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce
10159078	04/10/2010	GroundTruth_AC	572590	7040644	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159079	04/10/2010	GroundTruth_AC	572544	7040631	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	70		Poor	ForestBlackSpruce
10159080	04/10/2010	GroundTruth_AC	572496	7040613	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	50		Poor	ForestBlackSpruce
10159081	04/10/2010	GroundTruth_AC	572450	7040600	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10159082	04/10/2010	GroundTruth_AC	572399	7040581	UTMZ7N_WGS84		Black		Steep	B	40	Frozen	Poor	ForestBlackSpruce
10159083	04/10/2010	GroundTruth_AC	572354	7040569	UTMZ7N_WGS84		Black	Clay	Steep	B	40	Frozen	Poor	ForestBlackSpruce
10159084	04/10/2010	GroundTruth_AC	572306	7040555	UTMZ7N_WGS84		Black	Clay	Steep	B	40		Poor	ForestBlackSpruce
10159085	04/10/2010	GroundTruth_AC	572258	7040538	UTMZ7N_WGS84		Grey	Clay	Steep	C	40		Poor	ForestBlackSpruce
10159086	07/10/2010	GroundTruth_AC	573791	7040512	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159087	07/10/2010	GroundTruth_AC	573741	7040496	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159088	07/10/2010	GroundTruth_AC	573696	7040479	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159089	07/10/2010	GroundTruth_AC	573645	7040466	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159090	07/10/2010	GroundTruth_AC	573599	7040449	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159091	07/10/2010	GroundTruth_AC	573557	7040434	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159092	07/10/2010	GroundTruth_AC	573505	7040415	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159093	07/10/2010	GroundTruth_AC	573457	7040402	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159094	07/10/2010	GroundTruth_AC	573411	7040385	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159095	07/10/2010	GroundTruth_AC	573362	7040371	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159096	07/10/2010	GroundTruth_AC	573316	7040353	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159097	07/10/2010	GroundTruth_AC	573268	7040337	UTMZ7N_WGS84		Black	Clay	Moderate	B	60	Wet	Poor	ForestWhiteSpruce
10159098	07/10/2010	GroundTruth_AC	573218	7040322	UTMZ7N_WGS84		Black	Clay	Moderate	B	70	Wet	Poor	ForestWhiteSpruce
10159099	07/10/2010	GroundTruth_AC	573173	7040304	UTMZ7N_WGS84		Black	Clay	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10159100	02/10/2010	GroundTruth_GB	575219	7040974	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	50		Good	ForestBlackSpruce
10159101	02/10/2010	GroundTruth_GB	575170	7040957	UTMZ7N_WGS84		Black	Silt	Moderate	B	50		Good	ForestBlackSpruce
10159102	02/10/2010	GroundTruth_GB	575125	7040941	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10159103	02/10/2010	GroundTruth_GB	575077	7040926	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestBlackSpruce
10159104	02/10/2010	GroundTruth_GB	575028	7040911	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10159105	02/10/2010	GroundTruth_GB	574982	7040896	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10159106	02/10/2010	GroundTruth_GB	574933	7040880	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159107	02/10/2010	GroundTruth_GB	574885	7040865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159108	02/10/2010	GroundTruth_GB	574838	7040849	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159109	02/10/2010	GroundTruth_GB	574790	7040834	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159110	02/10/2010	GroundTruth_GB	574743	7040817	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Excellent	ForestBlackSpruce
10159111	02/10/2010	GroundTruth_GB	574694	7040802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159112	02/10/2010	GroundTruth_GB	574647	7040787	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159113	02/10/2010	GroundTruth_GB	574599	7040771	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159114	02/10/2010	GroundTruth_GB	574553	7040756	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159115	02/10/2010	GroundTruth_GB	574507	7040741	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159116	02/10/2010	GroundTruth_GB	574459	7040728	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159117	02/10/2010	GroundTruth_GB	574411	7040711	UTMZ7N_WGS84		Orange	Silt	Moderate	C	40		Excellent	ForestBlackSpruce
10159118	02/10/2010	GroundTruth_GB	574363	7040695	UTMZ7N_WGS84		Orange	Silt	Moderate	C	40		Excellent	ForestBlackSpruce
10159119	02/10/2010	GroundTruth_GB	574316	7040679	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159121	02/10/2010	GroundTruth_GB	574268	7040664	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159122	02/10/2010	GroundTruth_GB	574222	7040650	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159123	02/10/2010	GroundTruth_GB	574173	7040634	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159124	02/10/2010	GroundTruth_GB	574125	7040617	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10159125	02/10/2010	GroundTruth_GB	574078	7040604	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	40		Excellent	ForestBlackSpruce
10159126	02/10/2010	GroundTruth_GB	574030	7040587	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10159127	02/10/2010	GroundTruth_GB	573983	7040571	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10159128	02/10/2010	GroundTruth_GB	573936	7040557	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159129	02/10/2010	GroundTruth_GB	573887	7040541	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159130	02/10/2010	GroundTruth_GB	573839	7040524	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159131	03/10/2010	GroundTruth_GB	571609	7040747	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10159132	03/10/2010	GroundTruth_GB	571658	7040763	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestBirch
10159133	03/10/2010	GroundTruth_GB	571707	7040778	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10159134	03/10/2010	GroundTruth_GB	571753	7040794	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159135	03/10/2010	GroundTruth_GB	571801	7040810	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159136	03/10/2010	GroundTruth_GB	571848	7040825	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159137	03/10/2010	GroundTruth_GB	571896	7040841	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159138	03/10/2010	GroundTruth_GB	571944	7040856	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159139	03/10/2010	GroundTruth_GB	571992	7040872	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70	Wet	Good	ForestBlackSpruce
10159140	03/10/2010	GroundTruth_GB	572038	7040887	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10159141	03/10/2010	GroundTruth_GB	572088	7040904	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159142	05/10/2010	GroundTruth_GB	570894	7039884	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159143	05/10/2010	GroundTruth_GB	570942	7039900	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159144	05/10/2010	GroundTruth_GB	570989	7039915	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159145	05/10/2010	GroundTruth_GB	571037	7039929	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10159146	05/10/2010	GroundTruth_GB	571085	7039946	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159147	05/10/2010	GroundTruth_GB	571133	7039961	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159148	05/10/2010	GroundTruth_GB	571180	7039977	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10159149	05/10/2010	GroundTruth_GB	571228	7039991	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10159151	05/10/2010	GroundTruth_GB	571275	7040008	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10159152	05/10/2010	GroundTruth_GB	571323	7040023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10159153	05/10/2010	GroundTruth_GB	571371	7040039	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159154	05/10/2010	GroundTruth_GB	571419	7040054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10159155	05/10/2010	GroundTruth_GB	571467	7040069	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10159156	05/10/2010	GroundTruth_GB	571515	7040085	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159157	05/10/2010	GroundTruth_GB	571561	7040101	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159158	05/10/2010	GroundTruth_GB	571610	7040116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159159	05/10/2010	GroundTruth_GB	571652	7040130	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159160	05/10/2010	GroundTruth_GB	571700	7040146	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159161	05/10/2010	GroundTruth_GB	571748	7040161	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159162	05/10/2010	GroundTruth_GB	571796	7040177	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10159163	05/10/2010	GroundTruth_GB	571844	7040192	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159164	05/10/2010	GroundTruth_GB	571891	7040207	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10159165	05/10/2010	GroundTruth_GB	571938	7040222	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159166	05/10/2010	GroundTruth_GB	571987	7040238	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10159167	05/10/2010	GroundTruth_GB	572034	7040253	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159168	05/10/2010	GroundTruth_GB	572081	7040269	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Good	ForestBlackSpruce
10159169	05/10/2010	GroundTruth_GB	572129	7040286	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159170	05/10/2010	GroundTruth_GB	572177	7040300	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159171	05/10/2010	GroundTruth_GB	572223	7040316	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10159172	05/10/2010	GroundTruth_GB	572271	7040331	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	60		Good	ForestBlackSpruce
10159173	05/10/2010	GroundTruth_GB	572319	7040346	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159174	10/10/2010	GroundTruth_GB	573884	7040224	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159175	10/10/2010	GroundTruth_GB	573837	7040208	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159214	10/10/2010	GroundTruth_GB	573788	7040191	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159215	10/10/2010	GroundTruth_GB	573741	7040175	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159216	10/10/2010	GroundTruth_GB	573693	7040161	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159217	10/10/2010	GroundTruth_GB	573642	7040146	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159218	10/10/2010	GroundTruth_GB	573599	7040129	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159220	10/10/2010	GroundTruth_GB	573551	7040112	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Excellent	ForestBlackSpruce
10159221	10/10/2010	GroundTruth_GB	573503	7040098	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159222	10/10/2010	GroundTruth_GB	573455	7040082	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159223	10/10/2010	GroundTruth_GB	573407	7040068	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100	Wet	Excellent	ForestBlackSpruce
10159224	10/10/2010	GroundTruth_GB	573360	7040052	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60	Wet	Good	ForestBlackSpruce
10159225	10/10/2010	GroundTruth_GB	573313	7040036	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Good	ForestBlackSpruce
10159226	10/10/2010	GroundTruth_GB	573265	7040020	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159227	10/10/2010	GroundTruth_GB	573216	7040006	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159228	10/10/2010	GroundTruth_GB	573172	7039991	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Good	ForestBlackSpruce
10159229	10/10/2010	GroundTruth_GB	573125	7039976	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159230	10/10/2010	GroundTruth_GB	573077	7039959	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	110		Excellent	ForestMixed
10159231	10/10/2010	GroundTruth_GB	573029	7039946	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Good	ForestMixed
10159232	10/10/2010	GroundTruth_GB	572982	7039931	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestMixed
10159233	10/10/2010	GroundTruth_GB	572934	7039915	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestMixed
10159234	10/10/2010	GroundTruth_GB	572886	7039899	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestBlackSpruce
10159235	10/10/2010	GroundTruth_GB	572837	7039883	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159236	10/10/2010	GroundTruth_GB	572791	7039869	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10159237	10/10/2010	GroundTruth_GB	572743	7039854	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159238	10/10/2010	GroundTruth_GB	572696	7039839	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159239	10/10/2010	GroundTruth_GB	572649	7039823	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10159240	10/10/2010	GroundTruth_GB	572601	7039806	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10159241	10/10/2010	GroundTruth_GB	572553	7039792	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159242	10/10/2010	GroundTruth_GB	572506	7039777	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10159251	05/10/2010	GroundTruth_DL	571431	7040171	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159252	05/10/2010	GroundTruth_DL	571477	7040184	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10159253	05/10/2010	GroundTruth_DL	571525	7040201	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159254	05/10/2010	GroundTruth_DL	571572	7040211	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159255	05/10/2010	GroundTruth_DL	571621	7040231	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159256	05/10/2010	GroundTruth_DL	571668	7040242	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10159257	05/10/2010	GroundTruth_DL	571717	7040259	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159258	05/10/2010	GroundTruth_DL	571764	7040272	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159259	05/10/2010	GroundTruth_DL	571812	7040287	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10159260	05/10/2010	GroundTruth_DL	571860	7040308	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10159261	05/10/2010	GroundTruth_DL	571907	7040322	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159262	05/10/2010	GroundTruth_DL	571956	7040334	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159264	05/10/2010	GroundTruth_DL	572002	7040347	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159265	05/10/2010	GroundTruth_DL	572051	7040367	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159266	05/10/2010	GroundTruth_DL	572097	7040381	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159267	05/10/2010	GroundTruth_DL	572145	7040398	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10159268	05/10/2010	GroundTruth_DL	572198	7040409	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10159269	05/10/2010	GroundTruth_DL	572243	7040428	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10159270	05/10/2010	GroundTruth_DL	572289	7040440	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10159333	10/10/2010	GroundTruth_DL	573825	7040408	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10159334	10/10/2010	GroundTruth_DL	573774	7040394	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestWhiteSpruce
10159335	10/10/2010	GroundTruth_DL	573729	7040381	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60	Wet	Good	ForestWhiteSpruce
10159336	10/10/2010	GroundTruth_DL	573676	7040356	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestWhiteSpruce
10159337	10/10/2010	GroundTruth_DL	573633	7040350	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10159338	10/10/2010	GroundTruth_DL	573584	7040336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159339	10/10/2010	GroundTruth_DL	573536	7040321	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Poor	ForestBlackSpruce
10159340	10/10/2010	GroundTruth_DL	573488	7040305	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159341	10/10/2010	GroundTruth_DL	573444	7040290	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159342	10/10/2010	GroundTruth_DL	573392	7040274	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159343	10/10/2010	GroundTruth_DL	573352	7040260	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159344	10/10/2010	GroundTruth_DL	573301	7040245	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159345	10/10/2010	GroundTruth_DL	573255	7040231	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159346	10/10/2010	GroundTruth_DL	573208	7040214	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100		Good	ForestBlackSpruce
10159347	10/10/2010	GroundTruth_DL	573158	7040202	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159348	10/10/2010	GroundTruth_DL	573111	7040180	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159349	10/10/2010	GroundTruth_DL	573065	7040166	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159350	10/10/2010	GroundTruth_DL	573016	7040152	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159351	10/10/2010	GroundTruth_DL	572970	7040139	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10159352	10/10/2010	GroundTruth_DL	572920	7040119	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159353	10/10/2010	GroundTruth_DL	572871	7040109	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10159354	10/10/2010	GroundTruth_DL	572823	7040090	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10159355	10/10/2010	GroundTruth_DL	572778	7040078	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10159356	10/10/2010	GroundTruth_DL	572733	7040059	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10159357	10/10/2010	GroundTruth_DL	572678	7040042	UTMZ7N_WGS84		RustyOrange	Sand	Steep	C	80		Excellent	ForestBlackSpruce
10159358	10/10/2010	GroundTruth_DL	572636	7040028	UTMZ7N_WGS84		RustyOrange	Sand	Steep	C	60		Good	ForestBlackSpruce
10159359	10/10/2010	GroundTruth_DL	572588	7040013	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	70		Good	ForestBlackSpruce
10159360	10/10/2010	GroundTruth_DL	572538	7039998	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10159361	10/10/2010	GroundTruth_DL	572490	7039979	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10159362	10/10/2010	GroundTruth_DL	572440	7039968	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10159363	11/10/2010	GroundTruth_DL	571018	7039506	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	60		Good	ForestBlackSpruce
10159364	11/10/2010	GroundTruth_DL	571064	7039524	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159365	11/10/2010	GroundTruth_DL	571113	7039539	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159366	11/10/2010	GroundTruth_DL	571160	7039557	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159367	11/10/2010	GroundTruth_DL	571207	7039571	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159368	11/10/2010	GroundTruth_DL	571254	7039583	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159369	11/10/2010	GroundTruth_DL	571309	7039603	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159370	11/10/2010	GroundTruth_DL	571349	7039618	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159371	03/10/2010	GroundTruth_DM	573641	7041302	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159373	04/10/2010	GroundTruth_DM	570833	7040075	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBirch
10159374	04/10/2010	GroundTruth_DM	570881	7040091	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159375	04/10/2010	GroundTruth_DM	570926	7040105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10159376	04/10/2010	GroundTruth_DM	570976	7040121	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159377	04/10/2010	GroundTruth_DM	571022	7040136	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159378	04/10/2010	GroundTruth_DM	571070	7040151	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	DrainageAlder
10159379	04/10/2010	GroundTruth_DM	571120	7040167	UTMZ7N_WGS84		Black	Sand	Moderate	C	110	Wet	Good	DrainageAlder
10159380	04/10/2010	GroundTruth_DM	571167	7040182	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110	Wet	Poor	DrainageAlder
10159381	04/10/2010	GroundTruth_DM	571214	7040198	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Poor	ForestBlackSpruce
10159382	04/10/2010	GroundTruth_DM	571261	7040214	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159383	04/10/2010	GroundTruth_DM	571311	7040229	UTMZ7N_WGS84		Black	Sand	Moderate	C	90	Frozen	Poor	ForestBlackSpruce
10159384	04/10/2010	GroundTruth_DM	571358	7040245	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159385	04/10/2010	GroundTruth_DM	571405	7040260	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10159386	04/10/2010	GroundTruth_DM	571452	7040275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	DrainageAlder
10159387	04/10/2010	GroundTruth_DM	571500	7040290	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	100		Good	ForestBlackSpruce
10159388	04/10/2010	GroundTruth_DM	571548	7040306	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	90		Excellent	ForestBlackSpruce
10159389	04/10/2010	GroundTruth_DM	571591	7040320	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159390	04/10/2010	GroundTruth_DM	571638	7040336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159391	04/10/2010	GroundTruth_DM	571687	7040351	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159392	04/10/2010	GroundTruth_DM	571734	7040366	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159393	04/10/2010	GroundTruth_DM	571782	7040382	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Poor	ForestBlackSpruce
10159394	04/10/2010	GroundTruth_DM	571830	7040398	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10159395	04/10/2010	GroundTruth_DM	571877	7040413	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159396	04/10/2010	GroundTruth_DM	571925	7040429	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159397	04/10/2010	GroundTruth_DM	571973	7040444	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159398	04/10/2010	GroundTruth_DM	572020	7040460	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159399	04/10/2010	GroundTruth_DM	572068	7040475	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159400	04/10/2010	GroundTruth_DM	572115	7040491	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159401	04/10/2010	GroundTruth_DM	572165	7040506	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159403	03/10/2010	GroundTruth_PM	573530	7041477	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159404	03/10/2010	GroundTruth_PM	573483	7041460	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159405	03/10/2010	GroundTruth_PM	573432	7041444	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159406	03/10/2010	GroundTruth_PM	573387	7041427	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100		Good	ForestBlackSpruce
10159407	03/10/2010	GroundTruth_PM	573340	7041413	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10159408	03/10/2010	GroundTruth_PM	573292	7041398	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159409	03/10/2010	GroundTruth_PM	573242	7041384	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159410	03/10/2010	GroundTruth_PM	573195	7041369	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159411	03/10/2010	GroundTruth_PM	573149	7041351	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159412	03/10/2010	GroundTruth_PM	573100	7041337	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159413	03/10/2010	GroundTruth_PM	573053	7041322	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10159414	03/10/2010	GroundTruth_PM	573006	7041305	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159415	03/10/2010	GroundTruth_PM	572957	7041291	UTMZ7N_WGS84		Black	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159416	03/10/2010	GroundTruth_PM	572909	7041274	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100		Good	ForestBlackSpruce
10159417	03/10/2010	GroundTruth_PM	572863	7041258	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159419	03/10/2010	GroundTruth_PM	572815	7041246	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159420	03/10/2010	GroundTruth_PM	572764	7041229	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159421	03/10/2010	GroundTruth_PM	572720	7041212	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159422	03/10/2010	GroundTruth_PM	572672	7041196	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159423	03/10/2010	GroundTruth_PM	572624	7041182	UTMZ7N_WGS84		RustyOrange	Sand	Flat	C	60		Excellent	ForestBlackSpruce
10159424	03/10/2010	GroundTruth_PM	572577	7041166	UTMZ7N_WGS84		RustyOrange	Sand	Flat	C	60		Excellent	ForestBlackSpruce
10159425	03/10/2010	GroundTruth_PM	572533	7041151	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159426	03/10/2010	GroundTruth_PM	572484	7041138	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159427	03/10/2010	GroundTruth_PM	572437	7041120	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159428	03/10/2010	GroundTruth_PM	572389	7041106	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159429	03/10/2010	GroundTruth_PM	572339	7041088	UTMZ7N_WGS84		Black	Sand	Moderate	C	60		Excellent	ForestAspen
10159430	03/10/2010	GroundTruth_PM	572294	7041074	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10159431	03/10/2010	GroundTruth_PM	572245	7041060	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159432	03/10/2010	GroundTruth_PM	572197	7041041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10159433	03/10/2010	GroundTruth_PM	572149	7041026	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Frozen	Good	ForestWhiteSpruce
10159434	03/10/2010	GroundTruth_PM	572102	7041013	UTMZ7N_WGS84		Black	Silt	Flat	C	60	Frozen	Poor	ForestWhiteSpruce
10159435	05/10/2010	GroundTruth_PM	571952	7040017	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10159436	03/10/2010	GroundTruth_CO	573560	7041383	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159437	03/10/2010	GroundTruth_CO	573513	7041367	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159438	03/10/2010	GroundTruth_CO	573464	7041351	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159439	03/10/2010	GroundTruth_CO	573418	7041336	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10159440	03/10/2010	GroundTruth_CO	573370	7041321	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159441	03/10/2010	GroundTruth_CO	573322	7041303	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159442	03/10/2010	GroundTruth_CO	573274	7041288	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159443	03/10/2010	GroundTruth_CO	573228	7041272	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159444	03/10/2010	GroundTruth_CO	573179	7041256	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159445	03/10/2010	GroundTruth_CO	573131	7041242	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159446	03/10/2010	GroundTruth_CO	573085	7041227	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159447	03/10/2010	GroundTruth_CO	573036	7041211	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159448	03/10/2010	GroundTruth_CO	572990	7041195	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159449	03/10/2010	GroundTruth_CO	572942	7041179	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159450	03/10/2010	GroundTruth_CO	572893	7041164	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159451	03/10/2010	GroundTruth_CO	572846	7041147	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159452	03/10/2010	GroundTruth_CO	572799	7041132	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159453	03/10/2010	GroundTruth_CO	572752	7041116	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159454	03/10/2010	GroundTruth_CO	572706	7041103	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159455	03/10/2010	GroundTruth_CO	572658	7041086	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159456	03/10/2010	GroundTruth_CO	572611	7041071	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159457	03/10/2010	GroundTruth_CO	572563	7041057	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159458	03/10/2010	GroundTruth_CO	572515	7041042	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159459	03/10/2010	GroundTruth_CO	572467	7041026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10159460	03/10/2010	GroundTruth_CO	572419	7041010	UTMZ7N_WGS84		Green	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159461	03/10/2010	GroundTruth_CO	572373	7040995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159462	03/10/2010	GroundTruth_CO	572326	7040980	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159463	03/10/2010	GroundTruth_CO	572277	7040965	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159465	03/10/2010	GroundTruth_CO	572230	7040949	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159466	03/10/2010	GroundTruth_CO	572183	7040933	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10159467	03/10/2010	GroundTruth_CO	572135	7040918	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	70	Frozen	Poor	ForestBlackSpruce
10159469	07/10/2010	GroundTruth_CO	573571	7040541	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159470	07/10/2010	GroundTruth_CO	573523	7040526	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159471	11/10/2010	GroundTruth_MR	571205	7039252	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10159472	11/10/2010	GroundTruth_MR	571253	7039266	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10159473	11/10/2010	GroundTruth_MR	571301	7039282	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159474	11/10/2010	GroundTruth_MR	571348	7039298	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159475	11/10/2010	GroundTruth_MR	571397	7039312	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10159501	11/10/2010	GroundTruth_MR	571778	7039437	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90		Good	ForestWhiteSpruce
10159502	11/10/2010	GroundTruth_MR	571826	7039454	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	80	Wet	Poor	ForestWhiteSpruce
10159503	11/10/2010	GroundTruth_MR	571872	7039468	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90	Wet	Good	ForestWhiteSpruce
10159504	11/10/2010	GroundTruth_MR	571920	7039484	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	70	Wet	Poor	ForestWhiteSpruce
10159505	11/10/2010	GroundTruth_MR	571968	7039499	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	70	Wet	Poor	ForestWhiteSpruce
10159506	11/10/2010	GroundTruth_MR	572015	7039514	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	60	Wet	Poor	ForestWhiteSpruce
10159507	11/10/2010	GroundTruth_MR	572057	7039532	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	50	Wet	Poor	ForestWhiteSpruce
10159508	11/10/2010	GroundTruth_MR	572105	7039545	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90	Wet	Good	ForestWhiteSpruce
10159509	11/10/2010	GroundTruth_MR	572153	7039560	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60	Wet	Poor	ForestWhiteSpruce
10159510	11/10/2010	GroundTruth_MR	572201	7039574	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70	Wet	Poor	ForestWhiteSpruce
10159511	11/10/2010	GroundTruth_MR	572247	7039591	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Excellent	ForestWhiteSpruce
10159512	11/10/2010	GroundTruth_MR	572296	7039605	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50	Wet	Good	ForestWhiteSpruce
10159513	11/10/2010	GroundTruth_MR	572344	7039621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159514	11/10/2010	GroundTruth_MR	572391	7039636	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10159515	11/10/2010	GroundTruth_MR	572439	7039651	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10159517	11/10/2010	GroundTruth_MR	572487	7039666	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	50		Poor	ForestWhiteSpruce
10159521	13/10/2010	GroundTruth_MR	574160	7039370	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10159522	13/10/2010	GroundTruth_MR	574113	7039353	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestBlackSpruce
10159523	13/10/2010	GroundTruth_MR	574065	7039338	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10159524	13/10/2010	GroundTruth_MR	574018	7039323	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159525	13/10/2010	GroundTruth_MR	573970	7039306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159526	13/10/2010	GroundTruth_MR	573922	7039291	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159527	13/10/2010	GroundTruth_MR	573874	7039275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159528	13/10/2010	GroundTruth_MR	573826	7039260	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10159529	13/10/2010	GroundTruth_MR	573779	7039245	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestWhiteSpruce
10159530	13/10/2010	GroundTruth_MR	573732	7039228	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159531	13/10/2010	GroundTruth_MR	573684	7039213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159532	13/10/2010	GroundTruth_MR	573636	7039197	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159533	13/10/2010	GroundTruth_MR	573589	7039183	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10159535	13/10/2010	GroundTruth_MR	573541	7039166	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	40		Good	ForestWhiteSpruce
10159536	13/10/2010	GroundTruth_MR	573493	7039151	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10159537	13/10/2010	GroundTruth_MR	573446	7039136	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10159539	13/10/2010	GroundTruth_MR	573398	7039120	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10159540	13/10/2010	GroundTruth_MR	573350	7039103	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10159541	13/10/2010	GroundTruth_MR	573304	7039088	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestWhiteSpruce
10159542	13/10/2010	GroundTruth_MR	573258	7039074	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100	Wet	Good	ForestWhiteSpruce
10159543	13/10/2010	GroundTruth_MR	573212	7039059	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80	Wet	Good	ForestWhiteSpruce
10159544	13/10/2010	GroundTruth_MR	573164	7039045	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70	Wet	Good	ForestWhiteSpruce
10159545	13/10/2010	GroundTruth_MR	573117	7039029	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100	Wet	Good	ForestWhiteSpruce
10159546	13/10/2010	GroundTruth_MR	573068	7039013	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	110	Wet	Good	ForestWhiteSpruce
10159547	13/10/2010	GroundTruth_MR	573020	7038998	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestWhiteSpruce
10159548	13/10/2010	GroundTruth_MR	572973	7038982	UTMZ7N_WGS84		Green	Sand	Flat	C	90		Excellent	ForestWhiteSpruce
10159549	13/10/2010	GroundTruth_MR	572925	7038967	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100	Wet	Poor	ForestWhiteSpruce
10159550	13/10/2010	GroundTruth_MR	572878	7038952	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestWhiteSpruce
10159551	13/10/2010	GroundTruth_MR	572830	7038936	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	70		Poor	ForestWhiteSpruce
10159552	13/10/2010	GroundTruth_MR	572783	7038920	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Poor	ForestWhiteSpruce
10159650	11/10/2010	GroundTruth_DL	571396	7039634	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159651	11/10/2010	GroundTruth_DL	571443	7039652	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159652	11/10/2010	GroundTruth_DL	571491	7039665	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10159653	11/10/2010	GroundTruth_DL	571542	7039678	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159654	11/10/2010	GroundTruth_DL	571584	7039697	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159655	11/10/2010	GroundTruth_DL	571630	7039711	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159656	11/10/2010	GroundTruth_DL	571676	7039727	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10159657	11/10/2010	GroundTruth_DL	571726	7039742	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159658	11/10/2010	GroundTruth_DL	571772	7039753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159659	11/10/2010	GroundTruth_DL	571820	7039767	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Excellent	ForestBlackSpruce
10159660	11/10/2010	GroundTruth_DL	571867	7039788	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10159661	11/10/2010	GroundTruth_DL	571919	7039798	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Excellent	ForestBlackSpruce
10159662	11/10/2010	GroundTruth_DL	571966	7039814	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159663	11/10/2010	GroundTruth_DL	572013	7039830	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159664	11/10/2010	GroundTruth_DL	572060	7039848	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159665	11/10/2010	GroundTruth_DL	572107	7039864	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10159667	11/10/2010	GroundTruth_DL	572155	7039877	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159668	11/10/2010	GroundTruth_DL	572202	7039893	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159669	11/10/2010	GroundTruth_DL	572249	7039907	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159671	11/10/2010	GroundTruth_DL	572298	7039920	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159673	11/10/2010	GroundTruth_DL	572347	7039938	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159674	11/10/2010	GroundTruth_DL	572396	7039950	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159676	13/10/2010	GroundTruth_DL	574131	7039468	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10159677	13/10/2010	GroundTruth_DL	574084	7039447	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce
10159678	13/10/2010	GroundTruth_DL	574035	7039434	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10159679	13/10/2010	GroundTruth_DL	573987	7039417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Poor	ForestBlackSpruce
10159680	13/10/2010	GroundTruth_DL	573941	7039400	UTMZ7N_WGS84	TalusFine	BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159681	13/10/2010	GroundTruth_DL	573888	7039381	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159682	13/10/2010	GroundTruth_DL	573844	7039371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce
10159683	13/10/2010	GroundTruth_DL	573796	7039352	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159684	13/10/2010	GroundTruth_DL	573748	7039336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159685	13/10/2010	GroundTruth_DL	573700	7039324	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159686	13/10/2010	GroundTruth_DL	573655	7039309	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159687	13/10/2010	GroundTruth_DL	573611	7039293	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Excellent	ForestBlackSpruce
10159688	13/10/2010	GroundTruth_DL	573561	7039282	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Excellent	ForestBlackSpruce
10159689	13/10/2010	GroundTruth_DL	573514	7039261	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159690	13/10/2010	GroundTruth_DL	573466	7039249	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159691	13/10/2010	GroundTruth_DL	573417	7039227	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159692	13/10/2010	GroundTruth_DL	573370	7039216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159693	13/10/2010	GroundTruth_DL	573325	7039201	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Excellent	ForestBlackSpruce
10159694	13/10/2010	GroundTruth_DL	573275	7039184	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Excellent	ForestBlackSpruce
10159695	13/10/2010	GroundTruth_DL	573229	7039171	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159696	13/10/2010	GroundTruth_DL	573181	7039156	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159697	13/10/2010	GroundTruth_DL	573131	7039140	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159698	13/10/2010	GroundTruth_DL	573085	7039123	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159699	13/10/2010	GroundTruth_DL	573038	7039112	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10159700	13/10/2010	GroundTruth_DL	572991	7039095	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10159701	13/10/2010	GroundTruth_DL	572941	7039077	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Frozen	Good	ForestBlackSpruce
10159702	13/10/2010	GroundTruth_DL	572893	7039062	UTMZ7N_WGS84		Black	Sand	Moderate	C	110		Poor	ForestBlackSpruce
10159703	13/10/2010	GroundTruth_DL	572845	7039046	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10159705	13/10/2010	GroundTruth_DL	572798	7039029	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10159706	13/10/2010	GroundTruth_DL	572748	7039014	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10159781	14/10/2010	GroundTruth_MF	571897	7038424	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	40		Good	ForestWhiteSpruce
10159782	14/10/2010	GroundTruth_MF	571938	7038435	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	80		Good	ForestBirch
10159783	14/10/2010	GroundTruth_MF	571984	7038452	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce
10159784	14/10/2010	GroundTruth_MF	572034	7038467	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestWhiteSpruce
10159785	14/10/2010	GroundTruth_MF	572077	7038482	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10159786	14/10/2010	GroundTruth_MF	572128	7038498	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10159787	14/10/2010	GroundTruth_MF	572178	7038515	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10159788	14/10/2010	GroundTruth_MF	572226	7038530	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10159790	14/10/2010	GroundTruth_MF	572272	7038544	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10159791	14/10/2010	GroundTruth_MF	572323	7038560	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10159792	14/10/2010	GroundTruth_MF	572366	7038576	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10159793	14/10/2010	GroundTruth_MF	572416	7038591	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10159794	14/10/2010	GroundTruth_MF	572466	7038605	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10159795	14/10/2010	GroundTruth_MF	572510	7038622	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10159797	14/10/2010	GroundTruth_MF	572556	7038637	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10159798	14/10/2010	GroundTruth_MF	572606	7038653	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	100		Good	ForestWhiteSpruce
10159799	14/10/2010	GroundTruth_MF	572657	7038669	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestWhiteSpruce
10159800	14/10/2010	GroundTruth_MF	572700	7038684	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	30		Good	ForestWhiteSpruce
10159801	14/10/2010	GroundTruth_MF	572748	7038699	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10159802	14/10/2010	GroundTruth_MF	572796	7038715	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	40	Frozen	Poor	ForestBlackSpruce
10159941	12/10/2010	GroundTruth_CO	571267	7038746	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10159942	12/10/2010	GroundTruth_CO	571314	7038761	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159943	12/10/2010	GroundTruth_CO	571361	7038776	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159944	12/10/2010	GroundTruth_CO	571409	7038790	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159945	12/10/2010	GroundTruth_CO	571455	7038807	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10159946	12/10/2010	GroundTruth_CO	571504	7038822	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159947	12/10/2010	GroundTruth_CO	571551	7038839	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159948	12/10/2010	GroundTruth_CO	571599	7038853	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159949	12/10/2010	GroundTruth_CO	571646	7038871	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159950	12/10/2010	GroundTruth_CO	571695	7038887	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159951	12/10/2010	GroundTruth_CO	571741	7038902	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159952	12/10/2010	GroundTruth_CO	571790	7038918	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159953	12/10/2010	GroundTruth_CO	571837	7038933	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159954	12/10/2010	GroundTruth_CO	571886	7038948	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159955	12/10/2010	GroundTruth_CO	571932	7038962	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159956	12/10/2010	GroundTruth_CO	571980	7038979	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159957	12/10/2010	GroundTruth_CO	572027	7038996	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159958	12/10/2010	GroundTruth_CO	572076	7039011	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159959	12/10/2010	GroundTruth_CO	572122	7039025	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10159960	12/10/2010	GroundTruth_CO	572164	7039039	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159961	12/10/2010	GroundTruth_CO	572213	7039054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159962	12/10/2010	GroundTruth_CO	572261	7039070	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10159963	12/10/2010	GroundTruth_CO	572309	7039084	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159964	12/10/2010	GroundTruth_CO	572357	7039099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159965	12/10/2010	GroundTruth_CO	572404	7039115	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159966	12/10/2010	GroundTruth_CO	572452	7039130	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159967	12/10/2010	GroundTruth_CO	572500	7039147	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Excellent	ForestBlackSpruce
10159968	12/10/2010	GroundTruth_CO	572546	7039162	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159969	12/10/2010	GroundTruth_CO	572594	7039175	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159971	12/10/2010	GroundTruth_CO	572642	7039192	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159972	12/10/2010	GroundTruth_CO	572659	7039300	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10159973	12/10/2010	GroundTruth_CO	572707	7039317	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159974	12/10/2010	GroundTruth_CO	572755	7039332	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10159975	14/10/2010	GroundTruth_CO	571455	7038174	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159976	14/10/2010	GroundTruth_CO	571501	7038190	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159977	14/10/2010	GroundTruth_CO	571548	7038203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159978	14/10/2010	GroundTruth_CO	571597	7038220	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159979	14/10/2010	GroundTruth_CO	571643	7038235	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159980	14/10/2010	GroundTruth_CO	571739	7038267	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10159981	14/10/2010	GroundTruth_CO	571788	7038283	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159982	14/10/2010	GroundTruth_CO	571834	7038298	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159983	14/10/2010	GroundTruth_CO	571692	7038252	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Good	ForestBlackSpruce
10159984	14/10/2010	GroundTruth_CO	571881	7038314	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159985	14/10/2010	GroundTruth_CO	571929	7038330	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159986	14/10/2010	GroundTruth_CO	571978	7038346	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159987	14/10/2010	GroundTruth_CO	572023	7038363	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159988	14/10/2010	GroundTruth_CO	572161	7038406	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159989	14/10/2010	GroundTruth_CO	572065	7038376	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10159990	14/10/2010	GroundTruth_CO	572111	7038392	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159991	14/10/2010	GroundTruth_CO	572208	7038421	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10159992	14/10/2010	GroundTruth_CO	572254	7038438	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10159993	14/10/2010	GroundTruth_CO	572302	7038452	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159994	14/10/2010	GroundTruth_CO	572350	7038468	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10159995	14/10/2010	GroundTruth_CO	572397	7038483	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10159996	14/10/2010	GroundTruth_CO	572446	7038496	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10159997	14/10/2010	GroundTruth_CO	572494	7038512	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159998	14/10/2010	GroundTruth_CO	572542	7038526	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10159999	14/10/2010	GroundTruth_CO	572590	7038543	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160001	28/09/2010	GroundTruth_MR	574988	7041846	UTMZ7N_WGS84		Orange	Silt	Moderate	B	40		Good	ForestBlackSpruce
10160002	28/09/2010	GroundTruth_MR	575036	7041861	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160003	28/09/2010	GroundTruth_MR	575084	7041877	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160005	28/09/2010	GroundTruth_MR	575130	7041893	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160006	28/09/2010	GroundTruth_MR	575179	7041907	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90		Excellent	ForestBlackSpruce
10160007	28/09/2010	GroundTruth_MR	575227	7041923	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160008	28/09/2010	GroundTruth_MR	575274	7041939	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160009	28/09/2010	GroundTruth_MR	575323	7041953	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160010	28/09/2010	GroundTruth_MR	575369	7041971	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160011	28/09/2010	GroundTruth_MR	575417	7041984	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160012	28/09/2010	GroundTruth_MR	575464	7042002	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160013	28/09/2010	GroundTruth_MR	575512	7042017	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160014	28/09/2010	GroundTruth_MR	575560	7042032	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160015	28/09/2010	GroundTruth_MR	575608	7042048	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10160016	28/09/2010	GroundTruth_MR	575656	7042063	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10160017	28/09/2010	GroundTruth_MR	575703	7042078	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10160018	28/09/2010	GroundTruth_MR	575751	7042094	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160019	28/09/2010	GroundTruth_MR	575799	7042110	UTMZ7N_WGS84		BrownDark		Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10160020	28/09/2010	GroundTruth_MR	575846	7042124	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10160021	28/09/2010	GroundTruth_MR	575894	7042140	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160022	28/09/2010	GroundTruth_MR	575939	7042154	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160023	28/09/2010	GroundTruth_MR	575986	7042171	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160024	28/09/2010	GroundTruth_MR	576033	7042187	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160025	28/09/2010	GroundTruth_MR	576080	7042202	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10160026	28/09/2010	GroundTruth_MR	576128	7042218	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160027	28/09/2010	GroundTruth_MR	576177	7042232	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10160028	28/09/2010	GroundTruth_MR	576223	7042248	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160029	28/09/2010	GroundTruth_MR	576270	7042264	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90	Frozen	Poor	ForestWhiteSpruce
10160030	28/09/2010	GroundTruth_MR	576319	7042277	UTMZ7N_WGS84		Grey	Silt	Moderate	B	80		Poor	ForestWhiteSpruce
10160031	28/09/2010	GroundTruth_MR	576367	7042294	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10160032	28/09/2010	GroundTruth_MR	576414	7042310	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160033	29/09/2010	GroundTruth_MR	575327	7040800	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160034	29/09/2010	GroundTruth_MR	575376	7040815	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160035	29/09/2010	GroundTruth_MR	575424	7040830	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160036	29/09/2010	GroundTruth_MR	575471	7040847	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160037	29/09/2010	GroundTruth_MR	575520	7040861	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160038	29/09/2010	GroundTruth_MR	575567	7040876	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160040	29/09/2010	GroundTruth_MR	575615	7040893	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110	Wet	Excellent	ForestBlackSpruce
10160041	29/09/2010	GroundTruth_MR	575662	7040908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10160043	29/09/2010	GroundTruth_MR	575710	7040923	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10160044	29/09/2010	GroundTruth_MR	575757	7040940	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160045	29/09/2010	GroundTruth_MR	575806	7040954	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160047	29/09/2010	GroundTruth_MR	575850	7040968	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10160048	29/09/2010	GroundTruth_MR	575897	7040984	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Wet	Poor	ForestBlackSpruce
10160049	29/09/2010	GroundTruth_MR	575944	7040999	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10160050	29/09/2010	GroundTruth_MR	575991	7041015	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160051	29/09/2010	GroundTruth_MR	576039	7041031	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10160052	29/09/2010	GroundTruth_MR	576087	7041046	UTMZ7N_WGS84		BrownDark		Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10160053	29/09/2010	GroundTruth_MR	576134	7041060	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160054	29/09/2010	GroundTruth_MR	576181	7041077	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10160055	29/09/2010	GroundTruth_MR	576229	7041092	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10160056	29/09/2010	GroundTruth_MR	576277	7041107	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10160057	29/09/2010	GroundTruth_MR	576324	7041123	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Poor	ForestBlackSpruce
10160058	29/09/2010	GroundTruth_MR	576373	7041137	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce
10160059	29/09/2010	GroundTruth_MR	576420	7041154	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160060	29/09/2010	GroundTruth_MR	576468	7041169	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160061	29/09/2010	GroundTruth_MR	576517	7041184	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160062	29/09/2010	GroundTruth_MR	576563	7041200	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	BurnOld
10160063	29/09/2010	GroundTruth_MR	576611	7041216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	BurnOld
10160064	29/09/2010	GroundTruth_MR	576659	7041231	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	BurnOld
10160065	29/09/2010	GroundTruth_MR	576707	7041247	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	BurnOld
10160066	29/09/2010	GroundTruth_MR	576754	7041261	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	BurnOld
10160068	30/09/2010	GroundTruth_MR	577002	7040501	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	BurnOld
10160069	30/09/2010	GroundTruth_MR	576905	7040468	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBlackSpruce
10160070	30/09/2010	GroundTruth_MR	576953	7040484	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Poor	ForestBlackSpruce
10160071	30/09/2010	GroundTruth_MR	576857	7040455	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestBlackSpruce
10160072	30/09/2010	GroundTruth_MR	576809	7040439	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Poor	ForestBlackSpruce
10160073	30/09/2010	GroundTruth_MR	576762	7040422	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10160074	30/09/2010	GroundTruth_MR	576715	7040406	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160075	30/09/2010	GroundTruth_MR	576667	7040392	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160076	30/09/2010	GroundTruth_MR	576619	7040377	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10160077	30/09/2010	GroundTruth_MR	576571	7040360	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Poor	ForestBlackSpruce
10160078	30/09/2010	GroundTruth_MR	576523	7040344	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160079	30/09/2010	GroundTruth_MR	576476	7040328	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	70		Good	ForestBlackSpruce
10160080	30/09/2010	GroundTruth_MR	576428	7040314	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Excellent	ForestBlackSpruce
10160082	30/09/2010	GroundTruth_MR	576380	7040299	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10160083	30/09/2010	GroundTruth_MR	576333	7040284	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10160084	28/09/2010	GroundTruth_TW	575018	7041753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160085	28/09/2010	GroundTruth_TW	575066	7041765	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160086	28/09/2010	GroundTruth_TW	575112	7041780	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160087	28/09/2010	GroundTruth_TW	575162	7041796	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160088	28/09/2010	GroundTruth_TW	575209	7041811	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160089	28/09/2010	GroundTruth_TW	575256	7041827	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160090	28/09/2010	GroundTruth_TW	575304	7041842	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160091	28/09/2010	GroundTruth_TW	575352	7041857	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160092	28/09/2010	GroundTruth_TW	575399	7041872	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160093	28/09/2010	GroundTruth_TW	575449	7041891	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160094	28/09/2010	GroundTruth_TW	575495	7041902	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160095	28/09/2010	GroundTruth_TW	575543	7041918	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160096	28/09/2010	GroundTruth_TW	575590	7041936	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160097	28/09/2010	GroundTruth_TW	575636	7041952	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160098	28/09/2010	GroundTruth_TW	575681	7041968	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160099	28/09/2010	GroundTruth_TW	575730	7041981	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160100	28/09/2010	GroundTruth_TW	575776	7041998	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160101	28/09/2010	GroundTruth_TW	575825	7042012	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160102	28/09/2010	GroundTruth_TW	575872	7042029	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160103	28/09/2010	GroundTruth_TW	575921	7042043	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160104	28/09/2010	GroundTruth_TW	575967	7042059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160105	28/09/2010	GroundTruth_TW	576014	7042073	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160106	28/09/2010	GroundTruth_TW	576062	7042091	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBirch
10160107	28/09/2010	GroundTruth_TW	576110	7042105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160109	28/09/2010	GroundTruth_TW	576160	7042121	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160110	28/09/2010	GroundTruth_TW	576206	7042138	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Excellent	ForestBlackSpruce
10160111	28/09/2010	GroundTruth_TW	576252	7042152	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160112	28/09/2010	GroundTruth_TW	576299	7042167	UTMZ7N_WGS84		BrownLight	Clay	Moderate	B	70		Poor	ForestBlackSpruce
10160113	28/09/2010	GroundTruth_TW	576349	7042182	UTMZ7N_WGS84		BrownLight	Clay	Moderate	B	60		Good	ForestBlackSpruce
10160114	28/09/2010	GroundTruth_TW	576396	7042199	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Poor	ForestBlackSpruce
10160115	28/09/2010	GroundTruth_TW	576446	7042214	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Poor	ForestBlackSpruce
10160116	29/09/2010	GroundTruth_TW	575295	7040893	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160117	29/09/2010	GroundTruth_TW	575343	7040909	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160118	29/09/2010	GroundTruth_TW	575390	7040925	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160119	29/09/2010	GroundTruth_TW	575438	7040940	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160120	29/09/2010	GroundTruth_TW	575486	7040956	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160121	29/09/2010	GroundTruth_TW	575532	7040972	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160122	29/09/2010	GroundTruth_TW	575582	7040989	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160123	29/09/2010	GroundTruth_TW	575628	7041004	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160124	29/09/2010	GroundTruth_TW	575678	7041020	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160125	29/09/2010	GroundTruth_TW	575724	7041038	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10160126	29/09/2010	GroundTruth_TW	575772	7041052	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160127	29/09/2010	GroundTruth_TW	575817	7041067	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160128	29/09/2010	GroundTruth_TW	575863	7041083	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160129	29/09/2010	GroundTruth_TW	575912	7041097	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160130	29/09/2010	GroundTruth_TW	575960	7041112	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160131	29/09/2010	GroundTruth_TW	576008	7041127	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160132	29/09/2010	GroundTruth_TW	576054	7041144	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160133	29/09/2010	GroundTruth_TW	576102	7041160	UTMZ7N_WGS84			Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160134	29/09/2010	GroundTruth_TW	576150	7041174	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160135	29/09/2010	GroundTruth_TW	576198	7041189	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10160136	29/09/2010	GroundTruth_TW	576246	7041203	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160137	29/09/2010	GroundTruth_TW	576293	7041219	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160138	29/09/2010	GroundTruth_TW	576341	7041235	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160139	29/09/2010	GroundTruth_TW	576390	7041251	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10160140	29/09/2010	GroundTruth_TW	576433	7041265	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160141	29/09/2010	GroundTruth_TW	576485	7041280	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160142	29/09/2010	GroundTruth_TW	576531	7041296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBirch
10160143	29/09/2010	GroundTruth_TW	576580	7041312	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10160144	29/09/2010	GroundTruth_TW	576628	7041326	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10160146	29/09/2010	GroundTruth_TW	576676	7041342	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160147	29/09/2010	GroundTruth_TW	576726	7041357	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	BurnOld
10160148	30/09/2010	GroundTruth_TW	575668	7039753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160149	30/09/2010	GroundTruth_TW	575622	7039737	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10160150	30/09/2010	GroundTruth_TW	575573	7039724	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10160151	30/09/2010	GroundTruth_TW	575523	7039709	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	50	Frozen	Good	ForestWhiteSpruce
10160152	30/09/2010	GroundTruth_TW	575479	7039692	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	40	Frozen	Good	ForestBlackSpruce
10160153	30/09/2010	GroundTruth_TW	575432	7039675	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Excellent	ForestBlackSpruce
10160154	30/09/2010	GroundTruth_TW	575384	7039659	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160155	30/09/2010	GroundTruth_TW	575336	7039645	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160156	30/09/2010	GroundTruth_TW	575289	7039628	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160157	30/09/2010	GroundTruth_TW	575240	7039613	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160158	30/09/2010	GroundTruth_TW	575192	7039599	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160160	30/09/2010	GroundTruth_TW	575145	7039581	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10160161	30/09/2010	GroundTruth_TW	575098	7039567	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10160162	30/09/2010	GroundTruth_TW	575050	7039553	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160163	30/09/2010	GroundTruth_TW	575003	7039537	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Poor	ForestBirch
10160164	30/09/2010	GroundTruth_TW	574954	7039518	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160165	30/09/2010	GroundTruth_TW	574909	7039503	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160166	30/09/2010	GroundTruth_TW	574859	7039487	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160167	30/09/2010	GroundTruth_TW	574762	7039457	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160168	30/09/2010	GroundTruth_TW	574716	7039443	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10160169	30/09/2010	GroundTruth_TW	574670	7039426	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160170	30/09/2010	GroundTruth_TW	574622	7039412	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160171	30/09/2010	GroundTruth_TW	574575	7039395	UTMZ7N_WGS84		BrownDark	Clay	Steep	B	40	Frozen	Poor	ForestBlackSpruce
10160172	30/09/2010	GroundTruth_TW	574526	7039381	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160173	30/09/2010	GroundTruth_TW	574478	7039366	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160174	30/09/2010	GroundTruth_TW	574384	7039336	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160175	30/09/2010	GroundTruth_TW	574335	7039319	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Good	ForestBlackSpruce
10160176	30/09/2010	GroundTruth_TW	574288	7039303	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160177	30/09/2010	GroundTruth_TW	574241	7039291	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Good	ForestBlackSpruce
10160179	01/10/2010	GroundTruth_TW	575342	7040594	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160180	01/10/2010	GroundTruth_TW	575296	7040577	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160181	01/10/2010	GroundTruth_TW	575247	7040563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160182	01/10/2010	GroundTruth_TW	575200	7040548	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160183	01/10/2010	GroundTruth_TW	575152	7040529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160184	28/09/2010	GroundTruth_AC	575080	7041561	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160185	28/09/2010	GroundTruth_AC	575131	7041581	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160186	28/09/2010	GroundTruth_AC	575175	7041591	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160187	28/09/2010	GroundTruth_AC	575222	7041609	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160188	28/09/2010	GroundTruth_AC	575270	7041624	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160189	28/09/2010	GroundTruth_AC	575319	7041640	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160190	28/09/2010	GroundTruth_AC	575365	7041657	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160191	28/09/2010	GroundTruth_AC	575414	7041669	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160192	28/09/2010	GroundTruth_AC	575460	7041688	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160193	28/09/2010	GroundTruth_AC	575509	7041704	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160194	28/09/2010	GroundTruth_AC	575556	7041718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160195	28/09/2010	GroundTruth_AC	575603	7041734	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160196	28/09/2010	GroundTruth_AC	575653	7041749	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10160197	28/09/2010	GroundTruth_AC	575697	7041766	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160198	28/09/2010	GroundTruth_AC	575745	7041782	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160199	28/09/2010	GroundTruth_AC	575795	7041793	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10160200	28/09/2010	GroundTruth_AC	575843	7041810	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160201	28/09/2010	GroundTruth_AC	575889	7041828	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Poor	ForestBlackSpruce
10160202	28/09/2010	GroundTruth_AC	575936	7041840	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160203	28/09/2010	GroundTruth_AC	575984	7041859	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160205	28/09/2010	GroundTruth_AC	576028	7041871	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10160206	28/09/2010	GroundTruth_AC	576077	7041888	UTMZ7N_WGS84		RustyRed	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10160207	28/09/2010	GroundTruth_AC	576124	7041904	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestBlackSpruce
10160208	28/09/2010	GroundTruth_AC	576172	7041918	UTMZ7N_WGS84		BrownLight	Gravel	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10160209	28/09/2010	GroundTruth_AC	576221	7041933	UTMZ7N_WGS84		BrownLight	Gravel	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10160210	28/09/2010	GroundTruth_AC	576269	7041950	UTMZ7N_WGS84		BrownDark	Gravel	Flat	C	50		Good	ForestBlackSpruce
10160211	28/09/2010	GroundTruth_AC	576316	7041963	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160212	28/09/2010	GroundTruth_AC	576362	7041977	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160213	28/09/2010	GroundTruth_AC	576411	7041997	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160214	28/09/2010	GroundTruth_AC	576460	7042008	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10160215	28/09/2010	GroundTruth_AC	576506	7042023	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Good	ForestBlackSpruce
10160216	30/09/2010	GroundTruth_AC	576971	7040597	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Good	BurnOld
10160217	30/09/2010	GroundTruth_AC	576923	7040583	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160218	30/09/2010	GroundTruth_AC	576874	7040565	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160219	30/09/2010	GroundTruth_AC	576827	7040550	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160220	30/09/2010	GroundTruth_AC	576778	7040534	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160221	30/09/2010	GroundTruth_AC	576730	7040521	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160222	30/09/2010	GroundTruth_AC	576684	7040502	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160223	30/09/2010	GroundTruth_AC	576637	7040485	UTMZ7N_WGS84		Black		Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160225	30/09/2010	GroundTruth_AC	576587	7040471	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160226	30/09/2010	GroundTruth_AC	576541	7040454	UTMZ7N_WGS84		BrownDark		Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10160227	30/09/2010	GroundTruth_AC	576493	7040438	UTMZ7N_WGS84		BrownDark		Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10160228	30/09/2010	GroundTruth_AC	576447	7040423	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10160229	30/09/2010	GroundTruth_AC	576398	7040407	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Poor	ForestBlackSpruce
10160230	30/09/2010	GroundTruth_AC	576350	7040392	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160231	30/09/2010	GroundTruth_AC	576303	7040374	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160232	30/09/2010	GroundTruth_AC	576256	7040360	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160233	30/09/2010	GroundTruth_AC	576208	7040340	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160234	30/09/2010	GroundTruth_AC	576161	7040328	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce

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Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160235	30/09/2010	GroundTruth_AC	576112	7040310	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160236	30/09/2010	GroundTruth_AC	576066	7040294	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160237	30/09/2010	GroundTruth_AC	576020	7040282	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160238	30/09/2010	GroundTruth_AC	575974	7040266	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160240	30/09/2010	GroundTruth_AC	575926	7040252	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160241	30/09/2010	GroundTruth_AC	575879	7040236	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160242	30/09/2010	GroundTruth_AC	575829	7040222	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160243	30/09/2010	GroundTruth_AC	575783	7040208	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160244	30/09/2010	GroundTruth_AC	575734	7040194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160245	30/09/2010	GroundTruth_AC	575686	7040177	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160246	30/09/2010	GroundTruth_AC	575639	7040165	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160247	30/09/2010	GroundTruth_AC	575589	7040146	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160248	30/09/2010	GroundTruth_AC	575542	7040131	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10160249	02/10/2010	GroundTruth_AC	575002	7041639	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160250	02/10/2010	GroundTruth_AC	574954	7041623	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160252	01/10/2010	GroundTruth_AC	575588	7039833	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	60		Good	ForestWhiteSpruce
10160253	01/10/2010	GroundTruth_AC	575541	7039820	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	100		Good	ForestWhiteSpruce
10160254	01/10/2010	GroundTruth_AC	575491	7039804	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	60		Poor	ForestWhiteSpruce
10160255	01/10/2010	GroundTruth_AC	575445	7039788	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160256	01/10/2010	GroundTruth_AC	575397	7039773	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160257	01/10/2010	GroundTruth_AC	575352	7039756	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Poor	ForestWhiteSpruce
10160258	01/10/2010	GroundTruth_AC	575304	7039739	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160259	01/10/2010	GroundTruth_AC	575254	7039724	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160260	01/10/2010	GroundTruth_AC	575208	7039707	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160261	01/10/2010	GroundTruth_AC	575160	7039692	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160262	01/10/2010	GroundTruth_AC	575113	7039676	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160263	01/10/2010	GroundTruth_AC	575064	7039660	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160264	01/10/2010	GroundTruth_AC	575017	7039644	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160265	01/10/2010	GroundTruth_AC	574970	7039630	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160266	02/10/2010	GroundTruth_AC	574908	7041610	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160267	02/10/2010	GroundTruth_AC	574862	7041591	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160269	01/10/2010	GroundTruth_AC	574923	7039612	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160270	01/10/2010	GroundTruth_AC	574875	7039596	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160271	01/10/2010	GroundTruth_AC	574828	7039577	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160272	01/10/2010	GroundTruth_AC	574779	7039563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160273	01/10/2010	GroundTruth_AC	574733	7039549	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160274	01/10/2010	GroundTruth_AC	574690	7039532	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160275	01/10/2010	GroundTruth_AC	574640	7039518	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160276	01/10/2010	GroundTruth_AC	574591	7039507	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10160277	01/10/2010	GroundTruth_AC	574498	7039474	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160278	01/10/2010	GroundTruth_AC	574450	7039458	UTMZ7N_WGS84		Black	Clay	Moderate	B	80	Frozen	Poor	ForestBlackSpruce
10160279	01/10/2010	GroundTruth_AC	574401	7039444	UTMZ7N_WGS84		Black		Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160280	01/10/2010	GroundTruth_AC	574354	7039427	UTMZ7N_WGS84		Black		Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160281	01/10/2010	GroundTruth_AC	574306	7039413	UTMZ7N_WGS84		Black		Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160282	01/10/2010	GroundTruth_AC	574257	7039399	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160283	01/10/2010	GroundTruth_AC	574210	7039384	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160286	28/09/2010	GroundTruth_DL	574957	7041940	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160287	28/09/2010	GroundTruth_DL	575004	7041958	UTMZ7N_WGS84		Orange	Sand	Moderate	C	30	Frozen	Good	ForestBlackSpruce
10160288	28/09/2010	GroundTruth_DL	575051	7041972	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160289	28/09/2010	GroundTruth_DL	575104	7041988	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Excellent	ForestBlackSpruce
10160290	28/09/2010	GroundTruth_DL	575145	7042001	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10160291	28/09/2010	GroundTruth_DL	575193	7042019	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160292	28/09/2010	GroundTruth_DL	575241	7042034	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160293	28/09/2010	GroundTruth_DL	575289	7042046	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30	Frozen	Good	ForestBlackSpruce
10160294	28/09/2010	GroundTruth_DL	575338	7042065	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30	Frozen	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160295	28/09/2010	GroundTruth_DL	575386	7042077	UTMZ7N_WGS84		Orange	Sand	Moderate	C	30	Frozen	Excellent	ForestBlackSpruce
10160296	28/09/2010	GroundTruth_DL	575432	7042095	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10160297	28/09/2010	GroundTruth_DL	575481	7042113	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160298	28/09/2010	GroundTruth_DL	575573	7042139	UTMZ7N_WGS84		Black	Sand	Moderate	B	40	Frozen	Good	ForestBlackSpruce
10160299	28/09/2010	GroundTruth_DL	575619	7042158	UTMZ7N_WGS84		Black		Moderate	B	100	Frozen	Poor	ForestBlackSpruce
10160300	28/09/2010	GroundTruth_DL	575667	7042172	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10160301	28/09/2010	GroundTruth_DL	575715	7042189	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160302	28/09/2010	GroundTruth_DL	575763	7042203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160303	28/09/2010	GroundTruth_DL	575810	7042219	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160304	28/09/2010	GroundTruth_DL	575860	7042232	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10160305	28/09/2010	GroundTruth_DL	575904	7042250	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10160306	28/09/2010	GroundTruth_DL	575954	7042261	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10160307	28/09/2010	GroundTruth_DL	576003	7042278	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10160308	28/09/2010	GroundTruth_DL	576053	7042294	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10160309	28/09/2010	GroundTruth_DL	576095	7042310	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Excellent	ForestBlackSpruce
10160311	28/09/2010	GroundTruth_DL	576147	7042324	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Excellent	ForestBlackSpruce
10160312	28/09/2010	GroundTruth_DL	576192	7042341	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160313	28/09/2010	GroundTruth_DL	576240	7042355	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160314	28/09/2010	GroundTruth_DL	576288	7042371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10160315	28/09/2010	GroundTruth_DL	576334	7042388	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160316	28/09/2010	GroundTruth_DL	576381	7042402	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160317	29/09/2010	GroundTruth_DL	575421	7040514	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160318	29/09/2010	GroundTruth_DL	575468	7040527	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160319	29/09/2010	GroundTruth_DL	575516	7040546	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160320	29/09/2010	GroundTruth_DL	575564	7040561	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10160321	29/09/2010	GroundTruth_DL	575610	7040575	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160322	29/09/2010	GroundTruth_DL	575660	7040592	UTMZ7N_WGS84		Black	Silt	Moderate	C	40		Good	ForestBlackSpruce
10160323	29/09/2010	GroundTruth_DL	575706	7040608	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160324	29/09/2010	GroundTruth_DL	575754	7040624	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10160325	29/09/2010	GroundTruth_DL	575802	7040638	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10160326	29/09/2010	GroundTruth_DL	575848	7040657	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160327	29/09/2010	GroundTruth_DL	575896	7040671	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10160328	29/09/2010	GroundTruth_DL	575945	7040687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160329	29/09/2010	GroundTruth_DL	575987	7040703	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160330	29/09/2010	GroundTruth_DL	576037	7040718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10160331	29/09/2010	GroundTruth_DL	576084	7040734	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160332	29/09/2010	GroundTruth_DL	576133	7040750	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160333	29/09/2010	GroundTruth_DL	576182	7040760	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10160334	29/09/2010	GroundTruth_DL	576227	7040778	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10160335	29/09/2010	GroundTruth_DL	576276	7040795	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Frozen	Good	ForestBlackSpruce
10160336	29/09/2010	GroundTruth_DL	576322	7040809	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce
10160337	29/09/2010	GroundTruth_DL	576419	7040842	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10160338	29/09/2010	GroundTruth_DL	576467	7040852	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160339	29/09/2010	GroundTruth_DL	576514	7040870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160340	29/09/2010	GroundTruth_DL	576560	7040882	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160341	29/09/2010	GroundTruth_DL	576607	7040897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160342	29/09/2010	GroundTruth_DL	576656	7040916	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10160343	29/09/2010	GroundTruth_DL	576703	7040929	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160344	29/09/2010	GroundTruth_DL	576752	7040942	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160346	29/09/2010	GroundTruth_DL	576799	7040960	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160348	29/09/2010	GroundTruth_DL	576851	7040978	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160349	30/09/2010	GroundTruth_DL	577156	7040024	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	20		Good	ForestBlackSpruce
10160350	30/09/2010	GroundTruth_DL	577109	7040006	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10160351	30/09/2010	GroundTruth_DL	577058	7039995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160352	30/09/2010	GroundTruth_DL	577010	7039978	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160353	30/09/2010	GroundTruth_DL	576964	7039962	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	20		Good	ForestBlackSpruce
10160354	30/09/2010	GroundTruth_DL	576916	7039942	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10160355	30/09/2010	GroundTruth_DL	576868	7039933	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160356	30/09/2010	GroundTruth_DL	576825	7039912	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160357	30/09/2010	GroundTruth_DL	576774	7039897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10160358	30/09/2010	GroundTruth_DL	576727	7039881	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160359	30/09/2010	GroundTruth_DL	576679	7039866	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10160360	30/09/2010	GroundTruth_DL	576635	7039849	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160361	30/09/2010	GroundTruth_DL	576590	7039833	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10160363	30/09/2010	GroundTruth_DL	576543	7039819	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160364	30/09/2010	GroundTruth_DL	576494	7039802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10160365	30/09/2010	GroundTruth_DL	576445	7039792	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160366	30/09/2010	GroundTruth_DL	576399	7039776	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160367	30/09/2010	GroundTruth_DL	576350	7039757	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Poor	ForestWhiteSpruce
10160368	30/09/2010	GroundTruth_DL	576305	7039742	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10160369	30/09/2010	GroundTruth_DL	576255	7039725	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160370	30/09/2010	GroundTruth_DL	576209	7039718	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160371	30/09/2010	GroundTruth_DL	576160	7039697	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestWhiteSpruce
10160372	30/09/2010	GroundTruth_DL	576111	7039685	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160373	30/09/2010	GroundTruth_DL	576064	7039670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160374	30/09/2010	GroundTruth_DL	576016	7039655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160375	30/09/2010	GroundTruth_DL	575970	7039637	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160376	30/09/2010	GroundTruth_DL	575920	7039621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Wet	Poor	ForestBlackSpruce
10160377	30/09/2010	GroundTruth_DL	575872	7039608	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10160378	30/09/2010	GroundTruth_DL	575826	7039595	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160379	30/09/2010	GroundTruth_DL	575777	7039577	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Wet	Poor	ForestBlackSpruce
10160380	30/09/2010	GroundTruth_DL	575728	7039563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10160382	01/10/2010	GroundTruth_DL	575361	7040704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160383	01/10/2010	GroundTruth_DL	575310	7040686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160384	01/10/2010	GroundTruth_DL	575265	7040670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Excellent	ForestBlackSpruce
10160385	01/10/2010	GroundTruth_DL	575218	7040654	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160386	01/10/2010	GroundTruth_DL	575170	7040640	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10160387	01/10/2010	GroundTruth_DL	575121	7040625	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160388	01/10/2010	GroundTruth_DL	575075	7040609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10160389	01/10/2010	GroundTruth_DL	575027	7040592	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160390	01/10/2010	GroundTruth_DL	574980	7040576	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160391	01/10/2010	GroundTruth_DL	574932	7040562	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160392	01/10/2010	GroundTruth_DL	574885	7040545	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160394	01/10/2010	GroundTruth_DL	574837	7040528	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160395	01/10/2010	GroundTruth_DL	574791	7040513	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160396	01/10/2010	GroundTruth_DL	574743	7040496	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestBlackSpruce
10160397	01/10/2010	GroundTruth_DL	574695	7040483	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160398	01/10/2010	GroundTruth_DL	574647	7040466	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160399	01/10/2010	GroundTruth_DL	574600	7040454	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160400	01/10/2010	GroundTruth_DL	574553	7040438	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160401	28/09/2010	GroundTruth_CC	575112	7041465	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10160402	28/09/2010	GroundTruth_CC	575158	7041481	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160403	28/09/2010	GroundTruth_CC	575207	7041495	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10160404	28/09/2010	GroundTruth_CC	575253	7041513	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10160405	28/09/2010	GroundTruth_CC	575302	7041526	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestWhiteSpruce
10160406	28/09/2010	GroundTruth_CC	575349	7041542	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10160407	28/09/2010	GroundTruth_CC	575396	7041559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160408	28/09/2010	GroundTruth_CC	575444	7041575	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160409	28/09/2010	GroundTruth_CC	575491	7041589	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160410	28/09/2010	GroundTruth_CC	575538	7041606	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160411	28/09/2010	GroundTruth_CC	575634	7041638	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160412	28/09/2010	GroundTruth_CC	575679	7041652	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160413	28/09/2010	GroundTruth_CC	575727	7041668	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160414	28/09/2010	GroundTruth_CC	575774	7041682	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10160415	28/09/2010	GroundTruth_CC	575822	7041698	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160416	28/09/2010	GroundTruth_CC	575870	7041714	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160417	28/09/2010	GroundTruth_CC	575917	7041729	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Frozen	Good	ForestBlackSpruce
10160418	28/09/2010	GroundTruth_CC	575965	7041743	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160419	28/09/2010	GroundTruth_CC	576013	7041759	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160420	28/09/2010	GroundTruth_CC	576061	7041775	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160421	28/09/2010	GroundTruth_CC	576108	7041791	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160422	28/09/2010	GroundTruth_CC	576156	7041806	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160423	28/09/2010	GroundTruth_CC	576204	7041822	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Frozen	Good	ForestBlackSpruce
10160424	28/09/2010	GroundTruth_CC	576252	7041835	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160425	28/09/2010	GroundTruth_CC	576347	7041866	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10160426	28/09/2010	GroundTruth_CC	576394	7041882	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160427	28/09/2010	GroundTruth_CC	576442	7041897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10160428	28/09/2010	GroundTruth_CC	576490	7041913	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160429	28/09/2010	GroundTruth_CC	576539	7041928	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160430	29/09/2010	GroundTruth_CC	575267	7040989	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160431	29/09/2010	GroundTruth_CC	575315	7041005	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Frozen	Good	ForestBlackSpruce
10160432	29/09/2010	GroundTruth_CC	575362	7041022	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160434	29/09/2010	GroundTruth_CC	575409	7041037	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160435	29/09/2010	GroundTruth_CC	575458	7041052	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160436	29/09/2010	GroundTruth_CC	575506	7041068	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160437	29/09/2010	GroundTruth_CC	575552	7041082	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160438	29/09/2010	GroundTruth_CC	575600	7041098	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160439	29/09/2010	GroundTruth_CC	575648	7041113	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10160441	29/09/2010	GroundTruth_CC	575696	7041130	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160442	29/09/2010	GroundTruth_CC	575741	7041145	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160443	29/09/2010	GroundTruth_CC	575784	7041160	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160444	29/09/2010	GroundTruth_CC	575834	7041177	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160445	29/09/2010	GroundTruth_CC	575882	7041189	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10160446	29/09/2010	GroundTruth_CC	575930	7041206	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160447	29/09/2010	GroundTruth_CC	575977	7041221	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160448	29/09/2010	GroundTruth_CC	576026	7041236	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160449	29/09/2010	GroundTruth_CC	576073	7041252	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160450	29/09/2010	GroundTruth_CC	576119	7041267	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10160451	29/09/2010	GroundTruth_CC	576167	7041283	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160452	29/09/2010	GroundTruth_CC	576215	7041297	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160454	29/09/2010	GroundTruth_CC	576263	7041314	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160455	29/09/2010	GroundTruth_CC	576311	7041328	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160456	29/09/2010	GroundTruth_CC	576358	7041345	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBirch
10160457	29/09/2010	GroundTruth_CC	576406	7041359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBirch
10160458	29/09/2010	GroundTruth_CC	576454	7041376	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBirch
10160459	29/09/2010	GroundTruth_CC	576502	7041391	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Excellent	ForestBirch
10160460	29/09/2010	GroundTruth_CC	576550	7041405	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160461	29/09/2010	GroundTruth_CC	576598	7041423	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10160462	29/09/2010	GroundTruth_CC	576646	7041437	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160463	29/09/2010	GroundTruth_CC	576693	7041453	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	BurnOld
10160464	02/10/2010	GroundTruth_CC	575014	7041119	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10160465	30/09/2010	GroundTruth_CC	575729	7039563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Good	ForestBlackSpruce
10160466	30/09/2010	GroundTruth_CC	575680	7039547	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160467	30/09/2010	GroundTruth_CC	575632	7039532	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Poor	ForestBlackSpruce
10160468	30/09/2010	GroundTruth_CC	575585	7039516	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160469	30/09/2010	GroundTruth_CC	575537	7039501	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160470	30/09/2010	GroundTruth_CC	575489	7039484	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160471	30/09/2010	GroundTruth_CC	575442	7039470	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160472	30/09/2010	GroundTruth_CC	575395	7039453	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160473	30/09/2010	GroundTruth_CC	575347	7039438	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160474	30/09/2010	GroundTruth_CC	575298	7039422	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160475	30/09/2010	GroundTruth_CC	575252	7039407	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160476	30/09/2010	GroundTruth_CC	575204	7039391	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160477	30/09/2010	GroundTruth_CC	575161	7039377	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Frozen	Good	ForestBlackSpruce
10160478	30/09/2010	GroundTruth_CC	575113	7039361	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160479	30/09/2010	GroundTruth_CC	575065	7039346	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160480	30/09/2010	GroundTruth_CC	575016	7039331	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Good	ForestWhiteSpruce
10160481	30/09/2010	GroundTruth_CC	574970	7039315	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10160482	30/09/2010	GroundTruth_CC	574921	7039300	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Poor	ForestWhiteSpruce
10160483	30/09/2010	GroundTruth_CC	574875	7039284	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestWhiteSpruce
10160484	30/09/2010	GroundTruth_CC	574826	7039269	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10160485	30/09/2010	GroundTruth_CC	574780	7039253	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Frozen	Good	ForestBlackSpruce
10160486	30/09/2010	GroundTruth_CC	574732	7039237	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160487	30/09/2010	GroundTruth_CC	574686	7039222	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160488	30/09/2010	GroundTruth_CC	574637	7039206	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160490	30/09/2010	GroundTruth_CC	574587	7039191	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBlackSpruce
10160491	30/09/2010	GroundTruth_CC	574540	7039176	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160492	30/09/2010	GroundTruth_CC	574493	7039160	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10160493	30/09/2010	GroundTruth_CC	574446	7039145	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160494	30/09/2010	GroundTruth_CC	574399	7039129	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160495	30/09/2010	GroundTruth_CC	574351	7039115	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160496	01/10/2010	GroundTruth_CC	575435	7040307	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160497	01/10/2010	GroundTruth_CC	575386	7040292	UTMZ7N_WGS84		Orange	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160498	01/10/2010	GroundTruth_CC	575339	7040276	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBirch
10160499	01/10/2010	GroundTruth_CC	575292	7040259	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestAspen
10160500	01/10/2010	GroundTruth_CC	575242	7040245	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestAspen
10160501	04/10/2010	GroundTruth_MF	573544	7041272	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160502	04/10/2010	GroundTruth_MF	573496	7041256	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160503	04/10/2010	GroundTruth_MF	573449	7041241	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160504	04/10/2010	GroundTruth_MF	573398	7041224	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160505	04/10/2010	GroundTruth_MF	573355	7041208	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestWhiteSpruce
10160506	04/10/2010	GroundTruth_MF	573306	7041193	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10160507	04/10/2010	GroundTruth_MF	573256	7041177	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10160508	04/10/2010	GroundTruth_MF	573208	7041161	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160509	04/10/2010	GroundTruth_MF	573164	7041146	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10160510	04/10/2010	GroundTruth_MF	573118	7041130	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160511	04/10/2010	GroundTruth_MF	573067	7041113	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160512	04/10/2010	GroundTruth_MF	573022	7041098	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160513	04/10/2010	GroundTruth_MF	572974	7041083	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160514	04/10/2010	GroundTruth_MF	572928	7041068	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160515	04/10/2010	GroundTruth_MF	572878	7041052	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160516	04/10/2010	GroundTruth_MF	572828	7041034	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10160517	04/10/2010	GroundTruth_MF	572783	7041023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160518	04/10/2010	GroundTruth_MF	572738	7041004	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160519	04/10/2010	GroundTruth_MF	572689	7040989	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestWhiteSpruce
10160520	04/10/2010	GroundTruth_MF	572643	7040973	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10160521	04/10/2010	GroundTruth_MF	572596	7040958	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160522	04/10/2010	GroundTruth_MF	572549	7040943	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160523	04/10/2010	GroundTruth_MF	572495	7040927	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160524	04/10/2010	GroundTruth_MF	572452	7040913	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160525	04/10/2010	GroundTruth_MF	572401	7040897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160526	04/10/2010	GroundTruth_MF	572359	7040884	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160527	04/10/2010	GroundTruth_MF	572311	7040870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10160528	04/10/2010	GroundTruth_MF	572259	7040852	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10160529	04/10/2010	GroundTruth_MF	572213	7040836	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10160530	07/10/2010	GroundTruth_MF	573667	7040890	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160532	07/10/2010	GroundTruth_MF	573621	7040876	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160533	07/10/2010	GroundTruth_MF	573572	7040860	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160534	07/10/2010	GroundTruth_MF	573522	7040844	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160535	07/10/2010	GroundTruth_MF	573479	7040829	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160537	07/10/2010	GroundTruth_MF	573431	7040813	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10160538	07/10/2010	GroundTruth_MF	573380	7040797	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160539	07/10/2010	GroundTruth_MF	573337	7040781	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160540	07/10/2010	GroundTruth_MF	573289	7040766	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160541	07/10/2010	GroundTruth_MF	573237	7040749	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160542	07/10/2010	GroundTruth_MF	573196	7040734	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160543	07/10/2010	GroundTruth_MF	573148	7040718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160544	07/10/2010	GroundTruth_MF	573101	7040702	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160545	07/10/2010	GroundTruth_MF	573053	7040688	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90	Wet	Excellent	ForestWhiteSpruce
10160546	07/10/2010	GroundTruth_MF	573005	7040672	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Excellent	ForestWhiteSpruce
10160547	07/10/2010	GroundTruth_MF	572954	7040656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10160548	07/10/2010	GroundTruth_MF	572909	7040642	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Excellent	ForestWhiteSpruce
10160549	07/10/2010	GroundTruth_MF	572863	7040627	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10160550	07/10/2010	GroundTruth_MF	572815	7040611	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10160551	07/10/2010	GroundTruth_MF	572767	7040595	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10160552	07/10/2010	GroundTruth_MF	572720	7040580	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10160553	07/10/2010	GroundTruth_MF	572672	7040565	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10160554	07/10/2010	GroundTruth_MF	572624	7040550	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160555	07/10/2010	GroundTruth_MF	572573	7040534	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10160556	07/10/2010	GroundTruth_MF	572481	7040503	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	40		Good	ForestBlackSpruce
10160557	07/10/2010	GroundTruth_MF	572431	7040489	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestBlackSpruce
10160558	07/10/2010	GroundTruth_MF	572384	7040473	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160559	07/10/2010	GroundTruth_MF	572339	7040458	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	90		Excellent	ForestWhiteSpruce
10160564	14/10/2010	GroundTruth_MF	571422	7038269	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10160565	14/10/2010	GroundTruth_MF	571469	7038285	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBirch
10160566	14/10/2010	GroundTruth_MF	571518	7038300	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Good	ForestBirch
10160567	14/10/2010	GroundTruth_MF	571562	7038317	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBirch
10160568	14/10/2010	GroundTruth_MF	571612	7038332	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestBirch
10160651	05/10/2010	GroundTruth_TW	570926	7039787	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160652	05/10/2010	GroundTruth_TW	570974	7039801	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160653	05/10/2010	GroundTruth_TW	571021	7039817	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160654	05/10/2010	GroundTruth_TW	571070	7039832	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160655	05/10/2010	GroundTruth_TW	571118	7039848	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160656	05/10/2010	GroundTruth_TW	571163	7039866	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10160657	05/10/2010	GroundTruth_TW	571209	7039881	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160658	05/10/2010	GroundTruth_TW	571259	7039895	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBirch
10160659	05/10/2010	GroundTruth_TW	571307	7039915	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160660	05/10/2010	GroundTruth_TW	571355	7039929	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10160661	05/10/2010	GroundTruth_TW	571401	7039946	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10160662	05/10/2010	GroundTruth_TW	571449	7039961	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160663	05/10/2010	GroundTruth_TW	571497	7039978	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160664	05/10/2010	GroundTruth_TW	571545	7039991	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10160665	05/10/2010	GroundTruth_TW	571592	7040009	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10160666	05/10/2010	GroundTruth_TW	571639	7040023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160667	05/10/2010	GroundTruth_TW	571683	7040039	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160668	05/10/2010	GroundTruth_TW	571732	7040054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160669	05/10/2010	GroundTruth_TW	571778	7040069	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160670	05/10/2010	GroundTruth_TW	571826	7040086	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10160671	05/10/2010	GroundTruth_TW	571873	7040100	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160672	05/10/2010	GroundTruth_TW	571922	7040116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Poor	ForestBlackSpruce
10160673	05/10/2010	GroundTruth_TW	571968	7040131	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10160674	05/10/2010	GroundTruth_TW	572017	7040145	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90	Wet	Good	ForestBlackSpruce
10160675	05/10/2010	GroundTruth_TW	572064	7040162	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160677	05/10/2010	GroundTruth_TW	572111	7040175	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10160678	05/10/2010	GroundTruth_TW	572162	7040191	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160679	05/10/2010	GroundTruth_TW	572208	7040205	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160680	05/10/2010	GroundTruth_TW	572256	7040222	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160682	05/10/2010	GroundTruth_TW	572301	7040238	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	40	Frozen	Poor	ForestBlackSpruce
10160683	05/10/2010	GroundTruth_TW	572351	7040252	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10160684	11/10/2010	GroundTruth_TW	571331	7039189	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160685	11/10/2010	GroundTruth_TW	571379	7039204	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10160686	11/10/2010	GroundTruth_TW	571429	7039216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160687	11/10/2010	GroundTruth_TW	571473	7039234	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160688	11/10/2010	GroundTruth_TW	571523	7039250	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160689	11/10/2010	GroundTruth_TW	571570	7039267	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160731	10/10/2010	GroundTruth_TW	573948	7040037	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160732	10/10/2010	GroundTruth_TW	573901	7040021	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160733	10/10/2010	GroundTruth_TW	573854	7040007	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160734	10/10/2010	GroundTruth_TW	573805	7039991	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160735	10/10/2010	GroundTruth_TW	573758	7039977	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160736	10/10/2010	GroundTruth_TW	573709	7039959	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10160737	10/10/2010	GroundTruth_TW	573663	7039944	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160738	10/10/2010	GroundTruth_TW	573613	7039930	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10160739	10/10/2010	GroundTruth_TW	573566	7039912	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10160740	10/10/2010	GroundTruth_TW	573518	7039899	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10160741	10/10/2010	GroundTruth_TW	573472	7039884	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10160742	10/10/2010	GroundTruth_TW	573424	7039867	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	30		Good	ForestBlackSpruce
10160743	10/10/2010	GroundTruth_TW	573376	7039853	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10160744	10/10/2010	GroundTruth_TW	573328	7039834	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160745	10/10/2010	GroundTruth_TW	573282	7039821	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Good	DrainageBrush
10160746	10/10/2010	GroundTruth_TW	573235	7039806	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160747	10/10/2010	GroundTruth_TW	573186	7039789	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160748	10/10/2010	GroundTruth_TW	573139	7039772	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160749	10/10/2010	GroundTruth_TW	573092	7039757	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10160750	10/10/2010	GroundTruth_TW	573043	7039740	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160751	10/10/2010	GroundTruth_TW	572995	7039725	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160752	10/10/2010	GroundTruth_TW	572959	7039711	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160845	11/10/2010	GroundTruth_MR	571444	7039328	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10160846	11/10/2010	GroundTruth_MR	571492	7039344	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10160847	11/10/2010	GroundTruth_MR	571538	7039360	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	40		Good	ForestWhiteSpruce
10160848	11/10/2010	GroundTruth_MR	571586	7039376	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestWhiteSpruce
10160849	11/10/2010	GroundTruth_MR	571634	7039391	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	70	Wet	Poor	ForestWhiteSpruce
10160850	11/10/2010	GroundTruth_MR	571682	7039406	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90	Wet	Good	ForestWhiteSpruce
10160851	11/10/2010	GroundTruth_MR	571729	7039423	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50	Wet	Good	ForestWhiteSpruce
10160854	07/10/2010	GroundTruth_AC	573122	7040290	UTMZ7N_WGS84		Black	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10160856	07/10/2010	GroundTruth_AC	573079	7040275	UTMZ7N_WGS84		Black	Clay	Moderate	B	80	Frozen	Poor	ForestBlackSpruce
10160857	07/10/2010	GroundTruth_AC	573029	7040258	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160858	07/10/2010	GroundTruth_AC	572983	7040241	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10160859	07/10/2010	GroundTruth_AC	572937	7040225	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10160860	07/10/2010	GroundTruth_AC	572889	7040213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160861	07/10/2010	GroundTruth_AC	572796	7040183	UTMZ7N_WGS84		Black		Steep	B	60	Frozen	Poor	ForestBlackSpruce
10160862	07/10/2010	GroundTruth_AC	572745	7040167	UTMZ7N_WGS84		RustyRed	Gravel	Steep	C	60		Good	ForestWhiteSpruce
10160863	07/10/2010	GroundTruth_AC	572700	7040151	UTMZ7N_WGS84		RustyRed	Gravel	Steep	C	60		Good	ForestWhiteSpruce
10160864	07/10/2010	GroundTruth_AC	572650	7040138	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160865	07/10/2010	GroundTruth_AC	572605	7040123	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10160866	07/10/2010	GroundTruth_AC	572555	7040107	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	110		Poor	ForestWhiteSpruce
10160867	07/10/2010	GroundTruth_AC	572508	7040092	UTMZ7N_WGS84		RustyRed	Silt	Steep	C	60		Good	ForestWhiteSpruce
10160868	07/10/2010	GroundTruth_AC	572460	7040075	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	60		Good	ForestWhiteSpruce
10160869	11/10/2010	GroundTruth_CC	571288	7039488	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160870	11/10/2010	GroundTruth_CC	571336	7039504	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160871	11/10/2010	GroundTruth_CC	571382	7039518	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Good	ForestWhiteSpruce
10160872	11/10/2010	GroundTruth_CC	571431	7039534	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10160874	11/10/2010	GroundTruth_CC	571478	7039552	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10160875	11/10/2010	GroundTruth_CC	571525	7039569	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10160876	11/10/2010	GroundTruth_CC	571567	7039580	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90		Good	ForestWhiteSpruce
10160877	11/10/2010	GroundTruth_CC	571617	7039594	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10160878	11/10/2010	GroundTruth_CC	571666	7039611	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90	Wet	Good	ForestWhiteSpruce
10160879	11/10/2010	GroundTruth_CC	571711	7039626	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10160880	11/10/2010	GroundTruth_CC	571757	7039642	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestWhiteSpruce
10160881	11/10/2010	GroundTruth_CC	571808	7039658	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10160882	11/10/2010	GroundTruth_CC	571855	7039673	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestWhiteSpruce
10160883	11/10/2010	GroundTruth_CC	571903	7039686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10160884	11/10/2010	GroundTruth_CC	571950	7039703	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Good	ForestWhiteSpruce
10160885	11/10/2010	GroundTruth_CC	571998	7039718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10160886	11/10/2010	GroundTruth_CC	572046	7039734	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10160887	11/10/2010	GroundTruth_CC	572093	7039748	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10160888	11/10/2010	GroundTruth_CC	572141	7039764	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160889	11/10/2010	GroundTruth_CC	572187	7039779	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestBlackSpruce
10160890	11/10/2010	GroundTruth_CC	572236	7039794	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10160891	11/10/2010	GroundTruth_CC	572283	7039811	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10160892	11/10/2010	GroundTruth_CC	572331	7039827	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160893	11/10/2010	GroundTruth_CC	572378	7039840	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10160894	13/10/2010	GroundTruth_CC	574302	7039099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160895	13/10/2010	GroundTruth_CC	574255	7039083	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160896	11/10/2010	GroundTruth_CC	571288	7039488	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160897	13/10/2010	GroundTruth_CC	574159	7039052	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160898	13/10/2010	GroundTruth_CC	574113	7039035	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10160899	13/10/2010	GroundTruth_CC	574065	7039020	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160900	13/10/2010	GroundTruth_CC	574018	7039004	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10160901	13/10/2010	GroundTruth_CC	573968	7038989	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10160902	13/10/2010	GroundTruth_CC	573922	7038974	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10160904	13/10/2010	GroundTruth_CC	573874	7038958	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestWhiteSpruce
10160905	13/10/2010	GroundTruth_CC	573827	7038941	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10160906	13/10/2010	GroundTruth_CC	573782	7038927	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10160907	13/10/2010	GroundTruth_CC	573735	7038913	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10160908	13/10/2010	GroundTruth_CC	573686	7038897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10160909	13/10/2010	GroundTruth_CC	573638	7038882	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestWhiteSpruce
10160910	13/10/2010	GroundTruth_CC	573591	7038867	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10160911	07/10/2010	GroundTruth_GD	573130	7040609	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestBlackSpruce
10160912	07/10/2010	GroundTruth_GD	573085	7040593	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestBlackSpruce
10160913	07/10/2010	GroundTruth_GD	573034	7040576	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestBlackSpruce
10160914	07/10/2010	GroundTruth_GD	572988	7040560	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestBlackSpruce
10160915	07/10/2010	GroundTruth_GD	572937	7040546	UTMZ7N_WGS84		BrownDark		Moderate	C	60	Wet	Good	ForestBlackSpruce
10160916	07/10/2010	GroundTruth_GD	572892	7040532	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestBlackSpruce
10160917	07/10/2010	GroundTruth_GD	572844	7040517	UTMZ7N_WGS84		Black		Moderate	C	80		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10160918	07/10/2010	GroundTruth_GD	572796	7040501	UTMZ7N_WGS84		RustyRed		Moderate	C	100		Excellent	ForestBlackSpruce
10160919	07/10/2010	GroundTruth_GD	572748	7040484	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10160920	07/10/2010	GroundTruth_GD	572701	7040471	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10160921	07/10/2010	GroundTruth_GD	572605	7040440	UTMZ7N_WGS84		BrownDark		Moderate	B	30	Frozen	Good	ForestBlackSpruce
10160922	07/10/2010	GroundTruth_GD	572558	7040423	UTMZ7N_WGS84		BrownDark	Gravel	Steep	B	30		Good	ForestWhiteSpruce
10160923	07/10/2010	GroundTruth_GD	572511	7040408	UTMZ7N_WGS84		BrownDark	Gravel	Steep	B	30		Poor	ForestWhiteSpruce
10160924	07/10/2010	GroundTruth_GD	572460	7040393	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10160925	07/10/2010	GroundTruth_GD	572413	7040377	UTMZ7N_WGS84		BrownDark		Moderate	C	110		Good	ForestWhiteSpruce
10160927	07/10/2010	GroundTruth_GD	572369	7040364	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160928	10/10/2010	GroundTruth_GD	573930	7039919	UTMZ7N_WGS84		BrownDark		Moderate	C	40		Good	ForestWhiteSpruce
10160929	10/10/2010	GroundTruth_GD	573976	7039936	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160962	10/10/2010	GroundTruth_GD	573882	7039904	UTMZ7N_WGS84		BrownDark		Steep	B	40		Good	ForestAspen
10160963	10/10/2010	GroundTruth_GD	573835	7039891	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestAspen
10160964	10/10/2010	GroundTruth_GD	573786	7039875	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10160965	10/10/2010	GroundTruth_GD	573739	7039857	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160966	10/10/2010	GroundTruth_GD	573692	7039844	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	30		Poor	ForestAspen
10160967	10/10/2010	GroundTruth_GD	573645	7039829	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	60		Good	ForestAspen
10160968	10/10/2010	GroundTruth_GD	573596	7039810	UTMZ7N_WGS84		BrownDark		Moderate	C	40		Good	ForestAspen
10160969	10/10/2010	GroundTruth_GD	573549	7039798	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestAspen
10160970	10/10/2010	GroundTruth_GD	573506	7039786	UTMZ7N_WGS84		BrownDark		Moderate	B	30		Good	ForestAspen
10160971	10/10/2010	GroundTruth_GD	573456	7039767	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestWhiteSpruce
10160972	10/10/2010	GroundTruth_GD	573411	7039753	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10160973	10/10/2010	GroundTruth_GD	573362	7039737	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Frozen	Good	ForestBlackSpruce
10160974	10/10/2010	GroundTruth_GD	573315	7039722	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10160975	10/10/2010	GroundTruth_GD	573266	7039707	UTMZ7N_WGS84		Yellow		Moderate	C	100		Excellent	ForestBlackSpruce
10160976	10/10/2010	GroundTruth_GD	573220	7039690	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestBlackSpruce
10160977	10/10/2010	GroundTruth_GD	573171	7039676	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestBlackSpruce
10160978	10/10/2010	GroundTruth_GD	573121	7039663	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestBlackSpruce
10160979	10/10/2010	GroundTruth_GD	573076	7039643	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestBlackSpruce
10160980	10/10/2010	GroundTruth_GD	573026	7039630	UTMZ7N_WGS84		BrownDark		Flat	C	70		Good	ForestBlackSpruce
10160981	10/10/2010	GroundTruth_GD	572981	7039616	UTMZ7N_WGS84		RustyOrange		Moderate	C	80		Excellent	ForestWhiteSpruce
10160984	10/10/2010	GroundTruth_GD	572931	7039600	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10160985	10/10/2010	GroundTruth_GD	572885	7039582	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160986	10/10/2010	GroundTruth_GD	572835	7039566	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160987	10/10/2010	GroundTruth_GD	572789	7039553	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160988	10/10/2010	GroundTruth_GD	572739	7039540	UTMZ7N_WGS84		RustyRed		Moderate	C	50		Good	ForestWhiteSpruce
10160989	10/10/2010	GroundTruth_GD	572694	7039522	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160990	10/10/2010	GroundTruth_GD	572645	7039508	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Wet	Good	ForestWhiteSpruce
10160991	10/10/2010	GroundTruth_GD	572599	7039493	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestBlackSpruce
10160992	12/10/2010	GroundTruth_GD	571203	7038935	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10160993	12/10/2010	GroundTruth_GD	571252	7038950	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10160994	12/10/2010	GroundTruth_GD	571300	7038964	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10160995	12/10/2010	GroundTruth_GD	571347	7038980	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10160996	12/10/2010	GroundTruth_GD	571395	7038996	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Good	ForestWhiteSpruce
10160997	12/10/2010	GroundTruth_GD	571443	7039011	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Good	ForestWhiteSpruce
10160998	12/10/2010	GroundTruth_GD	571491	7039028	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10160999	12/10/2010	GroundTruth_GD	571536	7039041	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Wet	Good	ForestWhiteSpruce
10161000	12/10/2010	GroundTruth_GD	571585	7039059	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10161001	12/10/2010	GroundTruth_DM	572278	7039178	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	60		Good	ForestWhiteSpruce
10161002	12/10/2010	GroundTruth_DM	572326	7039194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Poor	ForestWhiteSpruce
10161003	12/10/2010	GroundTruth_DM	572374	7039209	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10161004	12/10/2010	GroundTruth_DM	572422	7039225	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10161005	12/10/2010	GroundTruth_DM	572468	7039240	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestWhiteSpruce
10161006	12/10/2010	GroundTruth_DM	572516	7039255	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10161007	12/10/2010	GroundTruth_DM	572564	7039270	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	80		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10161009	12/10/2010	GroundTruth_DM	572612	7039286	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	110		Good	ForestWhiteSpruce
10161011	14/10/2010	GroundTruth_DM	571360	7038458	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Poor	ForestWhiteSpruce
10161012	14/10/2010	GroundTruth_DM	571404	7038473	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce
10161013	14/10/2010	GroundTruth_DM	571455	7038489	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10161014	14/10/2010	GroundTruth_DM	571502	7038505	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Good	ForestBlackSpruce
10161015	14/10/2010	GroundTruth_DM	571552	7038521	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10161016	14/10/2010	GroundTruth_DM	571598	7038537	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10161017	14/10/2010	GroundTruth_DM	571645	7038553	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10161018	14/10/2010	GroundTruth_DM	571693	7038569	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10161019	14/10/2010	GroundTruth_DM	571742	7038584	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10161020	14/10/2010	GroundTruth_DM	571789	7038600	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	110		Excellent	ForestBlackSpruce
10161021	14/10/2010	GroundTruth_DM	571836	7038615	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10161022	14/10/2010	GroundTruth_DM	571884	7038631	UTMZ7N_WGS84		Black	Sand	Steep	C	50	Frozen	Poor	ForestBlackSpruce
10161023	14/10/2010	GroundTruth_DM	571932	7038646	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10161024	14/10/2010	GroundTruth_DM	571979	7038663	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10161025	14/10/2010	GroundTruth_DM	572028	7038678	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10161026	14/10/2010	GroundTruth_DM	572074	7038693	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10161027	14/10/2010	GroundTruth_DM	572112	7038707	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10161028	14/10/2010	GroundTruth_DM	572163	7038724	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10161029	14/10/2010	GroundTruth_DM	572210	7038737	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10161030	14/10/2010	GroundTruth_DM	572257	7038753	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10161031	14/10/2010	GroundTruth_DM	572304	7038768	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10161032	14/10/2010	GroundTruth_DM	572353	7038781	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10161033	14/10/2010	GroundTruth_DM	572401	7038799	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Good	ForestBirch
10161034	14/10/2010	GroundTruth_DM	572449	7038814	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	110		Excellent	ForestBirch
10161035	14/10/2010	GroundTruth_DM	572497	7038830	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10161036	14/10/2010	GroundTruth_DM	572545	7038844	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10161037	14/10/2010	GroundTruth_DM	572591	7038859	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestWhiteSpruce
10161038	14/10/2010	GroundTruth_DM	572639	7038874	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce
10161039	14/10/2010	GroundTruth_DM	572688	7038890	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80	Wet	Good	ForestBlackSpruce
10161040	14/10/2010	GroundTruth_DM	572736	7038905	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	100	Wet	Good	ForestBlackSpruce
10161152	13/10/2010	GroundTruth_TW	573859	7039167	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10161153	13/10/2010	GroundTruth_TW	573813	7039151	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10161154	13/10/2010	GroundTruth_TW	573765	7039136	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10161155	13/10/2010	GroundTruth_TW	573717	7039122	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10161156	13/10/2010	GroundTruth_TW	573670	7039105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10161157	13/10/2010	GroundTruth_TW	573623	7039090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10161158	13/10/2010	GroundTruth_TW	573575	7039078	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10161159	13/10/2010	GroundTruth_TW	573528	7039062	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10161160	13/10/2010	GroundTruth_TW	573479	7039047	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10161161	13/10/2010	GroundTruth_TW	573432	7039030	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10161162	13/10/2010	GroundTruth_TW	573385	7039014	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10161163	13/10/2010	GroundTruth_TW	573335	7038999	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10161164	13/10/2010	GroundTruth_TW	573289	7038985	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10161165	13/10/2010	GroundTruth_TW	573242	7038966	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestBlackSpruce
10161166	13/10/2010	GroundTruth_TW	573193	7038949	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	90	Wet	Good	ForestBlackSpruce
10161167	13/10/2010	GroundTruth_TW	573145	7038937	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Excellent	ForestBlackSpruce
10161170	13/10/2010	GroundTruth_TW	573051	7038904	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBlackSpruce
10161171	13/10/2010	GroundTruth_TW	573003	7038890	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Wet	Good	ForestBlackSpruce
10161173	13/10/2010	GroundTruth_TW	572908	7038857	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestBlackSpruce
10161174	13/10/2010	GroundTruth_TW	572860	7038841	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestBlackSpruce
10161175	13/10/2010	GroundTruth_TW	572814	7038827	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestBlackSpruce
10161200	14/10/2010	GroundTruth_GD	572527	7038732	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10161201	14/10/2010	GroundTruth_GD	572575	7038747	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10161202	14/10/2010	GroundTruth_GD	572623	7038762	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10161203	14/10/2010	GroundTruth_GD	572670	7038779	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10161205	14/10/2010	GroundTruth_GD	572717	7038794	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestBlackSpruce
10162524	12/10/2010	GroundTruth_GD	571634	7039075	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	60		Good	ForestWhiteSpruce
10162525	12/10/2010	GroundTruth_GD	571681	7039088	UTMZ7N_WGS84		Grey		Moderate	C	60		Good	ForestWhiteSpruce
10162526	12/10/2010	GroundTruth_GD	571727	7039102	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10162527	12/10/2010	GroundTruth_GD	571771	7039118	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10162528	12/10/2010	GroundTruth_GD	571814	7039132	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10162561	12/10/2010	GroundTruth_GD	571866	7039149	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Poor	ForestWhiteSpruce
10162562	12/10/2010	GroundTruth_GD	571914	7039165	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Poor	ForestWhiteSpruce
10162563	12/10/2010	GroundTruth_GD	571963	7039179	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10162564	12/10/2010	GroundTruth_GD	572010	7039197	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10162565	12/10/2010	GroundTruth_GD	572056	7039210	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestBlackSpruce
10162566	12/10/2010	GroundTruth_GD	572102	7039226	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Poor	ForestBlackSpruce
10162567	12/10/2010	GroundTruth_GD	572152	7039242	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10162568	12/10/2010	GroundTruth_GD	572199	7039256	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Good	ForestWhiteSpruce
10162569	12/10/2010	GroundTruth_GD	572246	7039271	UTMZ7N_WGS84		Grey		Moderate	B	60	Wet	Good	ForestWhiteSpruce
10162570	12/10/2010	GroundTruth_GD	572295	7039287	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10162572	12/10/2010	GroundTruth_GD	572340	7039303	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestBlackSpruce
10162573	12/10/2010	GroundTruth_GD	572389	7039319	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10162574	12/10/2010	GroundTruth_GD	572438	7039332	UTMZ7N_WGS84		Black		Steep	C	40		Good	ForestAspen
10162575	12/10/2010	GroundTruth_GD	572532	7039365	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Poor	ForestBlackSpruce
10162576	12/10/2010	GroundTruth_GD	572581	7039380	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestBlackSpruce
10162577	14/10/2010	GroundTruth_GD	571389	7038366	UTMZ7N_WGS84		Grey	Silt	Moderate	B	100		Poor	ForestWhiteSpruce
10162578	14/10/2010	GroundTruth_GD	571438	7038378	UTMZ7N_WGS84		Black		Moderate	B	60	Frozen	Poor	ForestBirch
10162579	14/10/2010	GroundTruth_GD	571484	7038393	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Poor	ForestBirch
10162580	14/10/2010	GroundTruth_GD	571533	7038409	UTMZ7N_WGS84		Black	Silt	Moderate	B	50	Frozen	Poor	ForestBirch
10162581	14/10/2010	GroundTruth_GD	571580	7038425	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Frozen	Poor	ForestBirch
10162582	14/10/2010	GroundTruth_GD	571630	7038441	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestBirch
10162583	14/10/2010	GroundTruth_GD	571675	7038456	UTMZ7N_WGS84		BrownDark		Moderate	B	50		Good	ForestWhiteSpruce
10162584	14/10/2010	GroundTruth_GD	571722	7038473	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestWhiteSpruce
10162585	14/10/2010	GroundTruth_GD	571770	7038487	UTMZ7N_WGS84		BrownDark		Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10162586	14/10/2010	GroundTruth_GD	571819	7038501	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestWhiteSpruce
10162587	14/10/2010	GroundTruth_GD	571867	7038517	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestBirch
10162588	14/10/2010	GroundTruth_GD	571913	7038535	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Poor	DrainageAlder
10162589	14/10/2010	GroundTruth_GD	572008	7038562	UTMZ7N_WGS84		Black		Moderate	B	50		Poor	ForestWhiteSpruce
10162590	14/10/2010	GroundTruth_GD	572058	7038577	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Poor	ForestWhiteSpruce
10162591	14/10/2010	GroundTruth_GD	572104	7038595	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Good	ForestBlackSpruce
10162592	14/10/2010	GroundTruth_GD	572154	7038609	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestBlackSpruce
10162593	14/10/2010	GroundTruth_GD	572201	7038626	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10162594	14/10/2010	GroundTruth_GD	572247	7038642	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10162595	14/10/2010	GroundTruth_GD	572296	7038657	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10162596	14/10/2010	GroundTruth_GD	572342	7038672	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10162597	14/10/2010	GroundTruth_GD	572385	7038687	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10162598	14/10/2010	GroundTruth_GD	572434	7038701	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10162599	14/10/2010	GroundTruth_GD	572480	7038718	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Good	ForestWhiteSpruce
10162625	13/10/2010	GroundTruth_GB	574223	7039179	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10162626	13/10/2010	GroundTruth_GB	574175	7039164	UTMZ7N_WGS84		Black	Silt	Moderate	B	60		Good	ForestBlackSpruce
10162627	13/10/2010	GroundTruth_GB	574127	7039149	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10162628	13/10/2010	GroundTruth_GB	574080	7039132	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162629	13/10/2010	GroundTruth_GB	574033	7039117	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162631	13/10/2010	GroundTruth_GB	573984	7039102	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10162632	13/10/2010	GroundTruth_GB	573938	7039086	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10162633	13/10/2010	GroundTruth_GB	573890	7039071	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10162634	13/10/2010	GroundTruth_GB	573841	7039055	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10162635	13/10/2010	GroundTruth_GB	573794	7039040	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10162636	13/10/2010	GroundTruth_GB	573745	7039024	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10162638	13/10/2010	GroundTruth_GB	573699	7039007	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162639	13/10/2010	GroundTruth_GB	573652	7038993	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162640	13/10/2010	GroundTruth_GB	573603	7038977	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10162641	13/10/2010	GroundTruth_GB	573556	7038962	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Good	ForestBlackSpruce
10162642	13/10/2010	GroundTruth_GB	573513	7038948	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10162643	13/10/2010	GroundTruth_GB	573464	7038932	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10162644	13/10/2010	GroundTruth_GB	573417	7038916	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10162645	13/10/2010	GroundTruth_GB	573368	7038901	UTMZ7N_WGS84		Black	Silt	Moderate	B	50		Good	ForestBlackSpruce
10162646	13/10/2010	GroundTruth_GB	573320	7038885	UTMZ7N_WGS84		Black	Silt	Moderate	B	50		Good	ForestBlackSpruce
10162647	13/10/2010	GroundTruth_GB	573274	7038870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10162648	13/10/2010	GroundTruth_GB	573226	7038854	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10162649	13/10/2010	GroundTruth_GB	573178	7038839	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60	Wet	Good	ForestBlackSpruce
10162650	13/10/2010	GroundTruth_GB	573130	7038825	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10162651	13/10/2010	GroundTruth_GB	573083	7038809	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10162652	13/10/2010	GroundTruth_GB	573034	7038793	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10162653	13/10/2010	GroundTruth_GB	572987	7038777	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10162654	13/10/2010	GroundTruth_GB	572939	7038763	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50	Wet	Good	ForestBlackSpruce
10162655	13/10/2010	GroundTruth_GB	572892	7038746	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10162656	13/10/2010	GroundTruth_GB	572847	7038731	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10162658	11/10/2010	GroundTruth_GB	571080	7039314	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10162659	11/10/2010	GroundTruth_GB	571127	7039329	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10162660	11/10/2010	GroundTruth_GB	571175	7039344	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10162661	11/10/2010	GroundTruth_GB	571222	7039360	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10162662	11/10/2010	GroundTruth_GB	571270	7039373	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10162663	11/10/2010	GroundTruth_GB	571318	7039391	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10162664	11/10/2010	GroundTruth_GB	571365	7039408	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10162666	11/10/2010	GroundTruth_GB	571412	7039422	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10162667	11/10/2010	GroundTruth_GB	571460	7039438	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10162668	11/10/2010	GroundTruth_GB	571510	7039453	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Good	ForestBlackSpruce
10162669	11/10/2010	GroundTruth_GB	571556	7039467	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90		Good	ForestBlackSpruce
10162670	11/10/2010	GroundTruth_GB	571604	7039483	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10162671	11/10/2010	GroundTruth_GB	571651	7039499	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10162672	11/10/2010	GroundTruth_GB	571697	7039514	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10162673	11/10/2010	GroundTruth_GB	571746	7039529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10162674	11/10/2010	GroundTruth_GB	571793	7039546	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70	Wet	Good	ForestBlackSpruce
10162675	11/10/2010	GroundTruth_GB	571837	7039560	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60	Wet	Good	ForestBlackSpruce
10162676	11/10/2010	GroundTruth_GB	571886	7039574	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60	Wet	Good	ForestBlackSpruce
10162677	11/10/2010	GroundTruth_GB	571934	7039591	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40	Wet	Good	ForestBlackSpruce
10162678	11/10/2010	GroundTruth_GB	571981	7039606	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162679	11/10/2010	GroundTruth_GB	572027	7039622	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162680	11/10/2010	GroundTruth_GB	572076	7039637	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162681	11/10/2010	GroundTruth_GB	572123	7039653	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162682	11/10/2010	GroundTruth_GB	572171	7039668	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162683	11/10/2010	GroundTruth_GB	572219	7039683	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10162684	11/10/2010	GroundTruth_GB	572265	7039700	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10162685	11/10/2010	GroundTruth_GB	572315	7039714	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Good	ForestBlackSpruce
10162686	11/10/2010	GroundTruth_GB	572363	7039728	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Excellent	ForestBlackSpruce
10162687	11/10/2010	GroundTruth_GB	572409	7039745	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10162688	11/10/2010	GroundTruth_GB	572458	7039759	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	60		Good	ForestBlackSpruce
10162744	11/10/2010	GroundTruth_CC	571240	7039472	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10162751	10/10/2010	GroundTruth_MF	574008	7039845	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10162752	10/10/2010	GroundTruth_MF	573961	7039829	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10162753	10/10/2010	GroundTruth_MF	573912	7039812	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10162754	10/10/2010	GroundTruth_MF	573864	7039797	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10162755	10/10/2010	GroundTruth_MF	573820	7039783	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10162756	10/10/2010	GroundTruth_MF	573770	7039767	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestWhiteSpruce
10162757	10/10/2010	GroundTruth_MF	573724	7039751	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	30		Good	ForestAspen
10162758	10/10/2010	GroundTruth_MF	573675	7039736	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10162759	10/10/2010	GroundTruth_MF	573629	7039718	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	DrainageBrush
10162760	10/10/2010	GroundTruth_MF	573583	7039704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10162761	10/10/2010	GroundTruth_MF	573534	7039688	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Wet	Good	ForestBlackSpruce
10162762	10/10/2010	GroundTruth_MF	573485	7039673	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	70		Poor	ForestBlackSpruce
10162763	10/10/2010	GroundTruth_MF	573441	7039658	UTMZ7N_WGS84		BrownDark	Silt	Steep	A	60	Frozen	Poor	ForestBlackSpruce
10162764	10/10/2010	GroundTruth_MF	573389	7039642	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Wet	Good	ForestBlackSpruce
10162765	10/10/2010	GroundTruth_MF	573342	7039627	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10162766	10/10/2010	GroundTruth_MF	573299	7039612	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162767	10/10/2010	GroundTruth_MF	573250	7039597	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10162768	10/10/2010	GroundTruth_MF	573202	7039580	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBlackSpruce
10162769	10/10/2010	GroundTruth_MF	573151	7039565	UTMZ7N_WGS84		Orange	Silt	Moderate	B	90		Excellent	ForestWhiteSpruce
10162770	10/10/2010	GroundTruth_MF	573105	7039551	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10162771	10/10/2010	GroundTruth_MF	573058	7039534	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10162773	10/10/2010	GroundTruth_MF	573009	7039518	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10162774	10/10/2010	GroundTruth_MF	572959	7039504	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10162775	10/10/2010	GroundTruth_MF	572915	7039488	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50	Wet	Good	ForestBlackSpruce
10162776	10/10/2010	GroundTruth_MF	572863	7039473	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10162777	10/10/2010	GroundTruth_MF	572822	7039458	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	50		Poor	ForestBlackSpruce
10162778	10/10/2010	GroundTruth_MF	572771	7039441	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	50		Poor	ForestBlackSpruce
10162779	10/10/2010	GroundTruth_MF	572722	7039427	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	50	Frozen	Poor	ForestBlackSpruce
10162780	10/10/2010	GroundTruth_MF	572676	7039412	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	50	Frozen	Poor	ForestBlackSpruce
10162781	10/10/2010	GroundTruth_MF	572630	7039397	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10162785	12/10/2010	GroundTruth_MF	571298	7038649	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBirch
10162786	12/10/2010	GroundTruth_MF	571349	7038666	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10162804	12/10/2010	GroundTruth_MF	572149	7038927	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10162805	12/10/2010	GroundTruth_MF	572198	7038942	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10162806	12/10/2010	GroundTruth_MF	572245	7038957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10162807	12/10/2010	GroundTruth_MF	572292	7038976	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10162808	12/10/2010	GroundTruth_MF	572339	7038990	UTMZ7N_WGS84		BrownDark	Sand	Steep	B	40		Good	ForestBlackSpruce
10162809	12/10/2010	GroundTruth_MF	572389	7039006	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Frozen	Good	ForestBlackSpruce
10162810	12/10/2010	GroundTruth_MF	572437	7039022	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50		Good	ForestWhiteSpruce
10162811	12/10/2010	GroundTruth_MF	572481	7039035	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestBlackSpruce
10162812	12/10/2010	GroundTruth_MF	572529	7039052	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10162813	12/10/2010	GroundTruth_MF	572576	7039066	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Good	ForestBlackSpruce
10162815	12/10/2010	GroundTruth_MF	572626	7039081	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10162816	12/10/2010	GroundTruth_MF	572672	7039096	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10162817	14/10/2010	GroundTruth_MF	571661	7038348	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100		Good	ForestBirch
10162818	14/10/2010	GroundTruth_MF	571705	7038363	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50		Good	ForestBirch
10162819	14/10/2010	GroundTruth_MF	571756	7038379	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60		Good	ForestWhiteSpruce
10162820	14/10/2010	GroundTruth_MF	571802	7038394	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBirch
10162821	14/10/2010	GroundTruth_MF	571850	7038409	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestBirch
10162841	12/10/2010	GroundTruth_JM	572079	7039323	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10162842	12/10/2010	GroundTruth_JM	572121	7039333	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	40	Wet	Good	ForestWhiteSpruce
10162843	12/10/2010	GroundTruth_JM	572168	7039350	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10162844	12/10/2010	GroundTruth_JM	572216	7039367	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10162845	12/10/2010	GroundTruth_JM	572262	7039385	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Excellent	ForestPine
10162846	12/10/2010	GroundTruth_JM	572311	7039397	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestPine
10162847	12/10/2010	GroundTruth_JM	572358	7039414	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Excellent	ForestPine
10162848	12/10/2010	GroundTruth_JM	572406	7039428	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Excellent	ForestWhiteSpruce
10162849	12/10/2010	GroundTruth_JM	572454	7039444	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Wet	Good	ForestBlackSpruce
10162850	12/10/2010	GroundTruth_JM	572501	7039460	UTMZ7N_WGS84		Black	Clay	Moderate	B	60	Wet	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10162852	12/10/2010	GroundTruth_JM	572550	7039476	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Good	ForestBlackSpruce
10162854	14/10/2010	GroundTruth_JM	571329	7038554	UTMZ7N_WGS84		Black	Clay	Moderate	B	40	Frozen	Good	ForestPine
10162855	14/10/2010	GroundTruth_JM	571374	7038569	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Good	ForestPine
10162856	14/10/2010	GroundTruth_JM	571423	7038587	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestPine
10162857	14/10/2010	GroundTruth_JM	571471	7038601	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Wet	Good	ForestPine
10162858	14/10/2010	GroundTruth_JM	571517	7038617	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40	Wet	Good	ForestWhiteSpruce
10162859	14/10/2010	GroundTruth_JM	571566	7038632	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Good	DrainageAlder
10162860	14/10/2010	GroundTruth_JM	571612	7038646	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Wet	Good	DrainageAlder
10162861	14/10/2010	GroundTruth_JM	571660	7038660	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	40	Frozen	Good	ForestWhiteSpruce
10162862	14/10/2010	GroundTruth_JM	571709	7038677	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10162863	14/10/2010	GroundTruth_JM	571757	7038694	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10162864	14/10/2010	GroundTruth_JM	571804	7038710	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Excellent	ForestWhiteSpruce
10162865	14/10/2010	GroundTruth_JM	571852	7038725	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Frozen	Good	ForestWhiteSpruce
10162866	14/10/2010	GroundTruth_JM	571900	7038741	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10162867	14/10/2010	GroundTruth_JM	571948	7038754	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Excellent	ForestWhiteSpruce
10162868	14/10/2010	GroundTruth_JM	571994	7038769	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	50		Good	ForestWhiteSpruce
10162869	14/10/2010	GroundTruth_JM	572044	7038784	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10162870	14/10/2010	GroundTruth_JM	572091	7038801	UTMZ7N_WGS84		BrownDark	Clay	Steep	C	50	Wet	Good	ForestPine
10162871	14/10/2010	GroundTruth_JM	572137	7038816	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestWhiteSpruce
10162872	14/10/2010	GroundTruth_JM	572189	7038831	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10162873	14/10/2010	GroundTruth_JM	572234	7038847	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestPine
10162874	14/10/2010	GroundTruth_JM	572273	7038860	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Excellent	ForestPine
10162875	14/10/2010	GroundTruth_JM	572323	7038875	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	60		Excellent	DrainageAlder
10162876	14/10/2010	GroundTruth_JM	572369	7038891	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Excellent	ForestWhiteSpruce
10162877	14/10/2010	GroundTruth_JM	572418	7038906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10162878	14/10/2010	GroundTruth_JM	572466	7038923	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestWhiteSpruce
10162879	14/10/2010	GroundTruth_JM	572513	7038939	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10162880	14/10/2010	GroundTruth_JM	572561	7038953	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10162881	14/10/2010	GroundTruth_JM	572609	7038968	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10162883	14/10/2010	GroundTruth_JM	572655	7038984	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Good	ForestWhiteSpruce
10162885	14/10/2010	GroundTruth_JM	572705	7039001	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10163002	07/10/2010	GroundTruth_CO	573098	7040384	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163003	07/10/2010	GroundTruth_CO	573051	7040369	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Frozen	Good	ForestBlackSpruce
10163004	07/10/2010	GroundTruth_CO	573001	7040355	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163005	07/10/2010	GroundTruth_CO	572955	7040340	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163006	07/10/2010	GroundTruth_CO	572907	7040324	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163007	07/10/2010	GroundTruth_CO	572859	7040309	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10163008	07/10/2010	GroundTruth_CO	572811	7040295	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163009	07/10/2010	GroundTruth_CO	572762	7040279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163010	07/10/2010	GroundTruth_CO	572716	7040264	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163011	07/10/2010	GroundTruth_CO	572667	7040248	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163012	07/10/2010	GroundTruth_CO	572621	7040232	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163013	07/10/2010	GroundTruth_CO	572573	7040218	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163014	07/10/2010	GroundTruth_CO	572526	7040202	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163015	07/10/2010	GroundTruth_CO	572478	7040186	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163016	07/10/2010	GroundTruth_CO	572430	7040171	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163022	07/10/2010	GroundTruth_CO	573146	7040400	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163023	07/10/2010	GroundTruth_CO	573189	7040414	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163060	10/10/2010	GroundTruth_CO	574071	7039653	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163061	10/10/2010	GroundTruth_CO	574023	7039637	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163062	10/10/2010	GroundTruth_CO	573976	7039623	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10163063	10/10/2010	GroundTruth_CO	573928	7039606	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163064	10/10/2010	GroundTruth_CO	573880	7039589	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10163065	10/10/2010	GroundTruth_CO	573832	7039575	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163066	10/10/2010	GroundTruth_CO	573785	7039559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163067	10/10/2010	GroundTruth_CO	573738	7039544	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163068	10/10/2010	GroundTruth_CO	573689	7039528	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163069	10/10/2010	GroundTruth_CO	573643	7039511	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163070	10/10/2010	GroundTruth_CO	573593	7039495	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163071	10/10/2010	GroundTruth_CO	573547	7039479	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163072	10/10/2010	GroundTruth_CO	573500	7039465	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163073	10/10/2010	GroundTruth_CO	573450	7039448	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163074	10/10/2010	GroundTruth_CO	573404	7039434	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163075	10/10/2010	GroundTruth_CO	573355	7039417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163076	10/10/2010	GroundTruth_CO	573312	7039403	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163077	10/10/2010	GroundTruth_CO	573265	7039388	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Poor	ForestBlackSpruce
10163078	10/10/2010	GroundTruth_CO	573215	7039371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10163079	10/10/2010	GroundTruth_CO	573168	7039358	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163080	10/10/2010	GroundTruth_CO	573121	7039342	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163082	10/10/2010	GroundTruth_CO	573024	7039312	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163083	10/10/2010	GroundTruth_CO	572976	7039296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163084	10/10/2010	GroundTruth_CO	572929	7039280	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163085	10/10/2010	GroundTruth_CO	572880	7039266	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163086	10/10/2010	GroundTruth_CO	572834	7039251	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163087	10/10/2010	GroundTruth_CO	572785	7039238	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163088	10/10/2010	GroundTruth_CO	572738	7039223	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163089	10/10/2010	GroundTruth_CO	572690	7039207	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163092	14/10/2010	GroundTruth_CO	572639	7038557	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163093	14/10/2010	GroundTruth_CO	572687	7038573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163094	14/10/2010	GroundTruth_CO	572732	7038587	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163095	14/10/2010	GroundTruth_CO	572780	7038603	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10163096	14/10/2010	GroundTruth_CO	572827	7038620	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163210	10/10/2010	GroundTruth_DM	574039	7039748	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10163211	10/10/2010	GroundTruth_DM	573992	7039733	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	70		Good	ForestWhiteSpruce
10163212	10/10/2010	GroundTruth_DM	573943	7039716	UTMZ7N_WGS84		Black	Sand	Moderate	C	90		Excellent	ForestBirch
10163213	10/10/2010	GroundTruth_DM	573895	7039701	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10163214	10/10/2010	GroundTruth_DM	573848	7039686	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10163215	10/10/2010	GroundTruth_DM	573801	7039671	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163216	10/10/2010	GroundTruth_DM	573755	7039656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163217	10/10/2010	GroundTruth_DM	573707	7039639	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10163218	10/10/2010	GroundTruth_DM	573658	7039624	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163219	10/10/2010	GroundTruth_DM	573611	7039609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10163220	10/10/2010	GroundTruth_DM	573563	7039593	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163221	10/10/2010	GroundTruth_DM	573515	7039577	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163222	10/10/2010	GroundTruth_DM	573467	7039562	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10163223	10/10/2010	GroundTruth_DM	573421	7039547	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163224	10/10/2010	GroundTruth_DM	573372	7039531	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10163225	10/10/2010	GroundTruth_DM	573327	7039517	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163226	10/10/2010	GroundTruth_DM	573280	7039501	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10163227	10/10/2010	GroundTruth_DM	573232	7039486	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10163228	10/10/2010	GroundTruth_DM	573183	7039470	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10163229	10/10/2010	GroundTruth_DM	573139	7039456	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10163230	10/10/2010	GroundTruth_DM	573089	7039439	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Good	ForestBlackSpruce
10163231	10/10/2010	GroundTruth_DM	573041	7039424	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10163232	10/10/2010	GroundTruth_DM	572992	7039408	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100	Wet	Poor	ForestBlackSpruce
10163233	10/10/2010	GroundTruth_DM	572945	7039393	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100		Poor	ForestBlackSpruce
10163234	10/10/2010	GroundTruth_DM	572898	7039378	UTMZ7N_WGS84		Black	Sand	Flat	C	110	Wet	Poor	ForestBlackSpruce
10163235	10/10/2010	GroundTruth_DM	572851	7039362	UTMZ7N_WGS84		Black	Sand	Flat	C	110	Wet	Poor	ForestBlackSpruce
10163236	10/10/2010	GroundTruth_DM	572803	7039347	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	110	Wet	Poor	ForestBlackSpruce
10163277	12/10/2010	GroundTruth_DM	571236	7038838	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163278	12/10/2010	GroundTruth_DM	571284	7038855	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163279	12/10/2010	GroundTruth_DM	571331	7038870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163280	12/10/2010	GroundTruth_DM	571379	7038886	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10163281	12/10/2010	GroundTruth_DM	571426	7038902	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163282	12/10/2010	GroundTruth_DM	571473	7038917	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10163283	12/10/2010	GroundTruth_DM	571521	7038933	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestWhiteSpruce
10163284	12/10/2010	GroundTruth_DM	571570	7038948	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Frozen	Poor	ForestWhiteSpruce
10163285	12/10/2010	GroundTruth_DM	571616	7038964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Poor	ForestWhiteSpruce
10163286	12/10/2010	GroundTruth_DM	571664	7038980	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10163287	12/10/2010	GroundTruth_DM	571711	7038995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10163288	12/10/2010	GroundTruth_DM	571761	7039010	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10163289	12/10/2010	GroundTruth_DM	571807	7039026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10163290	12/10/2010	GroundTruth_DM	571857	7039043	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163291	12/10/2010	GroundTruth_DM	571902	7039058	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110		Excellent	ForestWhiteSpruce
10163292	12/10/2010	GroundTruth_DM	571950	7039073	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110		Excellent	ForestWhiteSpruce
10163293	12/10/2010	GroundTruth_DM	571991	7039086	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Poor	ForestWhiteSpruce
10163294	12/10/2010	GroundTruth_DM	572038	7039101	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10163295	12/10/2010	GroundTruth_DM	572089	7039118	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10163296	12/10/2010	GroundTruth_DM	572135	7039132	UTMZ7N_WGS84		RustyOrange	Sand	Steep	C	90		Excellent	ForestWhiteSpruce
10163297	12/10/2010	GroundTruth_DM	572184	7039148	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10163298	12/10/2010	GroundTruth_DM	572231	7039164	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10163368	13/10/2010	GroundTruth_CC	573542	7038851	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10163369	13/10/2010	GroundTruth_CC	573495	7038834	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10163370	13/10/2010	GroundTruth_CC	573449	7038820	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestWhiteSpruce
10163371	13/10/2010	GroundTruth_CC	573400	7038804	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10163372	13/10/2010	GroundTruth_CC	573352	7038789	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163384	13/10/2010	GroundTruth_CC	573304	7038773	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Excellent	ForestWhiteSpruce
10163386	13/10/2010	GroundTruth_CC	573258	7038758	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163388	13/10/2010	GroundTruth_CC	573162	7038727	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10163389	13/10/2010	GroundTruth_CC	573115	7038712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestBlackSpruce
10163390	13/10/2010	GroundTruth_CC	573066	7038697	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10163391	13/10/2010	GroundTruth_CC	573018	7038680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10163392	13/10/2010	GroundTruth_CC	572972	7038663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10163393	13/10/2010	GroundTruth_CC	572923	7038650	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Good	ForestWhiteSpruce
10163394	13/10/2010	GroundTruth_CC	572876	7038635	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10163469	11/10/2010	GroundTruth_TW	571618	7039284	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10163470	11/10/2010	GroundTruth_TW	571668	7039295	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestWhiteSpruce
10163471	11/10/2010	GroundTruth_TW	571712	7039314	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Poor	ForestWhiteSpruce
10163472	11/10/2010	GroundTruth_TW	571760	7039328	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163473	11/10/2010	GroundTruth_TW	571809	7039345	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10163474	11/10/2010	GroundTruth_TW	571854	7039359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestWhiteSpruce
10163475	11/10/2010	GroundTruth_TW	571898	7039370	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestWhiteSpruce
10163476	11/10/2010	GroundTruth_TW	571946	7039385	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163477	11/10/2010	GroundTruth_TW	571994	7039399	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10163478	11/10/2010	GroundTruth_TW	572042	7039414	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	110	Wet	Poor	ForestWhiteSpruce
10163479	11/10/2010	GroundTruth_TW	572091	7039430	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	110	Wet	Good	ForestWhiteSpruce
10163480	11/10/2010	GroundTruth_TW	572136	7039447	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90		Excellent	ForestWhiteSpruce
10163481	11/10/2010	GroundTruth_TW	572184	7039463	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100		Poor	ForestWhiteSpruce
10163482	11/10/2010	GroundTruth_TW	572232	7039477	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	110	Wet	Poor	ForestWhiteSpruce
10163483	11/10/2010	GroundTruth_TW	572280	7039494	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163484	11/10/2010	GroundTruth_TW	572330	7039508	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163486	11/10/2010	GroundTruth_TW	572375	7039525	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163487	11/10/2010	GroundTruth_TW	572422	7039540	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163488	11/10/2010	GroundTruth_TW	572469	7039555	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	30		Excellent	ForestBlackSpruce
10163489	11/10/2010	GroundTruth_TW	572519	7039569	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	80		Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163494	13/10/2010	GroundTruth_TW	574195	7039274	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	70	Frozen	Good	ForestBlackSpruce
10163495	13/10/2010	GroundTruth_TW	574145	7039260	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	70	Frozen	Poor	ForestBlackSpruce
10163496	13/10/2010	GroundTruth_TW	574099	7039244	UTMZ7N_WGS84		Black	Silt	Steep	B	70	Frozen	Poor	ForestBlackSpruce
10163497	13/10/2010	GroundTruth_TW	574052	7039229	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163498	13/10/2010	GroundTruth_TW	574005	7039213	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163499	13/10/2010	GroundTruth_TW	573956	7039199	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163500	13/10/2010	GroundTruth_TW	573910	7039182	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163501	28/09/2010	GroundTruth_GB	575234	7041084	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10163502	28/09/2010	GroundTruth_GB	575282	7041099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10163503	28/09/2010	GroundTruth_GB	575330	7041114	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163504	28/09/2010	GroundTruth_GB	575377	7041130	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163505	28/09/2010	GroundTruth_GB	575426	7041146	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163506	28/09/2010	GroundTruth_GB	575473	7041160	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163507	28/09/2010	GroundTruth_GB	575521	7041177	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163508	28/09/2010	GroundTruth_GB	575569	7041191	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163509	28/09/2010	GroundTruth_GB	575616	7041207	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163510	28/09/2010	GroundTruth_GB	575664	7041223	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163511	28/09/2010	GroundTruth_GB	575711	7041238	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10163512	28/09/2010	GroundTruth_GB	575758	7041254	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163513	28/09/2010	GroundTruth_GB	575806	7041269	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163514	28/09/2010	GroundTruth_GB	575854	7041285	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163515	28/09/2010	GroundTruth_GB	575900	7041300	UTMZ7N_WGS84		Black	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10163516	28/09/2010	GroundTruth_GB	575949	7041316	UTMZ7N_WGS84		Black	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10163517	28/09/2010	GroundTruth_GB	575993	7041330	UTMZ7N_WGS84		Black	Silt	Moderate	B	60		Good	ForestBlackSpruce
10163518	28/09/2010	GroundTruth_GB	576041	7041345	UTMZ7N_WGS84		Black	Sand	Moderate	B	70		Good	ForestBlackSpruce
10163519	28/09/2010	GroundTruth_GB	576089	7041362	UTMZ7N_WGS84		Black	Sand	Moderate	B	60		Good	ForestBlackSpruce
10163520	28/09/2010	GroundTruth_GB	576137	7041377	UTMZ7N_WGS84		Black	Sand	Moderate	B	50		Good	ForestBlackSpruce
10163521	28/09/2010	GroundTruth_GB	576185	7041392	UTMZ7N_WGS84		Black	Sand	Moderate	B	50		Good	ForestBlackSpruce
10163522	28/09/2010	GroundTruth_GB	576233	7041407	UTMZ7N_WGS84		Black	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163524	28/09/2010	GroundTruth_GB	576279	7041424	UTMZ7N_WGS84		Black	Silt	Moderate	B	60		Good	ForestBlackSpruce
10163525	28/09/2010	GroundTruth_GB	576330	7041439	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10163526	28/09/2010	GroundTruth_GB	576376	7041455	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163527	28/09/2010	GroundTruth_GB	576424	7041469	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestAspen
10163528	28/09/2010	GroundTruth_GB	576471	7041486	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163529	28/09/2010	GroundTruth_GB	576517	7041502	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestAspen
10163530	28/09/2010	GroundTruth_GB	576565	7041517	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestAspen
10163531	28/09/2010	GroundTruth_GB	576613	7041532	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	BurnOld
10163533	28/09/2010	GroundTruth_GB	576663	7041548	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	BurnOld
10163534	29/09/2010	GroundTruth_GB	575358	7040704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163535	29/09/2010	GroundTruth_GB	575405	7040718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163536	29/09/2010	GroundTruth_GB	575454	7040733	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163538	29/09/2010	GroundTruth_GB	575502	7040750	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163539	29/09/2010	GroundTruth_GB	575550	7040764	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10163540	29/09/2010	GroundTruth_GB	575597	7040781	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163541	29/09/2010	GroundTruth_GB	575645	7040796	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10163542	29/09/2010	GroundTruth_GB	575692	7040811	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10163543	29/09/2010	GroundTruth_GB	575739	7040828	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10163544	29/09/2010	GroundTruth_GB	575787	7040843	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10163545	29/09/2010	GroundTruth_GB	575835	7040858	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10163546	29/09/2010	GroundTruth_GB	575883	7040874	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163547	29/09/2010	GroundTruth_GB	575930	7040889	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163548	29/09/2010	GroundTruth_GB	575977	7040905	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163549	29/09/2010	GroundTruth_GB	576026	7040920	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163550	29/09/2010	GroundTruth_GB	576073	7040936	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163551	29/09/2010	GroundTruth_GB	576118	7040950	UTMZ7N_WGS84		Black	Silt	Moderate	B	40	Wet	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163552	29/09/2010	GroundTruth_GB	576166	7040966	UTMZ7N_WGS84		Green	Silt	Moderate	C	50	Wet	Good	ForestBlackSpruce
10163553	29/09/2010	GroundTruth_GB	576213	7040979	UTMZ7N_WGS84		Black	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10163554	29/09/2010	GroundTruth_GB	576261	7040998	UTMZ7N_WGS84		Black	Silt	Moderate	B	70	Wet	Good	ForestBlackSpruce
10163555	29/09/2010	GroundTruth_GB	576309	7041012	UTMZ7N_WGS84		Black	Silt	Moderate	B	70	Wet	Good	ForestBlackSpruce
10163556	29/09/2010	GroundTruth_GB	576356	7041028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163557	29/09/2010	GroundTruth_GB	576405	7041044	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163558	29/09/2010	GroundTruth_GB	576452	7041058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163559	29/09/2010	GroundTruth_GB	576500	7041075	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10163560	29/09/2010	GroundTruth_GB	576547	7041089	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163561	29/09/2010	GroundTruth_GB	576594	7041105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	BurnOld
10163562	29/09/2010	GroundTruth_GB	576642	7041121	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	BurnOld
10163563	29/09/2010	GroundTruth_GB	576690	7041136	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	BurnOld
10163565	29/09/2010	GroundTruth_GB	576739	7041152	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	BurnOld
10163566	29/09/2010	GroundTruth_GB	576786	7041167	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	BurnOld
10163568	30/09/2010	GroundTruth_GB	575699	7039658	UTMZ7N_WGS84		Black	Silt	Moderate	B	40		Good	ForestBlackSpruce
10163569	30/09/2010	GroundTruth_GB	575651	7039641	UTMZ7N_WGS84		Black	Silt	Moderate	B	50		Good	ForestBlackSpruce
10163570	30/09/2010	GroundTruth_GB	575604	7039626	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163571	30/09/2010	GroundTruth_GB	575556	7039610	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163572	30/09/2010	GroundTruth_GB	575508	7039595	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163573	30/09/2010	GroundTruth_GB	575462	7039580	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163574	30/09/2010	GroundTruth_GB	575413	7039564	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163575	30/09/2010	GroundTruth_GB	575365	7039549	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10163576	30/09/2010	GroundTruth_GB	575318	7039532	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10163577	30/09/2010	GroundTruth_GB	575269	7039518	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10163578	30/09/2010	GroundTruth_GB	575222	7039501	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163579	30/09/2010	GroundTruth_GB	575175	7039485	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163580	30/09/2010	GroundTruth_GB	575127	7039471	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10163581	30/09/2010	GroundTruth_GB	575079	7039455	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163582	30/09/2010	GroundTruth_GB	575032	7039439	UTMZ7N_WGS84		Black	Silt	Moderate	C	70		Good	ForestBlackSpruce
10163583	30/09/2010	GroundTruth_GB	574984	7039424	UTMZ7N_WGS84		Black	Silt	Moderate	C	100		Excellent	ForestBlackSpruce
10163584	30/09/2010	GroundTruth_GB	574934	7039410	UTMZ7N_WGS84		Black	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10163585	30/09/2010	GroundTruth_GB	574890	7039394	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10163586	30/09/2010	GroundTruth_GB	574846	7039378	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10163587	30/09/2010	GroundTruth_GB	574797	7039363	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10163588	30/09/2010	GroundTruth_GB	574748	7039347	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163589	30/09/2010	GroundTruth_GB	574702	7039332	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163590	30/09/2010	GroundTruth_GB	574653	7039317	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163591	30/09/2010	GroundTruth_GB	574606	7039302	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163592	30/09/2010	GroundTruth_GB	574559	7039286	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163593	30/09/2010	GroundTruth_GB	574510	7039271	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163594	30/09/2010	GroundTruth_GB	574462	7039256	UTMZ7N_WGS84		Black	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10163595	30/09/2010	GroundTruth_GB	574414	7039240	UTMZ7N_WGS84		Black	Silt	Moderate	B	80		Good	ForestBlackSpruce
10163596	30/09/2010	GroundTruth_GB	574368	7039224	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163597	30/09/2010	GroundTruth_GB	574319	7039209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10163599	30/09/2010	GroundTruth_GB	574273	7039193	UTMZ7N_WGS84		Black	Silt	Moderate	B	60		Good	ForestBlackSpruce
10163600	01/10/2010	GroundTruth_GB	575373	7040497	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	50		Excellent	ForestBlackSpruce
10163601	01/10/2010	GroundTruth_GB	575324	7040482	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10163602	01/10/2010	GroundTruth_GB	575276	7040465	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10163603	01/10/2010	GroundTruth_GB	575229	7040450	UTMZ7N_WGS84		Orange	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10163604	01/10/2010	GroundTruth_GB	575182	7040435	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163605	01/10/2010	GroundTruth_GB	575134	7040419	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163606	01/10/2010	GroundTruth_GB	575085	7040404	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163607	01/10/2010	GroundTruth_GB	575039	7040388	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163608	01/10/2010	GroundTruth_GB	574990	7040373	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163609	01/10/2010	GroundTruth_GB	574943	7040356	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163611	01/10/2010	GroundTruth_GB	574896	7040341	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163612	01/10/2010	GroundTruth_GB	574848	7040326	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163613	01/10/2010	GroundTruth_GB	574800	7040311	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163614	01/10/2010	GroundTruth_GB	574753	7040295	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10163615	01/10/2010	GroundTruth_GB	574705	7040279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163616	01/10/2010	GroundTruth_GB	574661	7040265	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163617	01/10/2010	GroundTruth_GB	574613	7040251	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10163618	01/10/2010	GroundTruth_GB	574566	7040235	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10163619	01/10/2010	GroundTruth_GB	574518	7040219	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163620	01/10/2010	GroundTruth_GB	574469	7040203	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10163621	01/10/2010	GroundTruth_GB	574424	7040188	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163622	01/10/2010	GroundTruth_GB	574375	7040173	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163623	01/10/2010	GroundTruth_GB	574328	7040157	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
10163624	01/10/2010	GroundTruth_GB	574279	7040142	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163625	01/10/2010	GroundTruth_GB	574232	7040127	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163626	01/10/2010	GroundTruth_GB	574184	7040111	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10163627	01/10/2010	GroundTruth_GB	574136	7040096	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163628	01/10/2010	GroundTruth_GB	574089	7040079	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163629	01/10/2010	GroundTruth_GB	574041	7040065	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10163630	01/10/2010	GroundTruth_GB	573994	7040049	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10163631	03/10/2010	GroundTruth_GB	570756	7040471	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestBlackSpruce
10163632	03/10/2010	GroundTruth_GB	570709	7040455	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163633	03/10/2010	GroundTruth_GB	570803	7040486	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163634	03/10/2010	GroundTruth_GB	570850	7040501	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163635	03/10/2010	GroundTruth_GB	570898	7040516	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163636	03/10/2010	GroundTruth_GB	570898	7040516	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163637	03/10/2010	GroundTruth_GB	570945	7040532	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163638	03/10/2010	GroundTruth_GB	570993	7040548	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163639	03/10/2010	GroundTruth_GB	571042	7040563	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10163640	03/10/2010	GroundTruth_GB	571088	7040579	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163641	03/10/2010	GroundTruth_GB	571137	7040594	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10163642	03/10/2010	GroundTruth_GB	571184	7040610	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestAspen
10163643	03/10/2010	GroundTruth_GB	571231	7040624	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163644	03/10/2010	GroundTruth_GB	571281	7040641	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163645	03/10/2010	GroundTruth_GB	571327	7040655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163646	03/10/2010	GroundTruth_GB	571374	7040670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10163647	03/10/2010	GroundTruth_GB	571421	7040687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163648	03/10/2010	GroundTruth_GB	571468	7040700	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10163649	03/10/2010	GroundTruth_GB	571515	7040716	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestAspen
10163650	03/10/2010	GroundTruth_GB	571563	7040732	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163651	28/09/2010	GroundTruth_DM	575173	7041275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163652	28/09/2010	GroundTruth_DM	575218	7041288	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10163653	28/09/2010	GroundTruth_DM	575266	7041303	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163654	28/09/2010	GroundTruth_DM	575315	7041319	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163655	28/09/2010	GroundTruth_DM	575361	7041334	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163656	28/09/2010	GroundTruth_DM	575410	7041350	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163657	28/09/2010	GroundTruth_DM	575458	7041366	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163658	28/09/2010	GroundTruth_DM	575503	7041380	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163659	28/09/2010	GroundTruth_DM	575553	7041397	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163660	28/09/2010	GroundTruth_DM	575601	7041413	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10163661	28/09/2010	GroundTruth_DM	575649	7041428	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10163662	28/09/2010	GroundTruth_DM	575696	7041443	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10163663	28/09/2010	GroundTruth_DM	575838	7041490	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10163664	28/09/2010	GroundTruth_DM	575980	7041537	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10163665	28/09/2010	GroundTruth_DM	576028	7041552	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163666	28/09/2010	GroundTruth_DM	576123	7041583	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163667	28/09/2010	GroundTruth_DM	576171	7041598	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163668	28/09/2010	GroundTruth_DM	576217	7041614	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163669	28/09/2010	GroundTruth_DM	576267	7041629	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10163670	28/09/2010	GroundTruth_DM	576361	7041660	UTMZ7N_WGS84		Black	Silt	Moderate	B	60	Frozen	Poor	DrainageBrush
10163671	28/09/2010	GroundTruth_DM	576410	7041676	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Poor	ForestBirch
10163672	28/09/2010	GroundTruth_DM	576456	7041692	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Poor	ForestBirch
10163673	28/09/2010	GroundTruth_DM	576506	7041707	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Poor	ForestBlackSpruce
10163674	28/09/2010	GroundTruth_DM	576553	7041722	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestBlackSpruce
10163675	28/09/2010	GroundTruth_DM	576599	7041738	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10163677	29/09/2010	GroundTruth_DM	575390	7040609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163678	29/09/2010	GroundTruth_DM	575438	7040623	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163679	29/09/2010	GroundTruth_DM	575484	7040638	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163680	29/09/2010	GroundTruth_DM	575532	7040654	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10163681	29/09/2010	GroundTruth_DM	575580	7040670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10163682	29/09/2010	GroundTruth_DM	575628	7040685	UTMZ7N_WGS84		Grey	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10163683	29/09/2010	GroundTruth_DM	575674	7040700	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Good	ForestBlackSpruce
10163684	29/09/2010	GroundTruth_DM	575722	7040716	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestBlackSpruce
10163685	29/09/2010	GroundTruth_DM	575770	7040731	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10163686	29/09/2010	GroundTruth_DM	575819	7040747	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Poor	ForestBlackSpruce
10163687	29/09/2010	GroundTruth_DM	575867	7040763	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163688	29/09/2010	GroundTruth_DM	575914	7040778	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163689	29/09/2010	GroundTruth_DM	575961	7040793	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163690	29/09/2010	GroundTruth_DM	576010	7040809	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163694	07/10/2010	GroundTruth_CO	573284	7040446	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163695	01/10/2010	GroundTruth_PM	575434	7039991	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163696	01/10/2010	GroundTruth_PM	575387	7039975	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163697	01/10/2010	GroundTruth_PM	575339	7039961	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163698	01/10/2010	GroundTruth_PM	575292	7039945	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163699	01/10/2010	GroundTruth_PM	575244	7039930	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163700	01/10/2010	GroundTruth_PM	575196	7039914	UTMZ7N_WGS84		Yellow	Sand	Moderate	C	70		Excellent	ForestAspen
10163701	01/10/2010	GroundTruth_PM	575147	7039897	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestAspen
10163703	01/10/2010	GroundTruth_PM	575103	7039883	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestAspen
10163704	01/10/2010	GroundTruth_PM	575055	7039867	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10163705	01/10/2010	GroundTruth_PM	575007	7039851	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10163706	01/10/2010	GroundTruth_PM	574959	7039838	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	110		Excellent	ForestBirch
10163707	01/10/2010	GroundTruth_PM	574911	7039821	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestAspen
10163708	01/10/2010	GroundTruth_PM	574863	7039806	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10163709	01/10/2010	GroundTruth_PM	574815	7039790	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10163710	01/10/2010	GroundTruth_PM	574766	7039775	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163711	01/10/2010	GroundTruth_PM	574718	7039760	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163712	01/10/2010	GroundTruth_PM	574674	7039745	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163713	01/10/2010	GroundTruth_PM	574624	7039729	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163714	01/10/2010	GroundTruth_PM	574578	7039713	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163716	01/10/2010	GroundTruth_PM	574530	7039699	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163717	01/10/2010	GroundTruth_PM	574482	7039682	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163718	01/10/2010	GroundTruth_PM	574435	7039667	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10163719	01/10/2010	GroundTruth_PM	574387	7039651	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163720	01/10/2010	GroundTruth_PM	574340	7039634	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163721	01/10/2010	GroundTruth_PM	574292	7039620	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10163722	01/10/2010	GroundTruth_PM	574243	7039604	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10163723	01/10/2010	GroundTruth_PM	574195	7039589	UTMZ7N_WGS84		Black	Silt	Moderate	C	70		Poor	ForestWhiteSpruce
10163724	01/10/2010	GroundTruth_PM	574147	7039574	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10163725	02/10/2010	GroundTruth_PM	575064	7041448	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163726	02/10/2010	GroundTruth_PM	575014	7041432	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163727	02/10/2010	GroundTruth_PM	574967	7041417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163728	02/10/2010	GroundTruth_PM	574923	7041402	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163729	04/10/2010	GroundTruth_CO	570849	7040184	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163730	04/10/2010	GroundTruth_CO	570896	7040200	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163731	04/10/2010	GroundTruth_CO	570943	7040216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163732	04/10/2010	GroundTruth_CO	570991	7040232	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163733	04/10/2010	GroundTruth_CO	571037	7040248	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163734	04/10/2010	GroundTruth_CO	571086	7040262	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163735	04/10/2010	GroundTruth_CO	571134	7040279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163736	04/10/2010	GroundTruth_CO	571182	7040295	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163737	04/10/2010	GroundTruth_CO	571229	7040310	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163738	04/10/2010	GroundTruth_CO	571276	7040326	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163739	04/10/2010	GroundTruth_CO	571324	7040341	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163740	04/10/2010	GroundTruth_CO	571371	7040357	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163741	04/10/2010	GroundTruth_CO	571418	7040374	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163742	04/10/2010	GroundTruth_CO	571464	7040388	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163743	04/10/2010	GroundTruth_CO	571511	7040404	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163744	28/09/2010	GroundTruth_PM	575204	7041180	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163745	28/09/2010	GroundTruth_PM	575252	7041194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163746	28/09/2010	GroundTruth_PM	575300	7041211	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163747	28/09/2010	GroundTruth_PM	575348	7041225	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10163748	28/09/2010	GroundTruth_PM	575395	7041240	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163750	28/09/2010	GroundTruth_PM	575444	7041257	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163751	28/09/2010	GroundTruth_PM	575491	7041271	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	90		Excellent	ForestBlackSpruce
10163752	28/09/2010	GroundTruth_PM	575539	7041288	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50	Frozen	Good	ForestBlackSpruce
10163753	28/09/2010	GroundTruth_PM	575588	7041302	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163754	28/09/2010	GroundTruth_PM	575634	7041318	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163755	28/09/2010	GroundTruth_PM	575683	7041333	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce
10163756	28/09/2010	GroundTruth_PM	575730	7041349	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10163757	28/09/2010	GroundTruth_PM	575778	7041365	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10163758	28/09/2010	GroundTruth_PM	575824	7041381	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10163759	28/09/2010	GroundTruth_PM	575873	7041395	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10163760	28/09/2010	GroundTruth_PM	575920	7041411	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163761	28/09/2010	GroundTruth_PM	575969	7041425	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163762	28/09/2010	GroundTruth_PM	576015	7041441	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163763	28/09/2010	GroundTruth_PM	576063	7041458	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163764	28/09/2010	GroundTruth_PM	576113	7041473	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10163765	28/09/2010	GroundTruth_PM	576156	7041488	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10163766	28/09/2010	GroundTruth_PM	576204	7041501	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10163767	28/09/2010	GroundTruth_PM	576248	7041519	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10163768	28/09/2010	GroundTruth_PM	576296	7041534	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163769	28/09/2010	GroundTruth_PM	576345	7041548	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163770	28/09/2010	GroundTruth_PM	576392	7041564	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163771	28/09/2010	GroundTruth_PM	576440	7041578	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10163772	28/09/2010	GroundTruth_PM	576488	7041596	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163773	28/09/2010	GroundTruth_PM	576534	7041612	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10163774	28/09/2010	GroundTruth_PM	576582	7041626	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10163775	28/09/2010	GroundTruth_PM	576630	7041642	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10163776	02/10/2010	GroundTruth_PM	574873	7041384	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163777	02/10/2010	GroundTruth_PM	574826	7041371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163778	02/10/2010	GroundTruth_PM	574778	7041354	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163779	02/10/2010	GroundTruth_PM	574732	7041339	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10163780	02/10/2010	GroundTruth_PM	574683	7041326	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBirch
10163782	02/10/2010	GroundTruth_PM	574634	7041309	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestBirch
10163783	01/10/2010	GroundTruth_PM	575483	7040007	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163784	01/10/2010	GroundTruth_DM	574278	7039825	UTMZ7N_WGS84		Black	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163785	01/10/2010	GroundTruth_DM	574230	7039810	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163786	01/10/2010	GroundTruth_DM	574182	7039796	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10163787	01/10/2010	GroundTruth_DM	574133	7039778	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10163789	01/10/2010	GroundTruth_DM	574086	7039764	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10163790	02/10/2010	GroundTruth_DM	575124	7041257	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10163791	02/10/2010	GroundTruth_DM	575078	7041242	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10163792	02/10/2010	GroundTruth_DM	575031	7041227	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163793	02/10/2010	GroundTruth_DM	574981	7041210	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10163794	02/10/2010	GroundTruth_DM	574934	7041195	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10163795	02/10/2010	GroundTruth_DM	574887	7041180	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163796	02/10/2010	GroundTruth_DM	574840	7041165	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10163797	02/10/2010	GroundTruth_DM	574792	7041148	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestBirch
10163798	02/10/2010	GroundTruth_DM	574743	7041132	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBirch
10163799	02/10/2010	GroundTruth_DM	574697	7041118	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10163800	02/10/2010	GroundTruth_DM	574647	7041102	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70	Wet	Good	ForestBirch
10163801	02/10/2010	GroundTruth_DM	574599	7041087	UTMZ7N_WGS84		Black	Sand	Moderate	C	80	Wet	Poor	ForestBlackSpruce
10163802	02/10/2010	GroundTruth_DM	574554	7041071	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10163803	02/10/2010	GroundTruth_DM	574506	7041055	UTMZ7N_WGS84		Black	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10163804	02/10/2010	GroundTruth_DM	574458	7041041	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce
10163805	02/10/2010	GroundTruth_DM	574416	7041027	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10163806	02/10/2010	GroundTruth_DM	574367	7041011	UTMZ7N_WGS84		Black	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10163807	02/10/2010	GroundTruth_DM	574319	7040996	UTMZ7N_WGS84		Black	Sand	Moderate	C	30	Frozen	Poor	ForestBlackSpruce
10163808	02/10/2010	GroundTruth_DM	574272	7040980	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163809	02/10/2010	GroundTruth_DM	574224	7040965	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10163810	02/10/2010	GroundTruth_DM	574176	7040949	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10163811	02/10/2010	GroundTruth_DM	574128	7040934	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163812	02/10/2010	GroundTruth_DM	574081	7040918	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163813	02/10/2010	GroundTruth_DM	574033	7040904	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163814	02/10/2010	GroundTruth_DM	573985	7040887	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10163815	02/10/2010	GroundTruth_DM	573937	7040872	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10163816	02/10/2010	GroundTruth_DM	573889	7040856	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10163817	02/10/2010	GroundTruth_DM	573842	7040840	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10163818	01/10/2010	GroundTruth_CO	575495	7040117	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163819	01/10/2010	GroundTruth_CO	575448	7040102	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163820	01/10/2010	GroundTruth_CO	575401	7040084	UTMZ7N_WGS84		Blue	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163821	01/10/2010	GroundTruth_CO	575351	7040069	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163822	01/10/2010	GroundTruth_CO	575304	7040053	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163823	01/10/2010	GroundTruth_CO	575258	7040037	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163824	01/10/2010	GroundTruth_CO	575210	7040022	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163825	01/10/2010	GroundTruth_CO	575163	7040007	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163826	01/10/2010	GroundTruth_CO	575116	7039989	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163827	01/10/2010	GroundTruth_CO	575068	7039976	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163828	01/10/2010	GroundTruth_CO	575021	7039959	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163829	01/10/2010	GroundTruth_CO	574976	7039947	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163830	01/10/2010	GroundTruth_CO	574928	7039933	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163831	01/10/2010	GroundTruth_CO	574881	7039916	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163832	01/10/2010	GroundTruth_CO	574832	7039900	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163833	01/10/2010	GroundTruth_CO	574784	7039886	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163834	01/10/2010	GroundTruth_CO	574735	7039870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163835	01/10/2010	GroundTruth_CO	574689	7039854	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163836	01/10/2010	GroundTruth_CO	574641	7039840	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163837	01/10/2010	GroundTruth_CO	574593	7039823	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163838	01/10/2010	GroundTruth_CO	574545	7039809	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163839	01/10/2010	GroundTruth_CO	574500	7039793	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163840	01/10/2010	GroundTruth_CO	574450	7039779	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163841	01/10/2010	GroundTruth_CO	574404	7039762	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163842	01/10/2010	GroundTruth_CO	574356	7039747	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163843	01/10/2010	GroundTruth_CO	574308	7039730	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163844	01/10/2010	GroundTruth_CO	574260	7039717	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163845	01/10/2010	GroundTruth_CO	574212	7039701	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163846	01/10/2010	GroundTruth_CO	574164	7039685	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163847	01/10/2010	GroundTruth_CO	574116	7039669	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163849	28/09/2010	GroundTruth_CO	575143	7041370	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163850	28/09/2010	GroundTruth_CO	575188	7041385	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163851	28/09/2010	GroundTruth_CO	575237	7041402	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163852	28/09/2010	GroundTruth_CO	575284	7041415	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163853	28/09/2010	GroundTruth_CO	575331	7041432	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163854	28/09/2010	GroundTruth_CO	575380	7041447	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163855	28/09/2010	GroundTruth_CO	575427	7041463	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163856	28/09/2010	GroundTruth_CO	575473	7041479	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163857	28/09/2010	GroundTruth_CO	575522	7041494	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163858	28/09/2010	GroundTruth_CO	575570	7041510	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163859	28/09/2010	GroundTruth_CO	575617	7041526	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163860	28/09/2010	GroundTruth_CO	575664	7041542	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163861	28/09/2010	GroundTruth_CO	575712	7041559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163862	28/09/2010	GroundTruth_CO	575760	7041573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163863	28/09/2010	GroundTruth_CO	575808	7041588	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10163864	28/09/2010	GroundTruth_CO	575852	7041601	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163865	28/09/2010	GroundTruth_CO	575899	7041618	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10163866	28/09/2010	GroundTruth_CO	575948	7041632	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163867	28/09/2010	GroundTruth_CO	575996	7041647	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163868	28/09/2010	GroundTruth_CO	576043	7041663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163869	28/09/2010	GroundTruth_CO	576091	7041678	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163870	28/09/2010	GroundTruth_CO	576139	7041694	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163871	28/09/2010	GroundTruth_CO	576186	7041710	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163872	28/09/2010	GroundTruth_CO	576234	7041725	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163873	28/09/2010	GroundTruth_CO	576283	7041740	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163874	28/09/2010	GroundTruth_CO	576332	7041755	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10163875	28/09/2010	GroundTruth_CO	576378	7041770	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163876	28/09/2010	GroundTruth_CO	576426	7041785	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163877	28/09/2010	GroundTruth_CO	576473	7041802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163878	28/09/2010	GroundTruth_CO	576522	7041818	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163880	28/09/2010	GroundTruth_CO	576570	7041833	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10163882	04/10/2010	GroundTruth_CO	571989	7040556	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10163883	04/10/2010	GroundTruth_CO	572037	7040571	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163884	04/10/2010	GroundTruth_CO	572083	7040587	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163885	04/10/2010	GroundTruth_CO	572132	7040601	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163886	04/10/2010	GroundTruth_CO	572180	7040616	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163887	04/10/2010	GroundTruth_CO	572227	7040631	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163888	07/10/2010	GroundTruth_CO	573760	7040603	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163889	07/10/2010	GroundTruth_CO	573713	7040588	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163890	07/10/2010	GroundTruth_CO	573664	7040572	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163891	07/10/2010	GroundTruth_CO	573619	7040556	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163898	04/10/2010	GroundTruth_PM	571200	7040405	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestAspen
10163900	04/10/2010	GroundTruth_PM	571248	7040419	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10163901	04/10/2010	GroundTruth_PM	571295	7040434	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10163902	04/10/2010	GroundTruth_PM	571343	7040450	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10163903	04/10/2010	GroundTruth_PM	571389	7040464	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10163904	04/10/2010	GroundTruth_PM	571438	7040482	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10163905	04/10/2010	GroundTruth_PM	571484	7040497	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10163906	04/10/2010	GroundTruth_PM	571532	7040511	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10163907	04/10/2010	GroundTruth_PM	571582	7040525	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10163908	04/10/2010	GroundTruth_PM	571627	7040543	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Good	ForestAspen
10163909	04/10/2010	GroundTruth_PM	571675	7040559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10163910	04/10/2010	GroundTruth_PM	571723	7040577	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163911	04/10/2010	GroundTruth_PM	571767	7040588	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163912	04/10/2010	GroundTruth_PM	571817	7040603	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163913	04/10/2010	GroundTruth_PM	571863	7040619	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10163914	04/10/2010	GroundTruth_PM	571909	7040634	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163915	04/10/2010	GroundTruth_PM	571958	7040649	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163916	04/10/2010	GroundTruth_PM	572006	7040665	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163917	04/10/2010	GroundTruth_PM	572054	7040681	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10163918	04/10/2010	GroundTruth_PM	572101	7040695	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163919	04/10/2010	GroundTruth_PM	572148	7040712	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestWhiteSpruce
10163921	05/10/2010	GroundTruth_PM	571862	7039989	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10163922	05/10/2010	GroundTruth_PM	571910	7040003	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestBlackSpruce
10163923	04/10/2010	GroundTruth_CO	570799	7040170	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10163924	05/10/2010	GroundTruth_PM	570956	7039694	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10163925	05/10/2010	GroundTruth_PM	571005	7039709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10163926	05/10/2010	GroundTruth_PM	571052	7039727	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163927	05/10/2010	GroundTruth_PM	571098	7039740	UTMZ7N_WGS84		Blue	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10163928	05/10/2010	GroundTruth_PM	571146	7039757	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163929	05/10/2010	GroundTruth_PM	571196	7039771	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10163930	05/10/2010	GroundTruth_PM	571241	7039788	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10163931	05/10/2010	GroundTruth_PM	571289	7039802	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10163932	05/10/2010	GroundTruth_PM	571341	7039818	UTMZ7N_WGS84		Blue	Sand	Moderate	C	70		Excellent	ForestBirch
10163933	05/10/2010	GroundTruth_PM	571384	7039833	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Excellent	ForestBirch
10163935	05/10/2010	GroundTruth_PM	571431	7039849	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestBirch
10163936	05/10/2010	GroundTruth_PM	571480	7039863	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBirch
10163937	05/10/2010	GroundTruth_PM	571527	7039880	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBirch
10163938	05/10/2010	GroundTruth_PM	571575	7039896	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10163939	05/10/2010	GroundTruth_PM	571623	7039912	UTMZ7N_WGS84			Sand	Moderate	C	60		Good	ForestBlackSpruce
10163940	05/10/2010	GroundTruth_PM	571671	7039925	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Good	ForestBlackSpruce
10163941	05/10/2010	GroundTruth_PM	571721	7039943	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10163942	05/10/2010	GroundTruth_PM	571765	7039957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10163943	05/10/2010	GroundTruth_PM	571812	7039972	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10163952	04/10/2010	GroundTruth_CO	571558	7040419	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10163953	04/10/2010	GroundTruth_CO	571607	7040435	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10163954	04/10/2010	GroundTruth_CO	571654	7040450	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestBlackSpruce
10163955	04/10/2010	GroundTruth_CO	571702	7040464	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Poor	ForestBlackSpruce
10163956	04/10/2010	GroundTruth_CO	571750	7040479	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100		Poor	ForestBlackSpruce
10163957	04/10/2010	GroundTruth_CO	571798	7040496	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10163958	04/10/2010	GroundTruth_CO	571846	7040510	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163959	04/10/2010	GroundTruth_CO	571892	7040525	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10163960	04/10/2010	GroundTruth_CO	571941	7040541	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164001	29/09/2010	GroundTruth_MF	576037	7040402	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164002	29/09/2010	GroundTruth_MF	576083	7040418	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10164003	29/09/2010	GroundTruth_MF	576131	7040433	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	30		Good	ForestBlackSpruce
10164004	29/09/2010	GroundTruth_MF	576176	7040449	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164005	29/09/2010	GroundTruth_MF	576221	7040463	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164006	29/09/2010	GroundTruth_MF	576271	7040479	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164007	29/09/2010	GroundTruth_MF	576321	7040495	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10164008	29/09/2010	GroundTruth_MF	576368	7040509	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10164009	29/09/2010	GroundTruth_MF	576416	7040524	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164010	29/09/2010	GroundTruth_MF	576463	7040541	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10164011	29/09/2010	GroundTruth_MF	576509	7040555	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	40	Frozen	Poor	ForestBlackSpruce
10164012	29/09/2010	GroundTruth_MF	576558	7040570	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10164013	29/09/2010	GroundTruth_MF	576605	7040586	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	50	Frozen	Poor	ForestBlackSpruce
10164014	29/09/2010	GroundTruth_MF	576651	7040600	UTMZ7N_WGS84		BrownDark		Moderate	A	40	Frozen	Poor	ForestBlackSpruce
10164015	29/09/2010	GroundTruth_MF	576703	7040617	UTMZ7N_WGS84		BrownDark		Moderate	A	40	Frozen	Poor	ForestBlackSpruce
10164016	29/09/2010	GroundTruth_MF	576748	7040632	UTMZ7N_WGS84		BrownDark		Steep	A	40	Frozen	Poor	ForestBlackSpruce
10164017	29/09/2010	GroundTruth_MF	576797	7040646	UTMZ7N_WGS84		Black	Sand	Steep	B	40	Wet	Good	ForestBlackSpruce
10164018	29/09/2010	GroundTruth_MF	576842	7040663	UTMZ7N_WGS84		BrownDark	Sand	Steep	B	40		Good	ForestBlackSpruce
10164019	29/09/2010	GroundTruth_MF	576891	7040676	UTMZ7N_WGS84		Black	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10164020	29/09/2010	GroundTruth_MF	576940	7040692	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164021	30/09/2010	GroundTruth_MF	577094	7040217	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestMixed
10164022	30/09/2010	GroundTruth_MF	577044	7040200	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestMixed
10164023	30/09/2010	GroundTruth_MF	576999	7040185	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestMixed
10164024	30/09/2010	GroundTruth_MF	576956	7040168	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestMixed
10164025	30/09/2010	GroundTruth_MF	576904	7040153	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestMixed
10164026	30/09/2010	GroundTruth_MF	576855	7040138	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestMixed
10164027	30/09/2010	GroundTruth_MF	576804	7040120	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestMixed
10164028	30/09/2010	GroundTruth_MF	576759	7040104	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164029	30/09/2010	GroundTruth_MF	576714	7040090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164030	30/09/2010	GroundTruth_MF	576665	7040075	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164031	30/09/2010	GroundTruth_MF	576618	7040058	UTMZ7N_WGS84		Black	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164032	30/09/2010	GroundTruth_MF	576571	7040043	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164033	30/09/2010	GroundTruth_MF	576524	7040027	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164034	30/09/2010	GroundTruth_MF	576478	7040013	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164035	30/09/2010	GroundTruth_MF	576426	7039996	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10164036	30/09/2010	GroundTruth_MF	576380	7039979	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10164038	30/09/2010	GroundTruth_MF	576335	7039966	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10164039	30/09/2010	GroundTruth_MF	576290	7039951	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164040	30/09/2010	GroundTruth_MF	576242	7039936	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164041	30/09/2010	GroundTruth_MF	576192	7039920	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164042	30/09/2010	GroundTruth_MF	576147	7039905	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164043	30/09/2010	GroundTruth_MF	576095	7039888	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164044	30/09/2010	GroundTruth_MF	576049	7039875	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	DrainageAlder
10164045	30/09/2010	GroundTruth_MF	576001	7039859	UTMZ7N_WGS84		BrownDark	Sand	Steep	B	60		Excellent	ForestWhiteSpruce
10164046	30/09/2010	GroundTruth_MF	575955	7039845	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	110		Excellent	ForestWhiteSpruce
10164047	30/09/2010	GroundTruth_MF	575907	7039828	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10164048	30/09/2010	GroundTruth_MF	575860	7039814	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50		Good	ForestWhiteSpruce
10164049	30/09/2010	GroundTruth_MF	575810	7039799	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Excellent	ForestWhiteSpruce
10164050	30/09/2010	GroundTruth_MF	575765	7039784	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Excellent	ForestWhiteSpruce
10164051	30/09/2010	GroundTruth_MF	575715	7039768	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10164052	30/09/2010	GroundTruth_MF	575667	7039752	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestWhiteSpruce
10164053	01/10/2010	GroundTruth_MF	575557	7039927	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Excellent	ForestWhiteSpruce
10164054	01/10/2010	GroundTruth_MF	575510	7039909	UTMZ7N_WGS84		BrownLight	Silt	Steep	B	40		Good	ForestWhiteSpruce
10164055	01/10/2010	GroundTruth_MF	575466	7039894	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50		Good	ForestWhiteSpruce
10164056	01/10/2010	GroundTruth_MF	575416	7039878	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10164057	01/10/2010	GroundTruth_MF	575367	7039862	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestWhiteSpruce
10164058	01/10/2010	GroundTruth_MF	575319	7039846	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10164059	01/10/2010	GroundTruth_MF	575272	7039832	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestWhiteSpruce
10164060	01/10/2010	GroundTruth_MF	575226	7039817	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce
10164061	01/10/2010	GroundTruth_MF	575175	7039800	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Good	ForestWhiteSpruce
10164062	01/10/2010	GroundTruth_MF	575130	7039785	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10164063	01/10/2010	GroundTruth_MF	575080	7039767	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBirch
10164064	01/10/2010	GroundTruth_MF	575034	7039754	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10164065	01/10/2010	GroundTruth_MF	574991	7039739	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164066	01/10/2010	GroundTruth_MF	574940	7039724	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10164067	01/10/2010	GroundTruth_MF	574895	7039710	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestWhiteSpruce
10164068	01/10/2010	GroundTruth_MF	574843	7039692	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestWhiteSpruce
10164069	01/10/2010	GroundTruth_MF	574799	7039678	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60		Good	ForestWhiteSpruce
10164070	01/10/2010	GroundTruth_MF	574754	7039663	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	50		Good	ForestWhiteSpruce
10164071	01/10/2010	GroundTruth_MF	574704	7039647	UTMZ7N_WGS84		BrownLight	Silt	Steep	C	70		Good	ForestWhiteSpruce
10164072	01/10/2010	GroundTruth_MF	574651	7039629	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10164073	01/10/2010	GroundTruth_MF	574609	7039615	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164074	01/10/2010	GroundTruth_MF	574563	7039601	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164075	01/10/2010	GroundTruth_MF	574513	7039585	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164076	01/10/2010	GroundTruth_MF	574468	7039571	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164077	01/10/2010	GroundTruth_MF	574420	7039556	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestWhiteSpruce
10164078	01/10/2010	GroundTruth_MF	574371	7039540	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Poor	DrainageBrush
10164079	01/10/2010	GroundTruth_MF	574323	7039525	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	60		Poor	ForestBlackSpruce
10164080	01/10/2010	GroundTruth_MF	574277	7039511	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	70	Frozen	Poor	ForestBlackSpruce
10164081	01/10/2010	GroundTruth_MF	574229	7039494	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10164082	01/10/2010	GroundTruth_MF	574182	7039480	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Wet	Good	ForestBlackSpruce
10164083	02/10/2010	GroundTruth_MF	575032	7041545	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164084	02/10/2010	GroundTruth_MF	574986	7041531	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164086	02/10/2010	GroundTruth_MF	574937	7041513	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164088	02/10/2010	GroundTruth_MF	574890	7041498	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164089	02/10/2010	GroundTruth_MF	574840	7041482	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164090	02/10/2010	GroundTruth_MF	574795	7041466	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164092	02/10/2010	GroundTruth_MF	574745	7041452	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10164093	02/10/2010	GroundTruth_MF	574700	7041435	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164095	02/10/2010	GroundTruth_MF	574651	7041419	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164096	02/10/2010	GroundTruth_MF	574602	7041401	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164097	02/10/2010	GroundTruth_MF	574558	7041386	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164098	02/10/2010	GroundTruth_MF	574511	7041372	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10164099	02/10/2010	GroundTruth_MF	574458	7041355	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10164100	02/10/2010	GroundTruth_MF	574412	7041339	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164101	02/10/2010	GroundTruth_MF	574371	7041325	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164102	02/10/2010	GroundTruth_MF	574325	7041311	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60	Frozen	Poor	ForestBlackSpruce
10164103	02/10/2010	GroundTruth_MF	574275	7041295	UTMZ7N_WGS84		BrownDark	Silt	Steep	A	70	Frozen	Poor	ForestBlackSpruce
10164104	02/10/2010	GroundTruth_MF	574225	7041280	UTMZ7N_WGS84		BrownDark	Silt	Steep	A	50	Frozen	Good	ForestBlackSpruce
10164105	02/10/2010	GroundTruth_MF	574178	7041264	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60	Frozen	Good	ForestBlackSpruce
10164106	02/10/2010	GroundTruth_MF	574131	7041250	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60	Frozen	Poor	ForestBlackSpruce
10164107	02/10/2010	GroundTruth_MF	574083	7041234	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50	Wet	Good	ForestBlackSpruce
10164108	02/10/2010	GroundTruth_MF	574035	7041219	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10164109	02/10/2010	GroundTruth_MF	573988	7041204	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10164110	02/10/2010	GroundTruth_MF	573940	7041188	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10164111	02/10/2010	GroundTruth_MF	573890	7041171	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestBlackSpruce
10164112	02/10/2010	GroundTruth_MF	573844	7041158	UTMZ7N_WGS84		Orange	Silt	Moderate	B	60		Good	ForestBlackSpruce
10164113	02/10/2010	GroundTruth_MF	573798	7041142	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10164114	02/10/2010	GroundTruth_MF	573751	7041127	UTMZ7N_WGS84		BrownLight	Silt	Moderate	B	70		Good	ForestBlackSpruce
10164115	02/10/2010	GroundTruth_MF	573701	7041112	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Wet	Good	ForestBlackSpruce
10164116	02/10/2010	GroundTruth_MF	573654	7041096	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164120	03/10/2010	GroundTruth_MF	574940	7041830	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestAspen
10164121	03/10/2010	GroundTruth_MF	574893	7041814	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10164122	03/10/2010	GroundTruth_MF	574842	7041798	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164123	03/10/2010	GroundTruth_MF	574747	7041766	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164124	03/10/2010	GroundTruth_MF	574704	7041753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164125	03/10/2010	GroundTruth_MF	574657	7041737	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10164126	03/10/2010	GroundTruth_MF	574606	7041721	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164127	03/10/2010	GroundTruth_MF	574558	7041704	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164128	03/10/2010	GroundTruth_MF	574508	7041688	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164129	03/10/2010	GroundTruth_MF	574467	7041675	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164130	03/10/2010	GroundTruth_MF	574417	7041657	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164131	03/10/2010	GroundTruth_MF	574367	7041641	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10164132	03/10/2010	GroundTruth_MF	574320	7041625	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10164133	03/10/2010	GroundTruth_MF	574275	7041609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164134	03/10/2010	GroundTruth_MF	574226	7041595	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164135	03/10/2010	GroundTruth_MF	574178	7041578	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestWhiteSpruce
10164136	03/10/2010	GroundTruth_MF	574134	7041564	UTMZ7N_WGS84		BrownLight	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10164137	03/10/2010	GroundTruth_MF	574087	7041548	UTMZ7N_WGS84		BrownDark	Silt	Steep	A	40	Frozen	Poor	ForestBlackSpruce
10164138	03/10/2010	GroundTruth_MF	574037	7041532	UTMZ7N_WGS84		BrownDark	Silt	Steep	A	40	Frozen	Poor	ForestBlackSpruce
10164139	03/10/2010	GroundTruth_MF	573990	7041519	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestBlackSpruce
10164140	03/10/2010	GroundTruth_MF	573943	7041503	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestBlackSpruce
10164141	03/10/2010	GroundTruth_MF	573896	7041489	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50	Wet	Good	ForestBlackSpruce
10164142	03/10/2010	GroundTruth_MF	573845	7041472	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Frozen	Good	ForestBlackSpruce
10164143	03/10/2010	GroundTruth_MF	573798	7041458	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10164144	03/10/2010	GroundTruth_MF	573752	7041442	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10164145	03/10/2010	GroundTruth_MF	573703	7041425	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164146	03/10/2010	GroundTruth_MF	573655	7041410	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164149	03/10/2010	GroundTruth_MF	573610	7041397	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164151	01/10/2010	GroundTruth_DL	574506	7040423	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164152	01/10/2010	GroundTruth_DL	574455	7040411	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164153	01/10/2010	GroundTruth_DL	574407	7040393	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164154	01/10/2010	GroundTruth_DL	574359	7040378	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164155	01/10/2010	GroundTruth_DL	574311	7040361	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10164156	01/10/2010	GroundTruth_DL	574265	7040350	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10164157	01/10/2010	GroundTruth_DL	574218	7040333	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30	Wet	Poor	ForestBlackSpruce
10164158	01/10/2010	GroundTruth_DL	574171	7040316	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10164159	01/10/2010	GroundTruth_DL	574124	7040302	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164160	01/10/2010	GroundTruth_DL	574073	7040287	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164162	01/10/2010	GroundTruth_DL	574026	7040270	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164163	01/10/2010	GroundTruth_DL	573980	7040257	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10164164	01/10/2010	GroundTruth_DL	573931	7040241	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164165	02/10/2010	GroundTruth_DL	575280	7040785	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164166	02/10/2010	GroundTruth_DL	575232	7040768	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10164167	02/10/2010	GroundTruth_DL	575184	7040753	UTMZ7N_WGS84		Black	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10164168	02/10/2010	GroundTruth_DL	575136	7040736	UTMZ7N_WGS84		Black	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10164169	02/10/2010	GroundTruth_DL	575089	7040723	UTMZ7N_WGS84		Black	Sand	Moderate	C	80	Frozen	Good	ForestBlackSpruce
10164170	02/10/2010	GroundTruth_DL	575041	7040707	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10164171	02/10/2010	GroundTruth_DL	574995	7040690	UTMZ7N_WGS84		Black	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10164172	02/10/2010	GroundTruth_DL	574947	7040675	UTMZ7N_WGS84		Black	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10164173	02/10/2010	GroundTruth_DL	574898	7040660	UTMZ7N_WGS84		Black	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10164174	02/10/2010	GroundTruth_DL	574851	7040644	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164175	02/10/2010	GroundTruth_DL	574803	7040628	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164176	02/10/2010	GroundTruth_DL	574758	7040609	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164177	02/10/2010	GroundTruth_DL	574711	7040596	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164178	02/10/2010	GroundTruth_DL	574662	7040583	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10164179	02/10/2010	GroundTruth_DL	574616	7040564	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164180	02/10/2010	GroundTruth_DL	574569	7040550	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164181	02/10/2010	GroundTruth_DL	574517	7040534	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164182	02/10/2010	GroundTruth_DL	574472	7040521	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164183	02/10/2010	GroundTruth_DL	574427	7040502	UTMZ7N_WGS84		Orange	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164184	02/10/2010	GroundTruth_DL	574378	7040490	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164185	02/10/2010	GroundTruth_DL	574331	7040474	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce
10164186	02/10/2010	GroundTruth_DL	574282	7040460	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70	Frozen	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation	
10164187	02/10/2010	GroundTruth_DL	574235	7040443	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50	Good	ForestBlackSpruce	
10164188	02/10/2010	GroundTruth_DL	574187	7040429	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40	Wet	Good	ForestBlackSpruce
10164189	02/10/2010	GroundTruth_DL	574141	7040412	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C		50	Wet	Good	ForestBlackSpruce
10164190	02/10/2010	GroundTruth_DL	574091	7040398	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C		40	Wet	Poor	ForestBlackSpruce
10164191	02/10/2010	GroundTruth_DL	574045	7040382	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C		30	Frozen	Poor	ForestBlackSpruce
10164192	02/10/2010	GroundTruth_DL	573997	7040364	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40		Good	ForestBlackSpruce
10164193	02/10/2010	GroundTruth_DL	573947	7040351	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40	Wet	Good	ForestBlackSpruce
10164194	02/10/2010	GroundTruth_DL	573904	7040336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40		Excellent	ForestBlackSpruce
10164195	03/10/2010	GroundTruth_DL	573575	7041177	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164196	03/10/2010	GroundTruth_DL	573529	7041161	UTMZ7N_WGS84		Grey	Sand	Moderate	C		70		Good	ForestWhiteSpruce
10164197	03/10/2010	GroundTruth_DL	573480	7041145	UTMZ7N_WGS84		Grey	Sand	Moderate	C		60		Good	ForestWhiteSpruce
10164198	03/10/2010	GroundTruth_DL	573431	7041130	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Excellent	ForestWhiteSpruce
10164199	03/10/2010	GroundTruth_DL	573381	7041114	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Excellent	ForestWhiteSpruce
10164200	03/10/2010	GroundTruth_DL	573338	7041098	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Excellent	ForestWhiteSpruce
10164201	03/10/2010	GroundTruth_DL	573288	7041081	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Good	ForestWhiteSpruce
10164202	03/10/2010	GroundTruth_DL	573241	7041070	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164204	03/10/2010	GroundTruth_DL	573192	7041048	UTMZ7N_WGS84		Orange	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164205	03/10/2010	GroundTruth_DL	573143	7041038	UTMZ7N_WGS84		Orange	Sand	Moderate	C		70		Excellent	ForestWhiteSpruce
10164206	03/10/2010	GroundTruth_DL	573100	7041019	UTMZ7N_WGS84		Orange	Sand	Moderate	C		90		Excellent	ForestWhiteSpruce
10164207	03/10/2010	GroundTruth_DL	573054	7041001	UTMZ7N_WGS84		Orange	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164208	03/10/2010	GroundTruth_DL	573008	7040989	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestWhiteSpruce
10164209	03/10/2010	GroundTruth_DL	572961	7040972	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50	Wet	Good	ForestWhiteSpruce
10164210	03/10/2010	GroundTruth_DL	572913	7040956	UTMZ7N_WGS84		Orange	Sand	Moderate	C		100		Excellent	ForestWhiteSpruce
10164211	03/10/2010	GroundTruth_DL	572865	7040944	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C		30		Good	ForestWhiteSpruce
10164212	03/10/2010	GroundTruth_DL	572816	7040927	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164213	03/10/2010	GroundTruth_DL	572768	7040913	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C		80		Excellent	ForestWhiteSpruce
10164214	03/10/2010	GroundTruth_DL	572720	7040898	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestWhiteSpruce
10164215	03/10/2010	GroundTruth_DL	572673	7040880	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40		Good	ForestWhiteSpruce
10164216	03/10/2010	GroundTruth_DL	572626	7040866	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		40		Good	ForestWhiteSpruce
10164217	03/10/2010	GroundTruth_DL	572577	7040849	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C		50		Excellent	ForestWhiteSpruce
10164218	03/10/2010	GroundTruth_DL	572530	7040831	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C		30		Excellent	ForestWhiteSpruce
10164219	03/10/2010	GroundTruth_DL	572484	7040818	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		70	Wet	Good	ForestWhiteSpruce
10164220	03/10/2010	GroundTruth_DL	572434	7040806	UTMZ7N_WGS84		Black	Sand	Moderate	C		60	Wet	Poor	ForestBlackSpruce
10164221	03/10/2010	GroundTruth_DL	572387	7040790	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestBlackSpruce
10164222	03/10/2010	GroundTruth_DL	572340	7040775	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Excellent	ForestBlackSpruce
10164223	03/10/2010	GroundTruth_DL	572293	7040758	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C		50		Good	ForestBlackSpruce
10164224	03/10/2010	GroundTruth_DL	572242	7040746	UTMZ7N_WGS84		BrownDark	Sand	Steep	C		70		Good	ForestBlackSpruce
10164225	03/10/2010	GroundTruth_DL	572197	7040728	UTMZ7N_WGS84		BrownDark	Sand	Steep	C		50	Wet	Poor	ForestBlackSpruce
10164226	05/10/2010	GroundTruth_DL	570863	7039982	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Good	ForestBlackSpruce
10164227	05/10/2010	GroundTruth_DL	570910	7039995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Good	ForestBlackSpruce
10164228	05/10/2010	GroundTruth_DL	570957	7040015	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		70		Good	ForestBlackSpruce
10164229	05/10/2010	GroundTruth_DL	571007	7040028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestBlackSpruce
10164230	05/10/2010	GroundTruth_DL	571052	7040043	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Good	ForestBlackSpruce
10164231	05/10/2010	GroundTruth_DL	571099	7040059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Good	ForestBlackSpruce
10164232	05/10/2010	GroundTruth_DL	571148	7040076	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Good	ForestBlackSpruce
10164233	05/10/2010	GroundTruth_DL	571197	7040090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		70		Good	ForestBlackSpruce
10164234	05/10/2010	GroundTruth_DL	571243	7040107	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		90		Good	ForestBlackSpruce
10164235	05/10/2010	GroundTruth_DL	571290	7040120	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		80		Good	ForestBlackSpruce
10164236	05/10/2010	GroundTruth_DL	571338	7040140	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Good	ForestBlackSpruce
10164237	05/10/2010	GroundTruth_DL	571386	7040152	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestBlackSpruce
10164247	29/09/2010	GroundTruth_CO	575450	7040417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Excellent	ForestBlackSpruce
10164248	29/09/2010	GroundTruth_CO	575501	7040432	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		60		Excellent	ForestBlackSpruce
10164249	29/09/2010	GroundTruth_CO	575548	7040449	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C		60		Excellent	ForestBlackSpruce
10164250	29/09/2010	GroundTruth_CO	575596	7040464	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C		50		Excellent	ForestBlackSpruce
10164251	29/09/2010	GroundTruth_CO	575646	7040480	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C		50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164252	29/09/2010	GroundTruth_CO	575691	7040495	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164253	29/09/2010	GroundTruth_CO	575740	7040511	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164254	29/09/2010	GroundTruth_CO	575787	7040527	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164255	29/09/2010	GroundTruth_CO	575835	7040542	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164256	29/09/2010	GroundTruth_CO	575882	7040557	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164257	29/09/2010	GroundTruth_CO	575930	7040573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestPine
10164258	29/09/2010	GroundTruth_CO	575978	7040588	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164259	29/09/2010	GroundTruth_CO	576026	7040606	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164260	29/09/2010	GroundTruth_CO	576074	7040621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164261	29/09/2010	GroundTruth_CO	576120	7040635	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164262	29/09/2010	GroundTruth_CO	576162	7040652	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164263	29/09/2010	GroundTruth_CO	576211	7040665	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164264	29/09/2010	GroundTruth_CO	576257	7040680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10164265	29/09/2010	GroundTruth_CO	576307	7040697	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164266	29/09/2010	GroundTruth_CO	576353	7040712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Poor	ForestBlackSpruce
10164267	29/09/2010	GroundTruth_CO	576401	7040726	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164268	29/09/2010	GroundTruth_CO	576449	7040744	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164269	29/09/2010	GroundTruth_CO	576496	7040759	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164270	29/09/2010	GroundTruth_CO	576544	7040773	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164271	29/09/2010	GroundTruth_CO	576592	7040788	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164272	29/09/2010	GroundTruth_CO	576639	7040804	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10164273	29/09/2010	GroundTruth_CO	576686	7040821	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164274	29/09/2010	GroundTruth_CO	576736	7040835	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164275	29/09/2010	GroundTruth_CO	576782	7040851	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164276	29/09/2010	GroundTruth_CO	576831	7040866	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164277	29/09/2010	GroundTruth_CO	576879	7040882	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	SubAlpineFir
10164279	07/10/2010	GroundTruth_CO	573380	7040478	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164280	07/10/2010	GroundTruth_CO	573331	7040461	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164281	29/09/2010	GroundTruth_DM	576056	7040824	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164282	29/09/2010	GroundTruth_DM	576104	7040840	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10164283	29/09/2010	GroundTruth_DM	576148	7040854	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10164284	29/09/2010	GroundTruth_DM	576196	7040870	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10164285	29/09/2010	GroundTruth_DM	576244	7040886	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10164286	29/09/2010	GroundTruth_DM	576293	7040902	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10164287	29/09/2010	GroundTruth_DM	576339	7040917	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Poor	ForestBlackSpruce
10164288	29/09/2010	GroundTruth_DM	576387	7040932	UTMZ7N_WGS84		Black	Silt	Moderate	B	40		Poor	ForestBlackSpruce
10164289	29/09/2010	GroundTruth_DM	576435	7040948	UTMZ7N_WGS84		Black	Sand	Moderate	C	40	Wet	Poor	ForestBlackSpruce
10164290	29/09/2010	GroundTruth_DM	576481	7040965	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10164291	29/09/2010	GroundTruth_DM	576626	7041010	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBirch
10164292	29/09/2010	GroundTruth_DM	576673	7041026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBirch
10164293	29/09/2010	GroundTruth_DM	576720	7041040	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	BurnOld
10164295	29/09/2010	GroundTruth_DM	576770	7041057	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	BurnOld
10164296	29/09/2010	GroundTruth_DM	576816	7041072	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	BurnOld
10164297	30/09/2010	GroundTruth_DM	577125	7040121	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	BurnOld
10164298	30/09/2010	GroundTruth_DM	577077	7040106	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	BurnOld
10164299	30/09/2010	GroundTruth_DM	577028	7040090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	BurnOld
10164300	30/09/2010	GroundTruth_DM	576980	7040074	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164301	30/09/2010	GroundTruth_DM	576934	7040059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164302	30/09/2010	GroundTruth_DM	576887	7040044	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164303	30/09/2010	GroundTruth_DM	576837	7040027	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164304	30/09/2010	GroundTruth_DM	576789	7040011	UTMZ7N_WGS84		Black	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164305	30/09/2010	GroundTruth_DM	576743	7039997	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10164306	30/09/2010	GroundTruth_DM	576696	7039981	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164307	30/09/2010	GroundTruth_DM	576648	7039965	UTMZ7N_WGS84		Black	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164308	30/09/2010	GroundTruth_DM	576601	7039950	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164309	30/09/2010	GroundTruth_DM	576551	7039935	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164310	30/09/2010	GroundTruth_DM	576505	7039919	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10164311	30/09/2010	GroundTruth_DM	576458	7039904	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164312	30/09/2010	GroundTruth_DM	576410	7039888	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164313	30/09/2010	GroundTruth_DM	576368	7039874	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164314	29/09/2010	GroundTruth_PM	575482	7040324	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164315	29/09/2010	GroundTruth_PM	575530	7040338	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164316	29/09/2010	GroundTruth_PM	575578	7040354	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164318	29/09/2010	GroundTruth_PM	575625	7040370	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164319	29/09/2010	GroundTruth_PM	575672	7040385	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164320	29/09/2010	GroundTruth_PM	575720	7040400	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164321	29/09/2010	GroundTruth_PM	575768	7040417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164322	29/09/2010	GroundTruth_PM	575815	7040432	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164323	29/09/2010	GroundTruth_PM	575863	7040449	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10164324	29/09/2010	GroundTruth_PM	575913	7040462	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBirch
10164325	29/09/2010	GroundTruth_PM	575960	7040478	UTMZ7N_WGS84		Black	Sand	Flat	C	70		Excellent	ForestBlackSpruce
10164326	29/09/2010	GroundTruth_PM	576007	7040493	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Good	ForestBlackSpruce
10164327	29/09/2010	GroundTruth_PM	576055	7040508	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164328	29/09/2010	GroundTruth_PM	576101	7040523	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164329	29/09/2010	GroundTruth_PM	576148	7040540	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164330	29/09/2010	GroundTruth_PM	576196	7040556	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164331	29/09/2010	GroundTruth_PM	576244	7040570	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10164332	29/09/2010	GroundTruth_PM	576293	7040585	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10164333	29/09/2010	GroundTruth_PM	576340	7040600	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10164334	29/09/2010	GroundTruth_PM	576388	7040616	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10164335	29/09/2010	GroundTruth_PM	576433	7040632	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10164336	29/09/2010	GroundTruth_PM	576480	7040649	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce
10164337	29/09/2010	GroundTruth_PM	576526	7040663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164338	29/09/2010	GroundTruth_PM	576575	7040676	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Frozen	Poor	ForestBlackSpruce
10164339	29/09/2010	GroundTruth_PM	576622	7040692	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Poor	ForestBlackSpruce
10164340	29/09/2010	GroundTruth_PM	576670	7040708	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10164341	29/09/2010	GroundTruth_PM	576724	7040718	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70	Frozen	Poor	ForestBlackSpruce
10164342	29/09/2010	GroundTruth_PM	576763	7040740	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Frozen	Good	ForestBlackSpruce
10164343	29/09/2010	GroundTruth_PM	576812	7040756	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164345	29/09/2010	GroundTruth_PM	576908	7040786	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	BurnOld
10164346	01/10/2010	GroundTruth_PM	575530	7040022	UTMZ7N_WGS84		Black	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10164348	04/10/2010	GroundTruth_DM	572211	7040522	UTMZ7N_WGS84		Black	Sand	Flat	C	100	Wet	Poor	ForestBlackSpruce
10164350	07/10/2010	GroundTruth_DM	573730	7040700	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164351	07/10/2010	GroundTruth_DM	573680	7040683	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164352	07/10/2010	GroundTruth_DM	573634	7040667	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10164353	07/10/2010	GroundTruth_DM	573586	7040652	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164354	07/10/2010	GroundTruth_DM	573541	7040637	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10164355	07/10/2010	GroundTruth_DM	573490	7040621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164356	07/10/2010	GroundTruth_DM	573444	7040606	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164357	07/10/2010	GroundTruth_DM	573397	7040591	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164358	07/10/2010	GroundTruth_DM	573349	7040575	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10164359	07/10/2010	GroundTruth_DM	573300	7040559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164360	07/10/2010	GroundTruth_DM	573254	7040545	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestWhiteSpruce
10164361	07/10/2010	GroundTruth_DM	573205	7040529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164362	07/10/2010	GroundTruth_DM	573158	7040513	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164363	07/10/2010	GroundTruth_DM	573110	7040498	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164364	07/10/2010	GroundTruth_DM	573062	7040482	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Excellent	ForestBlackSpruce
10164365	07/10/2010	GroundTruth_DM	573019	7040469	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10164366	07/10/2010	GroundTruth_DM	572971	7040453	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164367	07/10/2010	GroundTruth_DM	572922	7040438	UTMZ7N_WGS84		Grey	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164368	07/10/2010	GroundTruth_DM	572874	7040421	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10164369	07/10/2010	GroundTruth_DM	572827	7040407	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestAspen
10164370	07/10/2010	GroundTruth_DM	572781	7040392	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164371	07/10/2010	GroundTruth_DM	572732	7040376	UTMZ7N_WGS84		Black	Sand	Flat	C	80	Frozen	Poor	ForestBlackSpruce
10164372	07/10/2010	GroundTruth_DM	572685	7040360	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	110	Wet	Poor	ForestBlackSpruce
10164373	07/10/2010	GroundTruth_DM	572638	7040344	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Good	ForestBlackSpruce
10164374	07/10/2010	GroundTruth_DM	572592	7040329	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	110		Good	ForestBlackSpruce
10164375	07/10/2010	GroundTruth_DM	572543	7040314	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	70		Good	ForestBlackSpruce
10164376	07/10/2010	GroundTruth_DM	572495	7040299	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	60		Good	ForestWhiteSpruce
10164377	07/10/2010	GroundTruth_DM	572447	7040283	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Good	ForestWhiteSpruce
10164379	07/10/2010	GroundTruth_DM	572400	7040269	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	70		Good	ForestWhiteSpruce
10164382	04/10/2010	GroundTruth_PM	570769	7040264	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBirch
10164383	04/10/2010	GroundTruth_PM	570820	7040279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164384	04/10/2010	GroundTruth_PM	570865	7040296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164385	04/10/2010	GroundTruth_PM	570915	7040310	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestBirch
10164386	04/10/2010	GroundTruth_PM	570961	7040327	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBirch
10164387	04/10/2010	GroundTruth_PM	571010	7040342	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10164388	04/10/2010	GroundTruth_PM	571057	7040357	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164389	04/10/2010	GroundTruth_PM	571105	7040374	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164390	04/10/2010	GroundTruth_PM	571151	7040388	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164397	01/10/2010	GroundTruth_TW	575104	7040515	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164398	01/10/2010	GroundTruth_TW	575056	7040500	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164399	01/10/2010	GroundTruth_TW	575010	7040482	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164400	01/10/2010	GroundTruth_TW	574962	7040468	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164401	01/10/2010	GroundTruth_TW	574916	7040452	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10164402	01/10/2010	GroundTruth_TW	574869	7040438	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	100		Excellent	ForestBlackSpruce
10164403	01/10/2010	GroundTruth_TW	574823	7040420	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100		Excellent	ForestBlackSpruce
10164404	01/10/2010	GroundTruth_TW	574774	7040406	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10164405	01/10/2010	GroundTruth_TW	574726	7040390	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
10164406	01/10/2010	GroundTruth_TW	574678	7040376	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestBlackSpruce
10164407	01/10/2010	GroundTruth_TW	574631	7040359	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10164409	01/10/2010	GroundTruth_TW	574584	7040344	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164410	01/10/2010	GroundTruth_TW	574535	7040329	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164411	01/10/2010	GroundTruth_TW	574487	7040315	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164412	01/10/2010	GroundTruth_TW	574439	7040299	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164413	01/10/2010	GroundTruth_TW	574394	7040283	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164414	01/10/2010	GroundTruth_TW	574345	7040269	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164415	01/10/2010	GroundTruth_TW	574297	7040254	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164416	01/10/2010	GroundTruth_TW	574250	7040238	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	DrainageBrush
10164417	01/10/2010	GroundTruth_TW	574200	7040222	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164418	01/10/2010	GroundTruth_TW	574154	7040207	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164419	01/10/2010	GroundTruth_TW	574106	7040190	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164421	01/10/2010	GroundTruth_TW	574059	7040174	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164422	01/10/2010	GroundTruth_TW	574011	7040160	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164424	01/10/2010	GroundTruth_TW	573961	7040146	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Good	ForestBlackSpruce
10164425	02/10/2010	GroundTruth_TW	575187	7041067	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10164426	02/10/2010	GroundTruth_TW	575138	7041053	UTMZ7N_WGS84		Black	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164427	02/10/2010	GroundTruth_TW	575092	7041035	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164428	02/10/2010	GroundTruth_TW	575045	7041020	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164429	02/10/2010	GroundTruth_TW	574997	7041004	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164430	02/10/2010	GroundTruth_TW	574949	7040988	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164431	02/10/2010	GroundTruth_TW	574900	7040973	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164432	02/10/2010	GroundTruth_TW	574854	7040958	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10164433	02/10/2010	GroundTruth_TW	574805	7040942	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10164434	02/10/2010	GroundTruth_TW	574758	7040926	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Wet	Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164435	02/10/2010	GroundTruth_TW	574710	7040910	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10164436	02/10/2010	GroundTruth_TW	574663	7040895	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50	Wet	Poor	ForestBlackSpruce
10164437	02/10/2010	GroundTruth_TW	574616	7040879	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164438	02/10/2010	GroundTruth_TW	574567	7040863	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10164439	02/10/2010	GroundTruth_TW	574522	7040848	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Poor	ForestBlackSpruce
10164440	02/10/2010	GroundTruth_TW	574477	7040831	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164441	02/10/2010	GroundTruth_TW	574429	7040817	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164442	02/10/2010	GroundTruth_TW	574381	7040802	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164443	02/10/2010	GroundTruth_TW	574333	7040787	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164444	02/10/2010	GroundTruth_TW	574285	7040773	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10164445	02/10/2010	GroundTruth_TW	574237	7040757	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164446	02/10/2010	GroundTruth_TW	574190	7040742	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Excellent	ForestBlackSpruce
10164447	02/10/2010	GroundTruth_TW	574141	7040725	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Excellent	ForestBlackSpruce
10164448	02/10/2010	GroundTruth_TW	574094	7040711	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestBlackSpruce
10164450	02/10/2010	GroundTruth_TW	574045	7040694	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164451	02/10/2010	GroundTruth_TW	573998	7040680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164452	02/10/2010	GroundTruth_TW	573950	7040669	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164453	02/10/2010	GroundTruth_TW	573808	7040618	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164454	02/10/2010	GroundTruth_TW	573858	7040637	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164455	02/10/2010	GroundTruth_TW	573904	7040654	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164456	03/10/2010	GroundTruth_TW	570741	7040359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Excellent	ForestBlackSpruce
10164457	03/10/2010	GroundTruth_TW	570784	7040378	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164458	03/10/2010	GroundTruth_TW	570834	7040395	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164459	03/10/2010	GroundTruth_TW	570880	7040411	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164460	03/10/2010	GroundTruth_TW	570928	7040425	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164461	03/10/2010	GroundTruth_TW	570976	7040439	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10164462	03/10/2010	GroundTruth_TW	571024	7040452	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10164463	03/10/2010	GroundTruth_TW	571072	7040469	UTMZ7N_WGS84			Sand	Moderate	C	60		Excellent	ForestAspen
10164464	03/10/2010	GroundTruth_TW	571119	7040488	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10164465	03/10/2010	GroundTruth_TW	571168	7040502	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10164466	03/10/2010	GroundTruth_TW	571214	7040517	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10164467	03/10/2010	GroundTruth_TW	571262	7040531	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164468	03/10/2010	GroundTruth_TW	571309	7040548	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164469	03/10/2010	GroundTruth_TW	571357	7040563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164470	03/10/2010	GroundTruth_TW	571404	7040579	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164471	03/10/2010	GroundTruth_TW	571452	7040594	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164472	03/10/2010	GroundTruth_TW	571495	7040611	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBirch
10164473	03/10/2010	GroundTruth_TW	571543	7040625	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164474	03/10/2010	GroundTruth_TW	571592	7040640	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBirch
10164475	03/10/2010	GroundTruth_TW	571641	7040655	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164476	03/10/2010	GroundTruth_TW	571688	7040671	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Excellent	ForestWhiteSpruce
10164477	03/10/2010	GroundTruth_TW	571735	7040687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBirch
10164478	03/10/2010	GroundTruth_TW	571785	7040703	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10164479	03/10/2010	GroundTruth_TW	571832	7040718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164480	03/10/2010	GroundTruth_TW	571877	7040732	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164481	03/10/2010	GroundTruth_TW	571926	7040748	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164482	03/10/2010	GroundTruth_TW	571974	7040763	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164483	03/10/2010	GroundTruth_TW	572023	7040777	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164485	03/10/2010	GroundTruth_TW	572070	7040791	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164486	03/10/2010	GroundTruth_TW	572116	7040806	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164487	03/10/2010	GroundTruth_TW	572166	7040822	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	60	Wet	Poor	ForestBlackSpruce
10164488	10/10/2010	GroundTruth_TW	572901	7039696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164489	10/10/2010	GroundTruth_TW	572853	7039679	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164490	10/10/2010	GroundTruth_TW	572806	7039663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164492	10/10/2010	GroundTruth_TW	572757	7039649	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164493	10/10/2010	GroundTruth_TW	572710	7039633	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164494	10/10/2010	GroundTruth_TW	572663	7039618	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164495	10/10/2010	GroundTruth_TW	572615	7039602	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	100	Wet	Poor	ForestWhiteSpruce
10164496	10/10/2010	GroundTruth_TW	572565	7039588	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90		Good	ForestWhiteSpruce
10164497	11/10/2010	GroundTruth_TW	571143	7039125	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164498	11/10/2010	GroundTruth_TW	571190	7039139	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164499	11/10/2010	GroundTruth_TW	571234	7039156	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164500	11/10/2010	GroundTruth_TW	571282	7039172	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164501	30/09/2010	GroundTruth_CO	577032	7040406	UTMZ7N_WGS84		Green	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164502	30/09/2010	GroundTruth_CO	576984	7040391	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164503	30/09/2010	GroundTruth_CO	576937	7040375	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164504	30/09/2010	GroundTruth_CO	576889	7040359	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164505	30/09/2010	GroundTruth_CO	576842	7040342	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164506	30/09/2010	GroundTruth_CO	576794	7040328	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164507	30/09/2010	GroundTruth_CO	576746	7040312	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Poor	ForestBlackSpruce
10164508	30/09/2010	GroundTruth_CO	576698	7040296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164509	30/09/2010	GroundTruth_CO	576650	7040279	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164510	30/09/2010	GroundTruth_CO	576604	7040264	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164511	30/09/2010	GroundTruth_CO	576556	7040247	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164512	30/09/2010	GroundTruth_CO	576507	7040232	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164513	30/09/2010	GroundTruth_CO	576460	7040217	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164514	30/09/2010	GroundTruth_CO	576412	7040200	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164515	30/09/2010	GroundTruth_CO	576366	7040184	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164516	30/09/2010	GroundTruth_CO	576318	7040170	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164517	30/09/2010	GroundTruth_CO	576271	7040154	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164518	30/09/2010	GroundTruth_CO	576222	7040138	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164520	30/09/2010	GroundTruth_CO	576175	7040122	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164521	30/09/2010	GroundTruth_CO	576127	7040108	UTMZ7N_WGS84		Blue	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164522	30/09/2010	GroundTruth_CO	576083	7040095	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164523	30/09/2010	GroundTruth_CO	576035	7040080	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164524	30/09/2010	GroundTruth_CO	575986	7040065	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164525	30/09/2010	GroundTruth_CO	575939	7040049	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164526	30/09/2010	GroundTruth_CO	575891	7040033	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164527	30/09/2010	GroundTruth_CO	575845	7040020	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164528	30/09/2010	GroundTruth_CO	575796	7040005	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164530	30/09/2010	GroundTruth_CO	575740	7039989	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164531	30/09/2010	GroundTruth_CO	575702	7039973	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164532	30/09/2010	GroundTruth_CO	575652	7039958	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164533	30/09/2010	GroundTruth_CO	575605	7039943	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164534	30/09/2010	GroundTruth_PM	577063	7040311	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestMixed
10164535	30/09/2010	GroundTruth_PM	577017	7040296	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestMixed
10164536	30/09/2010	GroundTruth_PM	576969	7040281	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestMixed
10164537	30/09/2010	GroundTruth_PM	576922	7040265	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestMixed
10164538	30/09/2010	GroundTruth_PM	576874	7040250	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestMixed
10164539	30/09/2010	GroundTruth_PM	576826	7040233	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestMixed
10164540	30/09/2010	GroundTruth_PM	576779	7040217	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164541	30/09/2010	GroundTruth_PM	576730	7040203	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164542	30/09/2010	GroundTruth_PM	576684	7040187	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164543	30/09/2010	GroundTruth_PM	576635	7040170	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164544	30/09/2010	GroundTruth_PM	576589	7040155	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164546	30/09/2010	GroundTruth_PM	576538	7040140	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestAspen
10164547	30/09/2010	GroundTruth_PM	576493	7040126	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164548	30/09/2010	GroundTruth_PM	576445	7040109	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164549	30/09/2010	GroundTruth_PM	576397	7040094	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164550	30/09/2010	GroundTruth_PM	576351	7040079	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164551	30/09/2010	GroundTruth_PM	576302	7040065	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164552	30/09/2010	GroundTruth_PM	576254	7040047	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164554	30/09/2010	GroundTruth_PM	576205	7040031	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164555	30/09/2010	GroundTruth_PM	576159	7040017	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10164556	30/09/2010	GroundTruth_PM	576112	7040001	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10164557	30/09/2010	GroundTruth_PM	576066	7039987	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164558	30/09/2010	GroundTruth_PM	576019	7039973	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164559	30/09/2010	GroundTruth_PM	575971	7039958	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164560	30/09/2010	GroundTruth_PM	575920	7039941	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164561	30/09/2010	GroundTruth_PM	575876	7039926	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164562	30/09/2010	GroundTruth_PM	575828	7039910	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164563	30/09/2010	GroundTruth_PM	575780	7039894	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164564	30/09/2010	GroundTruth_PM	575733	7039880	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164565	30/09/2010	GroundTruth_PM	575685	7039864	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164566	30/09/2010	GroundTruth_PM	575635	7039847	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164567	30/09/2010	GroundTruth_DM	576318	7039858	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10164568	30/09/2010	GroundTruth_DM	576271	7039843	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164569	30/09/2010	GroundTruth_DM	576225	7039829	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164570	30/09/2010	GroundTruth_DM	576177	7039812	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164571	30/09/2010	GroundTruth_DM	576129	7039798	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164572	30/09/2010	GroundTruth_DM	576081	7039782	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164573	30/09/2010	GroundTruth_DM	576035	7039767	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164574	30/09/2010	GroundTruth_DM	575985	7039750	UTMZ7N_WGS84		Black	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164575	30/09/2010	GroundTruth_DM	575938	7039736	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Good	ForestWhiteSpruce
10164576	01/10/2010	GroundTruth_DM	575467	7040211	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164577	01/10/2010	GroundTruth_DM	575419	7040196	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164578	01/10/2010	GroundTruth_DM	575371	7040181	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164579	01/10/2010	GroundTruth_DM	575323	7040165	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164580	01/10/2010	GroundTruth_DM	575275	7040149	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164581	01/10/2010	GroundTruth_DM	575229	7040134	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164582	01/10/2010	GroundTruth_DM	575182	7040118	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164583	01/10/2010	GroundTruth_DM	575134	7040103	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164584	01/10/2010	GroundTruth_DM	575086	7040088	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164585	01/10/2010	GroundTruth_DM	575038	7040073	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164586	01/10/2010	GroundTruth_DM	574990	7040056	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10164587	01/10/2010	GroundTruth_DM	574941	7040041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestAspen
10164588	01/10/2010	GroundTruth_DM	574895	7040026	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10164589	01/10/2010	GroundTruth_DM	574848	7040010	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10164590	01/10/2010	GroundTruth_DM	574799	7039994	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	30		Good	ForestAspen
10164591	01/10/2010	GroundTruth_DM	574754	7039980	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	30		Poor	ForestAspen
10164592	01/10/2010	GroundTruth_DM	574707	7039964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164593	01/10/2010	GroundTruth_DM	574659	7039949	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164594	01/10/2010	GroundTruth_DM	574611	7039934	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164595	01/10/2010	GroundTruth_DM	574565	7039919	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164596	01/10/2010	GroundTruth_DM	574516	7039903	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10164597	01/10/2010	GroundTruth_DM	574466	7039887	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164598	01/10/2010	GroundTruth_DM	574420	7039872	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164599	01/10/2010	GroundTruth_DM	574371	7039857	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10164600	01/10/2010	GroundTruth_DM	574326	7039842	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164602	30/09/2010	GroundTruth_MR	576285	7040269	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestAspen
10164603	30/09/2010	GroundTruth_MR	576237	7040253	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164604	30/09/2010	GroundTruth_MR	576190	7040237	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164605	30/09/2010	GroundTruth_MR	576143	7040220	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164606	30/09/2010	GroundTruth_MR	576100	7040207	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164607	30/09/2010	GroundTruth_MR	576052	7040193	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164608	30/09/2010	GroundTruth_MR	576004	7040176	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164609	30/09/2010	GroundTruth_MR	575957	7040162	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164610	30/09/2010	GroundTruth_MR	575908	7040145	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164611	30/09/2010	GroundTruth_MR	575861	7040131	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164612	30/09/2010	GroundTruth_MR	575813	7040115	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164613	30/09/2010	GroundTruth_MR	575764	7040098	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164614	30/09/2010	GroundTruth_MR	575719	7040083	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164615	30/09/2010	GroundTruth_MR	575671	7040069	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10164616	30/09/2010	GroundTruth_MR	575624	7040054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10164617	30/09/2010	GroundTruth_MR	575576	7040038	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10164618	01/10/2010	GroundTruth_MR	575403	7040405	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164619	01/10/2010	GroundTruth_MR	575354	7040387	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164621	01/10/2010	GroundTruth_MR	575307	7040373	UTMZ7N_WGS84		Orange	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10164622	01/10/2010	GroundTruth_MR	575259	7040356	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164623	01/10/2010	GroundTruth_MR	575212	7040340	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164624	01/10/2010	GroundTruth_MR	575163	7040326	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164625	01/10/2010	GroundTruth_MR	575116	7040311	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164626	01/10/2010	GroundTruth_MR	575069	7040294	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164627	01/10/2010	GroundTruth_MR	575021	7040278	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164628	01/10/2010	GroundTruth_MR	574973	7040264	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164630	01/10/2010	GroundTruth_MR	574925	7040247	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164631	01/10/2010	GroundTruth_MR	574879	7040232	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	90		Good	ForestWhiteSpruce
10164632	01/10/2010	GroundTruth_MR	574831	7040216	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164633	01/10/2010	GroundTruth_MR	574783	7040201	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164634	01/10/2010	GroundTruth_MR	574735	7040185	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164635	01/10/2010	GroundTruth_MR	574688	7040170	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164636	01/10/2010	GroundTruth_MR	574640	7040154	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164637	01/10/2010	GroundTruth_MR	574592	7040139	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164638	01/10/2010	GroundTruth_MR	574544	7040124	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164639	01/10/2010	GroundTruth_MR	574496	7040108	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164640	01/10/2010	GroundTruth_MR	574452	7040092	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164641	01/10/2010	GroundTruth_MR	574406	7040078	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164642	01/10/2010	GroundTruth_MR	574356	7040061	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164643	01/10/2010	GroundTruth_MR	574309	7040047	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164644	01/10/2010	GroundTruth_MR	574263	7040032	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164645	01/10/2010	GroundTruth_MR	574215	7040015	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164646	01/10/2010	GroundTruth_MR	574167	7040001	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164647	01/10/2010	GroundTruth_MR	574120	7039986	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164648	01/10/2010	GroundTruth_MR	574071	7039972	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164649	01/10/2010	GroundTruth_MR	574023	7039954	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164650	02/10/2010	GroundTruth_MR	575247	7040879	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10164651	02/10/2010	GroundTruth_MR	575199	7040865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10164652	02/10/2010	GroundTruth_MR	575152	7040849	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40	Wet	Good	ForestBlackSpruce
10164653	02/10/2010	GroundTruth_MR	575105	7040832	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Poor	ForestBlackSpruce
10164654	02/10/2010	GroundTruth_MR	575056	7040817	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Poor	ForestBlackSpruce
10164655	02/10/2010	GroundTruth_MR	575009	7040801	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10164656	02/10/2010	GroundTruth_MR	574962	7040786	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10164657	02/10/2010	GroundTruth_MR	574914	7040770	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10164658	02/10/2010	GroundTruth_MR	574866	7040754	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10164659	02/10/2010	GroundTruth_MR	574819	7040738	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Wet	Good	ForestBlackSpruce
10164660	02/10/2010	GroundTruth_MR	574771	7040724	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10164661	02/10/2010	GroundTruth_MR	574722	7040708	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Poor	ForestBlackSpruce
10164662	02/10/2010	GroundTruth_MR	574676	7040692	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164663	02/10/2010	GroundTruth_MR	574629	7040676	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164664	02/10/2010	GroundTruth_MR	574581	7040661	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164665	02/10/2010	GroundTruth_MR	574533	7040645	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Excellent	ForestBlackSpruce
10164667	02/10/2010	GroundTruth_MR	574484	7040628	UTMZ7N_WGS84		Orange	Sand	Flat	C	60		Excellent	ForestBlackSpruce
10164668	02/10/2010	GroundTruth_MR	574438	7040615	UTMZ7N_WGS84		Orange	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10164669	02/10/2010	GroundTruth_MR	574390	7040597	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10164670	02/10/2010	GroundTruth_MR	574342	7040583	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164671	02/10/2010	GroundTruth_MR	574298	7040569	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164672	02/10/2010	GroundTruth_MR	574251	7040553	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164674	02/10/2010	GroundTruth_MR	574201	7040538	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164675	02/10/2010	GroundTruth_MR	574155	7040523	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164676	02/10/2010	GroundTruth_MR	574107	7040507	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164677	02/10/2010	GroundTruth_MR	574061	7040491	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164678	02/10/2010	GroundTruth_MR	574011	7040477	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164679	02/10/2010	GroundTruth_MR	573963	7040463	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164680	02/10/2010	GroundTruth_MR	573917	7040446	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164681	02/10/2010	GroundTruth_MR	573868	7040431	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164682	03/10/2010	GroundTruth_MR	573605	7041079	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10164683	03/10/2010	GroundTruth_MR	573558	7041064	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164685	03/10/2010	GroundTruth_MR	573511	7041048	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164687	03/10/2010	GroundTruth_MR	573462	7041034	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164688	03/10/2010	GroundTruth_MR	573415	7041019	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164689	03/10/2010	GroundTruth_MR	573368	7041002	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164690	03/10/2010	GroundTruth_MR	573321	7040986	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164691	03/10/2010	GroundTruth_MR	573272	7040970	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164692	03/10/2010	GroundTruth_MR	573225	7040956	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164693	03/10/2010	GroundTruth_MR	573176	7040939	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164694	03/10/2010	GroundTruth_MR	573129	7040924	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164695	03/10/2010	GroundTruth_MR	573082	7040908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164696	03/10/2010	GroundTruth_MR	573035	7040893	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164697	03/10/2010	GroundTruth_MR	572985	7040877	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	110		Good	ForestWhiteSpruce
10164698	03/10/2010	GroundTruth_MR	572939	7040863	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164699	03/10/2010	GroundTruth_MR	572894	7040848	UTMZ7N_WGS84		Green	Sand	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10164700	03/10/2010	GroundTruth_MR	572843	7040831	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10164701	03/10/2010	GroundTruth_MR	572797	7040816	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164702	03/10/2010	GroundTruth_MR	572751	7040802	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164703	03/10/2010	GroundTruth_MR	572703	7040787	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	70		Good	ForestWhiteSpruce
10164704	03/10/2010	GroundTruth_MR	572656	7040770	UTMZ7N_WGS84		Black	Silt	Flat	B	50	Wet	Poor	ForestWhiteSpruce
10164705	03/10/2010	GroundTruth_MR	572608	7040755	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50		Good	ForestWhiteSpruce
10164706	03/10/2010	GroundTruth_MR	572560	7040740	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10164707	03/10/2010	GroundTruth_MR	572514	7040726	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	100		Excellent	ForestWhiteSpruce
10164708	03/10/2010	GroundTruth_MR	572464	7040711	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164709	03/10/2010	GroundTruth_MR	572416	7040694	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164710	03/10/2010	GroundTruth_MR	572369	7040681	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164711	03/10/2010	GroundTruth_MR	572321	7040663	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164712	03/10/2010	GroundTruth_MR	572274	7040650	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10164713	03/10/2010	GroundTruth_MR	572225	7040634	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10164714	10/10/2010	GroundTruth_MR	573913	7040129	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Excellent	ForestWhiteSpruce
10164715	10/10/2010	GroundTruth_MR	573865	7040112	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164716	10/10/2010	GroundTruth_MR	573819	7040096	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164717	10/10/2010	GroundTruth_MR	573770	7040080	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164718	10/10/2010	GroundTruth_MR	573723	7040067	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164719	10/10/2010	GroundTruth_MR	573675	7040051	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164720	10/10/2010	GroundTruth_MR	573628	7040034	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10164721	10/10/2010	GroundTruth_MR	573580	7040020	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164722	10/10/2010	GroundTruth_MR	573533	7040003	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164723	10/10/2010	GroundTruth_MR	573484	7039987	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164724	10/10/2010	GroundTruth_MR	573436	7039972	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestWhiteSpruce
10164726	10/10/2010	GroundTruth_MR	573389	7039958	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	100	Wet	Poor	ForestWhiteSpruce
10164727	10/10/2010	GroundTruth_MR	573341	7039941	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164728	10/10/2010	GroundTruth_MR	573294	7039925	UTMZ7N_WGS84		Orange	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164729	10/10/2010	GroundTruth_MR	573246	7039911	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164730	10/10/2010	GroundTruth_MR	573198	7039895	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	50		Poor	ForestWhiteSpruce
10164731	10/10/2010	GroundTruth_MR	573152	7039880	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	90	Frozen	Poor	ForestMixed
10164732	10/10/2010	GroundTruth_MR	573104	7039864	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	DrainageAlder
10164733	10/10/2010	GroundTruth_MR	573056	7039849	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Poor	ForestBlackSpruce
10164734	10/10/2010	GroundTruth_MR	573012	7039835	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10164735	10/10/2010	GroundTruth_MR	572964	7039821	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164736	10/10/2010	GroundTruth_MR	572916	7039805	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164737	10/10/2010	GroundTruth_MR	572869	7039788	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10164738	10/10/2010	GroundTruth_MR	572820	7039775	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10164739	10/10/2010	GroundTruth_MR	572772	7039760	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	30		Poor	ForestWhiteSpruce
10164740	10/10/2010	GroundTruth_MR	572725	7039743	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164741	10/10/2010	GroundTruth_MR	572677	7039729	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164742	10/10/2010	GroundTruth_MR	572629	7039712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164743	10/10/2010	GroundTruth_MR	572582	7039696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10164744	10/10/2010	GroundTruth_MR	572534	7039680	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60	Wet	Good	ForestWhiteSpruce
10164745	11/10/2010	GroundTruth_MR	571110	7039220	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164746	11/10/2010	GroundTruth_MR	571158	7039236	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164747	01/10/2010	GroundTruth_CC	575197	7040229	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10164748	01/10/2010	GroundTruth_CC	575147	7040212	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10164749	01/10/2010	GroundTruth_CC	575100	7040198	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestAspen
10164750	01/10/2010	GroundTruth_CC	575052	7040182	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestAspen
10164751	01/10/2010	GroundTruth_CC	575006	7040165	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestAspen
10164752	01/10/2010	GroundTruth_CC	574960	7040152	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	70		Good	ForestBirch
10164753	01/10/2010	GroundTruth_CC	574913	7040135	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	60		Good	ForestAspen
10164754	01/10/2010	GroundTruth_CC	574866	7040121	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164755	01/10/2010	GroundTruth_CC	574817	7040104	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164756	01/10/2010	GroundTruth_CC	574770	7040090	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164757	01/10/2010	GroundTruth_CC	574722	7040077	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164758	01/10/2010	GroundTruth_CC	574674	7040059	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164759	01/10/2010	GroundTruth_CC	574626	7040046	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164760	01/10/2010	GroundTruth_CC	574580	7040030	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164761	01/10/2010	GroundTruth_CC	574532	7040011	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164762	01/10/2010	GroundTruth_CC	574485	7039998	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164763	01/10/2010	GroundTruth_CC	574438	7039983	UTMZ7N_WGS84		Orange	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164764	01/10/2010	GroundTruth_CC	574390	7039967	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164765	01/10/2010	GroundTruth_CC	574341	7039951	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestWhiteSpruce
10164766	01/10/2010	GroundTruth_CC	574293	7039937	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164767	01/10/2010	GroundTruth_CC	574246	7039921	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10164768	01/10/2010	GroundTruth_CC	574199	7039906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164769	01/10/2010	GroundTruth_CC	574151	7039889	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10164770	01/10/2010	GroundTruth_CC	574103	7039875	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10164771	01/10/2010	GroundTruth_CC	574056	7039860	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164773	02/10/2010	GroundTruth_CC	575156	7041166	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164775	02/10/2010	GroundTruth_CC	575109	7041150	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Excellent	ForestBlackSpruce
10164776	02/10/2010	GroundTruth_CC	575061	7041134	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164777	02/10/2010	GroundTruth_CC	574966	7041103	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	80		Excellent	ForestBirch
10164778	02/10/2010	GroundTruth_CC	574920	7041087	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164779	02/10/2010	GroundTruth_CC	574870	7041070	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164780	02/10/2010	GroundTruth_CC	574825	7041055	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164781	02/10/2010	GroundTruth_CC	574729	7041023	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164782	02/10/2010	GroundTruth_CC	574684	7041008	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40	Frozen	Poor	ForestBlackSpruce
10164783	02/10/2010	GroundTruth_CC	574636	7040992	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10164784	02/10/2010	GroundTruth_CC	574589	7040976	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestBlackSpruce
10164786	02/10/2010	GroundTruth_CC	574541	7040962	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10164787	02/10/2010	GroundTruth_CC	574493	7040946	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10164788	02/10/2010	GroundTruth_CC	574445	7040930	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Frozen	Good	ForestBlackSpruce
10164789	02/10/2010	GroundTruth_CC	574398	7040916	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10164790	02/10/2010	GroundTruth_CC	574349	7040900	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10164791	02/10/2010	GroundTruth_CC	574302	7040885	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10164792	02/10/2010	GroundTruth_CC	574255	7040869	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10164793	02/10/2010	GroundTruth_CC	574208	7040854	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10164794	02/10/2010	GroundTruth_CC	574160	7040839	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164795	02/10/2010	GroundTruth_CC	574112	7040823	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10164796	02/10/2010	GroundTruth_CC	574065	7040808	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164798	02/10/2010	GroundTruth_CC	574017	7040792	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164799	02/10/2010	GroundTruth_CC	573967	7040777	UTMZ7N_WGS84		Yellow	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164800	02/10/2010	GroundTruth_CC	573921	7040762	UTMZ7N_WGS84		Orange	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164801	02/10/2010	GroundTruth_CC	573779	7040714	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164802	02/10/2010	GroundTruth_CC	573826	7040731	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestWhiteSpruce
10164803	02/10/2010	GroundTruth_CC	573873	7040748	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164804	03/10/2010	GroundTruth_CC	570677	7040550	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164805	03/10/2010	GroundTruth_CC	570724	7040568	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100		Good	ForestWhiteSpruce
10164806	03/10/2010	GroundTruth_CC	570771	7040581	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestWhiteSpruce
10164807	03/10/2010	GroundTruth_CC	570819	7040598	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164808	03/10/2010	GroundTruth_CC	570867	7040613	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10164809	03/10/2010	GroundTruth_CC	570914	7040630	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	110		Excellent	ForestBlackSpruce
10164810	03/10/2010	GroundTruth_CC	570962	7040646	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164811	03/10/2010	GroundTruth_CC	571010	7040660	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBlackSpruce
10164812	03/10/2010	GroundTruth_CC	571060	7040675	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164813	03/10/2010	GroundTruth_CC	571106	7040690	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBirch
10164814	03/10/2010	GroundTruth_CC	571153	7040709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10164815	03/10/2010	GroundTruth_CC	571200	7040723	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBirch
10164817	03/10/2010	GroundTruth_CC	571244	7040737	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10164818	03/10/2010	GroundTruth_CC	571292	7040753	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164819	03/10/2010	GroundTruth_CC	571340	7040768	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10164820	03/10/2010	GroundTruth_CC	571388	7040784	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10164821	03/10/2010	GroundTruth_CC	571437	7040799	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBirch
10164822	03/10/2010	GroundTruth_CC	571483	7040816	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164823	03/10/2010	GroundTruth_CC	571531	7040828	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10164824	03/10/2010	GroundTruth_CC	571579	7040844	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164825	03/10/2010	GroundTruth_CC	571627	7040858	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164826	03/10/2010	GroundTruth_CC	571674	7040875	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164827	03/10/2010	GroundTruth_CC	571722	7040891	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164828	03/10/2010	GroundTruth_CC	571770	7040906	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164829	03/10/2010	GroundTruth_CC	571817	7040922	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10164830	03/10/2010	GroundTruth_CC	571864	7040937	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164831	03/10/2010	GroundTruth_CC	571913	7040953	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164832	03/10/2010	GroundTruth_CC	571961	7040968	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40	Frozen	Good	ForestBlackSpruce
10164833	03/10/2010	GroundTruth_CC	572008	7040984	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164834	03/10/2010	GroundTruth_CC	572056	7040998	UTMZ7N_WGS84		BrownDark	Sand	Steep	B	40	Frozen	Good	ForestBlackSpruce
10164835	10/10/2010	GroundTruth_CC	573758	7040289	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10164836	10/10/2010	GroundTruth_CC	573710	7040272	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164837	10/10/2010	GroundTruth_CC	573662	7040256	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164838	10/10/2010	GroundTruth_CC	573616	7040241	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164839	10/10/2010	GroundTruth_CC	573567	7040226	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164840	05/10/2010	GroundTruth_CC	570988	7039601	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBirch
10164841	05/10/2010	GroundTruth_CC	571036	7039616	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164842	05/10/2010	GroundTruth_CC	571083	7039632	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164843	05/10/2010	GroundTruth_CC	571131	7039648	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164844	05/10/2010	GroundTruth_CC	571178	7039663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164846	05/10/2010	GroundTruth_CC	571224	7039680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10164847	05/10/2010	GroundTruth_CC	571275	7039694	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164848	05/10/2010	GroundTruth_CC	571321	7039709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164849	05/10/2010	GroundTruth_CC	571368	7039726	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164850	05/10/2010	GroundTruth_CC	571415	7039741	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164851	05/10/2010	GroundTruth_CC	571463	7039756	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164852	05/10/2010	GroundTruth_CC	571505	7039770	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	40		Good	ForestBirch
10164853	05/10/2010	GroundTruth_CC	571554	7039786	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestWhiteSpruce
10164854	05/10/2010	GroundTruth_CC	571603	7039802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164855	05/10/2010	GroundTruth_CC	571649	7039816	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50	Wet	Good	ForestBlackSpruce
10164856	05/10/2010	GroundTruth_CC	571695	7039832	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100	Wet	Good	ForestBlackSpruce
10164857	05/10/2010	GroundTruth_CC	571743	7039847	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	100	Wet	Good	ForestBlackSpruce
10164858	05/10/2010	GroundTruth_CC	571793	7039864	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestBlackSpruce
10164859	05/10/2010	GroundTruth_CC	571841	7039878	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10164860	05/10/2010	GroundTruth_CC	571889	7039893	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10164861	05/10/2010	GroundTruth_CC	571935	7039908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164862	05/10/2010	GroundTruth_CC	571984	7039925	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10164863	05/10/2010	GroundTruth_CC	572033	7039939	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60	Wet	Good	ForestBlackSpruce
10164864	05/10/2010	GroundTruth_CC	572080	7039956	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164865	05/10/2010	GroundTruth_CC	572126	7039971	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164866	05/10/2010	GroundTruth_CC	572174	7039986	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164867	05/10/2010	GroundTruth_CC	572221	7040000	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164869	05/10/2010	GroundTruth_CC	572268	7040016	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164870	05/10/2010	GroundTruth_CC	572366	7040046	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Poor	ForestBlackSpruce
10164871	05/10/2010	GroundTruth_CC	572412	7040061	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Poor	ForestBlackSpruce
10164872	10/10/2010	GroundTruth_CC	573853	7040320	UTMZ7N_WGS84		BrownLight	Sand	Moderate	B	80		Good	ForestWhiteSpruce
10164873	10/10/2010	GroundTruth_CC	573806	7040304	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164874	10/10/2010	GroundTruth_CC	573521	7040209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164875	10/10/2010	GroundTruth_CC	573473	7040194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164876	10/10/2010	GroundTruth_CC	573424	7040178	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164877	10/10/2010	GroundTruth_CC	573376	7040162	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164878	10/10/2010	GroundTruth_CC	573328	7040145	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164879	10/10/2010	GroundTruth_CC	573281	7040131	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164880	10/10/2010	GroundTruth_CC	573235	7040116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	90	Wet	Good	ForestWhiteSpruce
10164881	10/10/2010	GroundTruth_CC	573187	7040100	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70	Wet	Good	ForestBlackSpruce
10164882	10/10/2010	GroundTruth_CC	573143	7040087	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestBlackSpruce
10164883	10/10/2010	GroundTruth_CC	573094	7040071	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBlackSpruce
10164884	10/10/2010	GroundTruth_CC	573048	7040056	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10164885	10/10/2010	GroundTruth_CC	572952	7040024	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10164886	10/10/2010	GroundTruth_CC	572904	7040010	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164887	10/10/2010	GroundTruth_CC	572856	7039995	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10164888	10/10/2010	GroundTruth_CC	572810	7039979	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10164889	10/10/2010	GroundTruth_CC	572761	7039963	UTMZ7N_WGS84		Orange	Sand	Moderate	A	70		Excellent	ForestWhiteSpruce
10164890	10/10/2010	GroundTruth_CC	572713	7039948	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164891	10/10/2010	GroundTruth_CC	572665	7039931	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164892	10/10/2010	GroundTruth_CC	572616	7039917	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164893	10/10/2010	GroundTruth_CC	572570	7039901	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164894	10/10/2010	GroundTruth_CC	572522	7039887	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164895	10/10/2010	GroundTruth_CC	572474	7039871	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestWhiteSpruce
10164896	11/10/2010	GroundTruth_CC	571050	7039410	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164897	11/10/2010	GroundTruth_CC	571097	7039425	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10164898	11/10/2010	GroundTruth_CC	571144	7039441	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestWhiteSpruce
10164899	11/10/2010	GroundTruth_CC	571193	7039457	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10164900	02/10/2010	GroundTruth_CO	575095	7041352	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164901	02/10/2010	GroundTruth_CO	575047	7041336	UTMZ7N_WGS84		Black	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164902	02/10/2010	GroundTruth_CO	574998	7041323	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164903	02/10/2010	GroundTruth_CO	574953	7041306	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164904	02/10/2010	GroundTruth_CO	574904	7041290	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164905	02/10/2010	GroundTruth_CO	574856	7041275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164906	02/10/2010	GroundTruth_CO	574810	7041260	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164907	02/10/2010	GroundTruth_CO	574761	7041244	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164908	02/10/2010	GroundTruth_CO	574714	7041227	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164909	02/10/2010	GroundTruth_CO	574666	7041212	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164910	02/10/2010	GroundTruth_CO	574619	7041197	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164911	02/10/2010	GroundTruth_CO	574571	7041180	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164912	02/10/2010	GroundTruth_CO	574523	7041166	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70	Frozen	Poor	ForestBlackSpruce
10164913	02/10/2010	GroundTruth_CO	574475	7041149	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164914	02/10/2010	GroundTruth_CO	574432	7041134	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Frozen	Good	ForestBlackSpruce
10164915	02/10/2010	GroundTruth_CO	574384	7041119	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164916	02/10/2010	GroundTruth_CO	574335	7041105	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164917	02/10/2010	GroundTruth_CO	574288	7041089	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164918	02/10/2010	GroundTruth_CO	574240	7041073	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164919	02/10/2010	GroundTruth_CO	574194	7041058	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164920	02/10/2010	GroundTruth_CO	574146	7041044	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164921	02/10/2010	GroundTruth_CO	574097	7041028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164922	02/10/2010	GroundTruth_CO	574051	7041013	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164923	02/10/2010	GroundTruth_CO	574003	7040998	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164924	02/10/2010	GroundTruth_CO	573955	7040981	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164925	02/10/2010	GroundTruth_CO	573907	7040967	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	40		Excellent	ForestBlackSpruce
10164926	02/10/2010	GroundTruth_CO	573857	7040951	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164927	02/10/2010	GroundTruth_CO	573811	7040936	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164928	02/10/2010	GroundTruth_CO	573764	7040921	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164929	02/10/2010	GroundTruth_CO	573715	7040907	UTMZ7N_WGS84		Blue	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164931	07/10/2010	GroundTruth_CO	573476	7040510	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164932	07/10/2010	GroundTruth_CO	573428	7040492	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10164933	02/10/2010	GroundTruth_DM	573795	7040826	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164935	02/10/2010	GroundTruth_DM	573746	7040811	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164937	03/10/2010	GroundTruth_DM	574971	7041734	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestMixed
10164938	03/10/2010	GroundTruth_DM	574925	7041719	UTMZ7N_WGS84		Black	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164939	03/10/2010	GroundTruth_DM	574876	7041703	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164940	03/10/2010	GroundTruth_DM	574828	7041687	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164941	03/10/2010	GroundTruth_DM	574784	7041673	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164942	03/10/2010	GroundTruth_DM	574736	7041658	UTMZ7N_WGS84		Green	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164943	03/10/2010	GroundTruth_DM	574686	7041641	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10164944	03/10/2010	GroundTruth_DM	574639	7041626	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164945	03/10/2010	GroundTruth_DM	574590	7041610	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10164946	03/10/2010	GroundTruth_DM	574543	7041594	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10164947	03/10/2010	GroundTruth_DM	574497	7041579	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164948	03/10/2010	GroundTruth_DM	574447	7041563	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestWhiteSpruce
10164949	03/10/2010	GroundTruth_DM	574402	7041550	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10164950	03/10/2010	GroundTruth_DM	574353	7041533	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Excellent	ForestWhiteSpruce
10164951	03/10/2010	GroundTruth_DM	574307	7041518	UTMZ7N_WGS84		Black	Sand	Moderate	C	40	Frozen	Poor	ForestBlackSpruce
10164952	03/10/2010	GroundTruth_DM	574260	7041503	UTMZ7N_WGS84		Grey	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10164953	03/10/2010	GroundTruth_DM	574212	7041487	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90	Wet	Poor	ForestBlackSpruce
10164954	03/10/2010	GroundTruth_DM	574166	7041473	UTMZ7N_WGS84		Black	Sand	Moderate	C	60	Frozen	Poor	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10164955	03/10/2010	GroundTruth_DM	574117	7041457	UTMZ7N_WGS84		Black	Sand	Steep	C	50	Frozen	Poor	ForestBlackSpruce
10164956	03/10/2010	GroundTruth_DM	574070	7041442	UTMZ7N_WGS84		Black	Sand	Steep	C	60	Frozen	Poor	ForestBlackSpruce
10164957	03/10/2010	GroundTruth_DM	574021	7041426	UTMZ7N_WGS84		Black	Sand	Steep	C	70	Frozen	Poor	ForestBlackSpruce
10164958	03/10/2010	GroundTruth_DM	573973	7041410	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80	Wet	Good	ForestBlackSpruce
10164959	03/10/2010	GroundTruth_DM	573925	7041395	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10164960	03/10/2010	GroundTruth_DM	573879	7041379	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164961	03/10/2010	GroundTruth_DM	573831	7041364	UTMZ7N_WGS84		Black	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10164962	03/10/2010	GroundTruth_DM	573789	7041351	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10164963	03/10/2010	GroundTruth_DM	573733	7041332	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164964	03/10/2010	GroundTruth_DM	573687	7041318	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10164966	02/10/2010	GroundTruth_PM	574586	7041292	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBirch
10164967	02/10/2010	GroundTruth_PM	574540	7041278	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10164968	02/10/2010	GroundTruth_PM	574492	7041262	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10164969	02/10/2010	GroundTruth_PM	574445	7041247	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10164970	02/10/2010	GroundTruth_PM	574397	7041231	UTMZ7N_WGS84		Black	Sand	Moderate	C	90	Frozen	Good	ForestBlackSpruce
10164971	02/10/2010	GroundTruth_PM	574349	7041214	UTMZ7N_WGS84		Black	Sand	Moderate	C	70		Poor	ForestBlackSpruce
10164972	02/10/2010	GroundTruth_PM	574301	7041200	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164973	02/10/2010	GroundTruth_PM	574253	7041185	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10164974	02/10/2010	GroundTruth_PM	574205	7041168	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164975	02/10/2010	GroundTruth_PM	574159	7041154	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164976	02/10/2010	GroundTruth_PM	574114	7041139	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164977	02/10/2010	GroundTruth_PM	574066	7041123	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10164978	02/10/2010	GroundTruth_PM	574016	7041108	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10164979	02/10/2010	GroundTruth_PM	573972	7041094	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164980	02/10/2010	GroundTruth_PM	573924	7041077	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10164981	02/10/2010	GroundTruth_PM	573877	7041062	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164982	02/10/2010	GroundTruth_PM	573828	7041048	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164983	02/10/2010	GroundTruth_PM	573778	7041032	UTMZ7N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestBlackSpruce
10164984	02/10/2010	GroundTruth_PM	573732	7041017	UTMZ7N_WGS84		Grey	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164985	02/10/2010	GroundTruth_PM	573685	7041001	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Poor	ForestBlackSpruce
10164986	05/10/2010	GroundTruth_PM	572000	7040033	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164987	05/10/2010	GroundTruth_PM	572047	7040048	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164988	05/10/2010	GroundTruth_PM	572095	7040063	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10164989	05/10/2010	GroundTruth_PM	572145	7040078	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10164990	05/10/2010	GroundTruth_PM	572190	7040096	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10164991	05/10/2010	GroundTruth_PM	572239	7040110	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10164992	05/10/2010	GroundTruth_PM	572286	7040125	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50	Frozen	Good	ForestBlackSpruce
10164993	05/10/2010	GroundTruth_PM	572333	7040139	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60	Frozen	Good	ForestBlackSpruce
10164994	05/10/2010	GroundTruth_PM	572382	7040158	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10164995	07/10/2010	GroundTruth_PM	567792	7044194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10165501	30/09/2010	GroundTruth_MD	569784	7044157	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165502	30/09/2010	GroundTruth_MD	569829	7044123	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestAspen
10165503	30/09/2010	GroundTruth_MD	569869	7044092	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165504	30/09/2010	GroundTruth_MD	569907	7044059	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165505	30/09/2010	GroundTruth_MD	569947	7044027	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165506	30/09/2010	GroundTruth_MD	569986	7043998	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165507	30/09/2010	GroundTruth_MD	570027	7043969	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165508	30/09/2010	GroundTruth_MD	570066	7043938	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165509	30/09/2010	GroundTruth_MD	570106	7043906	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165510	30/09/2010	GroundTruth_MD	570147	7043877	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165511	30/09/2010	GroundTruth_MD	570185	7043845	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165512	30/09/2010	GroundTruth_MD	570225	7043816	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165513	30/09/2010	GroundTruth_MD	570263	7043787	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Poor	ForestBlackSpruce
10165514	30/09/2010	GroundTruth_MD	570304	7043755	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165515	30/09/2010	GroundTruth_MD	570344	7043727	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165516	30/09/2010	GroundTruth_MD	570382	7043696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10165517	30/09/2010	GroundTruth_MD	570423	7043663	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165518	30/09/2010	GroundTruth_MD	570460	7043632	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165519	30/09/2010	GroundTruth_MD	570499	7043600	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165520	30/09/2010	GroundTruth_MD	570538	7043568	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165521	30/09/2010	GroundTruth_MD	570578	7043540	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Poor	ForestBlackSpruce
10165522	30/09/2010	GroundTruth_MD	570618	7043506	UTMZ7N_WGS84		BrownDark		Moderate	B	40	Wet	Poor	ForestBlackSpruce
10165523	30/09/2010	GroundTruth_MD	570656	7043478	UTMZ7N_WGS84		Orange	Sand	Moderate	B	40		Good	ForestBlackSpruce
10165524	30/09/2010	GroundTruth_MD	570695	7043445	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165525	30/09/2010	GroundTruth_MD	570734	7043416	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestPine
10165526	30/09/2010	GroundTruth_MD	570776	7043384	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165528	30/09/2010	GroundTruth_MD	570813	7043353	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10165529	30/09/2010	GroundTruth_MD	570852	7043321	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10165530	30/09/2010	GroundTruth_MD	570894	7043290	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165532	01/10/2010	GroundTruth_DB	571776	7044503	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165534	01/10/2010	GroundTruth_DB	571815	7044474	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165535	04/10/2010	GroundTruth_DB	568517	7042607	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165536	04/10/2010	GroundTruth_DB	568554	7042574	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10165537	04/10/2010	GroundTruth_DB	568594	7042544	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165538	04/10/2010	GroundTruth_DB	568633	7042510	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10165539	04/10/2010	GroundTruth_DB	568675	7042483	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60		Good	ForestBlackSpruce
10165540	04/10/2010	GroundTruth_DB	568713	7042451	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	20		Good	SubAlpineFir
10165541	04/10/2010	GroundTruth_DB	568750	7042420	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	30		Good	SubAlpineFir
10165542	04/10/2010	GroundTruth_DB	568788	7042384	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50		Good	ForestBlackSpruce
10165543	04/10/2010	GroundTruth_DB	568827	7042354	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50		Good	ForestBlackSpruce
10165544	03/10/2010	GroundTruth_JB	570992	7043340	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10165545	03/10/2010	GroundTruth_JB	571032	7043309	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165546	03/10/2010	GroundTruth_JB	571072	7043280	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10165547	03/10/2010	GroundTruth_JB	571111	7043249	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165548	03/10/2010	GroundTruth_JB	571150	7043216	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10165549	03/10/2010	GroundTruth_JB	571190	7043186	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165550	03/10/2010	GroundTruth_JB	571228	7043155	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165551	03/10/2010	GroundTruth_JB	571270	7043123	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165552	03/10/2010	GroundTruth_JB	571309	7043094	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165553	03/10/2010	GroundTruth_JB	571346	7043063	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165554	03/10/2010	GroundTruth_JB	571387	7043031	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10165555	03/10/2010	GroundTruth_JB	571428	7043002	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10165556	03/10/2010	GroundTruth_JB	571468	7042970	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165557	03/10/2010	GroundTruth_JB	571504	7042939	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165558	03/10/2010	GroundTruth_JB	571544	7042908	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10165559	03/10/2010	GroundTruth_JB	571585	7042877	UTMZ7N_WGS84		Grey	Clay	Moderate	B	70	Frozen	Poor	ForestBlackSpruce
10165560	03/10/2010	GroundTruth_JB	571625	7042850	UTMZ7N_WGS84		Grey	Clay	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10165561	03/10/2010	GroundTruth_JB	571664	7042814	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80		Good	ForestBlackSpruce
10165562	03/10/2010	GroundTruth_JB	571702	7042784	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	70		Good	ForestBlackSpruce
10165563	03/10/2010	GroundTruth_JB	571740	7042756	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10165564	03/10/2010	GroundTruth_JB	571764	7042865	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	50		Poor	ForestBlackSpruce
10165565	03/10/2010	GroundTruth_JB	571726	7042893	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50	Wet	Good	ForestBlackSpruce
10165566	03/10/2010	GroundTruth_JB	571686	7042923	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165567	03/10/2010	GroundTruth_JB	571647	7042955	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestPine
10165568	03/10/2010	GroundTruth_JB	571607	7042986	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165569	03/10/2010	GroundTruth_JB	571569	7043018	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10165570	03/10/2010	GroundTruth_JB	571532	7043047	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165572	03/10/2010	GroundTruth_JB	571490	7043078	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165573	03/10/2010	GroundTruth_JB	571451	7043110	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165574	04/10/2010	GroundTruth_JB	567574	7043346	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165575	04/10/2010	GroundTruth_JB	567614	7043317	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10165576	04/10/2010	GroundTruth_JB	567656	7043287	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestPine
10165578	04/10/2010	GroundTruth_JB	567695	7043256	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestPine
10165579	04/10/2010	GroundTruth_JB	567733	7043226	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165580	07/10/2010	GroundTruth_JB	569096	7043425	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165581	07/10/2010	GroundTruth_JB	569057	7043456	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10165582	07/10/2010	GroundTruth_JB	569017	7043488	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestBlackSpruce
10165583	07/10/2010	GroundTruth_JB	568979	7043518	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165584	07/10/2010	GroundTruth_JB	568940	7043550	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165585	07/10/2010	GroundTruth_JB	568900	7043580	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
10165586	07/10/2010	GroundTruth_JB	568861	7043609	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10165587	07/10/2010	GroundTruth_JB	568820	7043641	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165588	07/10/2010	GroundTruth_JB	568782	7043672	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90	Wet	Good	ForestBlackSpruce
10165589	07/10/2010	GroundTruth_JB	568741	7043703	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	70	Wet	Poor	ForestBlackSpruce
10165590	07/10/2010	GroundTruth_JB	568701	7043734	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10165591	04/10/2010	GroundTruth_JB	567773	7043192	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165592	04/10/2010	GroundTruth_JB	567813	7043160	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165593	04/10/2010	GroundTruth_JB	567852	7043130	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165594	04/10/2010	GroundTruth_JB	567893	7043102	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestPine
10165595	04/10/2010	GroundTruth_JB	567931	7043070	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestPine
10165596	04/10/2010	GroundTruth_JB	567970	7043040	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestPine
10165597	04/10/2010	GroundTruth_JB	568009	7043011	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestPine
10165598	04/10/2010	GroundTruth_JB	568048	7042979	UTMZ7N_WGS84		Black	Sand	Moderate	C	90		Good	ForestPine
10165599	04/10/2010	GroundTruth_JB	568089	7042950	UTMZ7N_WGS84		Black	Sand	Moderate	C	80		Good	ForestPine
10165600	04/10/2010	GroundTruth_JB	568127	7042919	UTMZ7N_WGS84		Black	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165601	04/10/2010	GroundTruth_JB	568165	7042887	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestBlackSpruce
10165602	04/10/2010	GroundTruth_JB	568206	7042856	UTMZ7N_WGS84		Black	Clay	Moderate	C	80		Good	ForestBlackSpruce
10165603	04/10/2010	GroundTruth_JB	568245	7042826	UTMZ7N_WGS84		Black	Clay	Moderate	C	60		Good	ForestBlackSpruce
10165604	04/10/2010	GroundTruth_JB	568284	7042794	UTMZ7N_WGS84		Black	Clay	Moderate	C	60		Good	ForestBlackSpruce
10165605	04/10/2010	GroundTruth_JB	568321	7042764	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	50		Good	ForestBlackSpruce
10165607	04/10/2010	GroundTruth_JB	568362	7042733	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165608	04/10/2010	GroundTruth_JB	568399	7042702	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestAspen
10165609	04/10/2010	GroundTruth_JB	568441	7042670	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10165610	04/10/2010	GroundTruth_DB	568869	7042325	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	50		Good	ForestBlackSpruce
10165611	07/10/2010	GroundTruth_JB	568863	7043766	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80	Wet	Good	ForestBirch
10165613	07/10/2010	GroundTruth_JB	568624	7043795	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBirch
10165614	07/10/2010	GroundTruth_JB	568583	7043826	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80	Wet	Poor	ForestBirch
10165615	07/10/2010	GroundTruth_JB	568546	7043858	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10165616	07/10/2010	GroundTruth_JB	568504	7043887	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50	Wet	Good	ForestBlackSpruce
10165617	07/10/2010	GroundTruth_JB	568465	7043917	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165619	07/10/2010	GroundTruth_JB	568427	7043948	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10165620	07/10/2010	GroundTruth_JB	568385	7043980	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165621	07/10/2010	GroundTruth_JB	568351	7044011	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165622	07/10/2010	GroundTruth_JB	568309	7044041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165623	07/10/2010	GroundTruth_JB	568267	7044075	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165624	07/10/2010	GroundTruth_JB	568230	7044107	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165625	07/10/2010	GroundTruth_JB	568188	7044138	UTMZ7N_WGS84		Grey	Clay	Moderate	C	70		Good	ForestBlackSpruce
10165626	07/10/2010	GroundTruth_JB	568151	7044166	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165627	07/10/2010	GroundTruth_JB	568110	7044197	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165657	29/09/2010	GroundTruth_AN	570505	7044739	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165658	29/09/2010	GroundTruth_AN	570541	7044712	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10165659	29/09/2010	GroundTruth_AN	570580	7044679	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165660	29/09/2010	GroundTruth_AN	570621	7044649	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestAspen
10165661	29/09/2010	GroundTruth_AN	570660	7044619	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165662	29/09/2010	GroundTruth_AN	570699	7044586	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165663	29/09/2010	GroundTruth_AN	570741	7044558	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165664	29/09/2010	GroundTruth_AN	570777	7044527	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165665	29/09/2010	GroundTruth_AN	570815	7044493	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165666	29/09/2010	GroundTruth_AN	570857	7044460	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165667	29/09/2010	GroundTruth_AN	570894	7044430	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165668	29/09/2010	GroundTruth_AN	570934	7044401	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165669	29/09/2010	GroundTruth_AN	570975	7044371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165670	29/09/2010	GroundTruth_AN	571012	7044338	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165671	29/09/2010	GroundTruth_AN	571053	7044309	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10165672	29/09/2010	GroundTruth_AN	571092	7044278	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165673	29/09/2010	GroundTruth_AN	571136	7044245	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165674	29/09/2010	GroundTruth_AN	571172	7044217	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165675	29/09/2010	GroundTruth_AN	571210	7044185	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165676	29/09/2010	GroundTruth_AN	571250	7044152	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165677	29/09/2010	GroundTruth_AN	571292	7044124	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10165678	29/09/2010	GroundTruth_AN	571330	7044092	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	60		Excellent	ForestBlackSpruce
10165679	29/09/2010	GroundTruth_AN	571368	7044061	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Excellent	ForestBlackSpruce
10165680	29/09/2010	GroundTruth_AN	571410	7044029	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165681	29/09/2010	GroundTruth_AN	571446	7044000	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165683	30/09/2010	GroundTruth_AN	569403	7043823	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165684	30/09/2010	GroundTruth_AN	569441	7043791	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165685	30/09/2010	GroundTruth_AN	569493	7043748	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165686	30/09/2010	GroundTruth_AN	569520	7043727	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165687	30/09/2010	GroundTruth_AN	569563	7043701	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165688	30/09/2010	GroundTruth_AN	569600	7043666	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165689	30/09/2010	GroundTruth_AN	569640	7043637	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165690	30/09/2010	GroundTruth_AN	569680	7043607	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165691	30/09/2010	GroundTruth_AN	569721	7043578	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBirch
10165692	30/09/2010	GroundTruth_AN	569760	7043548	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165693	30/09/2010	GroundTruth_AN	569799	7043509	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	50		Excellent	ForestBlackSpruce
10165694	30/09/2010	GroundTruth_AN	569838	7043484	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165695	30/09/2010	GroundTruth_AN	569873	7043445	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165696	30/09/2010	GroundTruth_AN	569917	7043422	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165697	30/09/2010	GroundTruth_AN	569953	7043391	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165698	30/09/2010	GroundTruth_AN	569995	7043360	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165699	30/09/2010	GroundTruth_AN	570032	7043328	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen
10165700	30/09/2010	GroundTruth_AN	570072	7043298	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestAspen
10165701	29/09/2010	GroundTruth_WW	570387	7045081	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165702	29/09/2010	GroundTruth_WW	570427	7045051	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10165703	29/09/2010	GroundTruth_WW	570466	7045021	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165704	29/09/2010	GroundTruth_WW	570505	7044989	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165705	29/09/2010	GroundTruth_WW	570545	7044958	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10165706	29/09/2010	GroundTruth_WW	570586	7044926	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestWhiteSpruce
10165707	29/09/2010	GroundTruth_WW	570624	7044896	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165708	29/09/2010	GroundTruth_WW	570664	7044865	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165709	29/09/2010	GroundTruth_WW	570703	7044835	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10165710	29/09/2010	GroundTruth_WW	570742	7044804	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Poor	ForestWhiteSpruce
10165711	29/09/2010	GroundTruth_WW	570782	7044773	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestWhiteSpruce
10165712	29/09/2010	GroundTruth_WW	570821	7044742	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165713	29/09/2010	GroundTruth_WW	570862	7044710	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10165714	29/09/2010	GroundTruth_WW	570900	7044680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10165715	29/09/2010	GroundTruth_WW	570940	7044649	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10165716	29/09/2010	GroundTruth_WW	570977	7044621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10165717	29/09/2010	GroundTruth_WW	571018	7044589	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10165718	29/09/2010	GroundTruth_WW	571056	7044560	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165719	29/09/2010	GroundTruth_WW	571095	7044529	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10165720	29/09/2010	GroundTruth_WW	571135	7044498	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10165721	29/09/2010	GroundTruth_WW	571175	7044466	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
10165722	29/09/2010	GroundTruth_WW	571214	7044436	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestWhiteSpruce
10165723	29/09/2010	GroundTruth_WW	571254	7044405	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165724	29/09/2010	GroundTruth_WW	571292	7044373	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10165725	29/09/2010	GroundTruth_WW	571333	7044344	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165726	29/09/2010	GroundTruth_WW	571373	7044312	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10165727	29/09/2010	GroundTruth_WW	571412	7044282	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165728	29/09/2010	GroundTruth_WW	571450	7044252	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestWhiteSpruce
10165729	29/09/2010	GroundTruth_WW	571491	7044220	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBirch
10165731	29/09/2010	GroundTruth_WW	571530	7044189	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10165732	29/09/2010	GroundTruth_WW	571570	7044158	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	60		Good	ForestBirch
10165733	30/09/2010	GroundTruth_WW	569464	7043899	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165734	30/09/2010	GroundTruth_WW	569503	7043869	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165735	30/09/2010	GroundTruth_WW	569542	7043837	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestAspen
10165736	30/09/2010	GroundTruth_WW	569582	7043807	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestAspen
10165737	30/09/2010	GroundTruth_WW	569620	7043776	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestWhiteSpruce
10165738	30/09/2010	GroundTruth_WW	569662	7043744	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165739	30/09/2010	GroundTruth_WW	569701	7043715	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165740	30/09/2010	GroundTruth_WW	569739	7043684	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	30		Good	ForestWhiteSpruce
10165741	30/09/2010	GroundTruth_WW	569786	7043652	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165742	30/09/2010	GroundTruth_WW	569819	7043621	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10165743	30/09/2010	GroundTruth_WW	569858	7043589	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165744	30/09/2010	GroundTruth_WW	569898	7043559	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165745	30/09/2010	GroundTruth_WW	569938	7043529	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165746	30/09/2010	GroundTruth_WW	569978	7043498	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10165747	30/09/2010	GroundTruth_WW	570016	7043468	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165748	30/09/2010	GroundTruth_WW	570056	7043437	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Wet	Poor	ForestWhiteSpruce
10165749	30/09/2010	GroundTruth_WW	570094	7043408	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10165750	30/09/2010	GroundTruth_WW	570132	7043377	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10165751	30/09/2010	GroundTruth_WW	570171	7043346	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165752	30/09/2010	GroundTruth_WW	570212	7043315	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10165753	30/09/2010	GroundTruth_WW	570251	7043283	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10165754	30/09/2010	GroundTruth_WW	570291	7043252	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165755	30/09/2010	GroundTruth_WW	570329	7043222	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Good	ForestWhiteSpruce
10165756	30/09/2010	GroundTruth_WW	570370	7043193	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestBlackSpruce
10165757	30/09/2010	GroundTruth_WW	570409	7043160	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestWhiteSpruce
10165758	30/09/2010	GroundTruth_WW	570449	7043131	UTMZ7N_WGS84		Orange	Silt	Moderate	C	50		Excellent	ForestAspen
10165768	29/09/2010	GroundTruth_MD	570451	7045161	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10165769	29/09/2010	GroundTruth_MD	570490	7045128	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestBirch
10165770	29/09/2010	GroundTruth_MD	570529	7045100	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBirch
10165771	29/09/2010	GroundTruth_MD	570568	7045067	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestBirch
10165772	29/09/2010	GroundTruth_MD	570608	7045038	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10165773	29/09/2010	GroundTruth_MD	570649	7045007	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10165774	29/09/2010	GroundTruth_MD	570686	7044975	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10165775	29/09/2010	GroundTruth_MD	570727	7044945	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165776	29/09/2010	GroundTruth_MD	570765	7044911	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165777	29/09/2010	GroundTruth_MD	570805	7044883	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10165778	29/09/2010	GroundTruth_MD	570846	7044852	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165779	29/09/2010	GroundTruth_MD	570884	7044821	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165780	29/09/2010	GroundTruth_MD	570922	7044791	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165781	29/09/2010	GroundTruth_MD	570960	7044760	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10165782	29/09/2010	GroundTruth_MD	571037	7044699	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10165783	29/09/2010	GroundTruth_MD	571000	7044729	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Excellent	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165784	29/09/2010	GroundTruth_MD	571079	7044669	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10165785	29/09/2010	GroundTruth_MD	571116	7044637	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10165786	29/09/2010	GroundTruth_MD	571158	7044606	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestAspen
10165787	29/09/2010	GroundTruth_MD	571199	7044575	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10165788	29/09/2010	GroundTruth_MD	571236	7044545	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165789	29/09/2010	GroundTruth_MD	571277	7044516	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165790	29/09/2010	GroundTruth_MD	571317	7044483	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165791	29/09/2010	GroundTruth_MD	571355	7044452	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165792	29/09/2010	GroundTruth_MD	571394	7044421	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165793	29/09/2010	GroundTruth_MD	571434	7044391	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165794	29/09/2010	GroundTruth_MD	571474	7044362	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165795	29/09/2010	GroundTruth_MD	571515	7044330	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165796	29/09/2010	GroundTruth_MD	571554	7044299	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165797	29/09/2010	GroundTruth_MD	571591	7044269	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10165798	29/09/2010	GroundTruth_MD	571633	7044236	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestAspen
10165804	30/09/2010	GroundTruth_WW	570606	7043007	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	110	Wet	Poor	ForestBlackSpruce
10165805	30/09/2010	GroundTruth_WW	570646	7042975	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165807	03/10/2010	GroundTruth_WW	570932	7043260	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	60	Frozen	Poor	ForestBlackSpruce
10165808	03/10/2010	GroundTruth_WW	570971	7043230	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10165809	03/10/2010	GroundTruth_WW	571010	7043200	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	70	Wet	Good	ForestBlackSpruce
10165810	03/10/2010	GroundTruth_WW	571050	7043168	UTMZ7N_WGS84		BrownDark		Flat	B	110	Wet	Good	ForestBlackSpruce
10165811	03/10/2010	GroundTruth_WW	571090	7043138	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Good	ForestBlackSpruce
10165812	03/10/2010	GroundTruth_WW	571129	7043107	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestBlackSpruce
10165813	03/10/2010	GroundTruth_WW	571168	7043075	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165815	03/10/2010	GroundTruth_WW	571207	7043046	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10165816	03/10/2010	GroundTruth_WW	571247	7043014	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10165817	03/10/2010	GroundTruth_WW	571287	7042983	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10165818	03/10/2010	GroundTruth_WW	571187	7042935	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10165819	03/10/2010	GroundTruth_WW	571148	7042965	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	110	Wet	Poor	ForestBlackSpruce
10165820	03/10/2010	GroundTruth_WW	571107	7042997	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	90	Wet	Poor	ForestBlackSpruce
10165821	03/10/2010	GroundTruth_WW	571067	7043028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165822	03/10/2010	GroundTruth_WW	571029	7043059	UTMZ7N_WGS84		BrownDark		Moderate	B	100	Wet	Poor	ForestBlackSpruce
10165823	03/10/2010	GroundTruth_WW	570989	7043090	UTMZ7N_WGS84		BrownDark	Clay	Flat	B	110	Wet	Poor	ForestBlackSpruce
10165824	03/10/2010	GroundTruth_WW	570949	7043120	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90	Wet	Good	ForestBlackSpruce
10165825	03/10/2010	GroundTruth_WW	570911	7043151	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	100		Good	ForestBlackSpruce
10165826	03/10/2010	GroundTruth_WW	570870	7043182	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Good	ForestBlackSpruce
10165828	03/10/2010	GroundTruth_WW	571163	7042825	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10165829	03/10/2010	GroundTruth_WW	571124	7042856	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	30		Good	ForestAspen
10165830	03/10/2010	GroundTruth_WW	571082	7042887	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Poor	ForestBlackSpruce
10165831	03/10/2010	GroundTruth_WW	571044	7042918	UTMZ7N_WGS84		BrownDark	Sand	Flat	B	100	Wet	Poor	ForestBlackSpruce
10165832	03/10/2010	GroundTruth_WW	571004	7042948	UTMZ7N_WGS84		Orange	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165833	03/10/2010	GroundTruth_WW	570966	7042980	UTMZ7N_WGS84		Orange	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165834	03/10/2010	GroundTruth_WW	570926	7043010	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10165835	03/10/2010	GroundTruth_WW	570887	7043041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165837	03/10/2010	GroundTruth_WW	570847	7043072	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165839	03/10/2010	GroundTruth_WW	570807	7043103	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165842	30/09/2010	GroundTruth_IB	569526	7043979	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Good	ForestBlackSpruce
10165843	30/09/2010	GroundTruth_IB	569565	7043948	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestBlackSpruce
10165844	30/09/2010	GroundTruth_IB	569604	7043918	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	90		Good	ForestBlackSpruce
10165845	30/09/2010	GroundTruth_IB	569644	7043886	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestBlackSpruce
10165846	30/09/2010	GroundTruth_IB	569682	7043857	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Good	ForestBlackSpruce
10165847	30/09/2010	GroundTruth_IB	569721	7043824	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Good	ForestBlackSpruce
10165848	30/09/2010	GroundTruth_IB	569760	7043795	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestBlackSpruce
10165849	30/09/2010	GroundTruth_IB	569801	7043763	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	80		Good	ForestBlackSpruce
10165850	30/09/2010	GroundTruth_IB	569841	7043731	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165851	30/09/2010	GroundTruth_IB	569880	7043702	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165852	30/09/2010	GroundTruth_IB	569920	7043670	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165853	30/09/2010	GroundTruth_IB	569959	7043640	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165854	30/09/2010	GroundTruth_IB	569999	7043609	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165855	30/09/2010	GroundTruth_IB	570039	7043578	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165856	30/09/2010	GroundTruth_IB	570078	7043547	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165857	30/09/2010	GroundTruth_IB	570117	7043517	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165858	30/09/2010	GroundTruth_IB	570157	7043485	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	90		Good	ForestBlackSpruce
10165859	30/09/2010	GroundTruth_IB	570195	7043455	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	100		Good	ForestBlackSpruce
10165860	30/09/2010	GroundTruth_IB	570236	7043424	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165861	30/09/2010	GroundTruth_IB	570275	7043394	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165862	30/09/2010	GroundTruth_IB	570314	7043364	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10165863	30/09/2010	GroundTruth_IB	570352	7043333	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestBlackSpruce
10165864	30/09/2010	GroundTruth_IB	570393	7043300	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10165865	30/09/2010	GroundTruth_IB	570431	7043270	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10165866	30/09/2010	GroundTruth_IB	570471	7043241	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestBlackSpruce
10165867	30/09/2010	GroundTruth_IB	570509	7043209	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10165868	30/09/2010	GroundTruth_IB	570550	7043177	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10165869	30/09/2010	GroundTruth_IB	570590	7043148	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10165870	30/09/2010	GroundTruth_IB	570630	7043116	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10165871	30/09/2010	GroundTruth_IB	570708	7043056	UTMZ7N_WGS84		Yellow	Sand	Moderate	C	110	Wet	Good	ForestBlackSpruce
10165874	02/10/2010	GroundTruth_IB	571174	7043324	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10165875	02/10/2010	GroundTruth_IB	571213	7043295	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestAspen
10165876	02/10/2010	GroundTruth_IB	571253	7043264	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestAspen
10165877	02/10/2010	GroundTruth_IB	571291	7043232	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10165878	02/10/2010	GroundTruth_IB	571330	7043202	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestAspen
10165879	02/10/2010	GroundTruth_IB	571371	7043172	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10165880	02/10/2010	GroundTruth_IB	571411	7043141	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10165881	05/10/2010	GroundTruth_IB	567360	7043644	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10165882	05/10/2010	GroundTruth_IB	567395	7043614	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10165921	30/09/2010	GroundTruth_AN	570114	7043265	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10165922	30/09/2010	GroundTruth_AN	570153	7043236	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165923	30/09/2010	GroundTruth_AN	570191	7043209	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165924	30/09/2010	GroundTruth_AN	570229	7043176	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestAspen
10165925	30/09/2010	GroundTruth_AN	570269	7043144	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165926	30/09/2010	GroundTruth_AN	570309	7043112	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165927	30/09/2010	GroundTruth_AN	570347	7043082	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165929	30/09/2010	GroundTruth_AN	570387	7043052	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestAspen
10165930	30/09/2010	GroundTruth_AN	570429	7043023	UTMZ7N_WGS84		Grey	Silt	Moderate	C	80		Good	ForestBlackSpruce
10165931	30/09/2010	GroundTruth_AN	570465	7042990	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10165932	30/09/2010	GroundTruth_AN	570506	7042957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165933	30/09/2010	GroundTruth_AN	570546	7042928	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165934	30/09/2010	GroundTruth_AN	570584	7042896	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165935	02/10/2010	GroundTruth_AN	571178	7043572	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165936	02/10/2010	GroundTruth_AN	571214	7043545	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165937	02/10/2010	GroundTruth_AN	571258	7043513	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165938	02/10/2010	GroundTruth_AN	571294	7043481	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165939	02/10/2010	GroundTruth_AN	571334	7043449	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165940	02/10/2010	GroundTruth_AN	571374	7043421	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165941	02/10/2010	GroundTruth_AN	571418	7043390	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Excellent	ForestAspen
10165942	02/10/2010	GroundTruth_AN	571453	7043361	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165943	02/10/2010	GroundTruth_AN	571492	7043331	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen
10165944	02/10/2010	GroundTruth_AN	571533	7043301	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165945	02/10/2010	GroundTruth_AN	571570	7043268	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10165946	02/10/2010	GroundTruth_AN	571610	7043237	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10165947	02/10/2010	GroundTruth_AN	571648	7043207	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165948	02/10/2010	GroundTruth_AN	571689	7043172	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165949	02/10/2010	GroundTruth_AN	571733	7043142	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10165950	02/10/2010	GroundTruth_AN	571814	7043088	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50	Frozen	Good	ForestBlackSpruce
10165951	02/10/2010	GroundTruth_AN	571850	7043055	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestBlackSpruce
10165952	02/10/2010	GroundTruth_AN	571887	7043022	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165953	02/10/2010	GroundTruth_AN	571925	7042992	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165954	02/10/2010	GroundTruth_AN	571988	7043069	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165955	02/10/2010	GroundTruth_AN	571948	7043099	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Excellent	ForestBlackSpruce
10165956	02/10/2010	GroundTruth_AN	571910	7043131	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestBlackSpruce
10165957	02/10/2010	GroundTruth_AN	571871	7043163	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165958	02/10/2010	GroundTruth_AN	571832	7043193	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestAspen
10165959	02/10/2010	GroundTruth_AN	571793	7043226	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10165960	02/10/2010	GroundTruth_AN	571713	7043285	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Frozen	Good	ForestBlackSpruce
10165961	02/10/2010	GroundTruth_AN	571674	7043316	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165962	02/10/2010	GroundTruth_AN	571633	7043346	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165963	02/10/2010	GroundTruth_AN	571595	7043378	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165965	03/10/2010	GroundTruth_AN	569031	7043348	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165966	03/10/2010	GroundTruth_AN	569072	7043317	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestAspen
10165967	03/10/2010	GroundTruth_AN	569112	7043288	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165968	03/10/2010	GroundTruth_AN	569151	7043255	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165969	03/10/2010	GroundTruth_AN	569189	7043224	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165970	03/10/2010	GroundTruth_AN	569229	7043194	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165971	03/10/2010	GroundTruth_AN	569269	7043164	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestAspen
10165972	03/10/2010	GroundTruth_AN	569306	7043133	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10165973	03/10/2010	GroundTruth_AN	569346	7043100	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60	Frozen	Good	ForestWhiteSpruce
10165974	03/10/2010	GroundTruth_AN	569385	7043066	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165975	03/10/2010	GroundTruth_AN	569425	7043041	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10165976	03/10/2010	GroundTruth_AN	569467	7043008	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestAspen
10165977	03/10/2010	GroundTruth_AN	569368	7042955	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165978	03/10/2010	GroundTruth_AN	569403	7042928	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165979	03/10/2010	GroundTruth_AN	569442	7042900	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165980	03/10/2010	GroundTruth_AN	569482	7042869	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestAspen
10165981	03/10/2010	GroundTruth_AN	569523	7042836	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165982	03/10/2010	GroundTruth_AN	569559	7042806	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165983	03/10/2010	GroundTruth_AN	569601	7042774	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Good	ForestWhiteSpruce
10165984	03/10/2010	GroundTruth_AN	569640	7042742	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10165985	03/10/2010	GroundTruth_AN	569679	7042708	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestWhiteSpruce
10165986	03/10/2010	GroundTruth_AN	569721	7042679	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestWhiteSpruce
10165987	03/10/2010	GroundTruth_AN	569757	7042649	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestAspen
10165988	03/10/2010	GroundTruth_AN	569823	7042728	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10165989	03/10/2010	GroundTruth_AN	569781	7042758	UTMZ7N_WGS84		Grey	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10165990	03/10/2010	GroundTruth_AN	569741	7042792	UTMZ7N_WGS84		Grey	Sand	Moderate	C	70		Excellent	ForestBlackSpruce
10165991	03/10/2010	GroundTruth_AN	569699	7042819	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165992	03/10/2010	GroundTruth_AN	569663	7042854	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10165993	03/10/2010	GroundTruth_AN	569624	7042886	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen
10165994	03/10/2010	GroundTruth_AN	569584	7042915	UTMZ7N_WGS84		RustyRed	Sand	Steep	C	60		Excellent	ForestAspen
10165995	03/10/2010	GroundTruth_AN	569546	7042947	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165996	03/10/2010	GroundTruth_AN	569505	7042977	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10165997	04/10/2010	GroundTruth_AN	568725	7042953	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165998	04/10/2010	GroundTruth_AN	568761	7042919	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10165999	04/10/2010	GroundTruth_AN	568803	7042890	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10166000	04/10/2010	GroundTruth_AN	568843	7042855	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10166001	05/10/2010	GroundTruth_WW	567603	7043956	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10166002	05/10/2010	GroundTruth_WW	567644	7043925	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestBirch

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10166003	05/10/2010	GroundTruth_WW	567684	7043893	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBirch
10166004	05/10/2010	GroundTruth_WW	567722	7043864	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10166005	05/10/2010	GroundTruth_WW	567762	7043832	UTMZ7N_WGS84		Green	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10166006	05/10/2010	GroundTruth_WW	567802	7043802	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10166007	05/10/2010	GroundTruth_WW	567841	7043770	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10166008	05/10/2010	GroundTruth_WW	567881	7043738	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10166009	05/10/2010	GroundTruth_WW	567919	7043708	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10166010	05/10/2010	GroundTruth_WW	567959	7043680	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10166011	05/10/2010	GroundTruth_WW	567998	7043646	UTMZ7N_WGS84		Orange	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10166012	05/10/2010	GroundTruth_WW	568038	7043616	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestBlackSpruce
10166013	05/10/2010	GroundTruth_WW	568078	7043585	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Good	ForestBlackSpruce
10166014	05/10/2010	GroundTruth_WW	568117	7043554	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Poor	ForestBlackSpruce
10166015	05/10/2010	GroundTruth_WW	568155	7043522	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Poor	ForestBlackSpruce
10166016	05/10/2010	GroundTruth_WW	568194	7043493	UTMZ7N_WGS84		Orange	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10166017	05/10/2010	GroundTruth_WW	568234	7043462	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Good	ForestWhiteSpruce
10166018	05/10/2010	GroundTruth_WW	568272	7043433	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Frozen	Poor	ForestBlackSpruce
10166019	05/10/2010	GroundTruth_WW	568312	7043402	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Frozen	Good	ForestBlackSpruce
10166020	05/10/2010	GroundTruth_WW	568347	7043373	UTMZ7N_WGS84		BrownDark	Silt	Moderate	A	90	Frozen	Poor	ForestBlackSpruce
10166021	05/10/2010	GroundTruth_WW	568389	7043340	UTMZ7N_WGS84		BrownDark	Gravel	Steep	B	80	Frozen	Poor	ForestBlackSpruce
10166022	05/10/2010	GroundTruth_WW	568428	7043309	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Poor	ForestBlackSpruce
10166023	05/10/2010	GroundTruth_WW	568468	7043277	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Wet	Poor	ForestBlackSpruce
10166024	05/10/2010	GroundTruth_WW	568507	7043247	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	60		Good	ForestBlackSpruce
10166025	05/10/2010	GroundTruth_WW	568548	7043216	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	50		Good	ForestWhiteSpruce
10166026	05/10/2010	GroundTruth_WW	568586	7043186	UTMZ7N_WGS84		RustyRed	Silt	Moderate	B	60		Good	ForestWhiteSpruce
10166027	05/10/2010	GroundTruth_WW	568626	7043154	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	40		Good	ForestWhiteSpruce
10166028	05/10/2010	GroundTruth_WW	568666	7043123	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestAspen
10166029	05/10/2010	GroundTruth_WW	568706	7043092	UTMZ7N_WGS84		Orange	Sand	Moderate	C	70		Excellent	ForestAspen
10166031	05/10/2010	GroundTruth_WW	568745	7043061	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestAspen
10173001	04/10/2010	GroundTruth_JM	568964	7043018	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173002	04/10/2010	GroundTruth_JM	569004	7042987	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10173003	04/10/2010	GroundTruth_JM	569043	7042957	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10173004	04/10/2010	GroundTruth_JM	569083	7042925	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Excellent	ForestAspen
10173005	04/10/2010	GroundTruth_JM	569122	7042895	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10173006	04/10/2010	GroundTruth_JM	569161	7042864	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10173007	04/10/2010	GroundTruth_JM	569200	7042832	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10173008	04/10/2010	GroundTruth_JM	569239	7042800	UTMZ7N_WGS84		BrownLight	Silt	Steep	C	60		Good	ForestWhiteSpruce
10173009	04/10/2010	GroundTruth_JM	569279	7042770	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	50		Excellent	ForestAspen
10173010	04/10/2010	GroundTruth_JM	569318	7042737	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10173011	04/10/2010	GroundTruth_JM	569358	7042709	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10173012	04/10/2010	GroundTruth_JM	569398	7042677	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestAspen
10173013	04/10/2010	GroundTruth_JM	569437	7042645	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestAspen
10173014	04/10/2010	GroundTruth_JM	569374	7042567	UTMZ7N_WGS84		Black		Flat	B	50	Wet	Good	ForestBlackSpruce
10173015	04/10/2010	GroundTruth_JM	569337	7042597	UTMZ7N_WGS84		Black		Flat	B	50	Wet	Good	ForestWhiteSpruce
10173016	04/10/2010	GroundTruth_JM	569295	7042627	UTMZ7N_WGS84		BrownLight	Silt	Steep	C	50		Excellent	ForestAspen
10173017	04/10/2010	GroundTruth_JM	569257	7042660	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10173018	04/10/2010	GroundTruth_JM	569216	7042691	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	80		Excellent	ForestWhiteSpruce
10173019	04/10/2010	GroundTruth_JM	569180	7042721	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	70		Excellent	ForestWhiteSpruce
10173020	04/10/2010	GroundTruth_JM	569140	7042751	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60	Wet	Excellent	ForestWhiteSpruce
10173021	04/10/2010	GroundTruth_JM	569102	7042784	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173022	04/10/2010	GroundTruth_JM	569062	7042816	UTMZ7N_WGS84		Grey	Clay	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10173023	04/10/2010	GroundTruth_JM	569022	7042847	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10173024	04/10/2010	GroundTruth_JM	568980	7042877	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10173025	04/10/2010	GroundTruth_JM	568943	7042910	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestWhiteSpruce
10173026	04/10/2010	GroundTruth_JM	568907	7042940	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173027	04/10/2010	GroundTruth_JM	568866	7042971	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	40		Good	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173028	04/10/2010	GroundTruth_JM	568827	7043001	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Excellent	ForestAspen
10173029	04/10/2010	GroundTruth_JM	568787	7043032	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Excellent	ForestAspen
10173031	10/10/2010	GroundTruth_IF	568848	7043112	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
10173032	10/10/2010	GroundTruth_IF	568807	7043142	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestAspen
10173033	10/10/2010	GroundTruth_IF	568767	7043172	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestAspen
10173034	10/10/2010	GroundTruth_IF	568727	7043203	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestAspen
10173035	10/10/2010	GroundTruth_IF	568688	7043233	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestAspen
10173036	10/10/2010	GroundTruth_IF	568648	7043265	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Good	ForestWhiteSpruce
10173037	10/10/2010	GroundTruth_IF	568610	7043295	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70		Poor	ForestWhiteSpruce
10173038	10/10/2010	GroundTruth_IF	568570	7043327	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Good	ForestWhiteSpruce
10173039	10/10/2010	GroundTruth_IF	568531	7043357	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100		Poor	ForestWhiteSpruce
10173040	10/10/2010	GroundTruth_IF	568489	7043390	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80		Good	ForestWhiteSpruce
10173041	10/10/2010	GroundTruth_IF	568451	7043417	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173042	10/10/2010	GroundTruth_IF	568411	7043450	UTMZ7N_WGS84		RustyRed	Sand	Moderate	B	90		Good	ForestWhiteSpruce
10173043	10/10/2010	GroundTruth_IF	568372	7043479	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	70	Wet	Poor	ForestBlackSpruce
10173044	10/10/2010	GroundTruth_IF	568333	7043511	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestAspen
10173045	10/10/2010	GroundTruth_IF	568293	7043543	UTMZ7N_WGS84		RustyOrange	Clay	Moderate	B	60	Wet	Poor	ForestAspen
10173046	10/10/2010	GroundTruth_IF	568255	7043569	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Excellent	ForestAspen
10173047	10/10/2010	GroundTruth_IF	568214	7043602	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	90		Good	ForestBlackSpruce
10173048	10/10/2010	GroundTruth_IF	568175	7043633	UTMZ7N_WGS84		BrownLight	Silt	Moderate	B	110		Poor	ForestBlackSpruce
10173049	10/10/2010	GroundTruth_IF	568137	7043665	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10173050	10/10/2010	GroundTruth_IF	568096	7043696	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173051	10/10/2010	GroundTruth_IF	568055	7043729	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173052	10/10/2010	GroundTruth_IF	568022	7043756	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173053	10/10/2010	GroundTruth_IF	567982	7043787	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173054	10/10/2010	GroundTruth_IF	567942	7043818	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10173055	10/10/2010	GroundTruth_IF	567904	7043849	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen
10173056	10/10/2010	GroundTruth_IF	567864	7043880	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10173057	10/10/2010	GroundTruth_IF	567824	7043911	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10173058	10/10/2010	GroundTruth_IF	567785	7043943	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173059	10/10/2010	GroundTruth_IF	567746	7043974	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173060	10/10/2010	GroundTruth_IF	567706	7044004	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80	Wet	Good	ForestWhiteSpruce
10173061	10/10/2010	GroundTruth_IF	567666	7044033	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173100	10/10/2010	GroundTruth_JM	574101	7039561	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	60	Frozen	Good	ForestBlackSpruce
10173101	10/10/2010	GroundTruth_JM	574051	7039544	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	50	Frozen	Good	ForestBlackSpruce
10173102	10/10/2010	GroundTruth_JM	574005	7039529	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	60	Wet	Good	ForestBlackSpruce
10173103	10/10/2010	GroundTruth_JM	573958	7039513	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10173104	10/10/2010	GroundTruth_JM	573908	7039497	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Good	ForestBlackSpruce
10173105	10/10/2010	GroundTruth_JM	573861	7039481	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Good	ForestBlackSpruce
10173106	10/10/2010	GroundTruth_JM	573814	7039465	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	80		Excellent	ForestBlackSpruce
10173107	10/10/2010	GroundTruth_JM	573765	7039447	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestBlackSpruce
10173108	10/10/2010	GroundTruth_JM	573717	7039435	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	70		Excellent	ForestBlackSpruce
10173109	10/10/2010	GroundTruth_JM	573672	7039418	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestBlackSpruce
10173110	10/10/2010	GroundTruth_JM	573622	7039401	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	50		Excellent	ForestBlackSpruce
10173111	10/10/2010	GroundTruth_JM	573575	7039386	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10173112	10/10/2010	GroundTruth_JM	573529	7039370	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10173113	10/10/2010	GroundTruth_JM	573480	7039354	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestBlackSpruce
10173114	10/10/2010	GroundTruth_JM	573434	7039339	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestWhiteSpruce
10173115	10/10/2010	GroundTruth_JM	573386	7039324	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10173116	10/10/2010	GroundTruth_JM	573338	7039306	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Excellent	ForestWhiteSpruce
10173117	10/10/2010	GroundTruth_JM	573290	7039291	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10173118	10/10/2010	GroundTruth_JM	573245	7039279	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80	Wet	Good	ForestWhiteSpruce
10173119	10/10/2010	GroundTruth_JM	573198	7039259	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Excellent	ForestWhiteSpruce
10173120	10/10/2010	GroundTruth_JM	573151	7039247	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10173121	10/10/2010	GroundTruth_JM	573104	7039230	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	90	Wet	Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173122	10/10/2010	GroundTruth_JM	573053	7039214	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Excellent	ForestWhiteSpruce
10173123	10/10/2010	GroundTruth_JM	573008	7039202	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10173124	10/10/2010	GroundTruth_JM	572959	7039185	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70	Wet	Good	ForestWhiteSpruce
10173125	10/10/2010	GroundTruth_JM	572913	7039173	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	90	Wet	Good	ForestBlackSpruce
10173127	10/10/2010	GroundTruth_JM	572817	7039141	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173128	10/10/2010	GroundTruth_JM	572768	7039126	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173129	10/10/2010	GroundTruth_JM	572721	7039110	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173130	12/10/2010	GroundTruth_JM	571172	7039030	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10173131	12/10/2010	GroundTruth_JM	571221	7039045	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173132	12/10/2010	GroundTruth_JM	571269	7039060	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Excellent	ForestWhiteSpruce
10173133	12/10/2010	GroundTruth_JM	571317	7039077	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173134	12/10/2010	GroundTruth_JM	571365	7039093	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10173135	12/10/2010	GroundTruth_JM	571411	7039108	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestWhiteSpruce
10173136	12/10/2010	GroundTruth_JM	571461	7039124	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Excellent	ForestWhiteSpruce
10173146	12/10/2010	GroundTruth_JM	571936	7039277	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173147	12/10/2010	GroundTruth_JM	571983	7039291	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	90	Wet	Good	ForestWhiteSpruce
10173148	12/10/2010	GroundTruth_JM	572031	7039307	UTMZ7N_WGS84		BrownDark	Clay	Moderate	C	50	Wet	Good	ForestWhiteSpruce
10173149	01/10/2010	GroundTruth_IB	570757	7045554	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173150	01/10/2010	GroundTruth_IB	570795	7045523	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173151	01/10/2010	GroundTruth_IB	570835	7045493	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Good	ForestBlackSpruce
10173152	01/10/2010	GroundTruth_IB	570875	7045462	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	90		Good	ForestBlackSpruce
10173153	01/10/2010	GroundTruth_IB	570953	7045401	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70	Wet	Good	ForestBlackSpruce
10173154	01/10/2010	GroundTruth_IB	570991	7045371	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173155	01/10/2010	GroundTruth_IB	571031	7045341	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10173156	01/10/2010	GroundTruth_IB	571071	7045309	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173157	01/10/2010	GroundTruth_IB	571112	7045277	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	70		Good	ForestBlackSpruce
10173158	01/10/2010	GroundTruth_IB	571151	7045247	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	80		Excellent	ForestBlackSpruce
10173159	01/10/2010	GroundTruth_IB	571192	7045217	UTMZ7N_WGS84		RustyRed	Sand	Flat	C	60		Good	ForestBlackSpruce
10173160	01/10/2010	GroundTruth_IB	571230	7045186	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173161	01/10/2010	GroundTruth_IB	571268	7045154	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173162	01/10/2010	GroundTruth_IB	571308	7045125	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Good	ForestBlackSpruce
10173163	01/10/2010	GroundTruth_IB	571348	7045092	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10173164	01/10/2010	GroundTruth_IB	571386	7045064	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173165	01/10/2010	GroundTruth_IB	571427	7045031	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestBlackSpruce
10173166	01/10/2010	GroundTruth_IB	571466	7045002	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10173167	01/10/2010	GroundTruth_IB	571506	7044968	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10173168	01/10/2010	GroundTruth_IB	571544	7044938	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100	Wet	Good	ForestBlackSpruce
10173169	01/10/2010	GroundTruth_IB	571584	7044908	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173170	01/10/2010	GroundTruth_IB	571625	7044879	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90		Poor	ForestBlackSpruce
10173171	01/10/2010	GroundTruth_IB	571664	7044846	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestBlackSpruce
10173173	01/10/2010	GroundTruth_IB	571702	7044816	UTMZ7N_WGS84		Grey	Silt	Moderate	B	100		Good	ForestBlackSpruce
10173174	02/10/2010	GroundTruth_IB	571867	7042911	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	70	Frozen	Poor	ForestBlackSpruce
10173175	02/10/2010	GroundTruth_IB	571828	7042941	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	80	Frozen	Poor	ForestBlackSpruce
10173176	02/10/2010	GroundTruth_IB	571786	7042973	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173177	02/10/2010	GroundTruth_IB	571749	7043003	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173178	02/10/2010	GroundTruth_IB	571709	7043034	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173179	02/10/2010	GroundTruth_IB	571671	7043065	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestBlackSpruce
10173180	02/10/2010	GroundTruth_IB	571631	7043096	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173181	02/10/2010	GroundTruth_IB	571590	7043127	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173182	02/10/2010	GroundTruth_IB	571551	7043158	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Poor	ForestBlackSpruce
10173183	02/10/2010	GroundTruth_IB	571511	7043189	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10173184	02/10/2010	GroundTruth_IB	571472	7043219	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestAspen
10173185	02/10/2010	GroundTruth_IB	571433	7043251	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10173186	02/10/2010	GroundTruth_IB	571394	7043281	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10173187	02/10/2010	GroundTruth_IB	571352	7043312	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173188	02/10/2010	GroundTruth_IB	571314	7043344	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestAspen
10173189	02/10/2010	GroundTruth_IB	571275	7043373	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
10173190	02/10/2010	GroundTruth_IB	571234	7043405	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173191	02/10/2010	GroundTruth_IB	571195	7043436	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173192	02/10/2010	GroundTruth_IB	571157	7043466	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173193	02/10/2010	GroundTruth_IB	571116	7043498	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173194	04/10/2010	GroundTruth_DB	568603	7042796	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10173195	04/10/2010	GroundTruth_DB	568641	7042766	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestAspen
10173196	04/10/2010	GroundTruth_DB	568681	7042735	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestAspen
10173197	04/10/2010	GroundTruth_DB	568717	7042699	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestAspen
10173198	04/10/2010	GroundTruth_DB	568755	7042666	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestAspen
10173199	04/10/2010	GroundTruth_DB	568797	7042637	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestAspen
10173200	04/10/2010	GroundTruth_DB	568834	7042608	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestBlackSpruce
10173201	04/10/2010	GroundTruth_DB	568876	7042578	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestAspen
10173202	04/10/2010	GroundTruth_DB	568913	7042543	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestAspen
10173203	04/10/2010	GroundTruth_DB	568954	7042515	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10173204	04/10/2010	GroundTruth_DB	568991	7042484	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestAspen
10173205	04/10/2010	GroundTruth_DB	568929	7042404	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBlackSpruce
10173206	04/10/2010	GroundTruth_DB	568888	7042437	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestAspen
10173207	04/10/2010	GroundTruth_DB	568852	7042465	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173208	04/10/2010	GroundTruth_DB	568812	7042498	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173209	07/10/2010	GroundTruth_DB	568994	7043378	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173210	07/10/2010	GroundTruth_DB	568953	7043409	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Excellent	ForestBlackSpruce
10173211	07/10/2010	GroundTruth_DB	568915	7043440	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173212	07/10/2010	GroundTruth_DB	568876	7043471	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173213	07/10/2010	GroundTruth_DB	568836	7043502	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173214	07/10/2010	GroundTruth_DB	568797	7043531	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173215	07/10/2010	GroundTruth_DB	568757	7043562	UTMZ7N_WGS84		Black	Clay	Moderate	B	50		Good	ForestBlackSpruce
10173216	07/10/2010	GroundTruth_DB	568717	7043592	UTMZ7N_WGS84		Black	Clay	Moderate	B	30		Good	ForestBlackSpruce
10173217	07/10/2010	GroundTruth_DB	568676	7043623	UTMZ7N_WGS84		BrownDark	Clay	Moderate	B	80		Good	ForestBlackSpruce
10173218	07/10/2010	GroundTruth_DB	568639	7043656	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10173219	07/10/2010	GroundTruth_DB	568597	7043684	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10173220	07/10/2010	GroundTruth_DB	568556	7043714	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173221	07/10/2010	GroundTruth_DB	568518	7043745	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173222	07/10/2010	GroundTruth_DB	568478	7043776	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173223	07/10/2010	GroundTruth_DB	568439	7043806	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173224	07/10/2010	GroundTruth_DB	568402	7043835	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	80		Good	ForestBlackSpruce
10173225	07/10/2010	GroundTruth_DB	568362	7043866	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173226	07/10/2010	GroundTruth_DB	568323	7043898	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	50		Good	ForestBlackSpruce
10173227	07/10/2010	GroundTruth_DB	568282	7043930	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	40		Good	ForestBlackSpruce
10173228	07/10/2010	GroundTruth_DB	568244	7043960	UTMZ7N_WGS84		BrownDark	Sand	Moderate	B	70		Good	ForestBlackSpruce
10173229	07/10/2010	GroundTruth_DB	568204	7043993	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173230	07/10/2010	GroundTruth_DB	568166	7044022	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
10173231	07/10/2010	GroundTruth_DB	568126	7044054	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
10173243	02/10/2010	GroundTruth_IB	571078	7043529	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10173245	02/10/2010	GroundTruth_IB	571054	7043417	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173246	02/10/2010	GroundTruth_IB	571096	7043388	UTMZ7N_WGS84		RustyOrange	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
10173247	02/10/2010	GroundTruth_IB	571135	7043357	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173249	03/10/2010	GroundTruth_GD	569541	7043587	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173250	03/10/2010	GroundTruth_GD	569500	7043618	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Good	ForestWhiteSpruce
10173251	03/10/2010	GroundTruth_GD	569459	7043649	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10173253	03/10/2010	GroundTruth_GD	569419	7043680	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestWhiteSpruce
10173254	03/10/2010	GroundTruth_GD	569383	7043711	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Excellent	ForestWhiteSpruce
10173256	03/10/2010	GroundTruth_GD	569342	7043740	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10173257	03/10/2010	GroundTruth_GD	569279	7043665	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173258	03/10/2010	GroundTruth_GD	569217	7043585	UTM27N_WGS84		BrownDark		Flat	B	40		Good	ForestBlackSpruce
10173259	03/10/2010	GroundTruth_GD	569255	7043554	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173260	03/10/2010	GroundTruth_GD	569297	7043522	UTM27N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10173261	03/10/2010	GroundTruth_GD	569336	7043492	UTM27N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10173262	03/10/2010	GroundTruth_GD	569374	7043461	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173263	03/10/2010	GroundTruth_GD	569417	7043430	UTM27N_WGS84		BrownDark		Moderate	C	40		Good	ForestWhiteSpruce
10173264	03/10/2010	GroundTruth_GD	569454	7043398	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173265	03/10/2010	GroundTruth_GD	569495	7043367	UTM27N_WGS84		BrownDark		Moderate	C	90		Good	ForestWhiteSpruce
10173266	03/10/2010	GroundTruth_GD	569531	7043338	UTM27N_WGS84		BrownDark	Gravel	Moderate	C	50		Good	ForestWhiteSpruce
10173267	03/10/2010	GroundTruth_GD	569574	7043305	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173268	03/10/2010	GroundTruth_GD	569614	7043277	UTM27N_WGS84		BrownDark		Moderate	C	60		Excellent	ForestWhiteSpruce
10173269	03/10/2010	GroundTruth_GD	569673	7043355	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173270	03/10/2010	GroundTruth_GD	569632	7043386	UTM27N_WGS84		Orange		Moderate	C	60		Excellent	ForestWhiteSpruce
10173271	03/10/2010	GroundTruth_GD	569594	7043418	UTM27N_WGS84		Orange		Moderate	C	80		Excellent	ForestWhiteSpruce
10173272	03/10/2010	GroundTruth_GD	569558	7043447	UTM27N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10173273	03/10/2010	GroundTruth_GD	569514	7043477	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173274	03/10/2010	GroundTruth_GD	569475	7043509	UTM27N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestWhiteSpruce
10173275	03/10/2010	GroundTruth_GD	569442	7043543	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173276	03/10/2010	GroundTruth_GD	569397	7043571	UTM27N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10173277	03/10/2010	GroundTruth_GD	569360	7043602	UTM27N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10173278	03/10/2010	GroundTruth_GD	569320	7043632	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173279	05/10/2010	GroundTruth_GD	567543	7043877	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestAspen
10173280	05/10/2010	GroundTruth_GD	567583	7043846	UTM27N_WGS84		BrownDark		Moderate	C	50		Good	ForestAspen
10173281	05/10/2010	GroundTruth_GD	567623	7043814	UTM27N_WGS84		BrownDark		Moderate	C	60		Good	ForestAspen
10173282	04/10/2010	GroundTruth_AN	568879	7042826	UTM27N_WGS84		Grey	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173283	04/10/2010	GroundTruth_AN	568920	7042797	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173284	04/10/2010	GroundTruth_AN	568963	7042761	UTM27N_WGS84		Black	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10173285	04/10/2010	GroundTruth_AN	568999	7042733	UTM27N_WGS84		Black	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173286	04/10/2010	GroundTruth_AN	569038	7042703	UTM27N_WGS84		Black	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173287	04/10/2010	GroundTruth_AN	569080	7042669	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173288	04/10/2010	GroundTruth_AN	569117	7042640	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10173289	04/10/2010	GroundTruth_AN	569154	7042607	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
10173290	04/10/2010	GroundTruth_AN	569194	7042580	UTM27N_WGS84		Black	Sand	Flat	C	60	Frozen	Poor	ForestBlackSpruce
10173291	04/10/2010	GroundTruth_AN	569093	7042529	UTM27N_WGS84		BrownDark	Sand	Steep	C	60		Excellent	ForestWhiteSpruce
10173292	13/10/2010	GroundTruth_AN	569545	7044088	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBirch
10173293	13/10/2010	GroundTruth_AN	569507	7044119	UTM27N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10173294	13/10/2010	GroundTruth_AN	569468	7044149	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173295	13/10/2010	GroundTruth_AN	569427	7044179	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173296	13/10/2010	GroundTruth_AN	569388	7044210	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173297	13/10/2010	GroundTruth_AN	569349	7044241	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10173298	13/10/2010	GroundTruth_AN	569309	7044271	UTM27N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestBlackSpruce
10173299	13/10/2010	GroundTruth_AN	569269	7044302	UTM27N_WGS84		BrownDark	Sand	Moderate	C	50		Excellent	ForestBlackSpruce
10173300	13/10/2010	GroundTruth_AN	569235	7044332	UTM27N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
10173301	13/10/2010	GroundTruth_AN	569194	7044362	UTM27N_WGS84		Black	Sand	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10173302	13/10/2010	GroundTruth_AN	569156	7044392	UTM27N_WGS84		Black	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10173303	13/10/2010	GroundTruth_AN	569115	7044425	UTM27N_WGS84		Black	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10173304	13/10/2010	GroundTruth_AN	569076	7044456	UTM27N_WGS84		Black	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10173305	13/10/2010	GroundTruth_AN	569035	7044484	UTM27N_WGS84		Black	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10173306	13/10/2010	GroundTruth_AN	568995	7044519	UTM27N_WGS84		Black	Sand	Moderate	B	50	Frozen	Good	ForestBlackSpruce
10173307	13/10/2010	GroundTruth_AN	568957	7044547	UTM27N_WGS84		Black	Sand	Moderate	B	60	Frozen	Good	ForestBlackSpruce
10173308	13/10/2010	GroundTruth_AN	568878	7044610	UTM27N_WGS84		BrownDark	Sand	Steep	C	60		Good	DrainageBrush
10173309	13/10/2010	GroundTruth_AN	568840	7044641	UTM27N_WGS84		BrownDark	Silt	Moderate	C	90		Good	ForestWhiteSpruce
10173310	13/10/2010	GroundTruth_AN	568800	7044671	UTM27N_WGS84		BrownDark	Silt	Moderate	C	90		Good	ForestWhiteSpruce
10173311	13/10/2010	GroundTruth_AN	568760	7044702	UTM27N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10173312	13/10/2010	GroundTruth_AN	568721	7044733	UTM27N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173313	13/10/2010	GroundTruth_AN	568679	7044764	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173314	13/10/2010	GroundTruth_AN	568639	7044793	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestWhiteSpruce
10173315	13/10/2010	GroundTruth_AN	568602	7044827	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Frozen	Poor	ForestMixed
10173316	13/10/2010	GroundTruth_AN	568563	7044856	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Frozen	Poor	ForestMixed
10173317	13/10/2010	GroundTruth_AN	568485	7044917	UTMZ7N_WGS84		Black	Clay	Moderate	B	50	Frozen	Poor	ForestBlackSpruce
10173350	04/10/2010	GroundTruth_MD	569261	7042912	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173351	04/10/2010	GroundTruth_MD	569301	7042880	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	30		Good	ForestAspen
10173352	04/10/2010	GroundTruth_MD	569340	7042850	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173353	04/10/2010	GroundTruth_MD	569380	7042819	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10173354	04/10/2010	GroundTruth_MD	569420	7042787	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173355	04/10/2010	GroundTruth_MD	569458	7042756	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestAspen
10173356	04/10/2010	GroundTruth_MD	569499	7042727	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10173358	04/10/2010	GroundTruth_MD	569540	7042694	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10173359	04/10/2010	GroundTruth_MD	569579	7042664	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173360	04/10/2010	GroundTruth_MD	569616	7042633	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestAspen
10173361	04/10/2010	GroundTruth_MD	569655	7042604	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	40		Good	ForestWhiteSpruce
10173362	04/10/2010	GroundTruth_MD	569694	7042573	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBlackSpruce
10173363	05/10/2010	GroundTruth_TR	568563	7042827	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Excellent	ForestAspen
10173364	05/10/2010	GroundTruth_TR	568601	7042797	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	60		Good	ForestWhiteSpruce
10173365	12/10/2010	GroundTruth_TR	569341	7043741	UTMZ7N_WGS84		RustyOrange	Sand	Flat	C	60		Excellent	ForestWhiteSpruce
10173366	12/10/2010	GroundTruth_TR	569302	7043772	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	40		Good	ForestWhiteSpruce
10173367	12/10/2010	GroundTruth_TR	569262	7043802	UTMZ7N_WGS84		BrownDark	Sand	Flat	C	50		Excellent	ForestWhiteSpruce
10173368	12/10/2010	GroundTruth_TR	569223	7043834	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10173379	05/10/2010	GroundTruth_GD	567660	7043782	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestAspen
10173380	05/10/2010	GroundTruth_GD	567702	7043752	UTMZ7N_WGS84		Blue		Moderate	C	110		Excellent	ForestAspen
10173381	05/10/2010	GroundTruth_GD	567740	7043720	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestAspen
10173382	05/10/2010	GroundTruth_GD	567780	7043690	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Excellent	ForestAspen
10173383	05/10/2010	GroundTruth_GD	567819	7043660	UTMZ7N_WGS84		BrownDark		Moderate	C	110		Good	ForestAspen
10173384	05/10/2010	GroundTruth_GD	567858	7043628	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestAspen
10173385	05/10/2010	GroundTruth_GD	567898	7043597	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Excellent	ForestAspen
10173386	05/10/2010	GroundTruth_GD	567936	7043565	UTMZ7N_WGS84		BrownDark		Moderate	C	100		Good	ForestAspen
10173387	05/10/2010	GroundTruth_GD	567977	7043534	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10173388	05/10/2010	GroundTruth_GD	568015	7043507	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Good	ForestWhiteSpruce
10173389	05/10/2010	GroundTruth_GD	568056	7043473	UTMZ7N_WGS84		Yellow		Moderate	C	100		Excellent	ForestWhiteSpruce
10173390	05/10/2010	GroundTruth_GD	568094	7043445	UTMZ7N_WGS84		Grey		Moderate	C	60		Good	ForestWhiteSpruce
10173391	05/10/2010	GroundTruth_GD	568135	7043413	UTMZ7N_WGS84		Grey		Moderate	C	60		Good	ForestBlackSpruce
10173392	05/10/2010	GroundTruth_GD	568170	7043384	UTMZ7N_WGS84		BrownDark		Moderate	B	100		Good	ForestBlackSpruce
10173393	05/10/2010	GroundTruth_GD	568288	7043291	UTMZ7N_WGS84		BrownDark		Moderate	B	80		Poor	ForestBlackSpruce
10173394	05/10/2010	GroundTruth_GD	568328	7043261	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	30		Poor	ForestBlackSpruce
10173395	05/10/2010	GroundTruth_GD	568368	7043228	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Poor	ForestWhiteSpruce
10173396	05/10/2010	GroundTruth_GD	568407	7043198	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10173397	05/10/2010	GroundTruth_GD	568446	7043169	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10173398	05/10/2010	GroundTruth_GD	568487	7043135	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestWhiteSpruce
10173399	05/10/2010	GroundTruth_GD	568527	7043104	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	50		Good	ForestWhiteSpruce
10173400	05/10/2010	GroundTruth_GD	568564	7043072	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	B	40		Good	ForestWhiteSpruce
10173401	05/10/2010	GroundTruth_GD	568606	7043044	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Excellent	ForestAspen
10173402	05/10/2010	GroundTruth_GD	568645	7043014	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Excellent	ForestAspen
10173404	05/10/2010	GroundTruth_GD	568684	7042982	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestAspen
10173405	07/10/2010	GroundTruth_GD	573699	7040796	UTMZ7N_WGS84		BrownDark		Moderate	B	60		Good	ForestWhiteSpruce
10173406	07/10/2010	GroundTruth_GD	573653	7040780	UTMZ7N_WGS84		BrownDark		Moderate	B	40		Good	ForestWhiteSpruce
10173407	07/10/2010	GroundTruth_GD	573604	7040764	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce
10173408	07/10/2010	GroundTruth_GD	573556	7040748	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestWhiteSpruce
10173409	07/10/2010	GroundTruth_GD	573508	7040733	UTMZ7N_WGS84		BrownDark		Moderate	C	70		Excellent	ForestWhiteSpruce
10173410	07/10/2010	GroundTruth_GD	573461	7040719	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10173411	07/10/2010	GroundTruth_GD	573413	7040700	UTMZ7N_WGS84		BrownDark		Moderate	C	60		Good	ForestWhiteSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173412	07/10/2010	GroundTruth_GD	573364	7040684	UTMZ7N_WGS84		BrownDark		Moderate	C	90		Good	ForestWhiteSpruce
10173413	07/10/2010	GroundTruth_GD	573319	7040671	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestWhiteSpruce
10173414	07/10/2010	GroundTruth_GD	573271	7040655	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestBlackSpruce
10173415	07/10/2010	GroundTruth_GD	573224	7040639	UTMZ7N_WGS84		BrownDark		Moderate	C	110		Good	ForestBlackSpruce
10173416	07/10/2010	GroundTruth_GD	573178	7040624	UTMZ7N_WGS84		BrownDark		Moderate	C	110		Good	ForestBlackSpruce
10173417	05/10/2010	GroundTruth_IB	567471	7043552	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestAspen
10173418	05/10/2010	GroundTruth_IB	567512	7043522	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestAspen
10173419	05/10/2010	GroundTruth_IB	567554	7043489	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestAspen
10173420	05/10/2010	GroundTruth_IB	567591	7043458	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Good	ForestAspen
10173421	05/10/2010	GroundTruth_IB	567435	7043581	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173422	05/10/2010	GroundTruth_IB	567630	7043429	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	60		Good	ForestAspen
10173423	05/10/2010	GroundTruth_IB	567669	7043398	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10173424	05/10/2010	GroundTruth_IB	567711	7043365	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	80		Good	ForestWhiteSpruce
10173425	05/10/2010	GroundTruth_IB	567748	7043336	UTMZ7N_WGS84		Grey	Sand	Moderate	C	90		Good	ForestWhiteSpruce
10173426	05/10/2010	GroundTruth_IB	567787	7043303	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173427	05/10/2010	GroundTruth_IB	567829	7043272	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173428	05/10/2010	GroundTruth_IB	567865	7043243	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10173429	05/10/2010	GroundTruth_IB	567907	7043211	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10173430	05/10/2010	GroundTruth_IB	567946	7043180	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110	Wet	Poor	ForestWhiteSpruce
10173431	05/10/2010	GroundTruth_IB	567984	7043149	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90	Wet	Poor	ForestWhiteSpruce
10173432	05/10/2010	GroundTruth_IB	568024	7043119	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Frozen	Poor	ForestWhiteSpruce
10173433	05/10/2010	GroundTruth_IB	568063	7043089	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	100	Frozen	Poor	ForestWhiteSpruce
10173434	05/10/2010	GroundTruth_IB	568103	7043056	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Poor	ForestWhiteSpruce
10173435	05/10/2010	GroundTruth_IB	568142	7043027	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	70	Frozen	Poor	ForestWhiteSpruce
10173436	05/10/2010	GroundTruth_IB	568183	7042993	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	90	Frozen	Good	ForestWhiteSpruce
10173437	05/10/2010	GroundTruth_IB	568223	7042963	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	100	Frozen	Poor	ForestWhiteSpruce
10173438	05/10/2010	GroundTruth_IB	568261	7042930	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	70	Frozen	Poor	ForestWhiteSpruce
10173439	05/10/2010	GroundTruth_IB	568340	7042870	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
10173440	05/10/2010	GroundTruth_IB	568378	7042838	UTMZ7N_WGS84		RustyRed	Silt	Steep	C	80		Good	ForestWhiteSpruce
10173441	05/10/2010	GroundTruth_IB	568422	7042809	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestAspen
10173442	05/10/2010	GroundTruth_IB	568462	7042778	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Poor	ForestAspen
10173443	05/10/2010	GroundTruth_IB	568502	7042742	UTMZ7N_WGS84		BrownLight	Silt	Moderate	C	70		Good	ForestWhiteSpruce
10173444	05/10/2010	GroundTruth_IB	568539	7042719	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10173450	02/10/2010	GroundTruth_MD	571363	7043813	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10173451	02/10/2010	GroundTruth_MD	571402	7043781	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestBirch
10173452	02/10/2010	GroundTruth_MD	571442	7043750	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestBirch
10173453	02/10/2010	GroundTruth_MD	571479	7043718	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestAspen
10173454	02/10/2010	GroundTruth_MD	571520	7043689	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173455	02/10/2010	GroundTruth_MD	571559	7043657	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173456	02/10/2010	GroundTruth_MD	571590	7043633	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestAspen
10173457	02/10/2010	GroundTruth_MD	571638	7043595	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173458	02/10/2010	GroundTruth_MD	571677	7043565	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173459	02/10/2010	GroundTruth_MD	571716	7043536	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173460	02/10/2010	GroundTruth_MD	571757	7043504	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173461	02/10/2010	GroundTruth_MD	571798	7043473	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10173462	02/10/2010	GroundTruth_MD	571834	7043442	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Excellent	ForestWhiteSpruce
10173463	02/10/2010	GroundTruth_MD	571875	7043411	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	60		Good	ForestWhiteSpruce
10173464	02/10/2010	GroundTruth_MD	571915	7043381	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10173465	02/10/2010	GroundTruth_MD	571954	7043349	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173466	02/10/2010	GroundTruth_MD	571992	7043318	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	110		Good	ForestWhiteSpruce
10173467	02/10/2010	GroundTruth_MD	572031	7043288	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	110		Poor	ForestBlackSpruce
10173468	02/10/2010	GroundTruth_MD	572072	7043258	UTMZ7N_WGS84		BrownDark	Silt	Flat	B	110		Poor	ForestBlackSpruce
10173469	02/10/2010	GroundTruth_MD	572111	7043227	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	110		Poor	ForestBlackSpruce
10173470	02/10/2010	GroundTruth_MD	572174	7043306	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce
10173471	02/10/2010	GroundTruth_MD	572135	7043337	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	100		Good	ForestBlackSpruce

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
10173472	02/10/2010	GroundTruth_MD	572095	7043366	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173473	02/10/2010	GroundTruth_MD	572056	7043398	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10173474	02/10/2010	GroundTruth_MD	572016	7043429	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173475	02/10/2010	GroundTruth_MD	571976	7043459	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	90		Good	ForestAspen
10173477	02/10/2010	GroundTruth_MD	571939	7043490	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10173478	02/10/2010	GroundTruth_MD	571900	7043521	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173479	02/10/2010	GroundTruth_MD	571858	7043553	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	80		Good	ForestWhiteSpruce
10173480	02/10/2010	GroundTruth_MD	571818	7043583	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	20		Good	ForestWhiteSpruce
10173481	04/10/2010	GroundTruth_MD	569322	7042984	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestWhiteSpruce
10173482	04/10/2010	GroundTruth_MD	569282	7043015	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestWhiteSpruce
10173483	04/10/2010	GroundTruth_MD	569245	7043049	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10173484	04/10/2010	GroundTruth_MD	569206	7043079	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestWhiteSpruce
10173485	04/10/2010	GroundTruth_MD	569166	7043110	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173486	04/10/2010	GroundTruth_MD	569128	7043142	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	30		Good	ForestAspen
10173487	04/10/2010	GroundTruth_MD	569087	7043173	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestAspen
10173488	04/10/2010	GroundTruth_MD	569049	7043205	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173489	04/10/2010	GroundTruth_MD	569011	7043236	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173490	04/10/2010	GroundTruth_MD	568971	7043271	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173491	04/10/2010	GroundTruth_MD	568912	7043190	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	40		Good	ForestAspen
10173492	04/10/2010	GroundTruth_MD	568946	7043159	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10173493	04/10/2010	GroundTruth_MD	568987	7043126	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Good	ForestAspen
10173494	04/10/2010	GroundTruth_MD	569024	7043094	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Good	ForestAspen
10173495	04/10/2010	GroundTruth_MD	569065	7043066	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173496	04/10/2010	GroundTruth_MD	569104	7043034	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	50		Good	ForestAspen
10173497	04/10/2010	GroundTruth_MD	569143	7043003	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	70		Excellent	ForestAspen
10173498	04/10/2010	GroundTruth_MD	569183	7042972	UTMZ7N_WGS84		BrownLight	Sand	Steep	C	60		Good	ForestAspen
10173499	04/10/2010	GroundTruth_MD	569223	7042942	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Good	ForestWhiteSpruce
1084001	26/05/2010	GroundTruth_GD	570182	7042838	UTMZ7N_WGS84		BrownDark		Moderate	C	40	Frozen	Good	ForestWhiteSpruce
1084002	26/05/2010	GroundTruth_GD	570143	7042868	UTMZ7N_WGS84		BrownDark		Moderate	C	40	Frozen	Good	ForestWhiteSpruce
1084003	26/05/2010	GroundTruth_GD	570106	7042899	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Excellent	ForestWhiteSpruce
1084004	26/05/2010	GroundTruth_GD	570066	7042935	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestWhiteSpruce
1084174	26/05/2010	GroundTruth_MF	569698	7044224	UTMZ7N_WGS84		BrownDark		Flat	B	20	Frozen	Poor	ForestBlackSpruce
1084175	26/05/2010	GroundTruth_MF	569735	7044195	UTMZ7N_WGS84		Orange		Flat	C	40		Excellent	ForestBlackSpruce
1084176	26/05/2010	GroundTruth_RE	569775	7044155	UTMZ7N_WGS84		BrownDark		Flat	B	30	Frozen	Good	ForestBlackSpruce
1084177	26/05/2010	GroundTruth_RE	569813	7044127	UTMZ7N_WGS84		RustyRed	Silt	Flat	C	30		Excellent	ForestBlackSpruce
1084178	26/05/2010	GroundTruth_RE	569853	7044095	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestBlackSpruce
1084179	26/05/2010	GroundTruth_MF	569895	7044062	UTMZ7N_WGS84		BrownDark		Moderate	B	60	Wet	Good	ForestBirch
1084180	26/05/2010	GroundTruth_RE	569930	7044031	UTMZ7N_WGS84		BrownDark	Silt	Steep	B	40		Good	ForestWhiteSpruce
1084182	26/05/2010	GroundTruth_RE	570058	7044185	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	40		Good	ForestWhiteSpruce
1084183	26/05/2010	GroundTruth_RE	570020	7044216	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	40		Good	ForestWhiteSpruce
1084184	26/05/2010	GroundTruth_RE	569983	7044248	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	30		Excellent	ForestWhiteSpruce
1084185	26/05/2010	GroundTruth_RE	569943	7044282	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	40		Excellent	ForestWhiteSpruce
1084186	26/05/2010	GroundTruth_RE	569904	7044315	UTMZ7N_WGS84		RustyRed	Gravel	Moderate	C	20		Excellent	ForestWhiteSpruce
1084187	26/05/2010	GroundTruth_RE	569866	7044345	UTMZ7N_WGS84		BrownDark		Flat	C	30	Frozen	Excellent	ForestWhiteSpruce
1084188	26/05/2010	GroundTruth_RE	569830	7044376	UTMZ7N_WGS84		RustyRed		Flat	C	20	Frozen	Excellent	ForestWhiteSpruce
1084189	26/05/2010	GroundTruth_MF	569800	7043879	UTMZ7N_WGS84		BrownDark		Moderate	C	40	Wet	Excellent	ForestWhiteSpruce
1084190	26/05/2010	GroundTruth_MF	569763	7043909	UTMZ7N_WGS84		BrownDark	Silt	Flat	C	40		Good	ForestWhiteSpruce
1084191	26/05/2010	GroundTruth_MF	569728	7043939	UTMZ7N_WGS84		BrownDark		Flat	B	30	Frozen	Good	ForestWhiteSpruce
1084192	26/05/2010	GroundTruth_MF	569687	7043972	UTMZ7N_WGS84		BrownLight	Sand	Flat	C	40		Excellent	ForestWhiteSpruce
1084193	26/05/2010	GroundTruth_MF	569646	7044006	UTMZ7N_WGS84		BrownDark		Flat	B	50	Frozen	Good	ForestWhiteSpruce
1084194	26/05/2010	GroundTruth_MF	569611	7044036	UTMZ7N_WGS84		RustyRed		Flat	C	50		Excellent	ForestBirch
1084195	26/05/2010	GroundTruth_MF	569573	7044069	UTMZ7N_WGS84		BrownDark		Flat	C	40		Excellent	ForestBirch
1084251	26/05/2010	GroundTruth_GD	569606	7043320	UTMZ7N_WGS84		BrownLight	Sand	Moderate	C	60		Excellent	ForestAspen
1084252	26/05/2010	GroundTruth_GD	569641	7043285	UTMZ7N_WGS84		BrownLight		Moderate	C	60		Good	ForestWhiteSpruce
1084253	26/05/2010	GroundTruth_GD	569683	7043255	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen

Appendix C. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	SampleType	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
1084254	26/05/2010	GroundTruth_GD	569722	7043225	UTMZ7N_WGS84		Orange	Sand	Moderate	C	80		Excellent	ForestAspen
1084255	26/05/2010	GroundTruth_GD	569760	7043192	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestAspen
1084256	26/05/2010	GroundTruth_GD	569798	7043160	UTMZ7N_WGS84		BrownLight		Moderate	C	90		Excellent	ForestAspen
1084257	26/05/2010	GroundTruth_GD	569837	7043125	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	40		Good	ForestAspen
1084258	26/05/2010	GroundTruth_GD	569871	7043096	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestAspen
1084259	26/05/2010	GroundTruth_GD	569913	7043061	UTMZ7N_WGS84		Grey	Silt	Moderate	C	70	Frozen	Good	ForestAspen
1084260	26/05/2010	GroundTruth_GD	569950	7043029	UTMZ7N_WGS84		BrownDark		Moderate	C	80		Good	ForestAspen
1084261	26/05/2010	GroundTruth_GD	569990	7042998	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Good	ForestAspen
1084262	26/05/2010	GroundTruth_GD	570025	7042965	UTMZ7N_WGS84		BrownDark		Moderate	C	50		Excellent	ForestWhiteSpruce
1084266	26/05/2010	GroundTruth_WW	569773	7043439	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	60		Excellent	ForestAspen
1084267	26/05/2010	GroundTruth_WW	569810	7043407	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	70		Excellent	ForestAspen
1084268	26/05/2010	GroundTruth_WW	569849	7043375	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Good	ForestWhiteSpruce
1084269	26/05/2010	GroundTruth_WW	569886	7043439	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	50		Excellent	ForestAspen
1084270	26/05/2010	GroundTruth_WW	569926	7043312	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Excellent	ForestAspen
1084271	26/05/2010	GroundTruth_WW	569962	7043279	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	40		Good	ForestAspen
1084272	26/05/2010	GroundTruth_WW	570003	7043246	UTMZ7N_WGS84		BrownDark	Sand	Steep	C	60		Good	ForestAspen
1084273	26/05/2010	GroundTruth_WW	570041	7043215	UTMZ7N_WGS84		BrownDark	Gravel	Moderate	C	70		Excellent	ForestWhiteSpruce
1084274	26/05/2010	GroundTruth_WW	570079	7043181	UTMZ7N_WGS84		BrownDark	Silt	Moderate	B	80	Frozen	Good	ForestWhiteSpruce
1084275	26/05/2010	GroundTruth_WW	570118	7043151	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestAspen
1084276	26/05/2010	GroundTruth_WW	570156	7043119	UTMZ7N_WGS84		BrownDark	Silt	Steep	C	50		Good	ForestAspen
1084277	26/05/2010	GroundTruth_WW	570195	7043086	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	60		Good	ForestAspen
1084278	26/05/2010	GroundTruth_WW	570233	7043055	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	70		Good	ForestAspen
1084279	26/05/2010	GroundTruth_WW	570270	7043023	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	80		Excellent	ForestWhiteSpruce
1084280	26/05/2010	GroundTruth_WW	570312	7042990	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	70		Excellent	ForestWhiteSpruce
1084281	26/05/2010	GroundTruth_WW	570349	7042957	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	50		Good	ForestWhiteSpruce
1095310	01/10/2010	GroundTruth_DB	570634	7045396	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestBlackSpruce
1095405	01/10/2010	GroundTruth_DB	570672	7045364	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
1095406	01/10/2010	GroundTruth_DB	570714	7045336	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
1095407	01/10/2010	GroundTruth_DB	570755	7045305	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
1095408	01/10/2010	GroundTruth_DB	570793	7045275	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	40		Good	ForestBlackSpruce
1095409	01/10/2010	GroundTruth_DB	570833	7045244	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
1095410	01/10/2010	GroundTruth_DB	570872	7045212	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
1095411	01/10/2010	GroundTruth_DB	570912	7045184	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	60		Good	ForestBlackSpruce
1095412	01/10/2010	GroundTruth_DB	570950	7045150	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
1095413	01/10/2010	GroundTruth_DB	570993	7045120	UTMZ7N_WGS84		RustyRed	Silt	Moderate	C	50		Excellent	ForestBlackSpruce
1095414	01/10/2010	GroundTruth_DB	571031	7045090	UTMZ7N_WGS84		RustyRed	Sand	Moderate	C	40		Good	ForestBlackSpruce
1095415	01/10/2010	GroundTruth_DB	571069	7045059	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce
1095416	01/10/2010	GroundTruth_DB	571109	7045028	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	30		Good	ForestAspen
1095417	01/10/2010	GroundTruth_DB	571148	7044999	UTMZ7N_WGS84		BrownDark	Silt	Moderate	C	40		Good	ForestBlackSpruce
1095694	01/10/2010	GroundTruth_DB	571187	7044964	UTMZ7N_WGS84		BrownDark	Sand	Moderate	C	50		Good	ForestBlackSpruce

Appendix C – Analytical Certifications (Volume II)



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: July 14, 2010
Report Date: July 30, 2010
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI10000102.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS2
P.O. Number
Number of Samples: 120

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan
Issac Fage

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include SS80, Dry at 60C, and 1DX2.

ADDITIONAL COMMENTS



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



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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: July 30, 2010

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CERTIFICATE OF ANALYSIS

WHI10000102.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 105977	Soil	0.9	17.6	7.2	63	0.1	13.1	9.7	409	2.32	4.7	0.6	1.1	2.1	20	0.3	0.4	0.1	53	0.26	0.057
ROS 105974	Soil	1.2	28.2	4.0	69	<0.1	10.9	16.6	697	3.89	2.9	0.3	<0.5	4.9	20	<0.1	0.2	<0.1	85	0.27	0.052
ROS 105976	Soil	0.9	36.9	4.9	78	<0.1	12.2	12.3	620	3.28	4.6	0.6	0.8	6.4	24	0.1	0.3	<0.1	71	0.41	0.078
ROS 105799	Soil	1.8	59.5	5.9	61	0.2	13.7	13.4	493	3.33	4.5	0.9	4.1	5.5	18	0.2	0.3	0.1	79	0.27	0.062
ROS 105719	Soil	0.8	29.6	6.7	62	<0.1	16.5	13.9	586	3.08	5.0	0.5	3.8	5.1	19	<0.1	0.3	0.1	67	0.28	0.051
ROS 105720	Soil	1.1	29.2	5.7	72	<0.1	10.2	16.4	691	3.93	3.6	0.4	1.5	4.6	16	<0.1	0.2	<0.1	85	0.25	0.043
ROS 105795	Soil	1.5	51.2	4.7	68	<0.1	6.7	15.3	690	3.65	1.4	0.4	0.7	3.4	25	<0.1	0.1	<0.1	93	0.53	0.052
ROS 105721	Soil	1.4	61.5	3.1	77	<0.1	9.1	19.5	924	5.25	2.1	0.6	<0.5	7.8	12	<0.1	0.2	<0.1	121	0.16	0.040
ROS 105724	Soil	1.0	35.9	6.1	80	<0.1	16.6	17.9	843	4.13	5.6	0.4	0.8	4.8	14	<0.1	0.3	<0.1	94	0.17	0.052
ROS 105796	Soil	1.2	28.2	4.2	51	0.2	7.0	8.0	321	2.12	0.7	0.5	1.7	2.1	23	<0.1	0.1	<0.1	43	0.27	0.047
ROS 105729	Soil	1.5	30.5	7.3	47	<0.1	13.3	9.3	287	2.76	5.9	0.5	3.1	3.5	17	0.1	0.3	0.1	66	0.18	0.027
ROS 105725	Soil	0.8	39.3	6.5	64	<0.1	12.7	14.9	648	3.92	4.7	0.4	1.6	3.7	13	<0.1	0.3	<0.1	92	0.15	0.030
ROS 108724	Soil	0.6	31.3	9.7	48	0.2	36.5	10.0	358	2.35	16.6	0.6	4.9	2.4	51	0.2	0.9	0.1	57	5.80	0.052
ROS 108729	Soil	0.8	33.4	18.4	76	0.2	24.9	8.7	352	2.70	10.0	0.6	10.2	3.4	29	0.1	1.0	0.2	57	1.39	0.055
ROS 108727	Soil	0.6	37.6	8.5	57	0.1	29.6	11.0	415	2.46	10.0	0.5	4.2	2.5	46	0.2	0.7	0.1	57	2.86	0.065
ROS 108721	Soil	1.2	17.0	18.2	82	0.1	6.1	5.1	656	2.37	2.2	1.1	2.3	6.7	13	0.1	6.9	0.2	9	0.26	0.016
ROS 108876	Soil	0.8	21.1	8.6	57	<0.1	16.2	9.2	279	2.68	6.1	1.2	5.1	7.9	29	<0.1	0.7	0.2	59	0.32	0.029
ROS 108734	Soil	1.0	56.6	26.6	148	<0.1	20.6	17.5	653	4.34	9.1	1.3	26.0	15.4	59	<0.1	0.8	0.3	99	0.65	0.079
ROS 104353	Soil	0.9	46.0	10.9	53	<0.1	26.7	10.6	384	2.52	5.7	0.9	6.4	10.0	29	<0.1	0.6	0.2	56	0.37	0.022
ROS 104356	Soil	1.1	24.3	8.5	54	<0.1	20.5	7.6	389	2.13	6.1	0.8	4.4	13.0	19	<0.1	0.7	0.1	45	0.20	0.017
ROS 108864	Soil	0.7	41.7	13.1	79	<0.1	17.9	11.0	401	3.07	8.5	1.2	4.3	20.5	34	<0.1	1.2	0.1	49	0.33	0.029
ROS 103930	Soil	0.7	13.7	9.9	96	<0.1	13.8	11.1	461	2.72	3.0	0.5	5.7	2.7	38	<0.1	0.4	<0.1	47	0.39	0.070
ROS 104357	Soil	1.0	22.6	7.7	49	<0.1	17.9	6.2	308	1.91	5.1	0.9	3.8	14.9	16	<0.1	0.8	<0.1	39	0.18	0.018
ROS 108731	Soil	0.6	31.0	8.7	70	0.2	23.3	10.1	408	2.83	9.1	0.5	15.6	3.4	42	0.1	0.8	0.1	62	1.77	0.080
ROS 108867	Soil	1.3	35.6	24.0	83	0.1	29.6	11.3	551	3.03	8.4	1.2	6.3	12.1	27	0.2	2.9	0.2	56	0.40	0.036
ROS 108726	Soil	0.6	31.4	6.7	42	0.1	33.2	9.9	322	2.23	12.7	0.5	5.0	1.8	60	0.2	0.7	0.1	57	5.14	0.062
ROS 108735	Soil	0.9	36.0	15.0	73	0.2	23.8	10.5	401	2.91	6.3	1.8	10.7	8.3	43	0.1	1.3	0.4	58	0.88	0.046
ROS 104348	Soil	0.4	23.1	10.9	101	<0.1	10.2	11.5	505	3.22	6.0	2.4	2.9	26.3	38	<0.1	0.7	<0.1	48	0.38	0.062
ROS 103929	Soil	0.5	14.7	9.6	103	<0.1	13.4	10.8	447	2.87	3.5	0.5	5.3	2.9	37	<0.1	0.4	<0.1	52	0.41	0.076
ROS 108871	Soil	2.4	56.0	123.7	97	0.9	11.6	4.5	136	1.60	6.2	0.7	10.7	6.6	5	0.1	0.5	2.1	22	0.12	0.023

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Project: ROS
 Report Date: July 30, 2010

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CERTIFICATE OF ANALYSIS

WHI10000102.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 105977	Soil	12	21	0.52	188	0.073	2	1.33	0.013	0.07	0.2	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 105794	Soil	31	17	1.27	216	0.163	<1	2.41	0.010	0.70	<0.1	0.01	2.0	0.2	<0.05	7	<0.5	<0.2
ROS 105976	Soil	14	19	0.90	198	0.144	<1	1.78	0.017	0.60	0.2	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
ROS 105799	Soil	24	22	0.92	184	0.141	<1	1.93	0.012	0.46	0.2	0.04	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 105719	Soil	10	24	0.86	151	0.120	1	1.83	0.013	0.29	0.2	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 105720	Soil	13	19	1.30	241	0.208	<1	2.55	0.010	0.89	<0.1	0.01	2.0	0.2	<0.05	7	<0.5	<0.2
ROS 105795	Soil	8	15	1.32	213	0.156	<1	2.17	0.014	0.76	0.1	0.01	1.8	0.2	<0.05	8	<0.5	<0.2
ROS 105721	Soil	8	16	1.68	203	0.229	<1	3.37	0.009	1.32	0.2	<0.01	4.1	0.3	<0.05	10	<0.5	<0.2
ROS 105724	Soil	7	29	1.30	154	0.161	<1	2.84	0.010	0.69	0.1	0.01	3.3	0.2	<0.05	8	<0.5	<0.2
ROS 105796	Soil	14	14	0.75	103	0.063	<1	1.56	0.009	0.10	<0.1	0.06	2.6	0.1	<0.05	7	<0.5	<0.2
ROS 105729	Soil	10	23	0.60	122	0.099	<1	1.82	0.014	0.11	0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
ROS 105725	Soil	9	21	1.14	141	0.157	<1	2.67	0.009	0.58	0.2	0.02	2.9	0.2	<0.05	8	<0.5	<0.2
ROS 108724	Soil	16	36	1.15	135	0.052	2	1.52	0.015	0.04	0.2	0.25	4.8	<0.1	<0.05	4	<0.5	<0.2
ROS 108729	Soil	24	33	0.89	236	0.049	2	1.53	0.021	0.07	0.3	0.18	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 108727	Soil	13	30	0.89	219	0.066	2	1.45	0.031	0.06	0.2	0.10	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 108721	Soil	15	5	0.06	1065	0.001	5	0.62	0.004	0.14	<0.1	0.08	5.3	<0.1	<0.05	1	<0.5	<0.2
ROS 108876	Soil	21	33	0.50	184	0.075	1	1.72	0.012	0.07	0.2	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 108734	Soil	36	40	1.30	137	0.108	<1	2.54	0.018	0.12	0.5	0.08	8.3	<0.1	<0.05	13	<0.5	<0.2
ROS 104353	Soil	25	33	0.54	224	0.103	<1	1.77	0.021	0.09	<0.1	0.06	5.2	<0.1	<0.05	6	<0.5	<0.2
ROS 104356	Soil	16	27	0.47	201	0.061	1	1.41	0.014	0.06	0.1	0.07	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 108864	Soil	28	23	0.67	153	0.047	<1	1.81	0.009	0.12	0.3	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
ROS 103930	Soil	8	22	0.92	218	0.149	1	2.15	0.010	0.68	0.2	0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 104357	Soil	16	22	0.44	159	0.054	<1	1.28	0.014	0.06	0.2	0.08	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 108731	Soil	17	30	0.84	404	0.064	2	1.55	0.025	0.08	0.3	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 108867	Soil	23	40	0.48	253	0.059	1	1.45	0.017	0.10	0.4	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 108726	Soil	11	35	1.07	140	0.056	1	1.23	0.018	0.04	0.2	0.13	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 108735	Soil	46	38	0.57	386	0.076	2	1.95	0.019	0.09	0.2	0.13	5.1	<0.1	<0.05	7	<0.5	<0.2
ROS 104348	Soil	56	21	0.82	138	0.117	<1	2.02	0.009	0.58	0.1	0.05	2.8	0.3	<0.05	9	<0.5	<0.2
ROS 103929	Soil	8	20	0.98	210	0.164	1	2.27	0.009	0.77	0.2	0.01	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 108871	Soil	9	15	0.27	171	0.012	<1	0.97	0.003	0.05	1.8	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 104350	Soil	0.4	14.6	11.3	105	<0.1	10.6	10.0	462	3.30	4.3	2.4	<0.5	29.0	25	<0.1	0.4	<0.1	39	0.25	0.067
ROS 104352	Soil	0.6	26.2	16.1	72	<0.1	14.2	8.3	351	2.36	3.3	2.0	2.7	20.9	26	<0.1	0.7	0.2	39	0.36	0.057
ROS 108850	Soil	4.2	40.5	13.7	134	1.1	17.3	11.2	647	3.64	8.9	0.7	18.5	7.4	21	0.2	7.0	<0.1	55	0.69	0.120
ROS 108855	Soil	0.6	30.8	7.9	51	0.1	26.5	10.1	431	2.63	11.7	0.5	4.1	3.2	37	0.1	0.8	0.1	56	2.59	0.044
ROS 108852	Soil	0.5	32.4	9.3	52	<0.1	28.9	10.1	432	2.58	11.6	0.5	6.3	2.7	34	0.1	0.7	0.1	56	2.63	0.042
ROS 108733	Soil	0.7	31.1	14.1	153	<0.1	19.2	14.2	616	4.40	8.1	1.1	56.0	9.6	106	<0.1	1.0	<0.1	83	0.86	0.117
ROS 108853	Soil	0.4	26.2	7.9	47	<0.1	29.9	10.3	444	2.38	11.5	0.5	3.0	1.6	41	0.2	0.7	0.1	53	3.32	0.056
ROS 108849	Soil	13.9	48.4	17.4	148	0.4	16.3	12.6	953	4.26	19.7	0.9	44.7	5.7	16	0.2	1.8	<0.1	71	0.73	0.114
ROS 108848	Soil	0.2	26.5	6.5	123	<0.1	7.2	8.6	470	3.21	3.0	0.9	2.2	4.9	30	0.1	2.9	<0.1	85	1.74	0.095
ROS 108722	Soil	0.5	25.6	7.8	50	<0.1	31.7	10.8	420	2.42	12.7	0.6	4.1	2.7	52	0.1	0.7	0.1	56	4.56	0.030
ROS 108858	Soil	0.4	27.5	7.5	53	0.1	22.2	9.3	402	2.32	7.5	0.6	7.9	1.9	35	0.2	0.8	0.1	52	1.34	0.076
ROS 108851	Soil	0.6	32.7	9.0	52	0.1	16.9	6.6	316	1.98	14.0	0.6	4.1	2.0	32	0.2	1.0	0.1	34	2.71	0.074
ROS 108854	Soil	0.5	28.0	8.2	46	<0.1	26.0	9.9	497	2.39	12.6	0.5	3.4	2.2	40	0.2	0.7	0.1	57	2.68	0.045
ROS 108865	Soil	1.2	30.1	18.3	73	<0.1	24.4	10.3	473	3.48	10.8	2.3	2.9	20.6	22	<0.1	1.7	0.3	62	0.41	0.033
ROS 108860	Soil	0.8	33.4	19.3	85	<0.1	16.3	10.1	363	3.02	6.4	1.4	2.8	17.6	31	0.1	1.4	0.4	46	0.39	0.037
ROS 104338	Soil	1.0	24.6	14.4	82	<0.1	15.4	10.9	410	3.01	6.7	1.2	23.2	10.8	45	0.2	0.9	0.2	53	0.49	0.048
ROS 108856	Soil	0.6	36.7	8.3	68	<0.1	32.1	12.4	462	2.72	12.2	0.6	11.5	2.2	103	0.2	1.3	0.1	62	7.40	0.065
ROS 108732	Soil	1.3	42.7	62.8	91	1.1	14.6	10.8	843	2.89	7.2	2.2	12.3	18.6	45	0.5	8.2	0.4	39	2.62	0.048
ROS 104342	Soil	0.8	28.4	9.2	89	<0.1	19.1	9.7	352	3.25	7.7	0.9	1.1	11.5	34	0.1	1.4	0.1	62	0.42	0.050
ROS 108376	Soil	1.8	21.3	26.7	52	1.5	16.6	9.1	462	2.51	6.7	1.1	6.0	6.7	30	0.2	2.8	0.2	42	0.71	0.025
ROS 108370	Soil	1.0	17.1	13.6	51	0.2	19.1	9.2	380	2.75	7.6	0.7	4.9	5.3	23	<0.1	1.7	0.1	61	0.37	0.019
ROS 108368	Soil	1.3	17.5	23.8	93	0.2	12.5	9.2	381	3.53	9.7	0.4	2.2	2.4	13	0.8	6.4	0.1	82	0.22	0.040
ROS 108373	Soil	0.9	22.1	14.4	55	0.3	22.2	10.5	300	2.79	8.0	0.8	3.0	7.6	27	0.2	1.4	0.1	61	0.47	0.021
ROS 104337	Soil	1.0	16.0	11.7	71	<0.1	18.8	8.7	265	2.81	6.5	0.6	2.6	8.2	29	0.2	0.8	0.1	60	0.26	0.030
ROS 108369	Soil	0.6	25.5	13.4	59	0.7	22.0	9.8	339	2.79	8.9	0.9	4.1	6.0	26	0.1	2.5	0.1	55	0.46	0.028
ROS 104339	Soil	0.3	12.5	13.0	180	<0.1	11.4	12.3	655	4.59	6.5	1.5	3.0	6.6	36	<0.1	1.0	<0.1	90	0.62	0.154
ROS 104344	Soil	0.7	15.3	8.2	81	<0.1	14.1	8.9	462	2.83	6.1	0.7	0.6	6.1	30	<0.1	0.7	0.1	59	0.33	0.052
ROS 108377	Soil	1.8	16.7	18.6	57	0.7	11.5	7.2	429	2.17	4.5	1.0	3.1	8.9	30	<0.1	2.3	0.1	31	0.81	0.044
ROS 108374	Soil	0.5	44.5	9.1	53	0.3	27.4	9.9	474	2.45	8.6	1.0	4.6	4.8	51	0.1	1.3	0.2	49	0.91	0.072
ROS 104336	Soil	0.7	34.3	14.2	69	0.2	23.7	9.6	418	2.73	8.4	1.2	4.0	4.9	43	0.2	1.1	0.2	53	0.92	0.069

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Project: ROS
 Report Date: July 30, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 104350	Soil	38	17	0.70	136	0.144	<1	1.78	0.009	0.74	<0.1	0.02	1.4	0.4	<0.05	8	<0.5	<0.2
ROS 104352	Soil	53	19	0.45	138	0.030	<1	1.38	0.007	0.10	0.1	0.05	3.3	0.1	<0.05	6	0.5	<0.2
ROS 108850	Soil	28	18	0.58	928	0.004	<1	1.52	0.007	0.08	0.5	0.40	5.5	<0.1	<0.05	6	<0.5	<0.2
ROS 108855	Soil	12	29	0.64	265	0.048	2	1.44	0.019	0.06	0.2	0.09	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 108852	Soil	12	30	0.82	215	0.056	2	1.49	0.020	0.05	0.2	0.11	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 108733	Soil	26	31	1.30	173	0.143	<1	2.62	0.009	0.18	0.9	0.03	4.1	<0.1	<0.05	13	<0.5	<0.2
ROS 108853	Soil	11	30	1.18	199	0.046	1	1.34	0.017	0.04	0.2	0.07	2.8	<0.1	<0.05	4	0.7	<0.2
ROS 108849	Soil	69	16	0.24	362	0.003	1	0.78	0.003	0.09	0.4	0.50	6.9	<0.1	<0.05	3	1.1	<0.2
ROS 108848	Soil	25	7	1.83	138	0.003	1	2.11	0.007	0.03	<0.1	0.51	3.6	<0.1	<0.05	12	<0.5	<0.2
ROS 108722	Soil	12	30	1.09	170	0.061	<1	1.40	0.016	0.03	0.2	0.09	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 108858	Soil	12	25	0.71	244	0.043	2	1.26	0.016	0.05	0.2	0.07	2.7	<0.1	<0.05	4	0.5	<0.2
ROS 108851	Soil	15	16	0.55	236	0.013	3	0.87	0.009	0.08	0.1	0.18	2.3	<0.1	<0.05	3	<0.5	<0.2
ROS 108854	Soil	13	31	0.78	221	0.052	2	1.33	0.018	0.04	0.3	0.07	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 108865	Soil	60	35	0.48	241	0.057	2	1.57	0.008	0.14	0.3	0.06	5.8	<0.1	<0.05	6	0.8	<0.2
ROS 108860	Soil	18	24	0.65	171	0.045	1	1.76	0.007	0.10	0.2	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
ROS 104338	Soil	16	28	0.65	180	0.039	<1	1.75	0.007	0.14	0.5	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
ROS 108856	Soil	11	31	1.13	217	0.040	2	1.50	0.016	0.06	0.3	0.17	3.8	<0.1	<0.05	6	0.5	<0.2
ROS 108732	Soil	71	18	0.50	467	0.027	3	1.26	0.010	0.16	0.3	0.57	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 104342	Soil	10	48	0.79	134	0.057	2	1.92	0.008	0.14	0.1	0.01	2.4	<0.1	<0.05	8	<0.5	<0.2
ROS 108376	Soil	20	23	0.39	357	0.034	3	1.34	0.014	0.11	0.2	0.14	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 108370	Soil	17	32	0.45	386	0.052	2	1.58	0.011	0.07	0.1	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 108368	Soil	7	21	0.53	240	0.024	3	1.63	0.007	0.15	<0.1	0.07	3.1	<0.1	<0.05	8	<0.5	<0.2
ROS 108373	Soil	33	34	0.51	269	0.061	2	1.64	0.013	0.07	0.1	0.07	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 104337	Soil	12	28	0.56	211	0.058	<1	1.90	0.014	0.10	0.2	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
ROS 108369	Soil	26	29	0.53	479	0.053	3	1.61	0.015	0.07	0.1	0.18	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 104339	Soil	29	19	1.35	151	0.064	2	2.17	0.010	0.37	0.2	0.02	3.0	0.1	<0.05	14	<0.5	<0.2
ROS 104344	Soil	9	26	0.72	181	0.088	<1	1.72	0.008	0.27	0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
ROS 108377	Soil	20	16	0.29	349	0.024	2	0.98	0.013	0.10	0.3	0.14	2.5	<0.1	<0.05	3	<0.5	<0.2
ROS 108374	Soil	46	27	0.58	425	0.053	2	1.30	0.028	0.07	0.2	0.13	3.4	<0.1	<0.05	4	0.6	<0.2
ROS 104336	Soil	24	27	0.60	292	0.060	2	1.57	0.026	0.12	0.2	0.06	3.6	<0.1	<0.05	5	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 108367	Soil		1.1	62.0	16.0	115	0.1	19.6	16.3	533	5.34	12.8	1.3	3.8	10.2	40	0.1	4.5	0.2	127	0.87	0.118
ROS 108372	Soil		0.9	27.2	14.0	98	<0.1	48.4	13.7	490	3.74	7.3	1.2	4.2	15.5	27	0.1	2.7	0.2	67	0.45	0.040
ROS 108379	Soil		1.1	30.3	16.5	74	0.3	19.7	10.6	446	3.07	8.0	1.0	4.1	8.2	30	0.1	1.9	0.6	59	0.66	0.047
ROS 108375	Soil		1.2	30.7	23.9	88	1.8	21.0	12.8	1037	3.10	6.8	1.5	4.1	6.6	47	0.8	4.2	0.3	48	1.03	0.058
ROS 104351	Soil		0.5	34.2	15.9	101	<0.1	11.6	9.5	419	2.99	3.0	2.6	7.7	27.3	39	<0.1	0.4	0.2	35	0.44	0.067
ROS 108859	Soil		1.1	69.0	9.3	95	0.2	28.4	16.2	661	3.42	7.8	0.7	28.2	4.8	34	0.2	1.0	0.2	74	1.21	0.096
ROS 104345	Soil		1.1	69.6	99.2	232	<0.1	18.6	10.0	577	3.54	14.7	1.3	2.8	9.7	25	0.3	3.5	1.1	49	0.26	0.036
ROS 104340	Soil		0.5	21.0	8.3	48	<0.1	20.0	7.8	296	2.67	7.1	0.7	2.4	5.0	35	<0.1	0.5	0.2	62	0.51	0.030
ROS 108730	Soil		0.6	44.0	10.4	81	0.3	27.2	13.1	555	3.13	9.2	0.7	26.1	5.5	72	0.2	0.8	0.1	71	5.43	0.086
ROS 108857	Soil		0.5	42.5	7.9	123	<0.1	20.8	16.7	884	4.16	12.6	0.7	7.8	3.3	79	0.2	1.6	<0.1	103	2.61	0.133
ROS 108371	Soil		0.5	31.5	36.7	122	0.3	19.4	10.1	772	3.35	5.6	1.1	3.6	10.0	35	0.5	3.8	0.2	65	0.95	0.066
ROS 108378	Soil		1.6	24.8	21.0	66	1.1	20.2	10.0	527	2.84	7.8	1.7	8.7	11.1	30	0.2	3.0	0.2	51	0.52	0.036
ROS 104355	Soil		0.8	46.5	9.1	78	<0.1	25.8	10.3	472	2.94	8.3	1.1	4.5	11.3	44	<0.1	0.6	0.2	64	0.33	0.018
ROS 108863	Soil		0.9	37.6	14.0	82	<0.1	24.5	12.3	564	3.38	8.1	1.1	9.1	16.6	40	0.1	0.8	0.2	61	0.60	0.028
ROS 104341	Soil		0.5	19.7	8.1	59	<0.1	20.1	8.4	301	2.63	6.8	0.9	2.5	7.0	37	<0.1	0.5	0.1	61	0.38	0.024
ROS 108390	Soil		2.4	24.5	69.4	86	0.2	11.5	4.8	180	2.05	8.1	1.4	0.9	12.7	28	<0.1	0.4	2.3	30	0.15	0.027
ROS 104349	Soil		0.3	20.7	15.3	106	<0.1	8.0	14.4	652	3.26	3.6	3.3	2.2	31.5	57	<0.1	0.6	<0.1	38	0.47	0.094
ROS 108862	Soil		0.8	26.4	20.0	113	<0.1	13.3	11.2	558	3.74	5.5	2.3	2.8	35.1	50	0.2	1.2	0.2	51	0.43	0.055
ROS 104343	Soil		0.7	12.4	11.7	98	<0.1	12.9	10.3	450	3.00	7.2	0.9	0.7	4.8	39	<0.1	0.9	0.2	69	0.36	0.050
ROS 108387	Soil		0.8	59.7	11.2	110	<0.1	11.5	14.0	619	3.57	6.6	1.1	0.8	4.5	29	<0.1	0.5	0.2	74	0.54	0.080
ROS 108728	Soil		0.5	29.4	11.0	52	0.1	24.9	9.3	346	2.24	9.9	0.6	6.2	3.1	95	0.2	0.9	0.1	49	6.21	0.046
ROS 108877	Soil		0.7	34.7	15.7	109	<0.1	17.7	14.7	441	3.79	5.5	3.0	5.9	33.1	51	<0.1	0.7	0.2	57	0.56	0.073
ROS 103927	Soil		0.8	24.8	10.5	61	<0.1	22.7	11.1	401	2.96	8.5	1.1	9.0	6.6	35	<0.1	0.5	0.2	67	0.49	0.039
ROS 104347	Soil		0.4	24.2	10.5	102	<0.1	11.9	9.7	306	3.27	4.7	1.6	10.7	15.8	24	<0.1	0.5	0.1	48	0.33	0.037
ROS 108725	Soil		0.5	28.7	9.1	59	0.1	38.3	12.0	592	2.74	14.3	0.5	3.9	2.9	36	0.1	0.6	0.2	62	1.79	0.044
ROS 108874	Soil		0.6	27.9	8.9	80	<0.1	13.4	8.0	273	2.63	5.6	0.8	11.5	5.6	29	<0.1	0.7	0.7	54	0.39	0.044
ROS 108385	Soil		0.3	25.5	10.8	111	<0.1	13.1	13.3	582	3.64	5.7	1.1	1.4	9.3	50	<0.1	0.7	<0.1	66	0.55	0.111
ROS 104354	Soil		0.7	35.7	9.3	89	<0.1	17.8	10.7	588	3.65	5.0	1.3	4.3	14.8	48	<0.1	0.6	0.2	65	0.45	0.045
ROS 108749	Soil		1.0	21.1	10.8	55	<0.1	16.0	5.6	247	2.26	5.7	1.2	3.1	9.8	22	<0.1	0.7	0.2	42	0.22	0.023
ROS 108723	Soil		0.6	26.0	8.7	45	<0.1	35.3	11.3	396	2.42	14.3	0.6	5.7	2.8	44	0.1	0.7	0.1	55	3.54	0.027

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 108367	Soil	24	42	1.23	673	0.004	<1	3.42	0.011	0.11	0.3	0.11	7.8	<0.1	<0.05	14	<0.5	<0.2
ROS 108372	Soil	17	101	1.08	186	0.035	<1	2.10	0.009	0.07	0.2	0.11	5.3	<0.1	<0.05	8	<0.5	<0.2
ROS 108379	Soil	26	28	0.54	439	0.044	1	1.64	0.017	0.08	0.2	0.12	5.5	<0.1	<0.05	5	<0.5	0.2
ROS 108375	Soil	27	27	0.42	441	0.028	3	1.25	0.014	0.10	0.2	0.35	4.6	<0.1	<0.05	4	<0.5	<0.2
ROS 104351	Soil	67	15	0.55	146	0.054	<1	1.68	0.009	0.24	0.1	0.07	2.6	0.2	<0.05	6	<0.5	<0.2
ROS 108859	Soil	19	66	1.09	208	0.042	2	1.60	0.018	0.10	0.3	0.07	7.0	<0.1	<0.05	7	<0.5	<0.2
ROS 104345	Soil	24	30	0.42	262	0.009	2	2.10	0.005	0.19	0.1	0.04	6.1	0.1	<0.05	6	<0.5	<0.2
ROS 104340	Soil	13	33	0.55	274	0.087	1	1.72	0.024	0.05	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 108730	Soil	23	30	1.18	275	0.053	2	1.74	0.018	0.12	0.4	0.11	4.9	<0.1	<0.05	7	0.7	<0.2
ROS 108857	Soil	13	28	1.69	240	0.101	2	2.21	0.019	0.06	0.4	0.06	6.1	<0.1	<0.05	10	<0.5	<0.2
ROS 108371	Soil	32	22	0.43	362	0.024	2	1.45	0.012	0.07	0.2	0.15	6.3	<0.1	<0.05	6	<0.5	<0.2
ROS 108378	Soil	27	28	0.47	439	0.047	2	1.48	0.016	0.09	0.2	0.16	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 104355	Soil	26	32	0.64	220	0.103	1	2.04	0.019	0.08	0.1	0.07	6.0	<0.1	<0.05	8	<0.5	<0.2
ROS 108863	Soil	35	30	0.68	265	0.073	<1	1.99	0.022	0.11	0.2	0.05	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 104341	Soil	16	39	0.63	216	0.098	<1	1.76	0.014	0.05	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 108390	Soil	20	20	0.37	202	0.048	<1	1.12	0.007	0.12	0.1	0.04	1.6	0.1	<0.05	3	1.1	<0.2
ROS 104349	Soil	58	16	0.73	126	0.071	<1	1.81	0.011	0.31	0.2	0.02	1.8	0.2	<0.05	9	<0.5	<0.2
ROS 108862	Soil	66	22	0.79	161	0.036	<1	2.13	0.008	0.10	0.2	0.05	3.9	<0.1	<0.05	11	<0.5	<0.2
ROS 104343	Soil	7	22	0.67	164	0.064	1	1.80	0.008	0.22	0.2	0.03	2.7	<0.1	<0.05	8	<0.5	<0.2
ROS 108387	Soil	13	18	1.40	260	0.168	1	2.46	0.007	0.95	<0.1	0.02	3.3	0.4	<0.05	10	<0.5	<0.2
ROS 108728	Soil	14	26	0.89	221	0.051	2	1.34	0.021	0.07	0.2	0.09	3.1	<0.1	0.06	4	<0.5	<0.2
ROS 108877	Soil	66	26	0.97	177	0.082	<1	2.47	0.008	0.19	0.1	0.06	5.3	0.1	<0.05	9	<0.5	<0.2
ROS 103927	Soil	18	37	0.63	278	0.102	<1	2.01	0.025	0.10	0.1	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 104347	Soil	33	33	0.76	206	0.043	<1	1.54	0.006	0.16	<0.1	0.05	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 108725	Soil	14	39	0.61	266	0.060	2	1.56	0.024	0.05	0.2	0.09	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 108874	Soil	13	25	0.66	140	0.066	<1	1.61	0.009	0.14	0.3	0.03	4.2	<0.1	<0.05	7	<0.5	<0.2
ROS 108385	Soil	16	22	1.38	336	0.243	<1	2.50	0.008	0.80	0.2	0.02	2.3	0.3	<0.05	8	<0.5	0.4
ROS 104354	Soil	20	24	0.91	249	0.143	<1	2.21	0.012	0.25	<0.1	0.06	6.9	0.2	<0.05	11	<0.5	<0.2
ROS 108749	Soil	21	24	0.35	160	0.047	<1	1.23	0.009	0.07	0.1	0.08	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 108723	Soil	14	35	1.04	170	0.055	<1	1.39	0.016	0.03	0.2	0.09	4.5	<0.1	<0.05	4	<0.5	<0.2

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 680 3rd Ave, Suite 203
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Project: ROS
 Report Date: July 30, 2010

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CERTIFICATE OF ANALYSIS

WHI10000102.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 108875	Soil	0.5	25.0	18.7	95	<0.1	13.1	10.9	347	2.82	5.3	2.4	0.7	32.6	57	<0.1	0.7	<0.1	44	0.51	0.052
ROS 108861	Soil	0.9	24.2	16.9	104	<0.1	12.9	10.8	509	3.38	5.2	2.1	4.2	30.2	41	0.1	1.0	0.1	47	0.36	0.050
ROS 108741	Soil	0.6	24.5	7.1	46	<0.1	23.2	6.8	252	2.45	9.3	1.0	6.4	5.3	25	<0.1	0.8	0.1	53	0.32	0.070
ROS 103925	Soil	3.1	111.0	38.7	122	0.1	14.6	5.5	262	1.99	5.7	0.9	7.3	6.8	30	0.2	0.6	1.6	35	0.32	0.017
ROS 108873	Soil	0.5	68.3	14.3	93	<0.1	18.6	10.3	528	2.72	3.9	1.2	83.7	8.0	26	<0.1	0.6	1.0	39	0.43	0.062
ROS 108878	Soil	0.3	11.2	6.6	57	<0.1	9.5	4.7	178	1.64	3.6	0.9	4.0	5.8	30	<0.1	0.6	<0.1	32	0.28	0.031
ROS 104335	Soil	1.1	22.6	19.3	88	<0.1	16.6	9.3	406	2.93	6.2	2.0	12.1	22.6	20	0.1	1.1	0.3	50	0.37	0.027
ROS 108872	Soil	0.4	45.5	17.2	25	0.2	7.7	3.0	80	0.91	3.4	0.4	8.3	6.5	9	<0.1	0.2	3.5	20	0.10	0.016
ROS 104333	Soil	2.0	64.2	10.9	118	0.2	44.7	19.7	633	4.15	11.6	0.5	32.5	3.8	66	0.1	1.2	0.1	103	1.27	0.064
ROS 104346	Soil	0.5	29.0	10.1	99	<0.1	8.3	10.7	538	3.37	6.3	1.2	6.2	9.0	28	<0.1	0.7	0.3	52	0.48	0.072
ROS 102844	Soil	0.5	82.0	3.3	59	<0.1	252.0	32.9	885	3.79	26.7	1.1	3.4	1.2	30	0.4	0.9	<0.1	115	7.85	0.197
ROS 108879	Soil	0.6	25.4	10.1	53	<0.1	16.6	7.5	236	2.20	7.3	1.5	3.0	16.2	25	<0.1	0.7	0.5	40	0.32	0.020
ROS 103928	Soil	0.6	22.0	9.0	54	<0.1	19.0	8.0	243	2.38	6.9	0.9	16.8	13.1	21	<0.1	0.5	0.1	48	0.27	0.037
ROS 103926	Soil	0.8	36.7	12.4	55	0.2	19.5	8.4	394	2.40	7.1	1.2	15.2	4.2	35	<0.1	0.5	0.4	54	0.48	0.048
ROS 102850	Soil	0.5	31.3	9.9	49	0.1	29.1	10.3	399	2.49	11.8	0.5	3.6	3.3	30	0.1	0.8	0.1	59	1.44	0.027
ROS 108868	Soil	5.0	85.4	97.2	155	0.5	10.0	4.8	151	1.65	30.0	1.1	13.4	12.1	12	0.3	8.2	4.2	17	0.13	0.017
ROS 103931	Soil	0.7	25.6	10.7	95	0.1	16.9	8.8	489	3.25	6.4	1.5	11.1	13.5	28	<0.1	0.6	0.2	52	0.38	0.066
ROS 108870	Soil	2.1	20.5	33.4	55	0.3	13.6	5.6	190	1.97	10.6	0.6	33.3	7.1	11	<0.1	2.1	0.5	38	0.07	0.017
ROS 104334	Soil	0.3	34.1	10.9	92	<0.1	9.3	11.5	632	2.65	3.7	1.1	44.8	12.9	70	0.3	0.9	0.1	50	5.63	0.107
ROS 108388	Soil	0.7	30.9	20.8	56	<0.1	22.1	9.4	324	2.50	14.1	1.0	4.2	8.1	22	<0.1	0.7	0.2	53	0.40	0.018
ROS 108869	Soil	1.5	37.1	47.0	70	1.1	16.0	6.6	184	2.19	10.8	0.8	22.0	8.5	20	0.2	5.9	0.9	43	0.22	0.015
ROS 108866	Soil	0.9	34.0	10.0	69	<0.1	25.2	11.3	500	2.64	8.9	0.8	5.8	7.0	54	0.2	0.9	0.2	57	1.80	0.060
ROS 102849	Soil	0.5	29.5	9.3	46	<0.1	31.0	8.8	381	2.15	12.0	0.6	5.2	2.9	45	0.2	0.8	0.1	53	4.76	0.038
ROS 108382	Soil	0.7	32.2	11.6	53	0.2	18.8	8.3	496	2.39	8.1	1.0	12.9	3.4	35	0.1	1.4	0.4	47	1.21	0.068
ROS 102846	Soil	1.3	84.7	6.2	57	0.1	132.2	17.6	539	2.65	16.9	0.6	4.6	1.9	37	0.2	0.8	<0.1	100	4.28	0.168
ROS 108738	Soil	1.0	20.6	12.6	57	<0.1	18.1	9.1	404	2.57	9.1	0.9	3.5	7.7	30	<0.1	1.2	0.3	54	0.46	0.040
ROS 108737	Soil	1.3	34.5	14.4	105	<0.1	25.9	12.8	540	3.57	9.8	1.2	1.0	10.7	24	0.2	1.6	0.2	71	0.31	0.031
ROS 108746	Soil	0.6	33.0	22.9	112	<0.1	13.5	9.3	428	3.18	5.2	2.5	4.2	18.2	39	0.3	2.4	0.2	35	0.48	0.057
ROS 108740	Soil	1.1	27.8	10.8	63	<0.1	18.1	8.8	448	2.52	9.2	1.2	2.7	15.8	19	<0.1	1.5	0.2	43	0.25	0.047
ROS 108383	Soil	0.7	47.5	15.0	57	0.3	26.8	9.6	411	2.53	8.5	1.9	20.8	5.4	40	<0.1	1.9	0.2	56	0.92	0.073

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 108875	Soil	41	31	0.78	120	0.130	1	1.80	0.008	0.19	0.1	0.03	3.3	0.1	<0.05	8	<0.5	<0.2
ROS 108861	Soil	58	24	0.71	171	0.034	<1	1.86	0.008	0.09	0.2	0.05	3.5	<0.1	<0.05	9	<0.5	<0.2
ROS 108741	Soil	25	31	0.48	176	0.074	1	1.15	0.025	0.05	0.2	0.07	4.6	<0.1	<0.05	4	<0.5	<0.2
ROS 103925	Soil	14	26	0.59	258	0.056	<1	1.29	0.006	0.10	0.3	0.04	2.2	<0.1	<0.05	4	<0.5	0.4
ROS 108873	Soil	25	24	0.88	217	0.041	<1	1.62	0.008	0.16	7.9	0.05	3.6	<0.1	<0.05	6	<0.5	0.2
ROS 108878	Soil	9	16	0.42	101	0.058	1	1.11	0.007	0.13	<0.1	0.04	1.8	<0.1	<0.05	4	<0.5	0.2
ROS 104335	Soil	25	29	0.51	275	0.042	1	1.62	0.010	0.14	0.2	0.04	4.7	<0.1	<0.05	7	<0.5	0.2
ROS 108872	Soil	12	16	0.18	104	0.015	<1	0.64	0.003	0.09	1.2	0.02	1.1	<0.1	<0.05	2	<0.5	0.8
ROS 104333	Soil	16	54	1.86	133	0.120	1	2.41	0.012	0.05	0.4	0.09	6.1	<0.1	<0.05	10	0.8	<0.2
ROS 104346	Soil	25	15	0.91	332	0.086	1	1.87	0.010	0.36	<0.1	0.07	3.7	0.3	<0.05	6	0.5	<0.2
ROS 102844	Soil	6	279	0.87	153	0.039	<1	1.12	0.006	0.09	0.3	0.24	13.9	0.1	<0.05	5	<0.5	0.2
ROS 108879	Soil	26	23	0.39	144	0.062	<1	1.65	0.009	0.07	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 103928	Soil	15	31	0.52	158	0.085	<1	1.45	0.010	0.16	0.2	0.02	3.8	0.1	<0.05	5	<0.5	0.2
ROS 103926	Soil	19	31	0.52	296	0.068	1	1.64	0.018	0.11	0.5	0.08	4.1	<0.1	<0.05	5	0.5	<0.2
ROS 102850	Soil	16	30	0.87	242	0.061	1	1.63	0.019	0.05	0.2	0.07	4.3	<0.1	<0.05	4	0.5	<0.2
ROS 108868	Soil	17	13	0.15	204	0.009	<1	0.69	0.005	0.09	0.3	0.40	2.3	<0.1	<0.05	2	0.8	0.4
ROS 103931	Soil	22	24	0.60	265	0.135	1	1.95	0.009	0.55	0.2	0.03	4.4	0.3	<0.05	8	<0.5	0.4
ROS 108870	Soil	15	22	0.31	321	0.034	<1	1.30	0.007	0.10	0.4	0.06	2.4	<0.1	<0.05	3	<0.5	<0.2
ROS 104334	Soil	40	18	2.14	241	0.012	1	2.11	0.006	0.13	0.3	0.08	3.0	<0.1	<0.05	8	<0.5	<0.2
ROS 108388	Soil	66	32	0.48	264	0.081	1	1.46	0.014	0.08	0.2	0.09	4.8	<0.1	<0.05	4	<0.5	<0.2
ROS 108869	Soil	18	27	0.40	539	0.052	1	1.41	0.009	0.07	0.1	0.34	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 108866	Soil	20	29	0.75	283	0.077	2	1.50	0.035	0.08	0.2	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 102849	Soil	17	28	0.90	168	0.049	<1	1.45	0.014	0.04	0.1	0.18	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 108382	Soil	24	22	0.38	472	0.034	3	1.07	0.017	0.08	0.5	0.08	3.7	<0.1	<0.05	3	0.6	<0.2
ROS 102846	Soil	10	124	0.70	243	0.056	1	1.41	0.013	0.17	0.1	0.28	7.8	0.1	<0.05	6	<0.5	<0.2
ROS 108738	Soil	19	32	0.52	398	0.074	2	1.45	0.018	0.10	0.1	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 108737	Soil	16	48	0.91	701	0.083	3	2.21	0.008	0.47	0.1	0.03	6.5	0.2	<0.05	7	<0.5	<0.2
ROS 108746	Soil	59	16	0.58	252	0.012	2	1.70	0.010	0.12	<0.1	0.17	4.3	<0.1	<0.05	7	<0.5	<0.2
ROS 108740	Soil	29	27	0.53	204	0.047	1	1.27	0.012	0.13	0.5	0.07	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 108383	Soil	25	39	0.65	674	0.069	2	1.34	0.021	0.07	0.3	0.12	4.3	<0.1	<0.05	5	<0.5	<0.2

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Report Date: July 30, 2010

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QUALITY CONTROL REPORT

WHI10000102.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 105721	Soil	1.4	61.5	3.1	77	<0.1	9.1	19.5	924	5.25	2.1	0.6	<0.5	7.8	12	<0.1	0.2	<0.1	121	0.16	0.040
REP ROS 105721	QC	1.3	59.0	3.0	74	<0.1	9.1	18.7	892	5.01	2.3	0.6	0.6	7.4	12	0.1	0.2	<0.1	116	0.17	0.038
ROS 108721	Soil	1.2	17.0	18.2	82	0.1	6.1	5.1	656	2.37	2.2	1.1	2.3	6.7	13	0.1	6.9	0.2	9	0.26	0.016
REP ROS 108721	QC	1.2	16.9	18.5	84	0.1	6.7	5.4	664	2.41	2.2	1.1	3.4	6.7	14	0.1	7.1	0.2	10	0.28	0.016
ROS 108722	Soil	0.5	25.6	7.8	50	<0.1	31.7	10.8	420	2.42	12.7	0.6	4.1	2.7	52	0.1	0.7	0.1	56	4.56	0.030
REP ROS 108722	QC	0.5	24.9	7.6	48	<0.1	31.6	10.2	413	2.29	12.0	0.5	6.1	2.7	49	0.1	0.7	0.1	53	4.41	0.028
ROS 108390	Soil	2.4	24.5	69.4	86	0.2	11.5	4.8	180	2.05	8.1	1.4	0.9	12.7	28	<0.1	0.4	2.3	30	0.15	0.027
REP ROS 108390	QC	2.5	24.7	69.7	79	0.2	11.5	4.4	182	2.00	7.8	1.4	1.8	12.7	26	0.1	0.4	2.2	28	0.14	0.025
ROS 108749	Soil	1.0	21.1	10.8	55	<0.1	16.0	5.6	247	2.26	5.7	1.2	3.1	9.8	22	<0.1	0.7	0.2	42	0.22	0.023
REP ROS 108749	QC	1.2	21.8	11.1	56	<0.1	15.7	5.8	252	2.27	5.8	1.3	2.6	9.5	21	<0.1	0.6	0.2	43	0.23	0.023
ROS 102846	Soil	1.3	84.7	6.2	57	0.1	132.2	17.6	539	2.65	16.9	0.6	4.6	1.9	37	0.2	0.8	<0.1	100	4.28	0.168
REP ROS 102846	QC	1.5	83.6	6.1	56	<0.1	126.9	17.5	536	2.64	17.1	0.6	4.4	1.9	36	0.2	0.8	<0.1	99	4.22	0.165
Reference Materials																					
STD DS7	Standard	21.3	112.2	62.9	397	1.0	56.2	9.7	634	2.42	51.5	4.5	65.0	4.3	73	5.8	5.9	4.3	88	0.93	0.078
STD DS7	Standard	20.0	109.5	67.1	391	1.0	53.7	9.0	624	2.39	47.7	4.3	71.7	4.1	68	6.0	5.4	4.4	80	0.93	0.078
STD DS7	Standard	20.7	108.5	68.2	386	1.0	53.2	8.9	607	2.31	49.7	4.9	75.2	4.6	74	5.8	5.8	4.3	83	0.90	0.070
STD DS7	Standard	22.2	113.4	72.1	407	1.0	57.4	10.0	643	2.54	51.6	4.8	69.1	5.0	80	6.1	5.6	4.6	86	1.00	0.079
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Report Date: July 30, 2010

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QUALITY CONTROL REPORT

WHI10000102.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 105721	Soil	8	16	1.68	203	0.229	<1	3.37	0.009	1.32	0.2	<0.01	4.1	0.3	<0.05	10	<0.5	<0.2
REP ROS 105721	QC	8	15	1.63	194	0.221	<1	3.33	0.007	1.27	0.1	<0.01	3.9	0.3	<0.05	10	<0.5	<0.2
ROS 108721	Soil	15	5	0.06	1065	0.001	5	0.62	0.004	0.14	<0.1	0.08	5.3	<0.1	<0.05	1	<0.5	<0.2
REP ROS 108721	QC	16	5	0.07	1109	<0.001	6	0.65	0.004	0.15	<0.1	0.10	5.4	0.1	<0.05	2	<0.5	<0.2
ROS 108722	Soil	12	30	1.09	170	0.061	<1	1.40	0.016	0.03	0.2	0.09	3.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 108722	QC	12	28	1.08	171	0.058	1	1.36	0.016	0.03	0.2	0.09	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 108390	Soil	20	20	0.37	202	0.048	<1	1.12	0.007	0.12	0.1	0.04	1.6	0.1	<0.05	3	1.1	<0.2
REP ROS 108390	QC	19	18	0.37	202	0.045	<1	1.12	0.006	0.11	<0.1	0.04	1.6	0.1	<0.05	3	0.9	0.2
ROS 108749	Soil	21	24	0.35	160	0.047	<1	1.23	0.009	0.07	0.1	0.08	4.2	<0.1	<0.05	4	<0.5	<0.2
REP ROS 108749	QC	22	25	0.36	159	0.047	1	1.24	0.011	0.07	0.1	0.06	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 102846	Soil	10	124	0.70	243	0.056	1	1.41	0.013	0.17	0.1	0.28	7.8	0.1	<0.05	6	<0.5	<0.2
REP ROS 102846	QC	10	120	0.69	236	0.055	2	1.40	0.013	0.17	0.2	0.32	8.0	0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	12	198	1.06	404	0.131	39	1.03	0.099	0.48	3.8	0.22	2.5	4.0	0.17	5	2.6	1.0
STD DS7	Standard	11	194	1.01	360	0.108	40	0.97	0.092	0.46	3.4	0.21	2.0	3.7	0.16	5	3.5	1.5
STD DS7	Standard	13	190	1.00	392	0.119	39	0.97	0.094	0.45	3.5	0.21	2.6	3.7	0.16	5	3.2	1.5
STD DS7	Standard	14	218	1.04	408	0.132	41	1.10	0.105	0.48	3.6	0.22	2.4	4.2	0.20	5	3.2	1.6
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Val D'Or QC J9P 1S5 Canada

Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: July 28, 2010
Report Date: August 12, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI10000180.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS2
P.O. Number
Number of Samples: 19

SAMPLE DISPOSAL

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

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

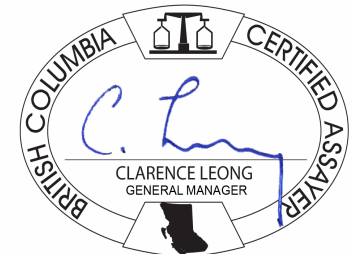
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan
Issac Fage

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	19	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	19	Dry at 60C			WHI
1DX2	19	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: August 12, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI10000180.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 108380	Soil	0.9	24.2	12.1	57	0.4	22.3	10.7	423	2.70	7.9	0.9	2.0	5.0	32	0.1	1.3	0.2	57	0.83	0.041
ROS 108386	Soil	1.0	25.2	11.4	101	<0.1	10.8	8.1	467	2.46	2.8	0.7	<0.5	8.2	17	<0.1	0.6	0.2	59	0.37	0.075
ROS 108384	Soil	0.9	19.0	10.3	67	<0.1	26.3	11.1	376	3.05	7.1	0.8	7.5	6.4	31	<0.1	0.7	0.2	71	0.48	0.036
ROS 100733	Soil	1.8	27.7	11.4	57	<0.1	23.5	11.2	505	2.83	7.6	0.7	2.9	10.7	24	<0.1	0.9	0.1	66	0.31	0.022
ROS 102848	Soil	0.5	27.2	7.2	48	0.1	30.6	10.6	391	2.38	9.6	0.5	6.5	2.4	40	0.1	0.6	0.1	60	3.86	0.050
ROS 108389	Soil	1.1	23.1	13.7	86	0.3	15.1	9.2	377	3.10	6.2	1.5	1.3	9.5	20	0.1	0.5	0.2	52	0.38	0.058
ROS 108742	Soil	1.0	18.6	10.4	68	<0.1	20.9	9.1	264	2.90	9.8	0.7	1.6	7.5	25	<0.1	1.1	0.1	62	0.35	0.031
ROS 108381	Soil	0.8	30.9	8.2	49	<0.1	28.4	10.2	355	2.88	8.7	0.7	10.2	6.3	29	<0.1	0.7	0.1	74	0.50	0.015
ROS 108747	Soil	1.4	85.9	15.2	129	<0.1	13.3	15.0	581	4.18	5.6	2.5	1.6	42.4	88	<0.1	0.9	0.3	47	0.71	0.097
ROS 100732	Soil	1.2	24.5	5.8	46	<0.1	17.7	7.7	300	2.24	5.2	0.8	1.7	10.4	22	<0.1	0.5	0.1	47	0.27	0.011
ROS 102847	Soil	0.5	34.1	8.2	50	<0.1	36.5	11.5	406	2.32	10.7	0.4	4.3	2.8	60	0.2	0.8	0.1	58	6.10	0.042
ROS 108745	Soil	1.0	42.1	14.0	68	<0.1	22.9	9.3	403	2.78	8.8	1.8	5.5	8.6	31	<0.1	6.4	0.2	58	0.49	0.077
ROS 108748	Soil	1.0	27.2	9.9	92	<0.1	13.4	9.0	302	3.23	5.3	1.2	8.8	15.6	63	<0.1	0.6	0.1	51	0.54	0.051
ROS 108750	Soil	1.1	14.4	4.8	39	<0.1	10.6	6.1	299	2.02	3.8	0.8	<0.5	10.5	22	<0.1	0.3	0.1	39	0.23	0.015
ROS 108743	Soil	1.2	49.5	7.0	113	<0.1	17.2	13.2	678	3.69	7.0	1.6	1.8	16.8	30	<0.1	1.7	0.1	50	0.40	0.055
ROS 108744	Soil	0.9	44.7	6.5	120	<0.1	14.1	14.4	821	3.97	5.8	1.6	<0.5	15.6	40	<0.1	1.8	0.3	62	0.56	0.078
ROS 108736	Soil	1.4	60.1	48.0	128	0.4	23.7	13.8	704	4.12	8.7	1.9	17.3	14.1	39	0.3	5.5	1.3	65	0.61	0.049
ROS 108739	Soil	0.9	32.2	17.5	111	<0.1	17.4	11.9	514	3.90	26.6	0.8	0.7	4.5	59	0.2	1.5	<0.1	85	0.59	0.045
ROS 102845	Soil	2.9	72.1	2.2	77	<0.1	600.1	69.1	888	3.34	66.5	0.8	1.2	0.7	62	0.4	1.4	<0.1	107	8.21	0.224



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Project: ROS
 Report Date: August 12, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

WHI10000180.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 108380	Soil	17	30	0.52	332	0.055	3	1.52	0.018	0.10	0.2	0.08	3.7	<0.1	<0.05	5	0.5	<0.2
ROS 108386	Soil	16	19	1.19	182	0.092	1	1.85	0.008	0.62	0.2	<0.01	5.4	0.3	<0.05	9	<0.5	<0.2
ROS 108384	Soil	15	49	0.70	277	0.086	2	1.91	0.018	0.08	0.2	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 100733	Soil	17	35	0.57	174	0.091	1	1.94	0.024	0.11	0.1	0.06	4.2	<0.1	<0.05	7	<0.5	<0.2
ROS 102848	Soil	14	32	1.75	128	0.059	1	1.61	0.016	0.05	0.2	0.10	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 108389	Soil	24	26	0.55	220	0.068	2	1.58	0.007	0.30	0.3	0.03	4.1	0.2	<0.05	6	0.5	<0.2
ROS 108742	Soil	16	35	0.55	153	0.061	1	2.00	0.008	0.12	0.2	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2
ROS 108381	Soil	22	37	0.52	201	0.095	2	1.46	0.027	0.07	0.2	0.04	4.2	<0.1	<0.05	5	0.6	<0.2
ROS 108747	Soil	80	19	0.70	172	0.146	1	2.26	0.009	0.31	0.1	0.04	2.9	<0.1	<0.05	11	<0.5	<0.2
ROS 100732	Soil	17	23	0.48	154	0.089	1	1.52	0.009	0.07	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 102847	Soil	14	31	1.51	157	0.061	2	1.59	0.016	0.05	0.2	0.17	3.7	<0.1	<0.05	5	0.5	<0.2
ROS 108745	Soil	27	33	0.52	250	0.061	3	1.70	0.015	0.11	0.2	0.14	4.6	<0.1	<0.05	6	0.6	<0.2
ROS 108748	Soil	33	24	0.63	146	0.116	1	1.90	0.010	0.12	0.1	0.03	3.2	<0.1	<0.05	9	<0.5	<0.2
ROS 108750	Soil	14	19	0.43	119	0.076	<1	1.31	0.013	0.12	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 108743	Soil	48	25	0.99	233	0.037	1	2.27	0.008	0.19	0.1	0.16	3.7	<0.1	<0.05	10	0.5	<0.2
ROS 108744	Soil	49	32	1.19	224	0.067	2	2.40	0.010	0.13	0.1	0.20	4.1	<0.1	<0.05	12	0.5	<0.2
ROS 108736	Soil	67	47	0.88	469	0.058	4	2.18	0.013	0.13	1.0	0.28	4.8	<0.1	<0.05	10	1.3	<0.2
ROS 108739	Soil	15	33	1.14	278	0.133	1	2.52	0.010	0.21	0.1	0.04	4.9	<0.1	<0.05	10	0.6	<0.2
ROS 102845	Soil	4	575	0.99	127	0.021	1	1.31	0.004	0.27	0.2	0.52	13.7	0.3	<0.05	6	0.9	<0.2



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Project: ROS

Report Date: August 12, 2010

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

WHI10000180.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 108744	Soil	0.9	44.7	6.5	120	<0.1	14.1	14.4	821	3.97	5.8	1.6	<0.5	15.6	40	<0.1	1.8	0.3	62	0.56	0.078
REP ROS 108744	QC	0.9	43.0	6.4	117	<0.1	13.0	14.6	784	3.97	5.6	1.6	1.1	15.6	41	0.1	1.8	0.3	60	0.57	0.080
Reference Materials																					
STD DS7	Standard	23.6	105.2	63.5	398	1.0	59.5	10.6	694	2.61	47.2	4.8	68.2	4.7	86	6.0	5.5	4.2	93	1.09	0.086
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
Report Date: August 12, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI10000180.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 108744	Soil	49	32	1.19	224	0.067	2	2.40	0.010	0.13	0.1	0.20	4.1	<0.1	<0.05	12	0.5	<0.2
REP ROS 108744	QC	47	31	1.11	221	0.071	<1	2.38	0.009	0.12	0.1	0.17	4.3	<0.1	<0.05	11	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	15	268	1.09	420	0.128	40	1.17	0.119	0.52	3.9	0.21	2.4	4.3	0.17	6	3.8	0.9
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: Taku Gold Corp
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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 06, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000587.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1DX2	319	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project: ROS
 Report Date: November 06, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000587.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160043	Soil		1.0	44.4	33.9	97	0.1	14.0	6.4	239	3.94	4.9	0.5	2.7	1.7	25	0.2	0.3	0.4	80	0.26	0.043
ROS 160045	Soil		3.8	56.4	8.2	139	0.3	14.1	5.9	243	4.45	1.5	2.2	<0.5	14.2	48	0.2	<0.1	0.3	70	0.17	0.066
ROS 160036	Soil		1.3	57.4	8.2	56	0.2	14.7	5.9	161	2.91	4.9	1.3	6.6	3.9	22	<0.1	0.2	0.3	59	0.21	0.043
ROS 160034	Soil		1.2	51.8	8.6	70	0.3	23.9	7.6	173	2.96	4.5	2.7	3.3	5.2	25	0.2	0.2	0.3	56	0.20	0.057
ROS 160042	Soil		0.5	119.3	5.5	129	0.2	18.9	18.2	385	5.21	0.6	0.3	2.9	0.7	25	<0.1	<0.1	0.2	119	0.68	0.155
ROS 160041	Soil		0.7	153.1	6.7	148	0.2	23.1	21.2	434	5.85	1.2	0.4	6.5	0.8	29	0.1	<0.1	0.2	139	0.74	0.182
ROS 160033	Soil		1.3	54.9	9.8	74	0.3	18.1	6.7	168	3.06	2.9	2.8	2.4	5.3	26	<0.1	0.1	0.3	54	0.20	0.056
ROS 160037	Soil		1.2	129.3	6.9	51	0.2	14.9	7.3	267	4.54	1.5	2.6	3.2	19.3	47	<0.1	0.1	0.5	65	0.18	0.082
ROS 160039	Soil		1.5	77.9	8.4	73	0.5	13.1	5.6	182	4.02	1.6	2.1	10.8	14.2	26	0.2	<0.1	0.7	75	0.20	0.068
ROS 160040	Soil		1.2	276.9	2101	182	5.8	3.3	2.3	142	7.67	<0.5	0.9	132.1	3.9	28	0.7	<0.1	22.3	153	0.16	0.082
ROS 165527	Soil		1.2	24.0	7.1	76	<0.1	13.3	12.1	427	3.52	3.1	0.7	0.7	5.9	21	<0.1	0.5	<0.1	74	0.41	0.028
ROS 165519	Soil		1.0	28.9	12.2	76	<0.1	22.5	10.5	419	3.31	8.1	1.3	1.6	8.3	32	<0.1	0.9	0.2	63	0.54	0.038
ROS 160038	Soil		1.7	81.0	8.5	80	0.5	14.1	5.9	198	4.32	2.3	2.1	10.6	14.1	27	0.3	<0.1	0.8	79	0.20	0.069
ROS 160035	Soil		1.0	47.2	9.4	60	0.3	13.2	5.0	146	2.64	4.1	1.5	13.5	3.6	22	0.2	0.2	0.4	51	0.13	0.057
ROS 165516	Soil		1.7	26.9	16.1	56	0.3	23.3	8.5	375	2.48	7.7	1.0	5.8	5.1	28	<0.1	1.3	0.2	53	0.38	0.025
ROS 165520	Soil		2.0	29.0	19.2	68	<0.1	11.1	6.5	221	2.46	5.9	0.8	1.4	4.8	20	0.2	1.5	0.2	38	0.29	0.032
ROS 163665	Soil		1.3	75.0	7.6	66	0.3	21.0	8.7	334	2.83	4.7	1.2	2.2	5.7	17	0.1	0.2	0.2	54	0.17	0.039
ROS 163666	Soil		1.3	61.3	6.2	70	0.1	14.7	8.9	327	2.91	2.9	1.2	1.6	7.8	25	<0.1	0.2	0.1	57	0.20	0.038
ROS 163664	Soil		1.4	154.6	6.8	95	0.2	30.0	18.3	417	3.27	3.2	1.5	3.8	7.2	26	0.2	0.2	0.2	63	0.25	0.078
ROS 163663	Soil		2.4	117.9	7.2	57	0.2	12.9	5.1	143	2.66	5.3	1.1	5.8	3.2	27	0.1	0.2	0.2	58	0.19	0.063
ROS 160441	Soil		1.4	377.8	4.3	35	0.2	15.0	8.5	217	3.94	1.1	1.4	2.1	19.4	29	<0.1	<0.1	1.1	72	0.15	0.101
ROS 160431	Soil		1.2	43.1	5.8	58	0.4	28.0	11.3	185	2.55	1.4	2.2	3.5	4.4	29	0.2	0.1	0.3	52	0.47	0.144
ROS 160440	Soil		0.4	201.0	8.5	100	0.1	13.1	5.9	243	3.86	1.0	2.4	3.1	19.1	36	<0.1	0.1	0.6	55	0.24	0.088
ROS 160439	Soil		0.4	201.9	8.8	107	0.1	14.3	6.7	268	4.14	1.1	2.7	3.2	19.8	37	<0.1	0.1	0.6	61	0.22	0.093
ROS 160436	Soil		0.9	42.4	8.9	45	<0.1	14.3	6.0	190	2.71	7.9	0.7	3.4	3.8	15	<0.1	0.4	0.3	62	0.11	0.031
ROS 160438	Soil		0.6	329.1	7.8	56	0.2	20.1	11.3	253	4.40	1.3	3.1	1.8	19.8	52	0.1	<0.1	0.6	95	0.16	0.125
ROS 160437	Soil		0.8	118.8	5.9	69	<0.1	18.5	8.5	269	4.05	1.9	2.1	2.4	18.2	29	<0.1	0.1	0.3	61	0.16	0.083
ROS 160435	Soil		0.9	141.5	7.1	55	0.1	29.5	13.3	225	4.31	1.9	1.9	18.7	16.4	29	<0.1	0.1	0.6	78	0.24	0.108
ROS 160433	Soil		1.4	69.0	10.0	77	0.2	21.4	10.7	217	3.95	2.8	1.5	4.4	10.2	31	0.1	0.2	0.6	79	0.18	0.074
ROS 160434	Soil		1.1	77.3	8.5	62	0.2	19.6	8.6	201	3.41	4.7	1.6	7.1	7.6	33	<0.1	0.2	0.4	74	0.18	0.071

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160043	Soil	8	78	0.66	342	0.117	<1	1.64	0.039	0.24	0.2	0.02	5.2	0.1	0.27	5	<0.5	<0.2
ROS 160045	Soil	47	46	1.27	451	0.160	<1	2.27	0.043	0.92	<0.1	<0.01	3.6	0.7	0.56	6	1.7	<0.2
ROS 160036	Soil	17	34	0.58	197	0.099	<1	1.77	0.013	0.18	0.1	0.02	3.2	0.2	0.08	6	<0.5	0.2
ROS 160034	Soil	25	43	0.73	198	0.111	<1	1.99	0.013	0.25	0.1	0.03	3.5	0.3	<0.05	6	0.7	0.2
ROS 160042	Soil	7	26	1.17	345	0.147	<1	2.26	0.061	0.93	<0.1	<0.01	8.3	0.3	0.48	7	0.7	<0.2
ROS 160041	Soil	7	17	1.36	412	0.180	<1	2.61	0.064	1.06	<0.1	0.01	9.7	0.4	0.54	8	<0.5	<0.2
ROS 160033	Soil	28	44	0.73	190	0.120	<1	2.01	0.015	0.38	<0.1	0.02	3.1	0.4	0.07	6	<0.5	<0.2
ROS 160037	Soil	36	43	1.05	262	0.140	<1	2.41	0.029	0.89	<0.1	<0.01	3.7	0.6	0.39	7	1.1	0.6
ROS 160039	Soil	31	36	0.91	179	0.138	<1	2.04	0.030	0.70	<0.1	<0.01	3.7	0.5	0.30	6	<0.5	<0.2
ROS 160040	Soil	35	8	0.64	123	0.157	<1	1.65	0.192	1.41	<0.1	0.02	9.1	0.9	2.14	9	5.8	4.8
ROS 165527	Soil	23	20	0.72	205	0.092	<1	1.79	0.013	0.42	0.1	0.01	6.7	0.2	<0.05	6	<0.5	<0.2
ROS 165519	Soil	28	41	0.77	306	0.098	2	1.88	0.016	0.12	0.2	0.03	5.9	<0.1	<0.05	7	<0.5	<0.2
ROS 160038	Soil	34	38	0.95	185	0.147	<1	2.10	0.032	0.76	0.1	0.01	4.0	0.6	0.32	6	1.1	0.2
ROS 160035	Soil	18	32	0.59	209	0.089	1	1.62	0.016	0.20	<0.1	0.03	2.6	0.2	0.12	6	0.7	0.3
ROS 165516	Soil	25	34	0.46	400	0.057	1	1.61	0.018	0.08	0.2	0.08	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165520	Soil	17	18	0.28	178	0.022	2	1.17	0.008	0.11	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 163665	Soil	20	27	0.53	129	0.121	1	1.61	0.012	0.19	<0.1	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 163666	Soil	28	20	0.67	155	0.155	<1	1.99	0.016	0.40	0.1	0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 163664	Soil	30	31	0.87	224	0.156	<1	2.06	0.018	0.59	0.1	0.02	3.9	0.4	<0.05	7	0.6	<0.2
ROS 163663	Soil	13	26	0.50	178	0.095	1	1.48	0.014	0.17	0.2	0.03	2.6	0.2	0.06	5	0.7	<0.2
ROS 160441	Soil	31	46	0.90	272	0.124	<1	1.99	0.029	0.91	0.2	<0.01	4.0	0.5	0.43	7	1.1	0.3
ROS 160431	Soil	25	34	0.89	292	0.126	<1	1.81	0.020	0.48	0.1	0.03	3.9	0.3	0.11	7	0.6	<0.2
ROS 160440	Soil	22	37	0.92	355	0.138	<1	2.31	0.030	1.09	<0.1	<0.01	3.2	0.8	0.36	6	0.5	<0.2
ROS 160439	Soil	27	39	0.99	377	0.151	<1	2.45	0.029	1.14	<0.1	0.01	3.5	0.8	0.38	7	0.8	<0.2
ROS 160436	Soil	12	32	0.46	133	0.097	1	1.69	0.011	0.13	0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
ROS 160438	Soil	55	46	1.03	326	0.154	<1	2.67	0.023	1.14	<0.1	0.01	6.2	0.7	0.39	8	1.1	0.3
ROS 160437	Soil	51	40	0.99	248	0.142	<1	2.10	0.022	0.94	<0.1	0.01	4.7	0.6	0.24	6	0.6	<0.2
ROS 160435	Soil	51	46	1.05	254	0.165	<1	2.70	0.035	1.06	0.1	<0.01	4.3	0.6	0.25	8	0.6	<0.2
ROS 160433	Soil	33	35	0.97	238	0.154	<1	2.42	0.036	0.65	<0.1	<0.01	4.6	0.4	0.27	8	<0.5	0.3
ROS 160434	Soil	28	32	0.77	211	0.124	<1	2.16	0.022	0.37	0.1	0.01	4.0	0.3	0.17	7	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160432	Soil	1.7	70.8	10.1	74	0.2	19.3	9.3	209	3.83	2.8	1.6	5.9	9.8	31	<0.1	0.1	0.6	77	0.16	0.070
ROS 160430	Soil	1.1	36.9	5.6	61	0.2	22.9	10.5	202	2.66	2.9	1.3	1.7	5.3	18	0.1	0.2	0.2	53	0.24	0.084
ROS 165521	Soil	1.9	25.8	20.4	76	0.2	13.9	7.5	529	2.60	5.9	1.6	1.7	7.9	38	<0.1	1.1	0.2	48	0.57	0.056
ROS 165525	Soil	1.0	31.3	13.7	89	<0.1	20.1	11.7	591	2.98	6.6	0.6	9.7	7.2	29	<0.1	0.8	0.6	60	0.57	0.036
ROS 165523	Soil	1.1	39.0	20.3	78	<0.1	13.9	8.7	625	2.67	5.3	1.9	3.6	18.9	34	0.4	2.2	0.1	41	1.30	0.090
ROS 165522	Soil	2.1	22.4	11.7	77	0.1	18.2	28.6	2635	4.41	7.5	1.9	3.4	3.9	53	0.4	1.6	0.2	44	1.30	0.086
ROS 165518	Soil	1.0	27.3	10.2	70	<0.1	17.8	7.9	372	2.67	7.3	1.1	3.3	8.2	26	<0.1	0.8	0.2	52	0.45	0.060
ROS 165515	Soil	1.0	22.0	15.5	64	0.3	17.1	10.1	348	2.65	7.7	1.2	3.9	6.7	30	<0.1	2.3	0.3	50	0.45	0.028
ROS 165517	Soil	1.6	25.8	16.7	71	<0.1	17.5	8.8	347	2.64	6.6	1.0	2.0	7.3	27	0.1	1.2	0.8	51	0.39	0.035
ROS 165524	Soil	0.9	27.5	14.7	85	0.1	16.5	9.8	594	3.17	11.7	1.2	2.0	12.1	22	<0.1	1.1	0.2	53	0.44	0.048
ROS 163673	Soil	0.8	20.1	7.1	63	0.1	15.9	6.7	179	2.19	5.1	0.9	8.0	1.9	24	0.2	0.3	0.2	52	0.34	0.080
ROS 163675	Soil	1.6	25.0	7.4	78	0.2	14.9	8.9	321	2.70	4.6	1.1	7.9	2.7	23	0.3	0.2	0.3	61	0.36	0.096
ROS 163671	Soil	0.8	25.2	7.0	57	<0.1	21.5	9.4	336	2.27	8.4	0.8	1.2	3.6	42	0.2	0.6	0.1	53	0.74	0.085
ROS 163672	Soil	0.8	31.3	7.2	63	<0.1	24.4	10.0	377	2.36	8.6	0.6	9.3	3.8	54	0.3	0.7	0.1	57	1.25	0.096
ROS 163670	Soil	0.9	27.1	6.9	72	<0.1	24.1	10.4	622	2.30	8.4	0.9	1.2	3.1	48	0.4	0.7	0.1	51	0.88	0.092
ROS 163669	Soil	1.2	56.6	8.0	60	0.3	13.2	9.4	342	2.79	5.4	1.5	2.3	5.7	24	0.1	0.3	0.1	59	0.21	0.053
ROS 163667	Soil	1.4	83.9	8.4	74	0.1	18.4	10.7	304	3.18	5.8	1.2	2.7	8.4	25	0.1	0.3	0.2	65	0.22	0.034
ROS 163668	Soil	1.4	61.4	6.8	74	0.1	14.3	10.6	386	2.99	4.6	1.4	1.8	7.8	27	0.1	0.2	0.1	57	0.27	0.048
ROS 141755	Soil	0.6	31.7	7.9	66	<0.1	25.2	9.6	354	2.50	9.5	0.6	2.9	3.7	37	0.2	0.6	0.1	60	0.64	0.062
ROS 141760	Soil	0.6	16.9	8.4	60	<0.1	14.6	7.7	345	2.42	5.6	0.7	1.0	6.3	31	<0.1	0.5	0.1	51	0.31	0.021
ROS 141759	Soil	0.8	17.5	9.5	54	<0.1	18.0	8.6	314	2.47	7.9	0.7	11.1	5.2	28	<0.1	0.5	0.1	54	0.30	0.022
ROS 141756	Soil	0.6	16.4	5.7	52	<0.1	20.5	8.5	284	2.33	5.4	0.4	2.1	4.0	20	<0.1	0.4	0.1	53	0.22	0.018
ROS 141752	Soil	0.9	21.0	7.8	57	<0.1	17.5	8.4	296	2.73	9.8	0.4	1.8	2.9	21	<0.1	0.6	0.1	67	0.20	0.029
ROS 141754	Soil	0.6	32.1	7.2	49	<0.1	24.0	9.5	343	2.46	9.4	0.6	3.0	3.9	27	<0.1	0.5	0.1	54	0.37	0.059
ROS 141753	Soil	1.4	40.5	7.5	121	0.2	14.4	11.5	430	3.39	8.8	0.4	<0.5	1.5	36	0.1	0.4	<0.1	88	0.40	0.095
ROS 141758	Soil	0.7	16.2	8.6	50	<0.1	19.9	8.9	376	2.45	8.8	0.8	2.3	6.1	23	<0.1	0.5	0.1	55	0.24	0.024
ROS 165862	Soil	0.7	26.3	9.5	51	0.1	16.7	9.1	400	2.14	7.0	2.4	3.8	5.9	33	0.1	0.8	0.1	41	0.67	0.061
ROS 165860	Soil	0.8	15.3	8.1	48	<0.1	16.0	7.8	183	2.37	8.2	0.7	3.0	3.8	25	<0.1	0.6	0.1	49	0.35	0.046
ROS 165857	Soil	0.8	35.3	8.9	50	<0.1	27.6	10.1	363	2.50	10.2	0.6	7.5	6.9	25	<0.1	0.6	0.2	54	0.40	0.043
ROS 165858	Soil	1.3	26.6	11.9	56	0.3	18.9	10.3	449	2.52	8.3	0.8	6.4	9.6	24	<0.1	0.9	0.2	45	0.43	0.029

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 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	0.2		
ROS 160432	Soil			34	35	0.98	235	0.147	<1	2.41	0.036	0.61	0.1	0.01	4.5	0.4	0.29	8	<0.5	<0.2
ROS 160430	Soil			17	29	0.73	147	0.124	<1	1.58	0.015	0.35	0.1	0.01	3.1	0.3	0.05	6	<0.5	<0.2
ROS 165521	Soil			34	23	0.46	333	0.047	1	1.43	0.017	0.12	0.4	0.05	4.4	<0.1	<0.05	5	0.7	<0.2
ROS 165525	Soil			24	25	0.74	365	0.095	2	1.71	0.019	0.29	0.2	0.04	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 165523	Soil			56	15	0.31	276	0.021	2	0.97	0.012	0.11	0.6	0.04	5.1	<0.1	<0.05	4	0.7	<0.2
ROS 165522	Soil			18	19	0.39	743	0.031	3	0.99	0.015	0.09	0.2	0.06	3.9	<0.1	0.09	4	0.7	<0.2
ROS 165518	Soil			25	27	0.66	225	0.098	1	1.50	0.021	0.18	0.2	0.04	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 165515	Soil			19	29	0.51	416	0.058	2	1.71	0.018	0.10	0.2	0.19	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 165517	Soil			18	28	0.51	265	0.056	2	1.56	0.017	0.13	0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165524	Soil			19	19	0.55	348	0.062	2	1.53	0.011	0.23	0.2	0.03	5.3	0.1	<0.05	6	<0.5	<0.2
ROS 163673	Soil			12	24	0.51	234	0.083	1	1.42	0.023	0.08	0.2	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 163675	Soil			15	22	0.56	175	0.083	<1	1.53	0.025	0.10	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 163671	Soil			13	26	0.54	263	0.082	3	1.23	0.033	0.07	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 163672	Soil			13	28	0.69	300	0.092	3	1.22	0.039	0.09	0.3	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 163670	Soil			12	27	0.58	304	0.078	3	1.26	0.038	0.08	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 163669	Soil			26	21	0.54	152	0.131	<1	2.01	0.015	0.25	<0.1	0.03	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 163667	Soil			23	27	0.67	189	0.149	1	2.26	0.020	0.27	<0.1	0.02	3.6	0.2	<0.05	7	<0.5	<0.2
ROS 163668	Soil			26	22	0.66	160	0.146	<1	2.12	0.019	0.37	<0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 141755	Soil			12	30	0.67	243	0.080	1	1.49	0.029	0.07	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 141760	Soil			12	24	0.61	144	0.085	<1	1.53	0.017	0.07	0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 141759	Soil			12	29	0.57	227	0.068	<1	1.66	0.011	0.05	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 141756	Soil			9	33	0.56	142	0.076	<1	1.56	0.015	0.06	0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 141752	Soil			9	29	0.55	180	0.060	<1	1.79	0.009	0.04	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 141754	Soil			14	30	0.53	224	0.070	1	1.34	0.022	0.06	0.2	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 141753	Soil			4	24	1.01	236	0.073	<1	2.44	0.014	0.09	0.1	0.01	4.1	<0.1	<0.05	10	<0.5	<0.2
ROS 141758	Soil			18	31	0.49	197	0.066	<1	1.77	0.013	0.07	0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 165862	Soil			18	22	0.42	293	0.052	1	1.28	0.017	0.06	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 165860	Soil			11	24	0.44	256	0.057	<1	1.44	0.013	0.06	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165857	Soil			20	30	0.54	213	0.066	<1	1.41	0.021	0.05	0.2	0.05	4.8	<0.1	<0.05	4	<0.5	<0.2
ROS 165858	Soil			26	26	0.47	272	0.053	<1	1.48	0.016	0.06	0.2	0.07	4.1	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165849	Soil	0.7	14.8	7.3	46	0.1	12.4	6.3	196	2.21	6.7	0.7	2.8	6.2	11	<0.1	1.7	0.2	49	0.12	0.021
ROS 165856	Soil	2.8	19.9	16.0	72	<0.1	12.9	8.8	247	3.27	13.3	1.4	16.9	17.1	12	<0.1	1.2	0.2	48	0.11	0.018
ROS 165853	Soil	0.9	27.9	11.2	66	0.1	17.8	9.0	433	2.35	7.9	1.0	3.9	6.7	30	0.1	1.1	0.2	48	0.45	0.026
ROS 165859	Soil	3.0	20.7	9.6	64	<0.1	14.7	7.1	541	2.32	6.2	1.1	2.0	10.9	22	<0.1	1.7	0.2	32	0.33	0.032
ROS 160026	Soil	1.0	25.1	7.1	72	0.2	18.5	11.1	312	2.81	3.7	1.8	0.9	6.3	23	0.1	0.2	0.1	54	0.26	0.053
ROS 160028	Soil	1.3	22.3	7.1	74	0.2	14.7	10.3	386	2.65	3.2	2.2	1.1	7.1	27	0.1	0.1	<0.1	52	0.29	0.056
ROS 160030	Soil	0.1	4.9	1.1	13	<0.1	3.3	1.5	79	0.32	1.0	<0.1	<0.5	0.4	10	<0.1	<0.1	<0.1	7	0.30	0.019
ROS 160031	Soil	0.9	25.6	7.8	74	0.1	22.4	11.4	641	2.42	7.7	0.9	1.8	3.2	33	0.3	0.5	0.2	53	0.57	0.078
ROS 148046	Soil	0.7	17.5	6.6	94	<0.1	28.9	11.5	464	2.90	2.1	1.2	<0.5	11.7	44	0.1	<0.1	0.4	48	0.20	0.044
ROS 148052	Soil	0.7	31.4	11.1	94	<0.1	20.4	11.6	250	3.39	1.9	2.0	<0.5	12.8	48	0.4	0.1	0.3	46	0.18	0.060
ROS 148051	Soil	0.8	32.6	10.6	85	<0.1	19.4	10.8	233	3.26	1.8	2.0	<0.5	12.2	44	0.4	0.1	0.3	43	0.16	0.058
ROS 148048	Soil	0.6	29.7	7.4	75	<0.1	25.8	11.2	394	3.39	4.1	0.6	0.6	5.7	23	<0.1	0.2	0.1	52	0.11	0.019
ROS 160032	Soil	1.1	40.9	7.2	70	0.1	23.1	11.6	317	2.93	5.2	1.3	1.9	7.4	30	0.1	0.2	0.2	59	0.34	0.069
ROS 160029	Soil	0.8	34.1	7.6	74	0.1	27.5	11.0	467	2.40	8.5	1.0	2.0	2.9	47	0.4	0.7	0.1	52	0.99	0.074
ROS 160025	Soil	0.7	23.2	6.2	72	0.1	16.4	9.6	353	2.96	3.8	1.5	2.7	7.6	24	0.2	0.2	0.1	57	0.31	0.058
ROS 160027	Soil	1.3	23.9	6.3	79	0.2	14.6	8.9	411	2.91	3.1	2.6	2.1	9.0	34	0.2	0.2	<0.1	50	0.39	0.047
ROS 141762	Soil	0.6	24.7	7.5	46	<0.1	20.8	9.3	296	2.62	7.8	0.9	3.4	4.7	23	<0.1	0.6	0.1	60	0.23	0.019
ROS 141750	Soil	1.1	39.9	8.3	80	0.1	21.5	11.0	251	3.29	8.7	0.8	1.8	4.3	40	<0.1	0.6	0.1	87	0.31	0.016
ROS 141761	Soil	0.9	27.4	8.4	59	<0.1	24.9	10.8	570	2.64	9.5	0.7	10.3	5.1	27	<0.1	0.6	0.2	58	0.27	0.024
ROS 141751	Soil	1.1	17.4	8.7	59	<0.1	17.4	8.8	226	2.80	10.9	0.3	1.1	2.4	19	<0.1	0.5	0.1	71	0.16	0.031
ROS 165925	Soil	0.7	8.8	7.7	64	<0.1	11.2	9.9	378	2.70	5.3	1.2	<0.5	9.8	29	<0.1	0.5	<0.1	41	0.29	0.040
ROS 165926	Soil	7.2	19.9	10.1	72	1.1	14.5	7.6	405	2.87	6.3	1.0	155.4	8.1	25	<0.1	0.5	0.2	50	0.29	0.040
ROS 165924	Soil	0.7	15.6	11.3	70	0.1	27.8	19.7	503	3.10	4.4	0.5	0.9	3.1	51	<0.1	0.5	<0.1	63	0.54	0.024
ROS 165922	Soil	0.7	25.7	30.5	110	<0.1	28.7	19.0	764	4.73	4.5	0.8	11.5	6.6	23	<0.1	0.5	0.2	103	0.31	0.026
ROS 165923	Soil	0.7	32.1	8.9	63	<0.1	20.6	13.1	415	3.28	8.0	0.7	3.2	6.7	26	<0.1	0.6	0.1	71	0.30	0.015
ROS 165921	Soil	1.7	17.9	13.3	66	<0.1	8.0	3.7	430	2.68	3.4	2.3	2.6	18.8	13	<0.1	0.9	0.3	27	0.19	0.025
ROS 165700	Soil	1.4	19.4	22.2	73	0.2	22.4	11.1	450	2.94	8.3	0.9	1.1	9.5	36	0.1	0.8	0.2	57	0.47	0.041
ROS 165695	Soil	1.2	27.4	16.9	79	0.1	19.1	6.9	267	2.72	7.2	0.9	3.1	9.1	33	<0.1	1.7	0.5	49	0.31	0.016
ROS 165698	Soil	1.1	27.9	25.0	63	0.1	23.5	11.1	369	2.99	9.2	0.9	6.9	13.7	32	<0.1	1.0	0.2	53	0.41	0.027
ROS 165697	Soil	1.2	16.0	12.4	61	0.1	19.8	10.9	562	2.54	7.1	0.5	<0.5	4.3	28	<0.1	0.7	0.2	54	0.25	0.028

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165849	Soil	10	23	0.39	178	0.046	1	1.64	0.008	0.08	0.1	0.01	2.3	0.1	<0.05	5	<0.5	<0.2
ROS 165856	Soil	10	18	0.41	136	0.030	<1	1.67	0.005	0.16	0.4	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 165853	Soil	18	25	0.57	267	0.081	1	1.53	0.017	0.10	0.2	0.05	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 165859	Soil	26	14	0.36	250	0.026	3	1.30	0.010	0.19	0.3	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160026	Soil	26	27	0.70	227	0.140	<1	1.80	0.013	0.33	<0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2
ROS 160028	Soil	29	21	0.63	206	0.126	<1	1.85	0.013	0.36	<0.1	0.02	3.0	0.3	<0.05	6	<0.5	<0.2
ROS 160030	Soil	2	3	0.09	46	0.015	1	0.21	0.039	0.04	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
ROS 160031	Soil	14	29	0.55	287	0.067	2	1.34	0.021	0.07	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 148046	Soil	21	41	1.40	407	0.238	<1	2.36	0.010	0.99	<0.1	<0.01	4.2	0.5	<0.05	9	<0.5	<0.2
ROS 148052	Soil	34	25	0.82	435	0.123	<1	2.28	0.011	0.74	<0.1	<0.01	3.5	0.5	<0.05	6	<0.5	0.3
ROS 148051	Soil	36	24	0.82	411	0.117	<1	2.15	0.011	0.71	<0.1	<0.01	3.5	0.5	<0.05	6	<0.5	<0.2
ROS 148048	Soil	10	35	0.86	176	0.191	<1	2.36	0.008	0.76	<0.1	0.01	3.6	0.5	<0.05	9	<0.5	<0.2
ROS 160032	Soil	23	34	0.82	233	0.122	<1	1.83	0.017	0.33	0.1	0.01	3.3	0.2	<0.05	6	<0.5	<0.2
ROS 160029	Soil	13	27	0.57	285	0.065	3	1.33	0.023	0.10	0.2	0.03	3.3	<0.1	<0.05	4	0.6	<0.2
ROS 160025	Soil	27	26	0.75	237	0.151	<1	1.94	0.015	0.52	0.1	0.02	3.2	0.3	<0.05	7	<0.5	<0.2
ROS 160027	Soil	32	20	0.69	218	0.144	<1	2.02	0.016	0.52	<0.1	0.02	3.4	0.3	<0.05	7	<0.5	<0.2
ROS 141762	Soil	14	34	0.56	206	0.076	<1	1.60	0.013	0.05	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 141750	Soil	20	38	0.87	224	0.111	<1	2.49	0.012	0.05	<0.1	0.03	5.9	<0.1	<0.05	8	<0.5	<0.2
ROS 141761	Soil	15	36	0.57	244	0.074	<1	1.75	0.016	0.08	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 141751	Soil	8	33	0.62	185	0.068	<1	2.15	0.010	0.05	0.2	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
ROS 165925	Soil	11	18	0.81	144	0.129	<1	1.76	0.008	0.37	0.2	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 165926	Soil	18	21	0.71	292	0.055	2	1.93	0.010	0.17	19.3	0.03	4.2	<0.1	<0.05	7	<0.5	0.8
ROS 165924	Soil	8	59	1.57	236	0.174	<1	2.24	0.009	0.38	0.3	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 165922	Soil	32	78	2.13	400	0.174	<1	3.22	0.013	0.77	0.1	0.02	11.5	0.3	<0.05	11	<0.5	<0.2
ROS 165923	Soil	24	35	1.06	179	0.157	<1	2.09	0.016	0.23	0.7	0.01	5.6	0.2	<0.05	7	<0.5	<0.2
ROS 165921	Soil	30	10	0.17	140	0.006	1	0.87	0.008	0.09	0.3	0.05	4.8	<0.1	<0.05	3	<0.5	0.2
ROS 165700	Soil	19	44	0.49	347	0.061	2	2.02	0.014	0.15	0.2	0.03	4.9	<0.1	<0.05	7	<0.5	<0.2
ROS 165695	Soil	12	32	0.57	216	0.078	2	1.85	0.016	0.10	0.2	0.04	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 165698	Soil	30	34	0.56	302	0.051	1	1.99	0.011	0.17	0.3	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2
ROS 165697	Soil	9	31	0.46	377	0.063	2	1.91	0.014	0.09	0.2	0.02	3.5	<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	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165699	Soil		0.9	26.8	25.0	105	<0.1	25.3	13.5	490	3.46	8.9	1.2	2.0	19.3	52	<0.1	0.9	0.1	57	0.45	0.043
ROS 165696	Soil		1.1	19.2	10.8	66	<0.1	21.2	9.4	371	2.88	8.1	0.6	2.2	4.0	28	<0.1	1.1	0.2	62	0.26	0.025
ROS 147201	Soil		0.9	13.2	12.3	50	<0.1	18.8	9.3	360	2.52	6.5	0.4	2.0	4.9	20	<0.1	0.5	0.2	57	0.17	0.029
ROS 147200	Soil		0.6	26.7	9.4	110	<0.1	12.4	11.5	691	3.78	6.5	1.0	<0.5	15.4	24	<0.1	0.6	0.1	63	0.22	0.051
ROS 147199	Soil		0.8	18.3	11.5	47	<0.1	21.1	8.1	214	2.69	8.7	0.5	1.3	4.4	25	<0.1	0.6	0.2	59	0.24	0.029
ROS 147198	Soil		0.6	29.6	8.9	67	<0.1	14.2	9.8	296	2.39	3.9	1.4	1.6	10.0	30	<0.1	0.4	0.1	43	0.30	0.028
ROS 165851	Soil		1.0	23.1	19.9	86	<0.1	17.9	9.2	473	3.16	6.4	0.8	0.6	6.2	36	<0.1	0.9	0.2	64	0.28	0.017
ROS 165861	Soil		2.2	30.4	14.1	70	<0.1	31.5	10.4	481	2.74	9.2	1.7	3.8	8.2	35	0.2	1.0	0.2	54	0.47	0.033
ROS 165855	Soil		1.0	22.1	19.9	94	0.1	16.8	11.7	463	3.77	14.3	1.2	0.6	18.1	26	0.1	1.6	0.1	53	0.22	0.027
ROS 165854	Soil		1.4	12.5	13.3	49	0.3	15.7	6.0	242	2.27	6.7	0.4	2.8	3.0	24	0.1	0.5	0.2	55	0.29	0.018
ROS 173163	Soil		1.4	17.5	16.3	70	<0.1	14.2	7.3	358	2.92	5.2	0.9	1.3	6.0	25	<0.1	0.7	0.4	56	0.29	0.025
ROS 173164	Soil		0.8	21.0	10.8	47	<0.1	18.3	7.6	255	2.31	6.6	0.9	3.0	6.0	28	<0.1	0.4	0.2	54	0.33	0.038
ROS 173161	Soil		1.0	20.9	23.9	60	<0.1	17.1	7.1	255	2.74	8.4	0.9	1.3	7.0	25	<0.1	0.6	0.3	57	0.24	0.020
ROS 173165	Soil		0.7	18.4	9.7	66	<0.1	14.0	6.7	268	2.44	5.3	0.9	<0.5	6.3	30	<0.1	0.5	0.2	54	0.33	0.034
ROS 173170	Soil		0.7	35.9	12.3	58	0.1	25.7	9.2	361	2.60	9.3	1.0	7.8	4.7	45	0.1	0.6	0.2	57	0.67	0.073
ROS 173169	Soil		1.3	16.7	12.5	61	0.3	19.9	9.1	304	2.91	8.9	0.5	2.0	3.7	24	0.1	0.5	0.2	64	0.30	0.022
ROS 173173	Soil		0.9	31.1	10.8	76	0.1	26.6	9.7	408	2.62	9.4	0.8	3.5	5.1	47	0.3	0.8	0.2	58	0.88	0.087
ROS 173172	Soil		0.8	31.4	17.1	87	<0.1	20.4	9.2	628	3.17	5.3	1.4	4.3	10.7	30	0.2	0.5	0.3	54	0.46	0.064
ROS 173167	Soil		1.0	23.0	13.8	57	<0.1	16.9	7.3	289	2.43	6.4	1.1	3.2	6.6	31	0.1	0.4	0.2	54	0.40	0.040
ROS 173171	Soil		0.9	31.6	15.5	87	<0.1	22.3	9.2	620	3.13	6.0	1.2	2.0	10.2	32	0.2	0.6	0.3	56	0.48	0.065
ROS 173162	Soil		0.7	19.7	12.6	51	<0.1	17.4	7.7	336	2.64	8.1	0.8	1.5	9.1	27	0.1	0.6	0.2	60	0.29	0.028
ROS 165713	Soil		0.7	36.2	10.4	79	<0.1	26.3	10.0	333	2.99	10.2	1.0	5.6	7.1	64	<0.1	0.9	0.2	68	0.48	0.041
ROS 147191	Soil		0.8	17.1	15.8	67	<0.1	20.9	10.2	393	2.87	7.9	1.0	6.7	6.4	46	0.1	0.6	0.2	67	0.55	0.033
ROS 147197	Soil		0.5	37.7	11.6	100	<0.1	15.6	10.9	491	3.66	5.4	1.2	11.8	8.8	31	<0.1	0.6	0.3	49	0.37	0.082
ROS 147193	Soil		1.3	31.2	31.9	85	0.1	32.9	13.6	536	3.22	8.4	1.1	8.5	9.7	48	<0.1	0.8	0.2	70	0.41	0.034
ROS 147196	Soil		0.7	12.9	9.1	62	<0.1	17.5	8.1	321	2.50	8.2	0.4	<0.5	3.8	30	<0.1	0.4	0.2	63	0.26	0.039
ROS 147194	Soil		0.7	39.6	20.3	87	<0.1	22.1	10.5	328	3.13	9.9	1.5	5.4	14.8	75	<0.1	0.8	0.3	64	0.55	0.069
ROS 147195	Soil		0.9	24.0	12.7	69	<0.1	24.3	9.9	259	2.84	9.6	0.8	4.0	7.3	46	<0.1	0.6	0.2	64	0.30	0.034
ROS 147192	Soil		0.8	17.5	14.7	64	<0.1	19.1	10.7	507	2.71	6.2	0.7	2.2	5.0	44	0.1	0.5	0.2	68	0.40	0.026
ROS 147190	Soil		0.9	47.9	10.7	103	0.1	29.6	12.5	458	3.41	12.5	1.1	6.8	8.8	65	0.1	0.9	0.1	80	0.57	0.037

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165699	Soil	39	41	0.78	231	0.109	2	2.47	0.012	0.22	0.2	0.02	4.3	0.1	<0.05	10	<0.5	<0.2
ROS 165696	Soil	8	32	0.53	251	0.065	2	1.91	0.015	0.09	0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147201	Soil	10	30	0.42	235	0.065	<1	1.66	0.013	0.07	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147200	Soil	24	21	1.00	170	0.140	1	2.31	0.010	0.64	0.1	0.02	5.3	0.4	<0.05	11	<0.5	<0.2
ROS 147199	Soil	11	37	0.50	201	0.090	<1	1.77	0.014	0.07	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 147198	Soil	21	21	0.68	133	0.141	<1	1.76	0.010	0.25	<0.1	0.03	3.6	0.3	<0.05	6	<0.5	<0.2
ROS 165851	Soil	9	28	0.72	301	0.098	<1	2.09	0.015	0.19	0.2	0.01	3.3	0.1	<0.05	8	<0.5	<0.2
ROS 165861	Soil	23	46	0.55	300	0.083	1	1.71	0.027	0.10	0.2	0.06	5.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165855	Soil	10	23	0.80	203	0.118	1	2.42	0.011	0.37	0.2	0.02	3.8	0.3	<0.05	10	<0.5	<0.2
ROS 165854	Soil	9	28	0.36	278	0.056	<1	1.37	0.014	0.09	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173163	Soil	15	28	0.52	151	0.059	1	1.66	0.010	0.11	0.1	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
ROS 173164	Soil	25	30	0.46	203	0.076	1	1.52	0.014	0.07	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173161	Soil	18	28	0.51	144	0.075	1	1.98	0.011	0.08	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
ROS 173165	Soil	20	26	0.56	167	0.090	<1	1.72	0.018	0.08	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 173170	Soil	18	32	0.55	321	0.087	2	1.60	0.032	0.07	0.2	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173169	Soil	11	34	0.61	200	0.106	2	1.92	0.014	0.10	0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
ROS 173173	Soil	17	32	0.66	327	0.092	4	1.50	0.037	0.09	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173172	Soil	30	35	0.79	206	0.095	<1	1.58	0.018	0.22	0.2	0.03	5.4	0.2	<0.05	7	0.5	<0.2
ROS 173167	Soil	20	34	0.56	194	0.096	1	1.67	0.019	0.08	0.1	0.04	4.1	<0.1	<0.05	6	<0.5	<0.2
ROS 173171	Soil	29	36	0.81	223	0.107	2	1.71	0.021	0.22	0.2	0.03	5.5	0.2	<0.05	7	<0.5	<0.2
ROS 173162	Soil	20	32	0.51	205	0.084	2	1.95	0.014	0.09	<0.1	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 165713	Soil	22	42	0.75	209	0.127	2	1.97	0.022	0.09	0.2	0.03	5.7	<0.1	<0.05	7	<0.5	0.3
ROS 147191	Soil	15	39	0.61	264	0.110	2	2.23	0.022	0.11	0.1	0.02	5.2	0.1	<0.05	7	<0.5	<0.2
ROS 147197	Soil	37	22	0.95	196	0.027	1	2.44	0.014	0.19	0.1	0.04	5.9	0.1	<0.05	8	<0.5	<0.2
ROS 147193	Soil	19	61	0.77	221	0.129	1	2.26	0.021	0.14	0.2	0.03	5.4	0.1	<0.05	7	<0.5	<0.2
ROS 147196	Soil	11	41	0.52	217	0.095	<1	1.86	0.017	0.08	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 147194	Soil	32	37	0.66	175	0.114	1	2.23	0.014	0.15	0.1	0.03	4.1	<0.1	<0.05	8	<0.5	<0.2
ROS 147195	Soil	18	41	0.55	204	0.091	1	1.96	0.018	0.07	0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147192	Soil	14	34	0.63	277	0.120	2	1.94	0.029	0.10	0.1	0.02	3.7	0.1	<0.05	7	<0.5	<0.2
ROS 147190	Soil	26	36	0.94	204	0.145	1	2.38	0.026	0.14	0.2	0.06	5.8	0.1	<0.05	9	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163656	Soil		1.3	67.4	8.5	97	<0.1	47.5	19.1	376	4.52	4.1	1.5	0.5	12.8	8	<0.1	0.3	0.2	56	0.09	0.028
ROS 163653	Soil		2.1	29.4	10.1	216	<0.1	21.0	15.9	419	3.55	4.3	1.0	4.0	5.4	32	0.2	0.2	0.2	94	0.25	0.039
ROS 163652	Soil		1.3	34.2	6.2	136	<0.1	31.0	17.3	417	3.24	3.7	1.6	1.4	12.3	40	0.2	0.2	0.2	63	0.39	0.040
ROS 163662	Soil		0.8	47.9	12.3	94	0.3	21.5	8.7	226	2.52	1.2	1.2	1.5	2.4	20	0.2	0.1	0.2	43	0.19	0.049
ROS 163657	Soil		1.1	18.7	8.0	36	<0.1	14.7	6.5	140	2.60	5.4	0.9	2.4	4.6	14	<0.1	0.2	0.2	55	0.13	0.036
ROS 163655	Soil		1.2	32.9	6.7	45	<0.1	30.8	14.5	162	3.26	2.2	2.0	<0.5	18.1	6	<0.1	0.1	0.2	37	0.19	0.104
ROS 163654	Soil		4.8	68.7	10.0	339	<0.1	35.5	20.0	539	5.68	4.1	1.4	<0.5	4.4	34	0.2	0.2	0.3	191	0.16	0.087
ROS 163651	Soil		1.3	27.9	8.8	90	0.1	29.3	15.4	387	3.35	9.6	0.8	1.4	5.5	17	0.3	0.5	0.1	62	0.20	0.036
ROS 173168	Soil		0.7	28.1	8.9	56	<0.1	25.9	9.8	461	2.56	8.9	0.8	6.9	4.2	33	0.1	0.6	0.1	58	0.60	0.057
ROS 163661	Soil		1.6	43.9	11.5	83	0.3	23.5	11.5	272	2.97	3.8	1.7	<0.5	3.5	23	0.2	0.2	0.2	59	0.23	0.047
ROS 163658	Soil		2.7	49.9	16.3	92	<0.1	19.1	11.1	400	3.60	6.7	2.0	1.5	5.3	21	0.2	0.3	0.3	91	0.14	0.041
ROS 163660	Soil		1.7	49.4	11.2	84	<0.1	24.5	11.5	344	3.62	5.0	1.4	2.8	6.4	18	0.1	0.2	0.2	71	0.16	0.046
ROS 147205	Soil		1.0	20.6	10.0	46	<0.1	22.2	9.0	315	2.56	8.0	0.7	2.1	4.0	28	<0.1	0.5	0.1	60	0.38	0.033
ROS 165712	Soil		1.0	20.3	15.6	80	0.1	25.9	10.1	376	3.21	9.1	0.9	2.8	9.2	33	<0.1	0.7	0.1	71	0.35	0.053
ROS 165709	Soil		0.9	23.5	15.0	119	<0.1	17.4	11.0	620	3.65	6.0	1.2	<0.5	11.4	61	<0.1	1.1	<0.1	71	0.49	0.078
ROS 165662	Soil		1.1	39.8	16.6	76	<0.1	29.6	12.8	539	3.21	9.0	0.8	5.1	5.1	40	<0.1	1.0	0.2	69	0.64	0.035
ROS 147203	Soil		0.3	17.7	12.3	116	<0.1	9.0	7.9	372	2.85	3.6	1.7	1.5	18.0	31	<0.1	1.2	0.1	48	0.34	0.048
ROS 147207	Soil		1.4	13.0	13.3	40	<0.1	16.7	6.1	193	2.33	8.0	0.5	1.3	3.4	22	<0.1	0.4	0.2	66	0.23	0.024
ROS 147208	Soil		1.3	21.7	9.2	51	<0.1	19.2	9.2	404	2.52	7.6	1.2	0.7	7.8	32	<0.1	0.5	0.1	60	0.33	0.024
ROS 165711	Soil		1.4	13.3	12.2	77	0.4	20.0	11.0	938	2.67	6.1	0.4	3.5	4.0	31	0.1	0.6	0.1	64	0.33	0.064
ROS 147202	Soil		0.8	20.6	10.6	58	<0.1	19.6	8.2	251	2.65	7.7	0.6	0.9	7.3	24	<0.1	0.6	0.1	57	0.22	0.018
ROS 147204	Soil		1.0	38.1	19.9	65	<0.1	27.1	10.7	470	3.18	7.2	1.8	3.6	13.5	43	<0.1	1.1	0.1	73	0.38	0.026
ROS 147206	Soil		1.3	32.3	8.8	51	<0.1	29.3	9.8	271	2.95	10.0	0.9	6.4	6.7	26	<0.1	0.6	0.1	68	0.31	0.023
ROS 163659	Soil		4.5	43.9	13.0	85	<0.1	17.4	8.0	309	3.95	8.3	1.3	1.3	4.3	18	<0.1	0.4	0.3	114	0.11	0.050
ROS 165971	Soil		2.4	17.5	13.8	59	0.3	20.6	10.0	902	2.84	5.8	1.2	12.4	9.0	25	<0.1	1.4	0.2	53	0.44	0.034
ROS 165970	Soil		1.3	28.6	21.4	52	0.2	27.3	10.2	427	2.83	10.5	0.6	9.7	7.7	28	<0.1	0.9	0.2	64	0.44	0.027
ROS 165975	Soil		1.4	25.4	9.7	47	0.2	25.8	9.4	298	2.48	7.4	0.6	13.7	5.3	29	<0.1	0.8	0.1	60	0.35	0.018
ROS 173015	Soil		1.0	35.8	8.4	35	0.1	17.0	7.2	663	1.55	3.8	3.8	3.7	1.3	109	0.5	1.0	<0.1	31	2.79	0.085
ROS 173029	Soil		1.2	23.9	19.6	102	0.1	17.7	12.0	726	3.25	6.9	1.1	4.5	7.1	42	0.2	1.4	0.1	69	0.49	0.059
ROS 173027	Soil		1.5	16.2	16.6	76	0.1	18.9	9.5	1278	2.61	4.6	0.4	<0.5	4.8	34	0.1	0.5	0.1	54	0.68	0.054

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	0.2
ROS 163656	Soil	11	41	1.15	140	0.172	<1	3.23	0.016	0.67	<0.1	<0.01	4.3	0.5	<0.05	9	<0.5	0.2
ROS 163653	Soil	20	30	1.15	939	0.170	<1	2.58	0.019	0.58	0.1	0.01	3.9	0.3	0.06	8	<0.5	<0.2
ROS 163652	Soil	45	41	1.11	522	0.206	<1	2.33	0.024	0.62	<0.1	0.01	4.4	0.5	<0.05	8	<0.5	0.2
ROS 163662	Soil	19	26	0.63	215	0.117	<1	1.83	0.015	0.55	<0.1	0.03	3.2	0.3	0.07	7	<0.5	<0.2
ROS 163657	Soil	14	24	0.40	141	0.099	<1	1.50	0.009	0.18	<0.1	0.02	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 163655	Soil	24	28	0.75	113	0.110	<1	1.67	0.013	0.57	<0.1	0.01	2.0	0.3	<0.05	6	<0.5	<0.2
ROS 163654	Soil	22	41	2.10	667	0.228	<1	4.36	0.021	1.51	0.1	0.01	8.9	0.8	0.09	14	<0.5	<0.2
ROS 163651	Soil	15	34	0.66	248	0.110	1	2.18	0.018	0.22	0.1	0.01	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 173168	Soil	15	32	0.54	307	0.070	2	1.46	0.021	0.06	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 163661	Soil	17	26	0.53	283	0.117	<1	1.90	0.014	0.34	<0.1	0.03	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 163658	Soil	17	37	0.66	225	0.128	<1	2.17	0.015	0.39	<0.1	0.02	4.5	0.3	0.07	8	<0.5	0.3
ROS 163660	Soil	21	34	0.76	200	0.160	1	2.26	0.012	0.46	<0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
ROS 147205	Soil	13	38	0.46	269	0.072	3	1.63	0.019	0.05	0.1	0.03	4.0	<0.1	<0.05	6	<0.5	0.2
ROS 165712	Soil	19	40	0.65	225	0.071	1	2.17	0.009	0.13	0.1	0.01	5.1	<0.1	<0.05	8	<0.5	<0.2
ROS 165709	Soil	13	31	0.80	255	0.095	2	2.51	0.012	0.12	0.3	0.03	4.2	<0.1	<0.05	11	<0.5	<0.2
ROS 165662	Soil	17	36	0.78	305	0.089	1	1.99	0.027	0.09	0.1	0.05	5.2	<0.1	<0.05	7	<0.5	<0.2
ROS 147203	Soil	50	15	0.70	115	0.024	1	1.95	0.010	0.14	<0.1	0.06	4.8	0.1	<0.05	10	<0.5	0.3
ROS 147207	Soil	14	31	0.36	228	0.070	<1	1.59	0.014	0.06	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147208	Soil	31	34	0.51	248	0.093	<1	1.70	0.016	0.06	0.2	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165711	Soil	13	34	0.42	323	0.055	<1	1.87	0.014	0.09	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147202	Soil	16	32	0.46	175	0.081	<1	1.87	0.011	0.15	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147204	Soil	35	59	0.68	177	0.085	<1	1.95	0.014	0.08	<0.1	0.05	5.8	<0.1	<0.05	8	<0.5	<0.2
ROS 147206	Soil	20	45	0.58	228	0.099	<1	1.80	0.016	0.06	0.1	0.04	6.6	<0.1	<0.05	6	<0.5	<0.2
ROS 163659	Soil	14	43	0.68	174	0.125	<1	1.98	0.011	0.23	<0.1	0.02	3.4	0.2	0.10	8	<0.5	0.5
ROS 165971	Soil	31	35	0.34	409	0.053	2	1.97	0.012	0.14	0.2	0.05	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 165970	Soil	21	45	0.43	293	0.069	2	1.83	0.014	0.14	0.1	0.11	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165975	Soil	16	43	0.43	257	0.095	<1	1.70	0.018	0.08	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173015	Soil	11	22	0.40	412	0.044	5	0.83	0.018	0.11	0.4	0.06	1.8	<0.1	0.20	3	0.8	<0.2
ROS 173029	Soil	14	35	0.76	251	0.127	1	1.90	0.012	0.22	0.2	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
ROS 173027	Soil	15	34	0.39	620	0.059	2	1.79	0.014	0.19	0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173025	Soil	1.2	36.3	13.7	63	<0.1	28.4	9.9	391	2.76	9.6	0.7	8.8	7.4	39	<0.1	1.1	0.2	61	0.65	0.032
ROS 173016	Soil	1.0	18.0	15.0	57	0.2	24.9	12.1	585	3.14	5.6	0.4	24.9	5.1	37	<0.1	0.5	0.1	71	0.62	0.026
ROS 173028	Soil	1.2	20.6	19.8	93	0.1	14.1	10.7	680	3.00	5.0	1.0	1.9	5.4	37	<0.1	1.3	0.4	57	0.49	0.068
ROS 173024	Soil	0.6	42.9	10.6	69	0.1	30.3	11.9	499	2.81	9.3	0.7	3.3	3.9	50	0.1	0.9	0.1	62	0.95	0.068
ROS 173023	Soil	1.1	30.0	11.7	63	<0.1	28.0	11.3	627	2.67	8.7	0.7	4.7	6.1	38	0.1	0.8	0.2	60	0.60	0.062
ROS 173017	Soil	1.2	53.5	18.2	99	0.1	91.0	21.2	753	4.22	25.8	1.7	8.6	7.6	40	<0.1	1.4	0.2	87	0.58	0.065
ROS 173026	Soil	1.0	37.6	15.8	72	0.4	23.8	8.5	626	2.51	6.1	1.9	2.9	7.9	42	0.2	1.0	0.3	46	0.94	0.074
ROS 173022	Soil	1.0	33.2	11.7	61	0.1	27.7	9.3	575	2.32	8.1	3.4	2.2	3.1	55	0.3	0.7	0.2	47	0.99	0.055
ROS 173014	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.
ROS 159459	Soil	1.2	17.3	14.6	61	<0.1	19.7	9.9	476	2.75	7.3	0.8	2.4	10.8	21	<0.1	0.5	0.2	59	0.28	0.038
ROS 160365	Soil	1.2	93.4	3.2	49	0.1	17.7	10.8	230	3.36	2.2	0.6	1.6	2.1	38	<0.1	0.1	0.1	90	0.44	0.058
ROS 160367	Soil	0.8	73.2	16.3	138	0.3	27.5	13.7	711	3.07	4.3	1.6	2.2	2.4	42	0.6	0.3	0.3	63	1.18	0.063
ROS 160369	Soil	0.9	111.3	28.5	238	0.3	39.4	16.7	665	3.97	2.9	1.5	2.2	9.4	32	0.8	0.2	0.2	80	0.57	0.079
ROS 160364	Soil	1.7	31.9	7.2	95	0.1	17.5	10.6	420	4.00	5.0	0.7	1.3	2.2	33	0.2	0.3	0.1	115	0.38	0.065
ROS 160361	Soil	1.1	25.9	5.8	59	0.1	16.8	11.0	596	3.21	4.5	0.6	0.9	2.9	22	<0.1	0.3	<0.1	71	0.35	0.049
ROS 160372	Soil	3.1	46.3	9.8	87	0.2	15.0	9.0	346	3.01	7.4	0.8	2.3	3.5	19	0.1	0.2	0.2	95	0.21	0.061
ROS 160370	Soil	1.5	102.8	6.2	196	0.2	50.8	20.0	517	4.84	1.1	2.1	3.5	13.3	42	0.7	0.1	0.1	118	0.56	0.134
ROS 160373	Soil	1.4	40.7	7.6	65	0.1	12.6	6.2	178	2.39	4.7	0.9	2.2	2.1	19	<0.1	0.2	0.2	52	0.17	0.054
ROS 164436	Soil	0.8	14.5	7.4	67	0.1	10.5	4.7	156	2.05	4.2	1.1	3.2	2.5	25	0.1	0.2	0.2	40	0.20	0.056
ROS 164435	Soil	0.7	18.4	10.7	73	<0.1	10.4	4.5	157	2.19	3.8	0.9	4.4	1.8	21	0.2	0.2	0.3	51	0.19	0.048
ROS 164434	Soil	0.9	17.7	16.0	82	0.1	12.6	5.5	173	2.59	4.3	0.8	2.7	2.2	20	0.2	0.2	0.2	64	0.18	0.049
ROS 164432	Soil	1.5	36.9	42.3	161	0.4	26.7	14.9	581	3.06	3.9	1.1	0.7	4.0	26	0.3	0.2	0.5	64	0.26	0.072
ROS 164433	Soil	0.7	21.8	24.1	87	0.2	18.1	7.2	208	2.20	3.9	1.0	1.2	2.5	17	0.3	0.2	0.2	41	0.20	0.057
ROS 164431	Soil	1.1	26.6	9.8	90	0.2	31.4	14.2	420	3.05	4.3	1.0	3.4	4.5	29	0.2	0.2	0.2	57	0.35	0.084
ROS 164428	Soil	1.6	34.7	15.2	112	0.5	17.4	8.5	241	2.63	2.6	1.1	3.2	3.0	21	0.2	<0.1	0.2	66	0.25	0.062
ROS 164426	Soil	3.0	46.7	18.8	117	0.4	23.7	11.1	263	2.94	2.6	1.2	1.9	3.3	28	0.3	0.1	0.3	77	0.28	0.061
ROS 163910	Soil	1.3	31.7	23.1	92	<0.1	17.9	12.2	612	3.90	3.6	3.0	2.1	32.1	30	<0.1	0.4	0.2	53	0.70	0.057
ROS 163911	Soil	0.8	38.2	32.5	161	0.1	25.1	13.6	663	3.69	7.6	2.0	3.1	19.9	49	0.2	0.4	0.2	64	2.11	0.074
ROS 163908	Soil	1.3	8.0	9.5	56	<0.1	11.8	6.2	430	3.07	3.6	1.4	<0.5	24.6	18	<0.1	0.3	<0.1	30	0.41	0.055
ROS 163909	Soil	1.4	10.5	7.5	58	<0.1	12.4	7.9	478	3.03	3.8	0.8	0.8	10.0	17	<0.1	0.3	0.1	50	0.27	0.034

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173025	Soil	31	39	0.64	328	0.074	3	1.90	0.031	0.10	0.1	0.07	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 173016	Soil	14	43	0.64	359	0.092	2	2.03	0.021	0.14	0.2	0.02	4.9	<0.1	<0.05	6	<0.5	0.2
ROS 173028	Soil	20	27	0.59	364	0.035	1	1.95	0.010	0.24	0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
ROS 173024	Soil	16	32	0.72	425	0.071	2	1.67	0.034	0.09	0.1	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173023	Soil	18	33	0.64	303	0.082	1	1.51	0.030	0.10	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173017	Soil	35	94	1.53	185	0.183	1	2.49	0.016	0.15	0.2	0.06	6.5	<0.1	<0.05	9	<0.5	<0.2
ROS 173026	Soil	48	30	0.48	476	0.053	2	1.60	0.024	0.14	0.1	0.11	3.6	<0.1	<0.05	6	0.9	<0.2
ROS 173022	Soil	14	32	0.58	405	0.064	3	1.46	0.027	0.08	0.2	0.04	3.3	<0.1	0.05	4	0.8	<0.2
ROS 173014	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.
ROS 159459	Soil	18	36	0.51	214	0.055	1	1.85	0.011	0.09	0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 160365	Soil	8	96	1.39	436	0.166	<1	2.43	0.037	0.44	0.1	0.02	3.9	0.3	0.09	8	<0.5	<0.2
ROS 160367	Soil	16	32	0.74	419	0.097	2	1.82	0.017	0.27	0.1	0.05	4.1	0.2	0.05	6	0.5	<0.2
ROS 160369	Soil	38	44	1.14	309	0.191	<1	2.20	0.018	0.81	<0.1	0.02	5.7	0.4	<0.05	8	<0.5	<0.2
ROS 160364	Soil	8	27	0.97	374	0.167	1	1.94	0.026	0.56	<0.1	0.01	4.4	0.2	0.06	8	<0.5	<0.2
ROS 160361	Soil	12	33	0.76	223	0.106	<1	1.84	0.023	0.22	0.3	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 160372	Soil	11	23	0.67	126	0.110	<1	1.67	0.012	0.22	0.2	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 160370	Soil	45	36	1.25	280	0.201	<1	2.71	0.022	1.25	<0.1	0.02	7.2	0.6	<0.05	9	<0.5	<0.2
ROS 160373	Soil	13	23	0.50	125	0.090	2	1.40	0.013	0.15	0.1	0.04	2.2	0.1	<0.05	6	<0.5	<0.2
ROS 164436	Soil	15	21	0.43	127	0.083	2	1.49	0.012	0.12	0.1	0.03	2.3	0.1	<0.05	5	<0.5	<0.2
ROS 164435	Soil	11	22	0.43	120	0.082	<1	1.44	0.011	0.08	0.1	0.04	2.3	0.1	<0.05	5	0.5	<0.2
ROS 164434	Soil	11	27	0.49	128	0.101	<1	1.46	0.012	0.11	0.1	0.04	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 164432	Soil	15	43	0.78	143	0.125	1	1.78	0.012	0.24	0.1	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 164433	Soil	13	32	0.53	108	0.090	1	1.44	0.011	0.11	0.1	0.04	2.4	0.1	<0.05	6	<0.5	<0.2
ROS 164431	Soil	17	47	0.81	167	0.128	<1	1.80	0.012	0.25	0.1	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 164428	Soil	15	25	0.71	174	0.126	<1	1.61	0.015	0.30	0.2	0.03	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 164426	Soil	16	32	0.85	202	0.135	<1	2.05	0.016	0.28	0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 163910	Soil	83	44	0.75	127	0.061	1	2.24	0.009	0.42	0.2	0.02	6.6	0.3	<0.05	8	<0.5	<0.2
ROS 163911	Soil	60	28	1.13	174	0.098	2	2.17	0.016	0.53	0.2	0.08	4.5	0.3	<0.05	8	<0.5	<0.2
ROS 163908	Soil	15	17	0.27	86	0.011	<1	1.67	0.010	0.20	<0.1	<0.01	4.6	0.1	<0.05	6	<0.5	<0.2
ROS 163909	Soil	17	21	0.57	162	0.092	<1	1.89	0.012	0.28	0.1	<0.01	3.7	0.2	<0.05	7	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163906	Soil	1.6	11.8	17.6	74	<0.1	16.1	6.7	782	3.26	3.7	1.8	5.2	21.6	15	<0.1	0.3	0.3	43	0.38	0.047
ROS 163907	Soil	5.6	23.6	7.5	62	<0.1	22.0	8.6	492	3.24	6.7	1.1	1.6	11.3	23	<0.1	0.5	0.1	58	0.41	0.033
ROS 163904	Soil	0.8	22.3	7.8	48	<0.1	25.5	9.3	322	2.79	10.3	0.8	3.3	6.9	24	<0.1	0.5	0.1	63	0.36	0.025
ROS 163905	Soil	1.0	22.5	10.9	70	<0.1	22.2	9.8	655	3.15	5.8	0.8	5.1	11.6	20	<0.1	0.4	0.2	59	0.41	0.039
ROS 163902	Soil	0.8	24.8	6.3	62	<0.1	23.4	8.5	539	2.95	5.9	0.9	1.3	16.4	22	<0.1	0.5	0.1	49	0.40	0.035
ROS 163903	Soil	1.1	21.9	9.5	72	<0.1	21.8	6.8	517	3.04	7.6	1.1	1.6	19.4	20	<0.1	0.4	0.3	48	0.34	0.044
ROS 163901	Soil	1.2	25.9	9.7	53	0.2	28.8	8.3	323	3.03	9.5	0.9	2.2	10.2	20	<0.1	0.5	0.1	61	0.31	0.029
ROS 163900	Soil	1.4	13.2	12.5	83	<0.1	17.4	9.5	758	3.87	4.3	1.7	<0.5	11.7	15	<0.1	0.4	0.2	65	0.25	0.047
ROS 160366	Soil	0.8	63.7	4.1	77	0.1	21.9	12.2	496	3.27	3.0	0.6	1.5	4.4	25	0.1	0.2	0.2	67	0.31	0.043
ROS 160368	Soil	0.8	57.9	8.5	122	0.2	31.3	13.5	556	3.67	3.7	1.1	1.8	6.8	31	0.2	0.2	0.1	68	0.46	0.055
ROS 160362	Soil	1.3	24.3	5.3	59	<0.1	18.0	11.2	554	3.26	3.8	0.6	1.9	2.8	21	<0.1	0.2	<0.1	69	0.36	0.044
ROS 160363	Soil	2.1	54.0	6.6	117	<0.1	25.3	22.9	772	5.84	3.7	0.9	0.8	2.0	26	0.3	0.2	<0.1	173	0.68	0.115
ROS 160024	Soil	0.6	26.6	5.8	80	0.1	23.1	10.2	301	3.13	2.8	1.4	0.9	6.0	22	0.2	0.2	0.1	63	0.26	0.054
ROS 160014	Soil	1.7	61.7	4.5	242	<0.1	37.0	16.9	509	4.00	1.7	3.6	1.3	19.2	21	0.6	<0.1	0.3	54	0.26	0.087
ROS 160020	Soil	0.8	36.6	5.7	70	<0.1	27.1	12.4	402	3.71	2.7	2.6	0.7	15.3	21	0.1	0.1	0.2	55	0.27	0.104
ROS 160018	Soil	0.4	26.7	4.8	97	<0.1	34.6	14.1	511	3.61	1.5	1.3	1.0	9.6	19	<0.1	0.1	<0.1	60	0.26	0.058
ROS 160013	Soil	2.7	64.0	7.3	280	0.2	26.1	15.9	380	4.03	2.9	1.9	1.5	11.9	21	0.7	0.1	0.4	87	0.18	0.060
ROS 160016	Soil	1.1	46.3	6.6	204	<0.1	34.7	18.4	792	4.51	2.8	1.5	1.9	8.6	18	0.4	0.2	0.1	70	0.20	0.044
ROS 160021	Soil	0.7	32.7	7.2	76	0.1	23.4	10.7	293	2.91	3.1	2.2	2.7	8.4	17	0.2	0.2	0.2	52	0.21	0.046
ROS 160023	Soil	0.7	28.1	7.0	73	0.1	22.0	10.3	267	2.92	3.1	2.0	5.8	6.6	19	0.2	0.2	0.1	56	0.22	0.053
ROS 160022	Soil	0.6	37.3	5.4	90	0.1	28.5	14.3	360	3.52	2.3	2.0	1.0	10.1	23	0.2	0.1	0.1	58	0.23	0.072
ROS 160015	Soil	1.1	73.2	5.9	200	0.1	30.1	16.6	624	4.43	1.5	1.8	2.3	14.7	22	0.5	<0.1	0.2	72	0.17	0.058
ROS 160017	Soil	0.9	24.5	6.1	109	<0.1	31.0	10.2	539	3.87	4.5	0.9	1.2	5.1	19	0.1	0.3	0.2	69	0.29	0.043
ROS 160019	Soil	0.8	35.3	5.9	86	0.2	26.1	9.0	290	2.80	2.0	2.0	1.8	5.2	16	0.4	0.1	0.2	48	0.19	0.057
ROS 163545	Soil	2.0	35.0	9.4	74	<0.1	21.5	8.5	243	2.98	6.7	1.5	1.7	4.8	18	0.2	0.3	0.2	68	0.13	0.030
ROS 163544	Soil	1.5	33.7	9.7	73	<0.1	21.7	12.3	324	3.31	6.6	1.0	6.2	4.4	20	0.2	0.4	0.2	73	0.21	0.026
ROS 163542	Soil	6.9	47.9	5.2	119	<0.1	22.5	27.9	506	5.55	2.5	0.4	0.9	1.3	11	0.3	0.2	<0.1	181	0.28	0.063
ROS 163543	Soil	1.0	33.9	7.6	61	<0.1	15.5	14.2	355	3.58	6.8	1.2	3.7	2.8	17	<0.1	0.4	0.1	89	0.25	0.048
ROS 164430	Soil	0.7	17.5	6.4	56	0.1	13.6	4.7	121	1.99	3.1	1.5	3.2	1.6	21	0.3	0.1	0.2	29	0.16	0.056
ROS 164429	Soil	0.7	14.9	6.5	67	0.1	15.2	6.3	159	2.21	2.7	1.1	1.5	3.0	18	0.1	0.1	0.2	43	0.17	0.046

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 163906	Soil	31	29	0.27	118	0.034	1	1.55	0.012	0.22	0.3	0.01	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 163907	Soil	26	32	0.43	162	0.069	<1	1.62	0.014	0.14	0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
ROS 163904	Soil	23	38	0.49	168	0.081	1	1.74	0.014	0.13	0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 163905	Soil	20	33	0.50	228	0.091	2	1.83	0.016	0.27	0.1	<0.01	5.3	0.2	<0.05	6	<0.5	<0.2
ROS 163902	Soil	41	25	0.53	165	0.099	<1	1.44	0.020	0.24	0.1	0.02	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 163903	Soil	46	34	0.46	126	0.083	<1	1.73	0.012	0.27	0.2	0.01	7.1	0.2	<0.05	7	<0.5	<0.2
ROS 163901	Soil	24	42	0.46	173	0.074	<1	1.85	0.022	0.18	0.1	0.03	6.6	<0.1	<0.05	6	<0.5	<0.2
ROS 163900	Soil	18	34	0.32	205	0.037	2	1.38	0.011	0.25	0.1	<0.01	6.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160366	Soil	11	38	0.87	275	0.164	<1	1.90	0.019	0.54	0.1	0.01	4.3	0.3	<0.05	7	<0.5	<0.2
ROS 160368	Soil	26	38	0.96	295	0.185	<1	2.16	0.015	0.79	0.1	0.02	4.7	0.4	<0.05	8	<0.5	<0.2
ROS 160362	Soil	12	32	0.75	228	0.108	<1	1.69	0.018	0.23	0.2	0.02	4.7	0.1	<0.05	7	<0.5	<0.2
ROS 160363	Soil	11	18	1.25	471	0.241	<1	3.01	0.047	1.12	<0.1	0.02	8.2	0.3	<0.05	10	<0.5	<0.2
ROS 160024	Soil	26	35	0.84	250	0.166	<1	1.92	0.016	0.49	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
ROS 160014	Soil	73	39	1.09	358	0.221	<1	2.47	0.014	1.20	<0.1	<0.01	4.8	0.6	0.05	8	0.7	<0.2
ROS 160020	Soil	61	37	0.98	294	0.214	<1	2.12	0.011	0.88	<0.1	0.02	4.0	0.5	<0.05	7	<0.5	<0.2
ROS 160018	Soil	32	53	1.30	258	0.213	<1	2.50	0.010	0.96	<0.1	0.01	5.5	0.6	<0.05	9	<0.5	<0.2
ROS 160013	Soil	32	46	1.22	251	0.225	<1	2.75	0.011	0.91	<0.1	<0.01	5.5	0.5	<0.05	10	0.8	<0.2
ROS 160016	Soil	27	52	1.31	301	0.246	<1	2.79	0.014	1.19	<0.1	<0.01	7.1	0.6	<0.05	9	<0.5	<0.2
ROS 160021	Soil	34	34	0.82	262	0.162	1	2.08	0.010	0.52	<0.1	0.02	3.7	0.4	<0.05	7	<0.5	<0.2
ROS 160023	Soil	29	34	0.80	299	0.155	<1	1.92	0.011	0.49	<0.1	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
ROS 160022	Soil	40	32	0.93	340	0.178	<1	2.01	0.013	0.76	<0.1	0.01	3.6	0.4	<0.05	7	<0.5	<0.2
ROS 160015	Soil	27	49	1.45	411	0.249	<1	2.92	0.021	1.56	<0.1	<0.01	5.8	0.7	0.15	9	<0.5	<0.2
ROS 160017	Soil	15	43	1.19	231	0.157	<1	2.48	0.011	0.33	<0.1	0.02	3.3	0.3	<0.05	8	<0.5	<0.2
ROS 160019	Soil	29	37	0.81	259	0.152	<1	1.84	0.010	0.57	<0.1	0.04	3.8	0.4	0.05	7	<0.5	<0.2
ROS 163545	Soil	14	36	0.63	200	0.090	1	2.00	0.015	0.12	<0.1	0.01	3.6	0.2	<0.05	6	0.6	<0.2
ROS 163544	Soil	18	32	0.74	275	0.121	1	2.18	0.016	0.18	<0.1	0.02	5.3	0.2	<0.05	6	0.7	<0.2
ROS 163542	Soil	4	14	1.38	269	0.259	<1	2.99	0.027	1.08	0.1	<0.01	5.0	0.4	<0.05	9	<0.5	<0.2
ROS 163543	Soil	11	23	0.68	349	0.116	<1	2.09	0.020	0.22	<0.1	0.03	5.2	0.2	<0.05	6	<0.5	<0.2
ROS 164430	Soil	19	22	0.40	190	0.082	<1	1.38	0.011	0.16	<0.1	0.03	2.0	0.2	0.08	5	<0.5	<0.2
ROS 164429	Soil	17	24	0.57	162	0.107	<1	1.52	0.012	0.19	<0.1	0.03	2.4	0.2	<0.05	6	<0.5	<0.2

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 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164425	Soil	2.2	40.6	14.1	102	0.4	19.2	9.5	212	2.44	3.3	1.5	2.5	3.6	28	0.3	0.2	0.3	56	0.25	0.040
ROS 164427	Soil	1.4	36.4	18.6	101	0.6	18.3	8.8	214	2.52	2.5	1.4	12.8	3.2	22	0.3	0.1	0.2	55	0.24	0.061
ROS 164324	Soil	1.2	21.6	7.3	60	<0.1	16.5	10.5	506	3.04	7.1	1.5	2.0	9.1	16	0.1	0.4	0.2	55	0.16	0.023
ROS 164325	Soil	0.2	29.1	1.0	169	<0.1	5.4	25.5	638	3.43	1.1	0.2	1.1	0.7	180	0.2	<0.1	<0.1	115	0.83	0.032
ROS 164322	Soil	0.3	30.0	3.1	63	<0.1	8.5	14.7	415	3.43	2.7	0.6	1.4	1.8	26	<0.1	0.2	<0.1	96	0.57	0.068
ROS 164323	Soil	0.7	25.2	5.4	62	<0.1	7.1	11.2	369	3.60	3.9	0.3	2.8	1.8	16	<0.1	0.2	<0.1	81	0.48	0.120
ROS 164320	Soil	2.8	70.7	9.5	127	0.2	25.4	7.9	258	4.00	2.4	2.0	1.2	8.7	64	0.2	0.1	0.3	112	0.27	0.068
ROS 164321	Soil	1.8	53.3	12.7	86	0.2	28.7	9.8	257	3.40	5.8	2.0	2.2	8.3	60	0.1	0.4	0.2	75	0.23	0.036
ROS 164318	Soil	0.8	93.0	8.3	129	0.1	18.5	10.9	331	4.11	4.4	0.6	3.2	1.9	35	0.2	0.3	0.2	103	0.37	0.053
ROS 164319	Soil	0.4	30.6	3.7	81	<0.1	16.9	17.1	617	3.30	3.3	0.3	0.6	1.6	12	0.2	0.2	<0.1	81	0.42	0.101
ROS 164317	Soil	1.4	124.5	7.0	50	0.3	16.1	7.7	191	3.42	3.6	1.3	6.6	8.3	27	<0.1	0.2	0.5	71	0.17	0.044
ROS 164316	Soil	1.3	124.4	6.9	54	0.3	16.7	7.6	208	3.49	3.2	1.3	9.2	8.3	26	<0.1	0.2	0.5	72	0.17	0.044
ROS 164314	Soil	0.9	101.9	6.0	63	0.1	21.3	9.4	242	3.62	3.7	1.3	10.0	11.0	21	<0.1	0.2	0.3	73	0.16	0.047
ROS 164315	Soil	1.1	84.6	7.8	45	0.2	20.0	9.3	219	3.00	3.6	1.2	4.0	10.0	26	0.1	0.2	0.4	55	0.20	0.050
ROS 163759	Soil	3.6	240.6	8.5	82	0.5	14.4	7.7	228	3.60	4.1	1.0	5.8	3.1	26	0.2	0.2	0.3	88	0.24	0.061
ROS 146120	Soil	0.5	21.0	8.9	104	<0.1	16.5	9.6	394	3.22	5.3	0.8	0.6	5.5	85	<0.1	0.5	<0.1	70	0.72	0.064
ROS 146129	Soil	0.9	20.3	10.2	64	<0.1	20.9	9.8	398	3.06	8.9	0.7	1.7	7.4	27	<0.1	0.6	0.2	59	0.29	0.024
ROS 146132	Soil	0.7	23.8	12.6	57	<0.1	18.6	8.5	298	2.42	8.0	1.5	5.8	12.6	29	<0.1	0.7	0.2	51	0.38	0.025
ROS 146137	Soil	0.5	27.1	7.5	86	<0.1	20.9	11.2	582	2.90	5.8	0.8	3.3	8.1	23	<0.1	0.4	0.1	51	0.34	0.028
ROS 146135	Soil	0.8	39.0	11.6	90	<0.1	14.5	9.2	531	2.78	5.9	1.2	2.0	8.7	26	0.1	0.6	0.1	40	0.39	0.059
ROS 146125	Soil	0.5	22.2	7.0	104	<0.1	6.3	9.3	513	3.06	3.2	2.1	5.2	12.8	32	<0.1	0.6	0.1	56	0.36	0.047
ROS 163756	Soil	1.0	214.9	6.0	52	1.0	17.8	5.6	158	2.56	1.4	2.0	6.6	5.2	26	0.1	<0.1	0.3	46	0.16	0.057
ROS 146126	Soil	0.6	12.7	10.2	70	<0.1	11.0	7.6	376	2.54	6.5	1.1	1.8	5.3	21	<0.1	0.7	0.1	51	0.21	0.040
ROS 146134	Soil	1.1	27.9	9.8	71	<0.1	17.7	10.7	895	2.76	5.0	1.4	2.9	8.7	28	<0.1	0.5	0.2	47	0.43	0.029
ROS 146127	Soil	1.0	34.5	15.3	89	<0.1	18.4	9.9	444	3.53	5.8	1.2	20.7	15.3	21	<0.1	0.8	4.1	61	0.20	0.018
ROS 163757	Soil	0.9	113.7	7.0	57	0.3	11.6	4.0	121	1.94	2.4	1.1	4.7	2.7	31	<0.1	0.1	0.3	33	0.16	0.049
ROS 147216	Soil	0.7	14.7	8.0	78	<0.1	15.8	8.6	444	2.77	6.6	0.5	<0.5	4.1	26	<0.1	0.3	0.1	56	0.18	0.038
ROS 146124	Soil	0.7	16.1	21.2	106	<0.1	12.0	8.0	319	2.96	6.5	1.5	0.6	18.9	16	0.2	2.3	0.1	50	0.11	0.034
ROS 146130	Soil	0.6	23.3	8.0	45	<0.1	19.2	7.5	295	2.34	8.6	1.1	7.8	6.7	27	<0.1	0.7	0.1	49	0.29	0.037
ROS 163755	Soil	1.0	197.8	6.0	68	0.3	23.1	8.5	212	3.05	1.5	2.0	1.9	6.7	36	0.2	0.1	0.2	55	0.17	0.079

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000587.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164425	Soil	19	27	0.71	231	0.110	<1	1.92	0.013	0.19	0.1	0.02	3.4	0.2	<0.05	6	0.5	<0.2
ROS 164427	Soil	18	24	0.74	176	0.119	<1	1.79	0.014	0.26	0.1	0.03	3.3	0.2	<0.05	6	0.6	<0.2
ROS 164324	Soil	26	30	0.56	193	0.105	<1	2.32	0.011	0.14	<0.1	0.02	5.4	0.1	<0.05	6	<0.5	<0.2
ROS 164325	Soil	5	3	0.67	178	0.045	<1	2.20	0.099	0.13	<0.1	<0.01	8.7	<0.1	<0.05	5	<0.5	0.3
ROS 164322	Soil	10	10	0.86	277	0.135	<1	1.97	0.043	0.22	<0.1	0.01	6.6	0.1	<0.05	6	<0.5	<0.2
ROS 164323	Soil	5	11	0.67	149	0.108	<1	1.79	0.039	0.19	<0.1	<0.01	5.3	<0.1	<0.05	7	<0.5	<0.2
ROS 164320	Soil	23	87	1.55	563	0.158	<1	3.35	0.059	1.07	<0.1	<0.01	6.7	0.6	0.37	9	1.2	<0.2
ROS 164321	Soil	30	38	0.75	303	0.104	<1	2.30	0.019	0.18	<0.1	0.02	4.7	0.3	0.14	6	1.3	<0.2
ROS 164318	Soil	9	59	0.96	415	0.141	<1	2.16	0.036	0.38	<0.1	0.01	6.3	0.2	0.14	6	<0.5	<0.2
ROS 164319	Soil	6	11	0.73	302	0.131	<1	1.76	0.040	0.36	<0.1	<0.01	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 164317	Soil	29	38	0.86	387	0.128	<1	2.18	0.020	0.54	<0.1	0.01	4.0	0.4	0.21	6	0.6	<0.2
ROS 164316	Soil	28	37	0.86	375	0.133	<1	2.09	0.020	0.55	<0.1	<0.01	4.2	0.3	0.22	6	0.7	<0.2
ROS 164314	Soil	27	49	1.00	285	0.156	<1	2.43	0.016	0.75	<0.1	<0.01	4.1	0.5	0.19	6	0.6	<0.2
ROS 164315	Soil	24	34	0.78	222	0.110	<1	2.05	0.016	0.46	<0.1	<0.01	2.8	0.4	0.14	5	<0.5	<0.2
ROS 163759	Soil	12	29	0.83	313	0.133	<1	2.21	0.018	0.38	<0.1	0.03	4.9	0.3	0.06	7	0.6	0.3
ROS 146120	Soil	9	36	0.90	178	0.166	<1	2.63	0.011	0.16	<0.1	0.01	2.7	0.1	<0.05	10	<0.5	<0.2
ROS 146129	Soil	9	29	0.66	239	0.104	<1	2.12	0.012	0.23	0.2	0.01	2.9	0.1	<0.05	7	<0.5	<0.2
ROS 146132	Soil	35	31	0.49	207	0.078	<1	1.61	0.016	0.08	0.1	0.06	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 146137	Soil	23	38	1.04	176	0.133	<1	1.72	0.011	0.14	0.1	0.02	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 146135	Soil	15	21	0.68	163	0.100	1	1.40	0.016	0.31	0.1	0.03	3.1	0.1	<0.05	7	<0.5	<0.2
ROS 146125	Soil	46	10	1.01	110	0.080	<1	1.94	0.009	0.13	<0.1	0.05	3.7	0.2	<0.05	10	<0.5	<0.2
ROS 163756	Soil	31	30	0.70	225	0.108	1	1.71	0.010	0.37	<0.1	0.06	3.3	0.3	0.06	6	0.6	<0.2
ROS 146126	Soil	11	19	0.40	159	0.029	<1	1.53	0.008	0.07	0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
ROS 146134	Soil	25	29	0.59	181	0.081	<1	1.58	0.010	0.14	0.1	0.05	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 146127	Soil	30	33	0.75	135	0.082	<1	2.13	0.009	0.17	0.1	0.03	6.6	0.2	<0.05	9	<0.5	<0.2
ROS 163757	Soil	15	28	0.52	165	0.091	<1	1.46	0.014	0.25	<0.1	0.05	2.3	0.3	<0.05	6	<0.5	<0.2
ROS 147216	Soil	6	29	0.72	176	0.126	<1	1.84	0.011	0.26	0.1	0.02	2.0	0.2	<0.05	7	<0.5	<0.2
ROS 146124	Soil	15	25	0.64	130	0.036	<1	1.71	0.011	0.09	0.2	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
ROS 146130	Soil	21	29	0.48	234	0.074	<1	1.28	0.018	0.05	0.1	0.06	5.1	<0.1	<0.05	4	<0.5	<0.2
ROS 163755	Soil	26	32	0.76	277	0.146	<1	1.81	0.022	0.64	<0.1	0.03	3.0	0.5	0.16	6	0.8	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163541	Soil	0.9	28.3	8.9	64	<0.1	18.5	11.7	368	2.89	9.0	1.3	2.9	4.0	22	0.1	0.5	0.2	58	0.21	0.052
ROS 163540	Soil	0.8	27.1	11.8	57	<0.1	19.6	7.8	236	2.42	7.3	1.0	3.5	3.3	23	0.1	0.4	0.1	52	0.24	0.048
ROS 163538	Soil	1.1	52.6	7.7	56	0.2	14.2	7.1	226	3.41	3.9	1.8	3.1	11.4	36	0.1	0.2	0.5	56	0.16	0.061
ROS 163539	Soil	1.2	67.0	9.2	190	0.2	13.4	6.5	294	4.08	0.9	2.1	3.5	14.5	37	0.2	<0.1	0.4	73	0.18	0.078
ROS 163536	Soil	1.8	45.6	10.4	95	0.2	18.1	8.2	230	3.60	3.0	1.8	2.3	11.8	52	0.2	0.1	0.4	61	0.21	0.071
ROS 163537	Soil	2.1	51.0	10.5	115	0.2	17.2	8.0	247	3.95	2.2	2.0	2.4	14.7	62	0.1	0.1	0.4	60	0.23	0.083
ROS 163534	Soil	0.8	33.5	7.1	83	<0.1	40.0	12.0	227	3.35	3.5	1.3	0.9	8.5	30	<0.1	0.2	0.3	58	0.21	0.071
ROS 163535	Soil	1.2	60.5	10.4	112	0.1	35.1	12.8	246	3.25	3.8	2.6	2.7	5.3	41	0.4	0.2	0.5	50	0.25	0.072
ROS 163674	Soil	1.3	24.4	9.6	72	0.1	14.5	7.4	191	2.42	4.8	1.1	2.1	2.1	24	0.2	0.2	0.2	50	0.29	0.080
ROS 160413	Soil	0.9	58.6	6.6	55	0.2	18.8	8.9	216	1.99	1.9	2.6	<0.5	3.1	23	0.3	<0.1	0.1	34	0.17	0.050
ROS 163764	Soil	2.2	162.9	8.0	86	0.3	22.1	14.8	400	3.10	2.8	1.1	5.8	6.4	24	0.2	0.1	0.2	64	0.17	0.045
ROS 163763	Soil	1.8	125.1	6.5	124	0.2	34.2	18.4	522	4.65	4.6	1.0	4.6	7.0	26	0.2	0.2	0.2	103	0.37	0.133
ROS 163762	Soil	2.3	177.2	10.9	79	0.4	15.8	8.7	243	3.22	4.1	1.0	7.2	6.3	32	0.2	0.2	0.3	70	0.21	0.078
ROS 163761	Soil	2.7	275.2	9.7	80	0.4	15.6	9.7	229	3.17	3.3	1.3	6.3	4.9	34	0.2	0.2	0.3	70	0.20	0.068
ROS 163760	Soil	2.0	239.4	10.3	78	0.2	15.6	11.2	291	3.38	4.4	1.0	7.1	6.2	36	0.2	0.2	0.3	66	0.21	0.060
ROS 163758	Soil	7.1	451.8	5.6	75	0.5	15.0	6.9	258	3.83	2.1	1.6	3.3	7.5	59	0.1	0.1	0.2	90	0.22	0.086
ROS 173478	Soil	0.7	30.2	10.1	74	<0.1	18.5	8.4	305	2.65	9.8	1.0	3.8	8.1	24	<0.1	0.7	0.2	59	0.30	0.036
ROS 173457	Soil	0.6	35.6	8.2	52	<0.1	22.7	8.8	421	2.15	10.2	0.6	2.8	4.0	89	0.2	0.8	0.1	45	3.18	0.092
ROS 165973	Soil	0.9	19.0	12.9	82	<0.1	19.0	13.3	499	2.95	7.2	0.7	2.1	4.1	32	<0.1	0.6	0.2	60	0.45	0.048
ROS 165985	Soil	0.6	31.8	8.6	58	0.1	19.9	7.2	293	2.35	7.7	0.9	32.5	5.8	39	<0.1	1.1	0.2	47	0.53	0.046
ROS 173451	Soil	0.7	22.0	10.0	46	0.1	13.5	6.9	267	2.07	6.9	1.0	2.8	10.0	18	<0.1	1.3	0.4	37	0.20	0.019
ROS 173453	Soil	1.5	34.4	23.5	50	0.4	8.6	4.1	240	1.91	5.2	1.5	0.6	12.5	12	<0.1	2.1	0.3	22	0.12	0.021
ROS 165996	Soil	1.0	15.7	9.2	54	0.2	16.8	8.3	318	2.38	7.4	0.6	0.9	6.9	22	<0.1	1.2	0.2	52	0.26	0.031
ROS 165976	Soil	0.6	24.6	7.1	44	<0.1	16.8	6.3	201	2.20	9.2	0.9	2.6	8.5	24	<0.1	1.2	0.1	49	0.25	0.012
ROS 173452	Soil	0.7	26.1	16.6	40	0.2	12.2	4.8	211	1.75	6.5	0.8	1.9	9.2	16	<0.1	4.5	0.4	32	0.18	0.013
ROS 173458	Soil	0.9	20.1	11.0	52	<0.1	15.5	7.9	238	2.26	7.0	1.1	2.1	11.4	19	<0.1	1.0	0.2	47	0.19	0.020
ROS 165981	Soil	0.7	41.8	9.3	81	0.2	22.8	12.8	647	3.65	11.8	0.7	3.3	6.8	37	0.1	1.1	0.1	67	0.50	0.035
ROS 165990	Soil	0.9	38.8	10.3	66	0.2	27.3	10.8	480	2.47	9.7	1.0	5.3	6.3	60	0.2	1.4	0.2	49	1.66	0.053
ROS 173456	Soil	0.6	39.5	16.6	57	0.3	25.7	9.8	433	2.36	9.0	0.7	3.3	5.8	44	0.1	1.5	0.2	48	1.13	0.056
ROS 173455	Soil	0.7	26.2	14.3	48	0.2	21.7	7.9	234	2.66	10.3	0.9	6.7	6.5	25	0.1	1.4	0.2	61	0.29	0.020

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 163541	Soil	14	27	0.56	316	0.086	<1	1.66	0.017	0.11	0.2	0.05	5.0	0.1	<0.05	5	0.5	<0.2
ROS 163540	Soil	13	28	0.51	214	0.079	<1	1.39	0.017	0.07	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 163538	Soil	34	36	0.76	236	0.108	<1	1.84	0.036	0.47	<0.1	0.02	3.4	0.4	0.24	6	<0.5	<0.2
ROS 163539	Soil	32	69	1.33	440	0.189	<1	2.48	0.050	1.20	<0.1	<0.01	5.7	0.8	0.40	7	0.6	<0.2
ROS 163536	Soil	41	51	0.88	262	0.137	<1	2.25	0.045	0.71	<0.1	0.01	3.9	0.4	0.30	7	0.5	0.3
ROS 163537	Soil	49	50	0.93	291	0.153	<1	2.42	0.054	0.94	<0.1	0.01	4.0	0.5	0.41	7	<0.5	<0.2
ROS 163534	Soil	28	44	0.85	171	0.148	<1	2.38	0.016	0.71	<0.1	0.01	3.0	0.4	<0.05	8	<0.5	<0.2
ROS 163535	Soil	40	35	0.70	190	0.092	<1	2.06	0.024	0.54	<0.1	0.02	2.7	0.4	<0.05	6	<0.5	<0.2
ROS 163674	Soil	14	23	0.55	192	0.081	<1	1.53	0.018	0.08	0.2	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 160413	Soil	27	27	0.58	191	0.133	<1	1.51	0.014	0.37	<0.1	0.04	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 163764	Soil	22	28	0.82	199	0.160	<1	2.01	0.016	0.48	<0.1	0.02	3.2	0.3	<0.05	7	<0.5	<0.2
ROS 163763	Soil	24	36	1.36	267	0.194	<1	2.71	0.022	0.98	<0.1	0.01	5.8	0.6	<0.05	10	<0.5	<0.2
ROS 163762	Soil	22	29	0.82	224	0.140	<1	1.97	0.016	0.45	0.1	0.03	3.5	0.3	<0.05	6	<0.5	<0.2
ROS 163761	Soil	17	29	0.80	272	0.134	<1	2.15	0.018	0.45	<0.1	0.04	4.2	0.4	0.07	6	0.7	<0.2
ROS 163760	Soil	17	29	0.82	267	0.139	<1	2.19	0.017	0.45	<0.1	0.02	3.6	0.4	0.06	6	<0.5	<0.2
ROS 163758	Soil	24	35	1.09	408	0.174	<1	2.64	0.026	0.98	<0.1	0.02	4.8	0.5	0.23	8	0.7	<0.2
ROS 173478	Soil	22	27	0.54	132	0.067	<1	1.72	0.014	0.14	0.1	0.04	5.0	<0.1	<0.05	7	<0.5	<0.2
ROS 173457	Soil	14	23	0.74	348	0.069	3	1.12	0.036	0.08	0.2	0.06	3.1	<0.1	0.06	3	<0.5	<0.2
ROS 165973	Soil	11	27	0.98	242	0.123	1	2.01	0.017	0.18	0.2	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 165985	Soil	17	26	0.57	283	0.072	2	1.63	0.029	0.07	0.2	0.09	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173451	Soil	15	22	0.39	173	0.051	1	1.39	0.015	0.11	0.2	0.06	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173453	Soil	8	15	0.18	130	0.022	<1	1.01	0.015	0.11	0.2	0.08	2.3	<0.1	<0.05	3	<0.5	<0.2
ROS 165996	Soil	14	32	0.37	249	0.060	1	1.85	0.013	0.11	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165976	Soil	19	29	0.42	181	0.073	<1	1.37	0.014	0.06	0.1	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173452	Soil	8	18	0.28	179	0.037	<1	1.11	0.015	0.07	0.2	0.11	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 173458	Soil	15	26	0.38	137	0.066	1	1.29	0.011	0.07	0.1	0.06	3.3	<0.1	0.08	5	<0.5	<0.2
ROS 165981	Soil	24	26	1.10	282	0.147	2	1.89	0.013	0.20	0.2	0.04	5.7	<0.1	0.06	8	<0.5	<0.2
ROS 165990	Soil	17	25	0.68	315	0.063	1	1.31	0.029	0.07	0.3	0.13	3.6	<0.1	0.06	4	<0.5	<0.2
ROS 173456	Soil	20	26	0.63	301	0.055	3	1.12	0.024	0.07	0.2	0.12	3.2	<0.1	0.07	4	<0.5	<0.2
ROS 173455	Soil	15	35	0.48	289	0.074	1	1.24	0.016	0.05	0.2	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 165972	Soil	1.4	49.6	22.3	103	0.4	17.0	12.3	827	3.71	5.0	1.7	6.9	15.2	33	<0.1	2.2	1.6	52	0.52	0.027
ROS 165994	Soil	1.2	42.8	13.0	87	0.1	26.9	13.9	540	3.41	11.4	1.4	2.8	7.7	37	0.1	1.1	0.2	68	0.50	0.043
ROS 147006	Soil	0.6	27.2	12.4	72	0.1	18.6	9.1	305	2.23	6.3	1.6	4.6	6.2	35	0.2	0.7	0.2	47	0.60	0.070
ROS 147004	Soil	0.6	26.7	10.9	71	0.1	20.2	9.9	362	2.35	6.7	1.5	1.3	5.5	29	0.3	0.6	0.2	53	0.42	0.056
ROS 147023	Soil	0.8	19.4	10.0	55	<0.1	15.5	7.2	291	2.60	7.0	1.0	1.7	8.4	20	0.1	0.5	0.2	59	0.24	0.023
ROS 147010	Soil	1.3	23.7	17.9	75	<0.1	21.1	14.0	522	3.10	9.5	1.2	1.4	8.6	24	0.2	0.7	0.3	70	0.28	0.044
ROS 147007	Soil	0.6	26.2	16.3	70	0.1	19.2	9.1	394	2.43	6.8	1.6	1.8	6.8	31	0.2	0.7	0.2	55	0.47	0.049
ROS 147003	Soil	0.7	26.6	11.7	76	0.1	19.6	10.4	319	2.46	6.7	1.4	5.3	6.0	27	0.3	0.8	0.2	54	0.44	0.055
ROS 147026	Soil	0.6	14.2	9.8	44	<0.1	10.2	4.5	222	1.73	4.5	0.7	0.5	5.5	15	0.1	0.4	0.2	43	0.13	0.018
ROS 147012	Soil	0.9	17.0	15.6	54	<0.1	13.5	6.0	226	2.16	7.1	0.9	2.3	5.5	20	0.1	0.6	0.2	55	0.19	0.033
ROS 147025	Soil	0.6	20.7	11.6	54	<0.1	13.2	6.7	189	2.39	5.6	0.9	3.7	10.9	18	<0.1	0.6	0.2	52	0.17	0.010
ROS 147027	Soil	0.7	17.5	10.9	49	<0.1	13.0	4.5	154	1.89	5.5	0.7	1.2	6.0	16	<0.1	0.5	0.2	41	0.16	0.019
ROS 173450	Soil	1.1	18.5	10.8	55	<0.1	17.9	7.7	318	2.23	6.5	0.6	1.9	6.6	24	<0.1	0.8	0.1	50	0.26	0.021
ROS 173473	Soil	0.7	34.3	8.4	53	<0.1	27.1	9.7	296	2.67	11.0	0.5	5.0	5.6	30	<0.1	0.8	0.2	61	0.38	0.014
ROS 147024	Soil	0.9	13.8	9.2	48	<0.1	14.1	8.0	335	2.37	8.1	0.6	<0.5	5.1	20	<0.1	0.5	0.2	54	0.21	0.032
ROS 147022	Soil	0.7	28.7	9.0	51	<0.1	16.3	7.2	353	2.40	6.9	1.7	2.6	9.0	26	<0.1	0.5	0.2	53	0.36	0.042
ROS 173477	Soil	0.5	26.9	8.5	156	<0.1	14.2	12.1	482	3.12	7.6	1.3	0.6	5.4	29	<0.1	0.6	0.1	81	0.39	0.082
ROS 173454	Soil	1.7	30.5	23.7	69	1.3	25.8	12.9	660	3.80	20.4	4.0	2.6	10.8	37	<0.1	4.3	0.6	52	0.43	0.037
ROS 160210	Soil	1.3	26.3	7.5	70	0.1	18.7	10.4	357	2.80	6.0	1.7	1.3	6.9	33	0.2	0.3	0.1	59	0.44	0.082
ROS 160184	Soil	0.6	39.0	5.8	51	<0.1	31.8	12.6	292	3.27	4.8	1.6	0.9	10.5	24	<0.1	0.3	0.3	67	0.27	0.041
ROS 160187	Soil	1.5	30.7	7.3	148	<0.1	23.8	11.0	312	3.60	6.1	0.9	1.3	5.6	24	0.1	0.3	0.2	71	0.12	0.034
ROS 160114	Soil	0.6	34.1	8.4	66	0.1	26.5	10.6	362	2.50	11.2	0.8	6.3	3.8	54	0.4	0.9	0.2	54	1.12	0.088
ROS 160213	Soil	1.2	24.0	8.8	75	<0.1	20.3	12.1	444	2.89	7.9	1.0	5.1	5.5	31	0.2	0.5	0.2	62	0.36	0.068
ROS 160191	Soil	4.4	99.9	22.0	199	0.1	20.9	19.9	435	4.40	4.0	2.7	1.6	2.9	28	0.4	0.3	0.4	146	0.35	0.067
ROS 160190	Soil	1.4	48.8	5.2	94	<0.1	22.9	16.4	442	3.65	1.7	0.8	<0.5	5.6	20	<0.1	0.1	0.2	97	0.25	0.029
ROS 160113	Soil	1.0	30.4	9.4	86	0.1	22.0	10.1	496	2.38	9.2	1.1	4.0	3.5	42	0.5	0.6	0.2	51	0.68	0.087
ROS 160206	Soil	1.2	19.4	7.7	62	<0.1	14.8	9.2	372	2.75	6.1	1.5	5.0	9.2	25	0.2	0.4	0.1	56	0.26	0.040
ROS 160186	Soil	1.7	28.0	11.6	588	<0.1	31.9	15.7	691	3.97	5.6	0.7	0.7	4.7	47	0.6	0.3	0.3	112	0.22	0.030
ROS 160185	Soil	0.9	26.1	7.2	59	<0.1	27.3	12.9	275	2.76	6.5	1.0	1.8	7.8	19	0.2	0.4	0.2	59	0.15	0.018
ROS 160099	Soil	1.2	38.7	9.0	72	0.1	40.9	19.0	429	4.53	4.1	1.8	22.5	9.8	37	0.1	0.2	0.3	71	0.23	0.064

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Project: ROS
 Report Date: November 06, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165972	Soil	70	29	1.16	286	0.105	1	2.08	0.012	0.37	0.5	0.36	5.4	0.2	<0.05	8	0.5	<0.2
ROS 165994	Soil	26	50	0.98	229	0.111	1	2.04	0.013	0.16	0.2	0.09	5.6	0.1	<0.05	7	<0.5	<0.2
ROS 147006	Soil	20	26	0.49	256	0.065	1	1.33	0.020	0.05	0.2	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 147004	Soil	21	29	0.50	285	0.055	<1	1.49	0.018	0.04	0.2	0.06	3.7	<0.1	<0.05	5	0.7	<0.2
ROS 147023	Soil	26	30	0.50	222	0.070	1	1.73	0.012	0.08	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 147010	Soil	24	36	0.49	298	0.072	<1	2.19	0.017	0.06	0.2	0.05	3.7	<0.1	<0.05	7	<0.5	<0.2
ROS 147007	Soil	21	29	0.50	307	0.072	<1	1.68	0.017	0.05	0.1	0.04	3.8	<0.1	<0.05	6	0.5	<0.2
ROS 147003	Soil	22	28	0.50	276	0.055	1	1.52	0.019	0.04	0.2	0.06	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 147026	Soil	21	19	0.32	145	0.055	<1	1.15	0.009	0.04	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 147012	Soil	19	24	0.39	177	0.063	1	1.44	0.012	0.05	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
ROS 147025	Soil	18	27	0.44	166	0.084	<1	1.89	0.012	0.05	<0.1	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 147027	Soil	21	23	0.36	147	0.053	<1	1.27	0.011	0.05	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173450	Soil	13	28	0.49	224	0.072	<1	1.39	0.019	0.06	<0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173473	Soil	16	33	0.56	204	0.090	<1	1.39	0.023	0.06	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147024	Soil	11	26	0.40	181	0.058	<1	1.62	0.011	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 147022	Soil	34	28	0.49	234	0.069	1	1.54	0.014	0.05	0.1	0.07	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173477	Soil	21	20	0.90	172	0.104	1	1.92	0.011	0.48	<0.1	0.04	4.5	0.2	<0.05	11	<0.5	<0.2
ROS 173454	Soil	22	36	0.42	617	0.034	2	2.12	0.017	0.12	<0.1	0.34	6.8	<0.1	<0.05	6	0.5	<0.2
ROS 160210	Soil	30	25	0.65	220	0.115	<1	1.76	0.021	0.26	0.2	0.04	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 160184	Soil	31	51	1.01	154	0.195	<1	2.33	0.018	0.66	<0.1	<0.01	5.1	0.4	<0.05	9	<0.5	<0.2
ROS 160187	Soil	13	34	1.00	242	0.149	<1	2.56	0.013	0.53	0.1	0.02	3.3	0.3	<0.05	8	<0.5	<0.2
ROS 160114	Soil	13	27	0.72	338	0.079	2	1.18	0.039	0.08	0.3	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 160213	Soil	16	30	0.62	257	0.113	<1	1.72	0.019	0.17	0.2	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 160191	Soil	15	18	1.05	291	0.176	<1	2.41	0.029	0.35	<0.1	0.02	7.3	0.3	<0.05	7	0.8	0.4
ROS 160190	Soil	15	25	1.15	232	0.208	<1	2.54	0.028	0.79	<0.1	<0.01	4.9	0.5	<0.05	7	<0.5	<0.2
ROS 160113	Soil	15	25	0.53	267	0.073	1	1.29	0.026	0.09	0.2	0.04	2.9	<0.1	0.06	4	<0.5	<0.2
ROS 160206	Soil	29	26	0.60	155	0.111	<1	1.93	0.015	0.23	0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 160186	Soil	10	46	1.73	721	0.242	<1	3.71	0.018	0.97	<0.1	0.01	4.3	0.5	<0.05	11	<0.5	<0.2
ROS 160185	Soil	19	39	0.80	163	0.145	<1	1.95	0.015	0.29	0.1	0.02	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 160099	Soil	31	58	1.16	199	0.229	<1	2.61	0.017	0.98	<0.1	<0.01	3.8	0.5	<0.05	12	<0.5	<0.2

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 Report Date: November 06, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160205	Soil	1.1	16.4	6.9	68	<0.1	13.3	8.7	414	3.00	5.9	1.0	0.7	9.1	26	0.1	0.3	<0.1	57	0.27	0.046
ROS 160189	Soil	1.0	38.6	7.8	68	<0.1	24.6	14.7	274	3.35	7.6	0.5	4.4	4.6	15	0.1	0.4	0.2	77	0.13	0.019
ROS 160188	Soil	5.5	61.6	10.8	186	<0.1	34.4	18.8	554	4.92	1.4	1.3	1.0	8.4	46	0.1	0.1	0.3	140	0.33	0.038
ROS 160115	Soil	0.8	23.2	7.9	66	0.1	18.6	8.5	361	2.11	7.2	0.8	3.9	2.7	40	0.4	0.6	0.2	46	0.63	0.073
ROS 165961	Soil	1.2	25.5	14.4	60	0.2	25.5	9.5	424	2.86	9.8	1.1	3.6	9.3	28	<0.1	0.9	0.2	56	0.33	0.041
ROS 165876	Soil	1.0	31.2	14.3	80	<0.1	21.2	9.1	537	3.05	7.5	2.5	2.4	22.9	29	<0.1	0.7	0.3	53	0.37	0.064
ROS 173188	Soil	0.8	18.3	13.8	80	<0.1	18.3	11.4	347	2.69	8.5	0.9	2.2	8.8	47	<0.1	0.8	0.1	55	0.29	0.041
ROS 147220	Soil	1.7	21.3	9.4	57	<0.1	14.9	7.5	377	2.27	5.8	1.3	4.3	17.2	21	<0.1	0.6	0.2	36	0.20	0.015
ROS 111928	Soil	0.5	19.8	8.5	52	<0.1	18.3	8.1	262	2.38	7.4	0.6	4.1	6.3	25	<0.1	0.7	0.1	53	0.30	0.035
ROS 165880	Soil	0.7	38.2	12.5	81	<0.1	36.0	12.1	469	2.94	10.8	1.1	2.7	9.3	39	0.1	1.3	0.1	60	0.44	0.029
ROS 165877	Soil	0.9	18.5	12.4	108	<0.1	19.2	9.9	446	2.83	6.5	1.4	1.3	10.8	43	<0.1	0.5	0.1	53	0.47	0.058
ROS 146148	Soil	1.1	15.8	14.2	68	<0.1	21.7	8.7	383	2.98	7.3	1.1	3.9	9.7	19	0.1	0.6	0.2	59	0.24	0.026
ROS 111929	Soil	0.6	15.0	16.1	110	<0.1	12.7	8.2	507	2.74	6.1	0.8	3.7	8.4	38	<0.1	2.6	<0.1	48	0.45	0.081
ROS 165879	Soil	1.2	46.1	16.6	90	<0.1	32.4	11.9	413	3.19	6.1	1.3	1.3	9.0	46	<0.1	0.4	0.2	56	0.43	0.048
ROS 173187	Soil	0.7	27.7	11.3	83	<0.1	22.2	9.9	520	2.84	6.1	2.1	1.9	13.0	48	0.1	0.6	0.2	52	0.53	0.073
ROS 146146	Soil	0.5	30.1	8.1	71	0.1	15.5	7.3	609	2.74	8.2	1.3	4.4	14.5	54	<0.1	0.7	0.1	43	2.08	0.052
ROS 173258	Soil	1.0	26.8	9.5	80	0.2	19.4	10.2	374	2.96	6.1	0.8	3.4	5.2	18	<0.1	0.7	0.2	60	0.18	0.025
ROS 165878	Soil	1.2	23.9	12.8	114	0.1	21.7	10.1	564	3.22	5.3	1.3	<0.5	7.3	39	<0.1	0.4	0.2	64	0.46	0.044
ROS 147217	Soil	1.1	18.3	9.3	66	<0.1	20.5	9.5	612	2.87	8.1	1.4	2.5	9.0	26	<0.1	0.6	0.2	60	0.32	0.036
ROS 147226	Soil	0.2	8.4	6.4	112	<0.1	34.5	19.0	566	2.86	2.6	0.8	1.4	2.0	80	<0.1	1.2	<0.1	48	0.84	0.136



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160205	Soil	12	19	0.68	175	0.145	<1	2.10	0.016	0.41	0.1	0.02	2.6	0.3	<0.05	7	<0.5	0.3
ROS 160189	Soil	9	34	1.04	192	0.144	1	2.68	0.015	0.24	<0.1	<0.01	4.5	0.2	<0.05	8	<0.5	<0.2
ROS 160188	Soil	49	33	1.52	516	0.195	<1	3.26	0.033	1.04	<0.1	0.02	7.6	0.5	<0.05	10	<0.5	<0.2
ROS 160115	Soil	11	24	0.49	248	0.062	2	1.17	0.024	0.07	0.3	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165961	Soil	27	41	0.48	230	0.076	1	1.81	0.012	0.14	0.1	0.10	5.9	<0.1	<0.05	6	<0.5	<0.2
ROS 165876	Soil	60	32	0.58	169	0.082	2	1.63	0.019	0.31	0.2	0.08	5.3	0.2	<0.05	8	<0.5	<0.2
ROS 173188	Soil	12	33	0.58	167	0.087	2	2.21	0.012	0.10	0.2	0.06	4.9	<0.1	<0.05	7	<0.5	<0.2
ROS 147220	Soil	22	20	0.52	129	0.098	<1	1.32	0.011	0.20	0.2	0.04	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 111928	Soil	15	33	0.58	208	0.073	1	1.51	0.014	0.06	0.2	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165880	Soil	23	57	0.86	150	0.136	1	1.86	0.014	0.24	0.2	0.07	4.5	0.2	<0.05	7	<0.5	<0.2
ROS 165877	Soil	21	32	0.67	208	0.125	2	2.04	0.012	0.30	0.1	0.05	4.3	0.1	<0.05	7	<0.5	<0.2
ROS 146148	Soil	25	38	0.54	208	0.074	<1	2.00	0.019	0.14	0.2	0.04	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 111929	Soil	24	22	0.68	196	0.037	2	1.91	0.021	0.18	0.2	0.15	5.9	<0.1	<0.05	8	<0.5	<0.2
ROS 165879	Soil	15	86	0.97	135	0.152	1	2.29	0.012	0.34	0.1	0.02	4.1	0.2	<0.05	8	<0.5	<0.2
ROS 173187	Soil	28	35	0.62	226	0.109	2	1.84	0.013	0.33	0.2	0.04	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 146146	Soil	35	15	0.73	164	0.097	1	1.57	0.019	0.38	<0.1	0.09	4.4	0.2	<0.05	7	<0.5	<0.2
ROS 173258	Soil	17	39	0.76	197	0.064	<1	1.96	0.012	0.08	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 165878	Soil	15	37	0.81	273	0.134	1	2.08	0.010	0.41	0.1	0.03	4.3	0.2	<0.05	9	<0.5	<0.2
ROS 147217	Soil	31	35	0.59	188	0.105	1	1.77	0.015	0.16	0.1	0.06	5.0	0.1	<0.05	7	<0.5	0.3
ROS 147226	Soil	9	174	1.43	106	0.135	<1	1.82	0.021	0.12	0.1	0.13	4.0	0.1	<0.05	8	<0.5	<0.2



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Project: ROS
 Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000587.1

Method	Analyte	Unit	MDL	1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
Pulp Duplicates				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160042	Soil			0.5	119.3	5.5	129	0.2	18.9	18.2	385	5.21	0.6	0.3	2.9	0.7	25	<0.1	<0.1	0.2	119	0.68	0.155
REP ROS 160042	QC			0.5	127.0	5.7	136	0.1	20.8	20.4	418	5.52	1.7	0.3	3.6	0.7	27	0.1	<0.1	0.2	127	0.74	0.178
ROS 160437	Soil			0.8	118.8	5.9	69	<0.1	18.5	8.5	269	4.05	1.9	2.1	2.4	18.2	29	<0.1	0.1	0.3	61	0.16	0.083
REP ROS 160437	QC			0.9	121.4	6.1	73	<0.1	19.0	8.6	273	4.12	1.8	2.2	3.0	18.6	30	<0.1	0.1	0.3	63	0.16	0.083
ROS 160430	Soil			1.1	36.9	5.6	61	0.2	22.9	10.5	202	2.66	2.9	1.3	1.7	5.3	18	0.1	0.2	0.2	53	0.24	0.084
REP ROS 160430	QC			1.2	39.2	5.9	62	0.2	24.5	11.2	212	2.82	3.2	1.2	5.9	5.4	19	0.1	0.2	0.2	57	0.25	0.089
ROS 165858	Soil			1.3	26.6	11.9	56	0.3	18.9	10.3	449	2.52	8.3	0.8	6.4	9.6	24	<0.1	0.9	0.2	45	0.43	0.029
REP ROS 165858	QC			1.3	25.1	11.9	55	0.3	21.0	10.2	443	2.53	8.6	0.8	7.8	9.5	26	<0.1	1.0	0.2	48	0.42	0.030
ROS 165925	Soil			0.7	8.8	7.7	64	<0.1	11.2	9.9	378	2.70	5.3	1.2	<0.5	9.8	29	<0.1	0.5	<0.1	41	0.29	0.040
REP ROS 165925	QC			0.7	9.2	8.2	66	<0.1	12.0	10.8	388	2.89	5.5	1.2	<0.5	9.4	28	<0.1	0.5	<0.1	42	0.31	0.040
ROS 147200	Soil			0.6	26.7	9.4	110	<0.1	12.4	11.5	691	3.78	6.5	1.0	<0.5	15.4	24	<0.1	0.6	0.1	63	0.22	0.051
REP ROS 147200	QC			0.6	27.3	9.4	105	<0.1	12.5	11.6	686	3.76	6.5	0.9	0.5	15.6	24	<0.1	0.6	0.1	64	0.22	0.053
ROS 173170	Soil			0.7	35.9	12.3	58	0.1	25.7	9.2	361	2.60	9.3	1.0	7.8	4.7	45	0.1	0.6	0.2	57	0.67	0.073
REP ROS 173170	QC			0.7	35.8	12.1	57	0.1	24.7	9.1	360	2.57	9.4	1.1	3.9	4.8	45	0.1	0.7	0.2	58	0.66	0.073
ROS 147208	Soil			1.3	21.7	9.2	51	<0.1	19.2	9.2	404	2.52	7.6	1.2	0.7	7.8	32	<0.1	0.5	0.1	60	0.33	0.024
REP ROS 147208	QC			1.1	22.2	9.4	51	<0.1	18.2	9.0	399	2.42	7.3	1.1	3.6	7.7	30	<0.1	0.4	0.1	58	0.31	0.021
ROS 173029	Soil			1.2	23.9	19.6	102	0.1	17.7	12.0	726	3.25	6.9	1.1	4.5	7.1	42	0.2	1.4	0.1	69	0.49	0.059
REP ROS 173029	QC			1.3	23.0	20.1	102	<0.1	20.2	12.2	719	3.22	7.5	1.1	2.4	7.0	43	0.1	1.6	0.1	72	0.51	0.060
ROS 164431	Soil			1.1	26.6	9.8	90	0.2	31.4	14.2	420	3.05	4.3	1.0	3.4	4.5	29	0.2	0.2	0.2	57	0.35	0.084
REP ROS 164431	QC			1.1	25.2	9.5	86	0.2	28.4	13.4	424	2.86	4.4	1.0	1.9	4.1	29	0.2	0.2	0.2	55	0.34	0.086
ROS 163903	Soil			1.1	21.9	9.5	72	<0.1	21.8	6.8	517	3.04	7.6	1.1	1.6	19.4	20	<0.1	0.4	0.3	48	0.34	0.044
REP ROS 163903	QC			1.0	20.3	8.7	67	<0.1	18.9	6.4	540	3.06	6.7	1.1	<0.5	19.6	19	<0.1	0.4	0.3	50	0.32	0.044
ROS 163545	Soil			2.0	35.0	9.4	74	<0.1	21.5	8.5	243	2.98	6.7	1.5	1.7	4.8	18	0.2	0.3	0.2	68	0.13	0.030
REP ROS 163545	QC			1.9	32.8	9.0	70	<0.1	19.6	7.7	218	2.79	6.6	1.4	2.4	4.6	17	0.2	0.3	0.2	64	0.13	0.029
ROS 163759	Soil			3.6	240.6	8.5	82	0.5	14.4	7.7	228	3.60	4.1	1.0	5.8	3.1	26	0.2	0.2	0.3	88	0.24	0.061
REP ROS 163759	QC			3.5	240.5	8.0	78	0.5	13.8	7.6	214	3.52	3.8	1.0	7.0	3.1	26	0.2	0.2	0.3	96	0.23	0.062
ROS 163755	Soil			1.0	197.8	6.0	68	0.3	23.1	8.5	212	3.05	1.5	2.0	1.9	6.7	36	0.2	0.1	0.2	55	0.17	0.079
REP ROS 163755	QC			0.9	196.4	6.2	71	0.3	22.8	8.4	212	3.07	1.4	2.0	1.4	6.7	36	0.2	0.1	0.2	54	0.17	0.077



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Project: ROS
Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000587.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 160042	Soil	7	26	1.17	345	0.147	<1	2.26	0.061	0.93	<0.1	<0.01	8.3	0.3	0.48	7	0.7	<0.2
REP ROS 160042	QC	7	28	1.22	416	0.178	<1	2.37	0.063	0.93	0.1	<0.01	8.8	0.4	0.45	8	<0.5	0.2
ROS 160437	Soil	51	40	0.99	248	0.142	<1	2.10	0.022	0.94	<0.1	0.01	4.7	0.6	0.24	6	0.6	<0.2
REP ROS 160437	QC	51	43	1.03	248	0.147	<1	2.15	0.022	0.94	<0.1	<0.01	4.9	0.5	0.26	6	0.6	0.3
ROS 160430	Soil	17	29	0.73	147	0.124	<1	1.58	0.015	0.35	0.1	0.01	3.1	0.3	0.05	6	<0.5	<0.2
REP ROS 160430	QC	18	31	0.75	154	0.131	<1	1.65	0.017	0.38	0.1	0.02	3.2	0.3	0.07	6	<0.5	<0.2
ROS 165858	Soil	26	26	0.47	272	0.053	<1	1.48	0.016	0.06	0.2	0.07	4.1	<0.1	<0.05	5	<0.5	<0.2
REP ROS 165858	QC	26	25	0.47	268	0.053	<1	1.61	0.016	0.07	0.2	0.07	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 165925	Soil	11	18	0.81	144	0.129	<1	1.76	0.008	0.37	0.2	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
REP ROS 165925	QC	11	19	0.83	155	0.139	<1	1.87	0.010	0.39	0.2	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 147200	Soil	24	21	1.00	170	0.140	1	2.31	0.010	0.64	0.1	0.02	5.3	0.4	<0.05	11	<0.5	<0.2
REP ROS 147200	QC	24	21	0.98	172	0.140	1	2.34	0.011	0.63	0.1	0.02	5.4	0.4	<0.05	11	<0.5	<0.2
ROS 173170	Soil	18	32	0.55	321	0.087	2	1.60	0.032	0.07	0.2	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
REP ROS 173170	QC	18	32	0.55	319	0.085	2	1.57	0.033	0.07	0.2	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 147208	Soil	31	34	0.51	248	0.093	<1	1.70	0.016	0.06	0.2	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
REP ROS 147208	QC	32	32	0.48	234	0.085	<1	1.63	0.015	0.06	0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 173029	Soil	14	35	0.76	251	0.127	1	1.90	0.012	0.22	0.2	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
REP ROS 173029	QC	14	37	0.69	250	0.141	1	1.96	0.016	0.24	0.3	0.02	5.2	<0.1	<0.05	8	0.6	0.2
ROS 164431	Soil	17	47	0.81	167	0.128	<1	1.80	0.012	0.25	0.1	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
REP ROS 164431	QC	17	45	0.79	161	0.133	<1	1.79	0.011	0.24	0.1	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 163903	Soil	46	34	0.46	126	0.083	<1	1.73	0.012	0.27	0.2	0.01	7.1	0.2	<0.05	7	<0.5	<0.2
REP ROS 163903	QC	43	30	0.45	119	0.086	<1	1.70	0.012	0.28	0.1	<0.01	6.5	0.2	<0.05	7	<0.5	<0.2
ROS 163545	Soil	14	36	0.63	200	0.090	1	2.00	0.015	0.12	<0.1	0.01	3.6	0.2	<0.05	6	0.6	<0.2
REP ROS 163545	QC	13	33	0.60	198	0.088	<1	1.98	0.013	0.10	<0.1	0.02	3.2	0.2	0.07	6	0.5	<0.2
ROS 163759	Soil	12	29	0.83	313	0.133	<1	2.21	0.018	0.38	<0.1	0.03	4.9	0.3	0.06	7	0.6	0.3
REP ROS 163759	QC	11	30	0.85	305	0.131	<1	2.27	0.016	0.39	<0.1	0.03	4.7	0.3	0.10	7	0.5	<0.2
ROS 163755	Soil	26	32	0.76	277	0.146	<1	1.81	0.022	0.64	<0.1	0.03	3.0	0.5	0.16	6	0.8	<0.2
REP ROS 163755	QC	26	32	0.74	269	0.145	<1	1.78	0.022	0.64	0.1	0.03	3.1	0.5	0.16	6	0.8	0.3

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.



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Project: ROS
 Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000587.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 165996	Soil	1.0	15.7	9.2	54	0.2	16.8	8.3	318	2.38	7.4	0.6	0.9	6.9	22	<0.1	1.2	0.2	52	0.26	0.031
REP ROS 165996	QC	1.0	15.6	8.8	53	0.3	16.2	8.1	316	2.32	7.4	0.6	1.1	6.9	22	<0.1	1.1	0.2	52	0.26	0.031
ROS 147004	Soil	0.6	26.7	10.9	71	0.1	20.2	9.9	362	2.35	6.7	1.5	1.3	5.5	29	0.3	0.6	0.2	53	0.42	0.056
REP ROS 147004	QC	0.7	26.3	10.4	70	0.1	20.0	10.0	361	2.34	6.7	1.5	1.4	5.7	30	0.2	0.7	0.2	52	0.42	0.056
ROS 160099	Soil	1.2	38.7	9.0	72	0.1	40.9	19.0	429	4.53	4.1	1.8	22.5	9.8	37	0.1	0.2	0.3	71	0.23	0.064
REP ROS 160099	QC	1.3	39.1	9.4	73	0.1	41.0	19.2	431	4.52	4.1	1.8	7.0	9.7	36	0.2	0.2	0.3	72	0.23	0.062
ROS 147217	Soil	1.1	18.3	9.3	66	<0.1	20.5	9.5	612	2.87	8.1	1.4	2.5	9.0	26	<0.1	0.6	0.2	60	0.32	0.036
REP ROS 147217	QC	1.1	18.7	9.5	63	<0.1	19.9	9.1	624	2.87	8.2	1.4	3.6	8.8	25	<0.1	0.6	0.2	60	0.31	0.037
Reference Materials																					
STD DS7	Standard	22.1	111.6	66.8	400	1.0	58.9	9.0	631	2.33	47.6	4.6	68.5	5.2	75	5.9	5.7	4.4	87	0.99	0.070
STD DS7	Standard	20.0	112.0	65.0	375	1.0	54.0	9.2	611	2.36	51.5	4.6	84.7	4.6	67	5.8	5.6	4.2	80	0.95	0.083
STD DS7	Standard	19.1	104.9	62.0	365	0.9	49.7	8.9	587	2.19	47.5	4.4	65.2	4.3	64	5.6	5.3	4.2	74	0.88	0.073
STD DS7	Standard	19.3	109.9	66.1	384	0.9	50.3	8.7	603	2.25	52.8	4.8	70.1	4.5	74	6.5	5.9	4.6	78	0.90	0.082
STD DS7	Standard	19.4	121.1	71.7	417	1.0	58.2	9.5	631	2.42	56.3	5.1	66.7	4.6	75	6.5	6.5	5.2	86	0.89	0.085
STD DS7	Standard	19.8	112.2	65.3	385	0.9	51.4	8.9	610	2.29	53.0	4.8	60.2	4.5	79	6.1	5.8	4.7	80	0.91	0.084
STD DS7	Standard	19.9	105.2	65.5	390	0.9	53.5	9.0	629	2.37	51.5	4.7	65.0	4.3	73	5.9	5.6	4.2	84	0.91	0.083
STD DS7	Standard	21.6	112.5	61.5	421	0.9	55.4	9.5	645	2.45	54.3	4.4	62.0	4.3	71	6.3	5.6	4.4	86	0.95	0.080
STD DS7	Standard	20.6	113.3	69.1	404	0.9	51.6	9.2	624	2.36	52.3	5.0	66.4	5.0	80	6.1	6.0	4.9	81	0.93	0.078
STD DS7	Standard	20.7	115.8	71.6	414	1.0	56.4	9.3	651	2.46	55.3	5.3	77.2	5.3	90	6.6	6.4	5.0	82	1.02	0.083
STD DS7	Standard	19.4	105.6	63.8	373	0.9	52.4	8.7	543	2.19	46.5	4.2	74.9	4.2	66	5.7	5.2	4.2	79	0.86	0.070
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: ROS
Report Date: November 06, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000587.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 165996	Soil	14	32	0.37	249	0.060	1	1.85	0.013	0.11	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
REP ROS 165996	QC	14	30	0.36	250	0.060	1	1.80	0.010	0.11	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 147004	Soil	21	29	0.50	285	0.055	<1	1.49	0.018	0.04	0.2	0.06	3.7	<0.1	<0.05	5	0.7	<0.2
REP ROS 147004	QC	21	29	0.51	284	0.058	1	1.53	0.018	0.04	0.2	0.06	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160099	Soil	31	58	1.16	199	0.229	<1	2.61	0.017	0.98	<0.1	<0.01	3.8	0.5	<0.05	12	<0.5	<0.2
REP ROS 160099	QC	31	58	1.15	204	0.226	<1	2.56	0.018	1.00	<0.1	<0.01	3.9	0.5	<0.05	12	<0.5	<0.2
ROS 147217	Soil	31	35	0.59	188	0.105	1	1.77	0.015	0.16	0.1	0.06	5.0	0.1	<0.05	7	<0.5	0.3
REP ROS 147217	QC	30	35	0.58	189	0.103	<1	1.79	0.014	0.15	0.1	0.07	5.1	0.1	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	15	214	1.12	388	0.138	37	1.06	0.090	0.50	3.8	0.23	2.5	4.4	0.21	5	2.9	0.6
STD DS7	Standard	13	196	1.08	391	0.119	39	1.09	0.104	0.46	3.5	0.21	2.6	4.0	0.20	5	3.0	1.1
STD DS7	Standard	12	173	0.96	381	0.105	32	0.94	0.086	0.44	3.4	0.21	2.3	4.0	0.15	5	2.8	1.4
STD DS7	Standard	13	174	1.00	387	0.121	39	1.02	0.099	0.46	3.5	0.20	2.6	3.9	0.19	5	3.0	1.1
STD DS7	Standard	12	191	1.05	391	0.121	40	0.93	0.096	0.47	3.5	0.23	2.5	4.1	0.27	5	3.1	1.1
STD DS7	Standard	13	176	1.01	392	0.127	40	1.04	0.111	0.49	3.4	0.20	2.7	3.9	0.20	5	3.3	1.4
STD DS7	Standard	12	184	1.01	372	0.114	38	0.98	0.103	0.45	3.6	0.21	2.6	4.1	0.21	5	2.6	2.0
STD DS7	Standard	13	204	1.09	402	0.117	39	1.06	0.105	0.49	3.8	0.20	2.4	3.9	0.19	5	2.6	1.8
STD DS7	Standard	14	190	1.06	407	0.129	42	0.97	0.103	0.49	3.5	0.21	2.6	4.1	0.19	5	2.9	1.8
STD DS7	Standard	16	203	1.09	417	0.140	45	1.12	0.120	0.51	3.5	0.22	3.2	4.2	0.20	5	3.5	1.3
STD DS7	Standard	11	178	0.98	341	0.108	36	0.94	0.082	0.45	3.1	0.20	2.0	3.7	0.16	4	3.2	1.5
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: ROS

Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000587.1

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



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000587.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 05, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000588.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

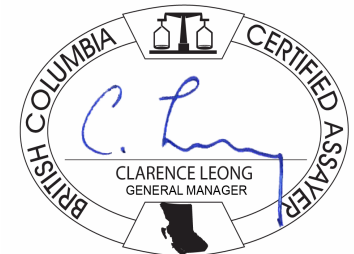
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

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

ADDITIONAL COMMENTS



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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000588.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 111924	Soil	0.9	46.9	15.9	102	0.1	23.2	14.3	723	3.59	8.5	2.6	73.1	21.7	33	0.1	0.6	0.1	53	0.34	0.069
ROS 147221	Soil	0.7	18.5	13.0	88	<0.1	9.8	9.8	374	2.93	5.8	1.7	<0.5	26.5	28	<0.1	0.6	0.2	45	0.30	0.069
ROS 141809	Soil	0.8	19.6	10.0	46	<0.1	17.6	9.1	308	2.43	8.0	0.9	4.7	6.6	26	<0.1	0.6	0.2	51	0.26	0.026
ROS 141810	Soil	0.9	37.2	15.0	62	<0.1	24.3	9.5	374	2.67	8.3	0.8	6.9	10.2	34	0.1	1.0	0.2	56	0.38	0.034
ROS 111922	Soil	0.7	21.5	15.8	128	0.2	14.9	13.5	583	2.98	7.6	1.2	3.3	7.1	42	0.2	0.6	0.2	55	0.37	0.060
ROS 146145	Soil	0.8	30.8	9.4	75	0.1	24.7	9.4	463	2.36	10.3	0.6	3.2	4.1	68	0.4	0.8	0.2	45	1.65	0.069
ROS 141802	Soil	0.8	22.8	9.7	61	<0.1	18.3	7.8	317	2.63	8.6	0.9	1.2	7.5	31	0.1	1.0	0.1	54	0.24	0.018
ROS 141811	Soil	0.6	38.3	10.1	55	<0.1	24.2	9.1	399	2.45	9.2	0.5	9.7	6.4	34	<0.1	0.7	0.2	52	0.48	0.031
ROS 111923	Soil	0.7	22.1	16.2	138	0.1	15.0	14.2	611	3.14	8.4	1.3	3.3	7.2	48	0.2	0.6	0.2	55	0.44	0.065
ROS 147219	Soil	0.9	20.3	6.6	55	<0.1	11.4	5.6	370	2.15	4.9	1.4	2.0	19.9	18	<0.1	0.5	0.4	32	0.19	0.018
ROS 141805	Soil	0.8	20.8	9.7	52	0.2	21.6	10.5	563	2.61	11.0	1.1	20.9	5.2	27	<0.1	0.8	0.2	54	0.31	0.041
ROS 141808	Soil	1.0	17.5	8.2	57	0.2	17.4	6.8	232	2.32	5.1	1.4	0.9	4.4	44	<0.1	0.7	0.1	46	0.88	0.031
ROS 147218	Soil	0.9	12.8	7.4	64	<0.1	11.8	6.8	432	2.64	5.1	1.1	0.9	14.6	16	<0.1	0.6	0.2	39	0.20	0.051
ROS 141803	Soil	0.6	21.6	9.1	60	<0.1	12.1	6.3	211	2.18	4.5	0.7	1.2	5.1	40	<0.1	1.0	0.2	48	0.28	0.012
ROS 141807	Soil	1.0	16.8	23.9	66	0.2	17.1	7.7	365	2.68	6.1	0.9	2.0	8.8	34	0.1	0.8	0.4	49	0.56	0.064
ROS 141804	Soil	0.7	20.6	9.5	61	0.1	17.5	8.4	303	2.66	8.7	0.9	0.7	7.0	24	0.1	1.6	0.2	41	0.25	0.035
ROS 163650	Soil	0.3	6.9	3.0	49	<0.1	2.8	4.8	391	2.17	1.0	1.3	0.8	14.5	12	<0.1	0.1	<0.1	22	0.15	0.035
ROS 163648	Soil	1.0	15.4	7.6	61	<0.1	12.0	9.2	578	3.17	6.3	1.0	3.9	9.5	11	<0.1	0.5	0.2	51	0.12	0.039
ROS 164107	Soil	1.4	19.7	16.6	120	0.1	8.1	13.5	611	3.25	2.7	1.2	5.2	6.3	36	0.2	0.2	0.1	71	0.22	0.044
ROS 164103	Soil	0.8	12.3	5.6	43	0.1	5.5	3.2	165	1.84	1.9	1.8	<0.5	3.8	29	<0.1	0.2	0.1	28	0.17	0.056
ROS 159131	Soil	0.7	8.3	8.1	55	<0.1	8.4	5.9	371	2.67	2.4	0.7	<0.5	12.3	17	<0.1	0.3	0.5	32	0.24	0.041
ROS 163649	Soil	1.2	8.3	4.7	50	<0.1	7.1	5.9	488	2.74	3.0	1.0	0.6	9.4	14	0.1	0.4	0.1	34	0.18	0.043
ROS 164105	Soil	0.9	16.0	5.9	59	0.2	8.1	5.0	250	2.29	2.3	1.9	4.1	6.4	25	0.1	0.2	0.1	44	0.17	0.046
ROS 164101	Soil	1.2	22.3	10.2	85	<0.1	12.5	8.1	317	2.86	4.1	1.6	8.1	8.2	36	0.3	0.3	0.2	54	0.31	0.045
ROS 159133	Soil	0.3	47.6	6.9	83	<0.1	13.2	23.2	782	5.35	2.1	1.2	1.0	5.4	42	<0.1	1.3	<0.1	138	1.15	0.228
ROS 159134	Soil	0.4	52.7	6.0	79	<0.1	16.4	21.9	730	4.56	3.8	1.0	2.2	10.7	44	<0.1	0.8	<0.1	112	0.87	0.128
ROS 164104	Soil	0.5	11.0	5.2	31	0.1	4.8	2.6	110	1.36	2.3	1.5	2.2	1.9	24	0.2	0.1	0.1	21	0.14	0.048
ROS 164100	Soil	1.1	30.9	11.2	81	0.1	13.6	6.8	263	2.60	4.6	1.9	3.2	7.6	31	0.3	0.3	0.2	51	0.35	0.043
ROS 159132	Soil	0.9	22.1	20.6	75	<0.1	11.0	8.7	251	3.48	4.2	2.7	0.6	40.6	17	<0.1	0.7	0.3	42	0.20	0.030
ROS 164106	Soil	1.3	16.6	10.9	71	0.2	8.9	7.1	316	2.36	2.9	2.6	1.6	5.0	35	0.1	0.2	0.1	45	0.19	0.062

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 111924	Soil	68	29	1.13	144	0.146	<1	2.10	0.011	0.70	0.3	0.07	4.0	0.4	<0.05	7	<0.5	<0.2
ROS 147221	Soil	21	17	0.68	133	0.103	<1	1.64	0.010	0.48	0.1	0.05	4.0	0.4	<0.05	8	<0.5	<0.2
ROS 141809	Soil	17	32	0.46	241	0.071	1	1.56	0.021	0.07	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2
ROS 141810	Soil	25	34	0.54	259	0.088	1	1.78	0.026	0.08	0.1	0.07	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 111922	Soil	18	26	0.81	183	0.056	<1	2.12	0.009	0.12	0.1	0.09	4.8	<0.1	<0.05	8	<0.5	<0.2
ROS 146145	Soil	15	24	0.65	380	0.076	2	1.37	0.036	0.08	0.1	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 141802	Soil	17	29	0.55	215	0.090	1	1.75	0.014	0.08	0.1	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
ROS 141811	Soil	18	29	0.54	260	0.073	1	1.61	0.030	0.06	0.1	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 111923	Soil	18	26	0.88	182	0.058	<1	2.19	0.009	0.12	0.1	0.09	5.2	<0.1	<0.05	8	<0.5	<0.2
ROS 147219	Soil	13	16	0.43	88	0.089	<1	1.30	0.011	0.23	0.2	0.07	4.1	0.2	<0.05	5	<0.5	<0.2
ROS 141805	Soil	23	34	0.45	297	0.086	1	1.73	0.019	0.13	0.1	0.10	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 141808	Soil	17	29	0.51	326	0.064	2	1.56	0.034	0.10	0.1	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 147218	Soil	22	20	0.50	126	0.077	<1	1.68	0.011	0.38	0.2	0.05	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 141803	Soil	9	23	0.48	168	0.089	<1	1.44	0.013	0.06	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 141807	Soil	23	27	0.46	410	0.051	3	1.80	0.013	0.19	0.2	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 141804	Soil	15	22	0.46	269	0.041	1	1.63	0.009	0.15	0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163650	Soil	48	4	0.64	113	0.102	<1	1.39	0.008	0.46	<0.1	<0.01	3.6	0.2	<0.05	7	<0.5	<0.2
ROS 163648	Soil	8	20	0.57	103	0.117	<1	1.73	0.011	0.30	0.2	0.02	3.9	0.2	<0.05	7	<0.5	<0.2
ROS 164107	Soil	19	14	0.99	151	0.146	<1	2.05	0.013	0.59	<0.1	<0.01	3.4	0.3	<0.05	8	<0.5	<0.2
ROS 164103	Soil	23	10	0.41	90	0.081	<1	1.30	0.010	0.25	<0.1	0.03	2.9	0.2	0.10	6	0.6	<0.2
ROS 159131	Soil	17	14	0.46	126	0.037	<1	1.69	0.010	0.21	0.1	0.01	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 163649	Soil	21	11	0.38	131	0.058	<1	1.58	0.008	0.29	<0.1	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 164105	Soil	25	15	0.54	98	0.108	<1	1.58	0.012	0.28	<0.1	0.04	3.4	0.2	<0.05	7	0.6	0.2
ROS 164101	Soil	20	20	0.66	222	0.131	<1	1.81	0.024	0.33	0.1	0.01	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 159133	Soil	20	19	1.87	311	0.073	<1	2.81	0.031	0.21	<0.1	0.05	11.3	0.1	<0.05	9	0.8	<0.2
ROS 159134	Soil	23	28	1.73	373	0.132	<1	2.67	0.024	0.35	0.1	0.05	8.3	0.1	<0.05	8	<0.5	0.2
ROS 164104	Soil	17	12	0.26	77	0.059	<1	0.94	0.010	0.13	<0.1	0.04	2.2	0.1	0.07	5	0.6	<0.2
ROS 164100	Soil	24	21	0.62	257	0.131	<1	1.64	0.016	0.24	0.1	0.02	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 159132	Soil	24	21	0.38	143	0.027	<1	1.74	0.015	0.16	<0.1	0.02	4.0	0.2	<0.05	7	0.8	0.2
ROS 164106	Soil	31	19	0.49	111	0.084	<1	2.00	0.013	0.24	<0.1	0.03	3.0	0.2	<0.05	8	<0.5	0.2

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Project: ROS
 Report Date: November 05, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164102	Soil	0.6	16.4	63.4	173	0.2	5.5	4.4	224	2.02	2.0	1.8	1.1	3.8	35	0.2	0.2	0.2	36	0.27	0.060
ROS 164099	Soil	1.2	33.1	13.0	88	0.2	13.3	8.1	314	2.67	3.9	2.7	0.6	9.0	38	0.4	0.3	0.2	53	0.41	0.048
ROS 163528	Soil	1.1	18.6	8.4	65	0.1	17.1	7.0	203	2.41	4.3	0.9	6.3	2.2	22	0.2	0.3	0.1	55	0.31	0.065
ROS 159450	Soil	1.1	16.1	18.2	103	<0.1	17.7	12.7	445	4.25	4.8	1.3	2.4	13.1	14	0.1	1.0	0.4	64	0.31	0.052
ROS 159453	Soil	0.6	15.9	10.5	60	<0.1	15.2	6.4	379	2.31	3.3	0.4	1.9	2.8	19	<0.1	0.9	0.1	39	0.45	0.042
ROS 159458	Soil	1.0	17.8	8.3	61	<0.1	15.9	11.3	650	3.04	5.9	0.5	1.8	3.7	27	<0.1	0.5	0.1	74	0.37	0.071
ROS 163526	Soil	0.8	19.0	7.6	64	0.1	15.5	7.7	225	2.46	4.1	1.0	4.3	2.9	25	0.1	0.3	0.1	57	0.35	0.062
ROS 159451	Soil	0.3	17.2	7.1	105	<0.1	14.0	14.8	645	3.83	7.2	0.6	2.3	3.5	56	<0.1	2.1	<0.1	68	1.76	0.133
ROS 159457	Soil	0.3	44.6	3.5	102	<0.1	31.8	20.9	509	4.51	4.0	0.6	1.1	2.7	65	<0.1	0.4	<0.1	101	0.96	0.214
ROS 173274	Soil	1.1	59.0	19.1	105	0.3	20.9	10.1	493	3.46	6.1	1.3	13.9	13.5	36	0.2	3.2	0.6	55	0.46	0.059
ROS 163522	Soil	2.9	182.1	7.5	87	0.4	22.0	9.6	269	2.97	2.4	1.5	3.2	6.3	26	0.1	0.1	0.2	63	0.22	0.053
ROS 159448	Soil	0.5	37.2	5.6	64	<0.1	15.6	14.2	421	3.73	4.3	0.6	4.2	3.0	44	<0.1	0.3	<0.1	116	0.68	0.079
ROS 159454	Soil	1.2	13.3	9.7	61	<0.1	20.2	10.4	491	2.58	6.0	0.5	1.3	4.3	23	0.2	0.5	0.2	65	0.28	0.023
ROS 159452	Soil	0.2	37.7	8.6	147	<0.1	8.3	19.6	1144	5.42	7.9	0.8	<0.5	3.7	57	0.1	5.6	<0.1	97	2.04	0.221
ROS 163525	Soil	1.8	123.6	6.3	73	0.4	15.9	10.1	289	2.63	2.3	1.6	3.5	4.5	23	0.3	0.1	0.1	50	0.20	0.042
ROS 159456	Soil	1.0	13.4	10.6	59	<0.1	16.9	9.2	404	2.74	5.1	1.1	2.9	24.5	22	<0.1	0.4	0.2	54	0.29	0.035
ROS 159449	Soil	2.3	26.6	27.4	69	0.2	9.5	7.9	654	2.73	12.7	1.4	3.1	17.5	15	0.2	0.9	0.6	38	0.33	0.081
ROS 159455	Soil	1.5	14.4	9.7	53	<0.1	19.0	9.1	283	2.52	5.3	0.7	1.2	6.6	21	0.2	0.5	0.2	60	0.22	0.026
ROS 160097	Soil	1.2	42.7	12.0	106	0.2	24.1	9.9	281	2.93	3.5	1.2	1.4	6.6	22	0.2	0.2	0.2	71	0.25	0.037
ROS 148078	Soil	0.8	29.4	9.2	70	0.1	29.1	10.0	424	2.55	9.1	0.8	3.9	4.3	63	0.2	0.8	0.2	57	1.31	0.073
ROS 163513	Soil	0.8	133.5	11.6	141	0.3	9.6	17.9	579	6.78	0.8	0.7	4.3	1.2	33	0.3	0.1	0.4	174	0.46	0.174
ROS 163519	Soil	2.4	173.8	9.5	70	0.4	14.7	7.3	191	2.84	2.5	1.2	5.8	2.4	24	0.3	0.2	0.2	66	0.20	0.047
ROS 160098	Soil	0.9	43.0	7.8	91	0.2	27.0	11.3	354	3.20	1.8	2.2	1.9	11.7	47	0.2	0.2	0.2	57	0.31	0.059
ROS 148079	Soil	0.7	33.5	7.9	58	<0.1	27.3	10.6	349	2.45	8.4	0.7	3.8	3.8	42	0.2	0.7	0.1	51	0.66	0.067
ROS 163524	Soil	1.9	144.8	6.2	72	0.5	16.8	9.9	256	2.43	2.4	1.5	5.7	4.4	23	0.2	0.1	0.1	42	0.20	0.044
ROS 163517	Soil	2.1	127.1	7.1	60	0.5	10.0	5.8	161	2.20	1.2	0.7	3.4	1.2	23	0.2	0.1	0.2	44	0.20	0.053
ROS 160112	Soil	0.7	30.2	8.4	67	0.1	26.5	10.9	420	2.45	8.1	1.0	5.8	3.9	45	0.3	0.7	0.1	50	0.78	0.072
ROS 148075	Soil	0.9	19.5	8.0	78	<0.1	18.0	9.2	391	2.70	7.1	0.8	2.1	4.8	29	0.2	0.4	0.1	54	0.47	0.060
ROS 163521	Soil	2.6	198.3	6.4	76	0.5	17.7	8.9	215	2.63	2.0	1.4	6.2	3.8	24	0.2	0.1	0.2	49	0.18	0.054
ROS 163527	Soil	1.1	17.0	7.0	64	0.2	15.4	8.3	211	2.45	5.1	0.8	4.2	2.3	20	0.2	0.2	0.1	57	0.29	0.055

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164102	Soil	20	13	0.58	93	0.087	<1	1.60	0.015	0.23	<0.1	0.05	2.5	0.2	<0.05	6	<0.5	0.2
ROS 164099	Soil	28	21	0.66	347	0.140	<1	1.78	0.024	0.32	0.1	0.02	3.7	0.3	<0.05	6	0.5	<0.2
ROS 163528	Soil	13	32	0.50	181	0.072	<1	1.50	0.019	0.08	0.2	0.02	3.0	<0.1	<0.05	5	0.9	0.2
ROS 159450	Soil	16	37	0.44	127	0.053	<1	1.60	0.008	0.18	0.1	0.01	8.9	0.2	<0.05	7	<0.5	<0.2
ROS 159453	Soil	14	19	0.40	188	0.018	<1	1.22	0.012	0.08	<0.1	0.03	4.3	<0.1	<0.05	5	0.5	<0.2
ROS 159458	Soil	10	29	0.86	251	0.090	<1	1.89	0.017	0.13	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 163526	Soil	15	28	0.55	217	0.080	<1	1.60	0.020	0.08	0.2	0.04	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 159451	Soil	15	16	1.40	270	0.080	1	2.09	0.019	0.19	<0.1	0.04	4.3	<0.1	<0.05	9	<0.5	<0.2
ROS 159457	Soil	14	45	2.20	515	0.246	<1	3.09	0.021	1.23	0.3	0.01	3.6	0.3	<0.05	8	<0.5	<0.2
ROS 173274	Soil	39	27	0.79	419	0.070	2	1.97	0.014	0.19	0.3	0.25	5.3	0.2	<0.05	7	<0.5	<0.2
ROS 163522	Soil	27	27	0.73	173	0.141	<1	1.92	0.016	0.35	0.1	0.02	3.4	0.3	<0.05	7	0.5	<0.2
ROS 159448	Soil	10	32	1.14	239	0.115	<1	2.12	0.015	0.11	0.1	0.02	6.4	<0.1	<0.05	8	<0.5	<0.2
ROS 159454	Soil	12	32	0.42	253	0.070	<1	1.89	0.015	0.08	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 159452	Soil	29	12	1.78	356	0.049	<1	2.45	0.007	0.04	<0.1	0.06	9.0	<0.1	<0.05	14	<0.5	0.2
ROS 163525	Soil	27	22	0.61	154	0.127	<1	1.83	0.016	0.32	<0.1	0.03	2.9	0.3	<0.05	7	0.6	<0.2
ROS 159456	Soil	23	34	0.44	193	0.086	1	1.54	0.015	0.23	0.1	0.02	4.2	0.2	<0.05	5	0.6	0.4
ROS 159449	Soil	27	10	0.38	253	0.045	<1	0.99	0.007	0.24	<0.1	0.06	4.4	0.3	<0.05	3	0.8	0.4
ROS 159455	Soil	11	32	0.40	188	0.068	<1	1.55	0.018	0.10	<0.1	0.02	3.3	<0.1	<0.05	5	0.6	0.2
ROS 160097	Soil	20	36	0.82	318	0.183	<1	2.00	0.013	0.26	0.1	0.01	4.1	0.3	<0.05	7	0.8	<0.2
ROS 148078	Soil	15	29	0.73	377	0.083	1	1.38	0.041	0.08	0.2	0.03	3.6	<0.1	<0.05	4	0.9	<0.2
ROS 163513	Soil	8	18	1.39	570	0.226	<1	2.70	0.052	1.23	<0.1	<0.01	10.2	0.5	0.25	10	0.6	<0.2
ROS 163519	Soil	13	25	0.60	226	0.114	<1	1.70	0.018	0.20	<0.1	0.03	3.6	0.2	<0.05	6	0.6	<0.2
ROS 160098	Soil	40	34	0.84	400	0.201	<1	2.18	0.020	0.63	<0.1	<0.01	3.8	0.4	<0.05	7	0.6	<0.2
ROS 148079	Soil	13	29	0.62	275	0.069	1	1.28	0.032	0.06	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 163524	Soil	26	22	0.59	160	0.109	<1	1.66	0.015	0.28	0.1	0.04	2.8	0.3	<0.05	6	0.6	<0.2
ROS 163517	Soil	7	21	0.56	244	0.084	<1	1.37	0.017	0.27	0.1	0.06	3.4	0.2	0.09	6	<0.5	<0.2
ROS 160112	Soil	13	28	0.60	302	0.072	3	1.27	0.030	0.08	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 148075	Soil	14	25	0.63	229	0.101	<1	1.57	0.019	0.26	0.2	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 163521	Soil	21	27	0.65	191	0.106	<1	1.58	0.014	0.31	<0.1	0.04	3.1	0.2	0.08	6	<0.5	0.3
ROS 163527	Soil	11	30	0.55	198	0.073	<1	1.55	0.016	0.05	0.2	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160096	Soil	1.5	59.6	13.6	122	0.1	29.6	11.9	345	3.17	4.8	1.3	2.0	6.8	20	0.2	0.2	0.2	67	0.27	0.037
ROS 148077	Soil	0.8	29.9	8.3	64	0.1	25.0	10.0	376	2.54	9.4	0.7	2.7	3.7	37	0.2	0.6	0.1	53	0.65	0.075
ROS 163520	Soil	2.9	216.3	7.9	91	0.6	20.7	11.1	327	3.16	2.5	1.4	6.4	4.9	27	0.2	0.1	0.2	67	0.19	0.052
ROS 163518	Soil	2.0	171.2	10.7	83	0.4	17.0	10.5	230	2.87	2.2	1.2	6.6	3.8	22	0.2	0.1	0.3	62	0.23	0.058
ROS 111927	Soil	0.5	28.1	12.1	112	<0.1	18.9	10.0	361	3.08	6.1	1.0	20.7	11.2	28	<0.1	3.1	0.2	50	0.44	0.041
ROS 141826	Soil	0.8	29.3	10.5	65	0.1	24.6	10.2	475	2.56	7.4	0.7	3.0	5.4	42	<0.1	0.7	0.2	49	0.67	0.054
ROS 159139	Soil	0.8	27.2	9.2	58	<0.1	18.1	9.6	308	2.63	6.7	1.3	6.0	6.8	29	<0.1	0.4	0.1	50	0.48	0.058
ROS 159136	Soil	0.6	26.0	6.7	84	<0.1	13.6	13.7	548	3.75	5.3	1.2	24.1	6.4	23	<0.1	0.4	0.1	84	0.41	0.078
ROS 173275	Soil	1.4	40.9	74.6	235	0.2	16.8	13.0	780	4.11	18.1	0.9	3.5	5.9	26	0.3	2.5	4.7	73	0.52	0.069
ROS 141828	Soil	0.8	60.0	7.7	125	0.5	22.1	27.8	1668	5.65	4.8	0.5	12.7	2.2	56	0.3	3.5	<0.1	174	1.02	0.080
ROS 173272	Soil	0.5	51.8	34.9	121	0.1	20.0	11.2	402	3.21	7.2	0.7	12.3	7.0	31	<0.1	1.2	1.5	68	0.43	0.045
ROS 159137	Soil	0.7	22.0	7.4	62	<0.1	14.7	9.4	374	2.82	6.5	1.2	2.6	7.7	25	<0.1	0.5	0.1	57	0.38	0.062
ROS 165560	Soil	0.8	21.2	7.3	72	<0.1	15.0	9.8	269	2.37	3.6	1.2	2.3	4.8	32	0.1	0.3	<0.1	53	0.58	0.064
ROS 173277	Soil	0.4	42.7	18.1	162	<0.1	23.2	14.6	778	4.27	6.1	1.6	11.0	22.6	86	0.2	3.2	<0.1	72	0.93	0.104
ROS 111926	Soil	0.7	32.7	12.2	106	<0.1	12.2	10.2	628	3.40	4.2	2.0	12.7	22.3	24	<0.1	2.0	0.2	57	0.47	0.097
ROS 159135	Soil	0.6	20.4	11.2	105	<0.1	16.2	9.8	357	2.78	4.4	2.0	2.0	15.4	17	0.1	0.5	0.1	39	0.29	0.035
ROS 141827	Soil	0.8	46.8	17.5	140	0.3	21.4	15.6	780	3.72	7.6	1.2	2.3	3.0	55	0.5	2.2	0.1	87	1.01	0.123
ROS 173269	Soil	0.6	37.4	13.6	115	<0.1	18.4	13.6	485	3.35	7.3	1.4	10.7	25.2	55	<0.1	0.9	<0.1	52	0.41	0.036
ROS 111925	Soil	0.6	35.2	10.3	98	<0.1	13.2	10.2	545	3.25	4.9	1.3	5.8	7.3	37	<0.1	2.2	<0.1	67	0.36	0.039
ROS 163647	Soil	1.4	18.5	8.4	52	<0.1	16.3	8.9	346	2.81	8.2	1.0	2.8	8.4	16	<0.1	0.5	0.2	58	0.19	0.027
ROS 163689	Soil	1.3	27.2	4.5	114	<0.1	10.5	27.7	726	3.59	3.0	2.0	1.7	6.8	45	0.2	0.2	<0.1	62	0.32	0.047
ROS 164926	Soil	1.2	48.3	19.8	85	0.2	24.0	10.3	430	3.36	6.1	1.8	18.6	10.7	37	0.3	0.3	0.2	68	0.55	0.038
ROS 160121	Soil	1.0	238.2	5.2	104	0.2	18.0	8.7	288	4.52	<0.5	2.4	1.8	16.1	31	0.1	<0.1	0.4	72	0.14	0.085
ROS 160119	Soil	1.3	133.4	10.7	97	0.3	35.1	13.8	249	4.29	2.6	2.7	4.0	10.5	53	0.2	0.2	0.6	68	0.31	0.069
ROS 164285	Soil	10.5	566.5	4.8	82	0.6	12.0	14.3	448	4.38	1.8	1.7	10.6	8.8	49	0.1	<0.1	0.4	94	0.25	0.072
ROS 163613	Soil	0.6	55.3	17.3	115	<0.1	28.2	9.5	547	4.06	0.7	4.6	0.8	34.2	113	0.3	<0.1	0.3	46	0.26	0.132
ROS 163612	Soil	1.1	28.6	7.5	84	<0.1	11.2	11.3	590	4.80	4.2	0.6	2.0	3.9	20	<0.1	0.2	0.1	136	0.11	0.054
ROS 160122	Soil	0.9	156.5	7.0	57	0.2	15.9	6.6	227	4.68	<0.5	3.2	3.3	21.3	48	<0.1	<0.1	0.4	73	0.14	0.089
ROS 160127	Soil	0.8	22.8	7.2	104	<0.1	13.8	11.3	344	3.25	2.8	0.5	1.2	0.8	14	0.2	0.2	0.1	90	0.16	0.044
ROS 163614	Soil	0.8	26.7	17.1	114	<0.1	21.1	5.6	416	3.55	1.0	2.9	<0.5	23.2	182	0.2	<0.1	0.5	30	0.28	0.088

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 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160096	Soil	16	40	0.84	299	0.156	<1	1.87	0.012	0.24	0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
ROS 148077	Soil	13	28	0.59	307	0.072	<1	1.26	0.024	0.07	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 163520	Soil	23	31	0.82	225	0.139	<1	2.00	0.014	0.43	<0.1	0.05	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 163518	Soil	16	25	0.71	277	0.128	<1	1.79	0.017	0.39	0.1	0.07	4.3	0.2	0.05	6	<0.5	<0.2
ROS 111927	Soil	32	36	0.70	308	0.026	2	1.83	0.014	0.16	0.2	0.33	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 141826	Soil	18	29	0.57	288	0.080	<1	1.56	0.026	0.11	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 159139	Soil	22	28	0.54	230	0.073	<1	1.56	0.016	0.09	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 159136	Soil	17	21	0.96	263	0.139	<1	1.81	0.011	0.54	<0.1	0.02	6.1	0.2	<0.05	7	<0.5	<0.2
ROS 173275	Soil	12	24	0.94	445	0.142	1	2.17	0.015	0.60	0.3	0.92	4.9	0.3	<0.05	7	<0.5	1.2
ROS 141828	Soil	9	60	2.59	316	0.185	3	3.05	0.016	0.39	0.4	0.08	15.2	0.2	<0.05	12	<0.5	<0.2
ROS 173272	Soil	16	27	0.74	318	0.100	<1	1.78	0.017	0.21	0.8	0.22	4.8	0.1	<0.05	6	<0.5	0.9
ROS 159137	Soil	23	28	0.66	218	0.103	<1	1.56	0.014	0.19	0.1	0.03	4.8	0.1	<0.05	5	<0.5	0.5
ROS 165560	Soil	16	26	0.69	211	0.109	<1	1.51	0.018	0.23	0.2	0.04	3.8	0.1	<0.05	5	0.5	<0.2
ROS 173277	Soil	43	25	1.08	326	0.177	<1	2.61	0.012	0.16	0.3	0.19	4.1	<0.1	<0.05	11	<0.5	<0.2
ROS 111926	Soil	56	20	0.74	254	0.057	<1	1.72	0.011	0.23	0.5	0.14	4.5	<0.1	<0.05	9	<0.5	<0.2
ROS 159135	Soil	25	36	0.58	184	0.067	<1	1.46	0.010	0.23	<0.1	0.03	4.2	0.3	<0.05	5	<0.5	<0.2
ROS 141827	Soil	24	33	0.98	462	0.087	4	2.10	0.017	0.36	0.2	0.06	6.0	0.1	0.05	8	<0.5	<0.2
ROS 173269	Soil	53	25	0.65	196	0.079	<1	1.88	0.012	0.12	0.2	0.08	4.8	<0.1	<0.05	9	<0.5	<0.2
ROS 111925	Soil	29	19	0.67	167	0.031	<1	1.98	0.011	0.05	0.3	0.12	6.1	<0.1	<0.05	9	<0.5	<0.2
ROS 163647	Soil	29	32	0.50	168	0.089	<1	1.77	0.011	0.10	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 163689	Soil	37	16	0.78	337	0.180	<1	2.30	0.024	0.63	<0.1	0.01	5.9	0.3	<0.05	9	<0.5	<0.2
ROS 164926	Soil	24	34	0.89	218	0.111	<1	2.14	0.020	0.13	0.1	0.03	5.7	0.1	<0.05	7	<0.5	<0.2
ROS 160121	Soil	54	51	1.11	369	0.194	<1	2.44	0.025	1.32	<0.1	0.01	4.7	0.7	0.44	7	0.6	<0.2
ROS 160119	Soil	46	48	0.88	300	0.148	<1	2.73	0.027	0.75	<0.1	0.02	4.1	0.5	0.27	8	<0.5	<0.2
ROS 164285	Soil	26	27	1.26	505	0.187	<1	2.67	0.025	1.07	<0.1	0.02	4.7	0.5	0.24	8	1.3	0.2
ROS 163613	Soil	58	31	1.07	423	0.201	<1	2.79	0.019	1.37	<0.1	<0.01	2.6	0.5	0.61	7	<0.5	0.2
ROS 163612	Soil	13	30	1.40	350	0.202	<1	3.22	0.015	0.98	<0.1	0.01	4.6	0.3	0.13	10	<0.5	<0.2
ROS 160122	Soil	51	51	1.01	272	0.193	<1	2.28	0.043	1.39	<0.1	<0.01	4.3	0.8	0.56	7	0.8	<0.2
ROS 160127	Soil	7	19	0.78	160	0.154	<1	1.78	0.018	0.28	<0.1	0.02	3.5	0.2	<0.05	10	<0.5	<0.2
ROS 163614	Soil	43	26	0.91	350	0.142	<1	2.10	0.036	1.05	<0.1	<0.01	2.1	0.6	0.52	6	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160494	Soil	1.6	32.7	108.2	220	0.5	11.4	8.6	464	2.82	3.7	2.6	1.4	4.2	34	0.6	0.1	0.2	58	0.26	0.051
ROS 160123	Soil	2.2	122.1	8.6	45	0.2	14.2	6.9	323	4.47	0.7	3.5	4.4	21.2	40	<0.1	<0.1	0.8	77	0.21	0.091
ROS 160126	Soil	0.7	33.8	6.5	61	<0.1	16.9	14.5	312	3.34	6.3	0.8	4.3	2.2	12	<0.1	0.4	0.1	89	0.23	0.052
ROS 164284	Soil	1.0	48.7	7.7	85	0.2	14.4	11.2	339	3.51	5.2	0.8	1.4	2.1	21	0.1	0.2	0.2	89	0.32	0.065
ROS 163615	Soil	1.0	27.3	7.9	113	<0.1	29.3	14.6	591	3.93	2.9	2.3	0.9	16.3	39	<0.1	0.2	0.2	51	0.17	0.051
ROS 160124	Soil	1.4	257.2	11.8	128	0.4	9.7	5.5	306	5.08	4.3	1.2	8.6	5.8	18	0.1	0.3	0.6	70	0.07	0.035
ROS 164098	Soil	1.9	41.7	16.1	145	<0.1	11.3	8.8	499	3.47	2.9	2.4	<0.5	14.5	36	0.4	0.2	0.4	53	0.30	0.044
ROS 165577	Soil	0.5	29.2	11.0	76	<0.1	17.9	12.6	488	3.25	4.5	0.5	0.8	2.6	27	<0.1	0.3	<0.1	63	0.52	0.100
ROS 165606	Soil	0.8	27.2	15.5	48	0.4	25.4	9.3	365	2.29	9.9	0.6	2.3	2.2	83	0.2	0.9	0.1	51	4.66	0.050
ROS 165602	Soil	0.5	29.3	13.8	67	0.1	28.7	10.1	512	2.41	10.2	0.9	2.0	3.4	41	0.3	0.8	0.1	49	1.37	0.068
ROS 164096	Soil	1.7	27.4	13.5	100	<0.1	18.4	9.0	379	2.92	5.4	1.0	0.9	6.2	26	0.3	0.3	0.2	61	0.31	0.033
ROS 165609	Soil	0.9	16.2	10.9	38	<0.1	11.6	5.8	196	1.63	4.6	0.8	<0.5	6.5	16	<0.1	0.5	0.1	34	0.33	0.027
ROS 165604	Soil	0.8	31.1	8.6	51	0.1	28.0	10.5	472	2.57	10.3	0.7	5.8	2.4	65	0.1	0.7	0.1	56	3.48	0.043
ROS 165600	Soil	0.7	32.8	11.1	52	0.2	28.0	9.7	529	2.42	14.9	0.5	2.6	2.1	43	0.3	0.6	0.1	53	2.85	0.056
ROS 164097	Soil	1.7	22.2	13.5	121	<0.1	13.9	10.7	479	3.45	5.0	1.4	<0.5	9.8	37	0.3	0.2	0.2	67	0.34	0.053
ROS 165608	Soil	0.7	41.1	42.6	87	0.6	25.8	16.9	531	3.73	49.5	0.6	5.2	3.8	50	0.2	3.1	0.1	72	2.55	0.056
ROS 165605	Soil	0.9	28.1	15.9	51	0.5	27.0	9.9	380	2.42	10.7	0.7	12.7	2.5	89	0.3	1.0	0.1	55	5.26	0.054
ROS 165601	Soil	1.4	32.0	15.9	64	0.2	53.0	9.1	517	2.10	33.2	0.7	<0.5	4.4	72	0.9	1.4	<0.1	50	8.61	0.085
ROS 165823	Soil	1.0	32.6	10.2	61	0.1	27.5	9.8	437	2.81	8.3	1.5	5.1	6.1	35	0.2	0.7	0.2	60	0.57	0.046
ROS 165607	Soil	0.8	12.0	17.7	44	2.2	7.0	6.7	513	1.91	5.7	1.0	5.2	5.1	71	<0.1	4.2	1.7	10	2.25	0.061
ROS 165603	Soil	0.7	27.1	12.9	67	0.1	24.8	9.8	264	2.51	11.1	1.4	1.9	4.7	36	0.2	0.7	0.1	50	1.12	0.073
ROS 160131	Soil	1.6	26.8	11.4	103	0.2	21.3	5.9	147	2.58	6.2	1.3	2.0	2.2	23	0.3	0.2	0.2	58	0.18	0.048
ROS 159407	Soil	1.7	20.4	9.3	52	<0.1	26.6	10.1	456	2.68	8.2	1.1	6.0	4.5	32	<0.1	0.4	0.2	62	0.50	0.047
ROS 159408	Soil	0.9	17.1	10.3	57	<0.1	16.8	9.7	399	3.04	6.8	1.3	1.7	11.0	48	<0.1	0.3	0.1	55	0.96	0.049
ROS 159403	Soil	1.5	15.3	12.5	73	<0.1	10.3	7.2	501	2.98	5.2	1.4	<0.5	9.5	20	<0.1	0.3	0.2	58	0.22	0.023
ROS 164824	Soil	0.8	14.0	12.4	74	<0.1	9.8	5.7	642	2.89	2.8	2.2	2.0	20.9	25	<0.1	0.3	0.3	32	0.47	0.072
ROS 164832	Soil	1.2	10.4	10.0	58	<0.1	13.8	6.6	244	2.33	5.6	0.8	<0.5	4.9	23	0.1	0.3	0.2	55	0.29	0.040
ROS 164830	Soil	1.0	19.2	12.1	65	<0.1	17.6	8.9	320	2.78	6.8	1.7	0.7	8.5	30	<0.1	0.6	0.2	59	0.48	0.061
ROS 164827	Soil	0.8	22.7	9.5	77	<0.1	23.0	13.6	504	3.37	6.2	1.8	3.2	10.6	42	<0.1	0.6	0.1	70	0.71	0.105
ROS 164821	Soil	1.4	14.1	9.9	60	<0.1	16.0	9.0	562	2.82	5.6	1.3	0.7	14.4	17	<0.1	0.3	0.2	47	0.28	0.053

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160494	Soil	32	16	0.83	188	0.106	1	2.29	0.009	0.38	0.1	0.04	3.2	0.2	<0.05	7	0.9	<0.2
ROS 160123	Soil	60	43	1.08	340	0.127	1	2.55	0.026	1.05	0.1	<0.01	4.3	0.8	0.22	7	0.7	<0.2
ROS 160126	Soil	10	21	0.65	250	0.088	1	1.88	0.013	0.14	0.1	0.02	4.1	0.1	<0.05	7	0.5	<0.2
ROS 164284	Soil	10	20	0.72	257	0.109	<1	1.92	0.020	0.19	0.1	0.02	4.3	0.1	<0.05	8	<0.5	<0.2
ROS 163615	Soil	32	39	1.10	163	0.234	<1	2.56	0.009	0.79	<0.1	<0.01	3.1	0.7	<0.05	8	<0.5	<0.2
ROS 160124	Soil	23	18	0.59	308	0.127	<1	2.42	0.036	0.71	<0.1	0.02	3.1	0.5	0.53	6	1.5	0.4
ROS 164098	Soil	36	17	0.84	267	0.153	<1	2.07	0.013	0.77	<0.1	0.01	3.8	0.5	<0.05	8	<0.5	<0.2
ROS 165577	Soil	7	43	1.24	271	0.162	<1	2.06	0.011	0.58	0.1	<0.01	3.8	0.3	<0.05	8	<0.5	<0.2
ROS 165606	Soil	11	25	0.66	318	0.053	3	1.23	0.023	0.08	0.3	0.11	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 165602	Soil	17	29	0.61	290	0.058	3	1.43	0.016	0.11	0.2	0.07	4.1	<0.1	<0.05	5	0.7	<0.2
ROS 164096	Soil	18	27	0.68	196	0.121	1	1.56	0.018	0.29	0.1	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 165609	Soil	10	16	0.32	101	0.067	<1	1.14	0.012	0.20	0.2	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 165604	Soil	12	29	0.64	309	0.057	2	1.42	0.025	0.07	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 165600	Soil	14	30	1.29	200	0.055	2	1.36	0.019	0.06	0.2	0.08	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 164097	Soil	26	20	0.80	227	0.162	<1	2.00	0.009	0.71	0.1	<0.01	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 165608	Soil	15	28	1.16	259	0.021	4	1.87	0.015	0.11	0.3	0.38	6.2	<0.1	<0.05	6	<0.5	<0.2
ROS 165605	Soil	11	27	0.72	321	0.056	2	1.29	0.026	0.08	0.3	0.08	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 165601	Soil	29	45	3.99	119	0.024	1	1.29	0.007	0.09	0.3	0.26	6.7	0.1	<0.05	4	<0.5	<0.2
ROS 165823	Soil	18	41	0.58	329	0.081	1	1.85	0.024	0.08	0.2	0.05	4.5	<0.1	<0.05	6	0.7	0.3
ROS 165607	Soil	13	8	0.42	885	0.001	6	1.16	0.007	0.29	<0.1	0.26	1.4	0.1	<0.05	3	<0.5	<0.2
ROS 165603	Soil	18	29	0.54	224	0.057	2	1.49	0.014	0.11	0.2	0.07	4.4	<0.1	<0.05	5	0.7	<0.2
ROS 160131	Soil	13	32	0.55	174	0.080	2	1.72	0.010	0.10	0.1	0.03	2.4	0.2	<0.05	6	0.8	<0.2
ROS 159407	Soil	15	44	0.55	292	0.078	2	1.70	0.023	0.06	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159408	Soil	21	25	0.63	195	0.128	<1	2.62	0.020	0.37	0.1	0.02	3.0	0.2	<0.05	8	<0.5	<0.2
ROS 159403	Soil	19	20	0.82	109	0.107	<1	2.47	0.009	0.15	0.1	0.01	2.7	0.2	<0.05	9	<0.5	<0.2
ROS 164824	Soil	53	14	0.57	137	0.052	<1	1.71	0.009	0.39	0.1	0.03	4.7	0.3	<0.05	8	<0.5	<0.2
ROS 164832	Soil	16	25	0.46	143	0.090	1	1.45	0.010	0.14	0.2	0.02	2.4	0.1	<0.05	6	<0.5	<0.2
ROS 164830	Soil	25	34	0.65	186	0.083	2	1.67	0.013	0.12	0.2	0.06	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 164827	Soil	33	63	1.04	176	0.088	1	2.01	0.016	0.12	0.1	0.05	4.8	0.1	<0.05	7	0.5	<0.2
ROS 164821	Soil	24	24	0.47	159	0.080	1	1.45	0.011	0.19	0.2	0.01	3.7	0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164831	Soil	1.0	14.5	15.1	75	<0.1	14.7	8.7	365	2.61	6.8	0.8	0.9	5.7	27	<0.1	0.4	0.2	57	0.43	0.054
ROS 164828	Soil	1.0	17.3	8.9	66	<0.1	17.1	8.7	361	2.81	9.0	1.8	5.1	10.4	31	<0.1	0.5	0.2	54	0.48	0.076
ROS 164825	Soil	1.0	20.2	16.6	61	<0.1	20.8	8.7	389	2.78	6.0	2.4	8.7	19.7	27	<0.1	0.6	0.2	56	0.43	0.059
ROS 164822	Soil	1.0	14.4	6.1	56	<0.1	14.3	8.3	533	2.82	5.5	1.4	2.5	15.3	18	<0.1	0.3	0.1	47	0.29	0.054
ROS 164829	Soil	0.7	15.5	9.4	70	<0.1	13.7	8.6	470	2.89	5.2	1.4	1.5	7.9	28	<0.1	0.5	0.1	59	0.52	0.083
ROS 164826	Soil	0.9	22.6	12.3	85	<0.1	21.7	17.9	825	4.06	5.3	2.2	1.5	20.4	32	<0.1	0.9	0.2	77	0.65	0.089
ROS 164823	Soil	1.1	9.4	14.4	46	<0.1	11.3	6.8	468	2.22	3.6	1.1	2.7	9.3	18	<0.1	0.3	0.1	40	0.31	0.039
ROS 173250	Soil	0.6	20.8	9.9	87	<0.1	12.9	7.6	389	2.64	4.9	1.4	2.3	11.6	42	<0.1	0.8	0.1	44	0.51	0.071
ROS 160116	Soil	0.7	30.2	9.0	57	0.3	17.1	4.6	110	2.10	1.9	1.1	3.1	2.2	20	0.1	0.1	0.4	39	0.15	0.038
ROS 164470	Soil	1.4	13.7	8.4	66	<0.1	12.6	7.6	772	3.33	5.7	2.3	0.6	15.5	10	<0.1	0.4	<0.1	46	0.12	0.037
ROS 159413	Soil	0.8	20.3	9.7	69	<0.1	10.3	6.9	268	2.08	3.5	1.5	5.9	8.4	21	0.2	0.2	0.2	44	0.27	0.041
ROS 159409	Soil	1.0	17.3	7.6	50	<0.1	18.9	10.1	270	2.67	7.5	0.9	2.8	7.2	28	<0.1	0.4	0.2	52	0.44	0.047
ROS 164486	Soil	1.4	18.5	33.4	97	0.1	21.7	13.3	564	3.17	8.1	1.7	1.1	11.1	33	0.1	0.3	0.2	60	0.55	0.087
ROS 164469	Soil	1.0	16.7	6.6	90	<0.1	8.7	6.9	419	2.76	3.2	1.3	<0.5	13.8	15	<0.1	0.3	0.4	61	0.28	0.072
ROS 159405	Soil	1.2	20.5	9.8	64	<0.1	18.0	9.2	438	3.11	6.2	1.2	2.0	9.0	31	<0.1	0.5	0.2	57	0.47	0.048
ROS 159411	Soil	2.0	16.1	10.8	88	<0.1	13.9	11.2	594	3.49	6.1	2.2	0.8	11.6	31	<0.1	0.2	0.2	60	0.31	0.075
ROS 164471	Soil	1.9	35.9	10.1	53	<0.1	10.6	7.0	403	2.71	5.0	1.0	<0.5	13.5	9	<0.1	0.4	0.1	41	0.13	0.047
ROS 164468	Soil	2.3	14.1	5.4	51	<0.1	10.7	11.3	794	3.17	58.4	2.3	<0.5	12.7	15	<0.1	0.5	0.3	48	0.19	0.035
ROS 159412	Soil	1.7	24.4	21.4	142	0.1	13.1	10.5	626	2.65	4.0	2.3	2.3	11.2	25	0.2	0.3	0.2	54	0.35	0.053
ROS 159410	Soil	1.6	17.4	9.1	72	0.1	13.5	8.2	346	2.84	5.7	1.8	4.1	8.3	27	0.1	0.3	0.2	54	0.39	0.051
ROS 164487	Soil	1.2	21.0	6.5	60	<0.1	15.6	9.8	356	2.29	4.6	1.4	1.5	3.4	35	<0.1	0.3	0.1	55	0.60	0.067
ROS 159406	Soil	0.8	24.5	8.0	59	<0.1	24.0	9.6	417	2.48	9.4	0.7	17.3	5.2	42	0.2	0.7	0.2	51	1.01	0.071
ROS 159414	Soil	0.8	20.6	9.8	62	<0.1	14.9	7.8	299	2.56	5.1	1.1	8.4	4.7	36	<0.1	0.3	<0.1	53	0.51	0.081
ROS 159404	Soil	0.7	16.0	7.5	61	<0.1	11.3	9.6	473	2.80	4.2	1.8	1.1	10.3	25	<0.1	0.3	0.1	53	0.36	0.030
ROS 141806	Soil	1.1	23.1	23.2	59	0.2	23.5	9.2	335	2.85	8.9	1.0	3.6	8.2	26	<0.1	0.9	0.2	56	0.41	0.039
ROS 141812	Soil	0.7	35.3	10.7	54	0.1	28.1	10.2	431	2.61	9.6	0.5	7.6	6.8	32	<0.1	0.7	0.2	59	0.53	0.032
ROS 141801	Soil	1.3	16.0	66.9	76	0.1	14.4	8.5	344	2.92	6.0	2.2	0.8	19.7	16	<0.1	1.0	0.3	45	0.18	0.029
ROS 164259	Soil	1.4	18.9	6.5	114	<0.1	10.1	8.1	345	3.04	4.3	0.8	1.4	2.5	32	0.2	0.3	0.1	58	0.41	0.039
ROS 164262	Soil	0.8	23.9	9.2	66	0.2	14.2	8.7	221	2.84	3.7	1.3	2.0	3.1	19	0.2	0.2	0.1	71	0.34	0.083
ROS 164264	Soil	1.1	17.0	7.1	48	0.2	9.5	3.9	93	1.65	3.7	1.0	1.4	0.7	19	0.4	0.2	0.1	29	0.21	0.053

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000588.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164831	Soil	14	27	0.61	166	0.087	1	1.49	0.014	0.15	0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 164828	Soil	28	34	0.64	199	0.068	2	1.54	0.015	0.12	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164825	Soil	57	38	0.68	170	0.070	1	1.78	0.012	0.17	0.1	0.09	4.8	0.2	<0.05	7	0.5	<0.2
ROS 164822	Soil	43	20	0.56	171	0.098	1	1.54	0.012	0.28	0.2	0.01	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 164829	Soil	23	26	0.75	194	0.101	<1	1.63	0.015	0.27	0.2	0.05	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 164826	Soil	53	32	1.27	251	0.062	<1	2.17	0.009	0.21	0.2	0.08	5.7	0.2	<0.05	7	<0.5	<0.2
ROS 164823	Soil	46	21	0.46	135	0.074	<1	1.27	0.009	0.14	0.2	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 173250	Soil	24	23	0.59	241	0.070	<1	1.40	0.012	0.14	0.3	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
ROS 160116	Soil	14	34	0.54	183	0.077	<1	1.54	0.010	0.22	<0.1	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
ROS 164470	Soil	22	23	0.38	160	0.074	<1	1.42	0.007	0.32	0.2	0.01	5.3	0.1	<0.05	6	<0.5	<0.2
ROS 159413	Soil	23	20	0.51	122	0.087	1	1.40	0.011	0.15	<0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 159409	Soil	14	31	0.53	225	0.080	1	1.71	0.014	0.09	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164486	Soil	21	42	0.93	216	0.101	1	1.94	0.014	0.36	0.2	0.02	3.1	0.3	<0.05	7	<0.5	<0.2
ROS 164469	Soil	21	12	0.51	154	0.072	<1	1.22	0.007	0.30	0.1	0.02	4.2	0.2	<0.05	7	0.6	<0.2
ROS 159405	Soil	23	26	0.70	235	0.106	<1	1.86	0.020	0.27	0.1	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 159411	Soil	32	25	0.64	161	0.108	<1	2.24	0.011	0.30	0.1	0.03	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 164471	Soil	7	17	0.45	126	0.083	1	1.44	0.007	0.38	0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 164468	Soil	12	19	0.57	306	0.090	1	1.55	0.008	0.28	0.2	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2
ROS 159412	Soil	33	22	0.60	152	0.092	<1	1.75	0.011	0.20	<0.1	0.03	3.4	0.1	<0.05	7	<0.5	<0.2
ROS 159410	Soil	26	22	0.60	168	0.099	<1	1.92	0.012	0.12	0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 164487	Soil	14	23	0.59	186	0.079	1	1.32	0.017	0.10	0.2	0.04	2.8	0.1	<0.05	4	<0.5	<0.2
ROS 159406	Soil	16	26	0.59	263	0.072	2	1.32	0.024	0.09	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	0.3
ROS 159414	Soil	18	27	0.66	193	0.069	<1	1.60	0.012	0.18	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 159404	Soil	30	20	0.76	170	0.117	<1	1.89	0.014	0.35	0.1	0.02	4.0	0.2	<0.05	7	<0.5	<0.2
ROS 141806	Soil	20	45	0.55	235	0.070	2	1.73	0.010	0.15	0.2	0.08	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 141812	Soil	18	33	0.54	272	0.074	1	1.64	0.027	0.06	0.1	0.07	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 141801	Soil	21	22	0.46	210	0.023	1	1.99	0.007	0.08	0.1	0.06	2.8	<0.1	<0.05	8	<0.5	<0.2
ROS 164259	Soil	13	17	0.53	190	0.056	<1	2.06	0.024	0.16	<0.1	0.02	4.6	0.1	<0.05	8	<0.5	<0.2
ROS 164262	Soil	20	23	0.60	217	0.096	1	2.01	0.015	0.17	0.1	0.05	4.4	0.1	<0.05	7	0.8	<0.2
ROS 164264	Soil	10	20	0.30	139	0.048	<1	1.11	0.011	0.06	0.1	0.07	1.8	0.1	<0.05	5	1.4	<0.2

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 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164265	Soil	0.8	15.7	7.8	42	0.1	9.1	3.7	88	1.62	3.6	0.9	3.3	0.6	17	0.2	0.2	0.1	34	0.21	0.049
ROS 164266	Soil	0.5	14.5	5.8	46	0.1	10.9	4.4	97	1.85	3.3	0.8	4.1	0.9	18	0.3	0.2	0.1	35	0.21	0.054
ROS 164263	Soil	2.2	19.7	11.0	74	0.2	15.8	8.1	234	2.78	6.4	1.2	6.9	4.4	27	0.2	0.4	0.1	60	0.26	0.074
ROS 164267	Soil	0.7	12.2	6.0	48	0.1	10.1	4.7	102	2.10	3.9	0.6	2.5	1.2	16	0.1	0.2	0.1	47	0.19	0.052
ROS 160340	Soil	0.7	10.2	6.8	52	<0.1	11.7	7.6	292	2.81	5.7	0.5	1.7	1.6	13	0.1	0.2	0.1	63	0.21	0.058
ROS 160329	Soil	1.0	23.1	7.8	66	0.1	17.0	10.5	274	2.87	6.1	0.8	2.6	1.8	19	0.2	0.3	0.2	69	0.27	0.053
ROS 164286	Soil	3.8	213.5	7.6	78	0.3	16.0	11.3	330	3.60	3.3	1.3	5.3	7.3	29	0.2	0.2	0.2	79	0.28	0.068
ROS 164283	Soil	1.0	22.9	5.9	96	0.2	15.9	12.1	357	3.41	3.9	0.9	1.7	2.4	24	0.2	0.2	0.1	85	0.38	0.065
ROS 164282	Soil	1.0	25.8	10.2	88	0.2	18.7	11.9	287	3.13	3.0	1.4	1.1	4.9	21	0.1	0.1	0.2	69	0.32	0.080
ROS 147233	Soil	0.4	22.5	8.7	95	<0.1	9.2	9.0	609	3.15	2.1	3.3	1.3	23.9	24	<0.1	0.5	<0.1	31	0.34	0.067
ROS 147051	Soil	0.4	21.0	3.7	87	<0.1	13.5	17.4	526	3.71	5.1	0.4	<0.5	2.5	73	<0.1	0.5	<0.1	106	0.59	0.073
ROS 147039	Soil	1.0	17.7	17.5	47	<0.1	21.3	7.6	252	2.29	7.0	0.7	4.2	5.7	21	<0.1	0.8	0.2	49	0.24	0.011
ROS 147050	Soil	1.0	14.7	9.7	61	<0.1	19.1	8.2	440	2.86	9.9	1.1	1.5	12.5	18	<0.1	0.7	0.2	48	0.24	0.058
ROS 147037	Soil	1.0	17.2	16.2	45	<0.1	19.7	7.2	235	2.18	6.2	0.7	2.2	7.3	17	0.1	0.6	0.1	45	0.19	0.011
ROS 147038	Soil	0.6	12.5	7.4	46	<0.1	10.9	5.0	253	1.79	4.5	0.7	2.5	6.1	16	<0.1	0.6	0.1	36	0.18	0.010
ROS 147049	Soil	0.8	25.7	17.6	46	<0.1	20.7	7.2	338	2.25	7.3	0.7	3.6	6.6	24	<0.1	0.6	0.2	41	0.40	0.030
ROS 147052	Soil	0.9	14.4	11.6	57	<0.1	20.2	9.6	879	2.60	7.5	0.6	0.9	4.6	19	0.1	0.5	0.1	53	0.26	0.035
ROS 160426	Soil	1.0	22.4	12.4	64	<0.1	19.6	8.3	254	2.62	6.6	1.1	3.7	6.0	21	<0.1	0.4	0.1	53	0.23	0.038
ROS 160421	Soil	1.1	31.2	7.7	58	0.1	13.2	6.1	152	1.93	4.6	0.9	4.7	2.2	20	0.2	0.3	0.1	41	0.23	0.050
ROS 160416	Soil	1.5	113.6	62.4	155	0.4	34.1	17.7	395	3.45	3.7	2.2	1.9	5.5	25	0.4	0.2	0.4	86	0.31	0.072
ROS 160418	Soil	1.0	40.9	8.8	87	0.1	21.4	9.9	237	2.64	6.1	1.1	2.3	5.9	30	0.3	0.4	0.2	56	0.32	0.067
ROS 160427	Soil	1.0	23.2	15.5	72	<0.1	21.8	9.3	266	2.74	5.5	0.9	2.3	5.8	26	0.1	0.3	0.2	56	0.35	0.044
ROS 160419	Soil	0.6	23.7	7.3	63	<0.1	16.2	7.2	162	1.96	5.2	0.7	2.3	2.6	20	0.3	0.3	0.1	47	0.27	0.059
ROS 160417	Soil	1.2	130.1	32.6	91	0.5	24.6	11.7	257	2.61	4.0	2.0	2.0	4.2	18	0.3	0.2	0.2	54	0.22	0.062
ROS 160424	Soil	1.2	30.6	9.9	73	0.1	15.1	7.9	259	2.36	5.3	1.0	1.3	4.0	21	0.2	0.3	0.1	50	0.24	0.046
ROS 160420	Soil	0.9	31.2	8.0	58	0.1	16.4	7.9	232	2.08	5.1	0.8	3.2	2.5	19	0.2	0.3	0.1	46	0.26	0.053
ROS 160326	Soil	1.2	22.3	7.6	65	<0.1	17.0	10.1	272	3.18	7.0	0.7	3.3	2.6	18	<0.1	0.4	0.1	83	0.19	0.024
ROS 160327	Soil	0.7	23.6	7.2	60	<0.1	14.8	10.4	321	2.68	4.5	0.9	2.2	3.3	22	<0.1	0.3	<0.1	63	0.34	0.056
ROS 160325	Soil	0.9	23.3	8.6	48	<0.1	16.0	10.6	252	2.73	8.0	0.7	2.0	2.5	14	<0.1	0.4	0.2	69	0.19	0.040
ROS 160324	Soil	0.7	22.6	8.9	48	<0.1	21.1	10.3	275	2.74	8.7	0.7	3.3	3.4	20	<0.1	0.5	0.2	63	0.22	0.024

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 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 164265	Soil	10	21	0.30	124	0.052	1	1.11	0.011	0.05	0.1	0.04	1.8	0.1	<0.05	5	0.9	<0.2
ROS 164266	Soil	9	20	0.32	148	0.050	<1	1.10	0.011	0.05	0.2	0.04	2.0	<0.1	<0.05	4	0.8	<0.2
ROS 164263	Soil	16	25	0.52	189	0.076	1	1.57	0.012	0.11	0.2	0.03	3.0	0.1	<0.05	5	0.8	<0.2
ROS 164267	Soil	10	20	0.35	137	0.049	<1	1.22	0.010	0.05	0.1	0.05	2.0	<0.1	<0.05	5	0.8	<0.2
ROS 160340	Soil	9	22	0.41	123	0.057	<1	1.33	0.011	0.06	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160329	Soil	12	26	0.55	255	0.066	<1	1.93	0.015	0.07	0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 164286	Soil	25	33	0.87	302	0.142	<1	2.09	0.016	0.51	0.2	0.02	3.7	0.3	<0.05	7	0.6	0.3
ROS 164283	Soil	13	19	0.72	385	0.107	<1	1.90	0.020	0.23	<0.1	0.02	4.7	0.1	<0.05	8	<0.5	<0.2
ROS 164282	Soil	22	25	0.70	259	0.088	<1	1.91	0.017	0.28	<0.1	0.03	3.9	0.2	<0.05	7	<0.5	<0.2
ROS 147233	Soil	49	14	0.67	143	0.116	<1	1.75	0.008	0.71	0.1	0.05	3.0	0.4	<0.05	7	<0.5	<0.2
ROS 147051	Soil	16	26	1.87	272	0.194	<1	2.48	0.011	0.29	<0.1	0.01	2.4	0.1	<0.05	9	<0.5	<0.2
ROS 147039	Soil	14	34	0.48	169	0.072	2	1.33	0.016	0.05	0.1	0.05	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 147050	Soil	23	29	0.46	180	0.046	2	1.77	0.011	0.16	0.1	0.03	5.8	<0.1	<0.05	7	<0.5	<0.2
ROS 147037	Soil	18	28	0.41	184	0.064	2	1.23	0.010	0.07	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 147038	Soil	21	19	0.38	143	0.058	<1	1.04	0.009	0.05	<0.1	0.05	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 147049	Soil	19	28	0.41	240	0.057	2	1.32	0.020	0.05	0.1	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 147052	Soil	10	25	0.39	284	0.055	1	1.54	0.014	0.11	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 160426	Soil	19	30	0.56	164	0.103	1	1.65	0.013	0.15	0.1	0.03	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 160421	Soil	14	19	0.43	136	0.061	2	1.26	0.011	0.07	0.2	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160416	Soil	23	33	0.92	285	0.138	<1	2.16	0.015	0.45	<0.1	0.04	4.3	0.3	<0.05	7	<0.5	<0.2
ROS 160418	Soil	19	24	0.62	200	0.084	2	1.60	0.020	0.14	0.2	0.04	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 160427	Soil	18	30	0.66	196	0.110	1	1.65	0.015	0.19	0.1	0.02	3.3	0.2	<0.05	5	<0.5	<0.2
ROS 160419	Soil	13	22	0.42	187	0.052	2	1.27	0.013	0.05	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 160417	Soil	25	28	0.71	193	0.115	2	1.75	0.012	0.31	<0.1	0.04	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 160424	Soil	18	21	0.51	140	0.082	2	1.57	0.012	0.10	0.2	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 160420	Soil	14	24	0.47	173	0.060	2	1.32	0.013	0.05	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160326	Soil	10	26	0.71	190	0.112	<1	2.01	0.018	0.07	0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
ROS 160327	Soil	15	22	0.63	204	0.113	1	1.51	0.018	0.13	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160325	Soil	11	26	0.55	171	0.072	2	1.85	0.017	0.06	0.1	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
ROS 160324	Soil	12	31	0.54	201	0.079	1	1.82	0.015	0.05	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160322	Soil	1.6	49.7	13.2	63	0.6	30.4	10.3	248	3.08	10.0	1.5	2.8	4.1	13	0.3	0.6	0.2	65	0.12	0.038
ROS 160323	Soil	1.5	40.0	19.2	95	0.2	34.2	12.7	183	3.53	4.5	1.3	1.1	5.7	25	0.4	0.2	0.3	71	0.10	0.061
ROS 160321	Soil	1.9	44.9	48.1	132	0.2	23.9	8.1	307	3.78	6.1	0.9	1.4	4.5	23	0.3	0.3	0.2	65	0.15	0.084
ROS 160319	Soil	0.9	79.0	8.2	118	0.1	15.2	8.3	272	3.53	3.7	1.0	<0.5	4.0	29	0.1	0.2	0.3	101	0.17	0.047
ROS 160320	Soil	0.8	20.4	8.1	45	<0.1	17.2	7.3	193	2.37	7.3	0.7	2.6	3.3	17	<0.1	0.4	0.1	54	0.23	0.033
ROS 160317	Soil	1.2	31.3	12.9	77	0.2	18.1	8.8	223	3.03	5.0	0.9	1.2	8.1	19	0.1	0.3	0.3	56	0.17	0.037
ROS 160318	Soil	1.4	15.3	10.0	49	0.2	16.7	9.1	196	2.80	8.9	0.5	1.8	1.7	10	0.2	0.5	0.2	59	0.09	0.039
ROS 160003	Soil	1.1	36.8	6.8	42	<0.1	27.0	15.0	379	4.00	2.4	3.1	0.9	17.6	27	<0.1	0.1	0.5	44	0.20	0.054
ROS 160012	Soil	6.1	90.9	19.8	308	0.2	24.6	18.1	334	4.44	3.2	2.0	1.2	2.5	19	0.6	0.2	0.8	180	0.26	0.089
ROS 160007	Soil	0.4	5.2	7.3	448	<0.1	13.1	17.8	498	4.66	2.4	0.2	1.6	1.0	160	<0.1	0.1	<0.1	93	0.89	0.267
ROS 160001	Soil	1.2	15.0	15.9	66	0.2	16.1	8.6	203	2.67	7.2	1.0	1.5	6.1	21	0.2	0.4	0.2	56	0.17	0.033
ROS 160009	Soil	2.0	30.6	10.8	84	<0.1	28.0	13.9	212	3.77	7.1	1.4	1.0	5.8	20	0.2	0.3	0.2	111	0.15	0.059
ROS 163858	Soil	1.4	24.2	4.5	91	<0.1	38.1	16.5	436	4.14	2.5	1.0	<0.5	4.7	12	0.1	<0.1	<0.1	113	0.27	0.066
ROS 164248	Soil	1.8	83.1	8.9	34	0.4	16.9	7.8	266	4.47	1.3	2.5	8.4	18.8	18	0.1	<0.1	0.6	68	0.07	0.061
ROS 164249	Soil	1.3	94.1	6.9	66	0.3	13.7	7.0	145	3.32	2.2	1.1	4.6	10.2	30	0.2	0.1	0.6	58	0.08	0.047
ROS 164255	Soil	1.0	27.1	8.0	66	<0.1	18.4	12.6	395	3.27	6.3	0.8	1.7	4.7	17	<0.1	0.4	0.1	64	0.23	0.029
ROS 148055	Soil	5.2	34.9	19.0	92	0.2	14.4	7.8	215	2.87	5.7	1.5	2.2	2.6	18	0.2	0.3	0.5	90	0.18	0.038
ROS 164345	Soil	1.2	43.9	6.1	35	<0.1	15.0	16.7	260	2.33	2.8	0.4	1.2	1.2	16	<0.1	0.2	<0.1	67	0.35	0.047
ROS 164250	Soil	1.0	47.1	9.1	54	0.3	13.6	6.9	188	2.90	5.1	0.5	5.5	3.0	16	<0.1	0.3	0.5	66	0.15	0.020
ROS 164254	Soil	0.9	27.2	7.9	78	<0.1	19.7	14.9	394	3.59	2.3	0.7	<0.5	3.5	19	<0.1	0.1	0.1	92	0.21	0.022
ROS 147093	Soil	0.8	20.9	13.8	68	<0.1	20.5	9.6	412	2.84	8.0	0.8	1.9	6.7	23	0.1	1.9	0.1	57	0.46	0.026
ROS 164252	Soil	1.3	18.8	8.6	78	0.1	20.1	11.3	391	3.04	7.2	0.5	6.6	2.9	13	0.2	0.4	0.2	71	0.16	0.023
ROS 164253	Soil	3.0	52.2	9.3	121	0.2	22.2	6.6	315	4.24	2.1	1.3	<0.5	9.5	39	0.1	0.1	0.3	89	0.06	0.049
ROS 164257	Soil	0.8	34.6	7.7	126	<0.1	12.9	14.0	421	3.74	4.2	0.7	1.5	2.3	28	0.1	0.3	0.1	104	0.45	0.048
ROS 163859	Soil	2.6	39.6	105.1	131	<0.1	33.8	17.7	505	3.79	1.0	2.7	0.6	22.7	13	0.2	<0.1	0.1	60	0.27	0.104
ROS 164247	Soil	1.0	55.1	13.7	102	<0.1	74.4	32.7	674	5.09	3.6	1.3	1.3	5.7	35	0.1	0.1	0.4	164	0.45	0.066
ROS 164251	Soil	1.0	37.6	7.4	78	0.1	20.4	15.6	275	3.61	4.1	0.7	1.0	1.8	19	0.1	0.2	<0.1	104	0.24	0.037
ROS 164256	Soil	0.9	8.5	5.7	44	<0.1	8.6	6.0	234	2.63	5.5	0.5	<0.5	4.8	16	<0.1	0.3	0.1	54	0.18	0.025
ROS 111921	Soil	0.9	22.5	9.5	83	0.1	24.6	12.1	512	3.25	5.0	1.3	25.0	5.9	27	0.1	0.4	0.1	68	0.23	0.025
ROS 147227	Soil	0.3	24.6	9.9	101	<0.1	7.0	6.2	690	2.89	1.8	3.2	6.4	22.4	16	<0.1	0.6	0.3	26	0.18	0.032

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160322	Soil	10	37	0.51	233	0.053	1	2.30	0.009	0.06	0.1	0.04	2.9	0.1	<0.05	7	<0.5	<0.2
ROS 160323	Soil	31	43	0.75	206	0.123	<1	2.25	0.016	0.50	<0.1	0.02	2.6	0.5	0.10	9	<0.5	<0.2
ROS 160321	Soil	19	39	0.82	278	0.131	<1	2.16	0.021	0.35	<0.1	0.02	4.4	0.3	0.14	7	0.6	<0.2
ROS 160319	Soil	18	180	1.81	402	0.149	1	2.96	0.048	0.53	<0.1	0.02	8.6	0.3	0.47	8	<0.5	<0.2
ROS 160320	Soil	11	26	0.50	227	0.060	1	1.43	0.019	0.05	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160317	Soil	21	34	0.66	195	0.094	2	2.04	0.015	0.34	0.1	0.02	2.7	0.3	0.06	6	<0.5	<0.2
ROS 160318	Soil	9	32	0.37	125	0.056	2	1.95	0.009	0.06	0.1	0.02	2.2	0.1	<0.05	6	<0.5	<0.2
ROS 160003	Soil	58	39	0.97	267	0.229	<1	2.29	0.012	0.96	<0.1	0.01	4.3	0.7	<0.05	8	<0.5	0.3
ROS 160012	Soil	12	34	1.00	451	0.200	1	2.44	0.019	0.68	<0.1	0.02	5.5	0.4	0.11	8	0.6	<0.2
ROS 160007	Soil	6	19	2.11	473	0.165	<1	3.31	0.018	1.54	<0.1	0.02	1.7	0.9	<0.05	21	<0.5	<0.2
ROS 160001	Soil	22	30	0.46	1194	0.089	2	1.93	0.010	0.11	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 160009	Soil	21	38	0.78	295	0.114	1	2.42	0.010	0.27	<0.1	0.02	4.3	0.3	<0.05	7	<0.5	0.2
ROS 163858	Soil	22	87	2.28	172	0.263	<1	3.33	0.019	1.09	<0.1	<0.01	4.7	0.6	<0.05	13	<0.5	<0.2
ROS 164248	Soil	42	43	1.08	245	0.138	<1	2.34	0.020	1.04	<0.1	0.01	3.7	0.8	0.38	7	0.6	<0.2
ROS 164249	Soil	27	38	0.88	256	0.117	<1	2.10	0.034	0.67	<0.1	0.01	3.0	0.5	0.33	6	<0.5	<0.2
ROS 164255	Soil	15	26	0.69	283	0.142	<1	2.16	0.017	0.20	0.1	0.02	7.2	0.2	<0.05	7	<0.5	<0.2
ROS 148055	Soil	10	25	0.54	175	0.097	1	1.63	0.014	0.08	<0.1	0.02	3.1	0.1	0.06	6	<0.5	<0.2
ROS 164345	Soil	7	21	0.64	143	0.078	<1	1.39	0.019	0.13	0.7	0.02	2.4	<0.1	<0.05	4	0.6	<0.2
ROS 164250	Soil	10	21	0.50	307	0.075	<1	1.33	0.030	0.17	0.1	0.01	2.8	<0.1	0.21	4	1.0	<0.2
ROS 164254	Soil	13	39	1.17	386	0.188	<1	2.57	0.014	0.42	0.1	<0.01	3.8	0.3	<0.05	8	0.6	<0.2
ROS 147093	Soil	17	30	0.62	258	0.045	1	1.50	0.015	0.06	0.3	0.08	4.6	<0.1	<0.05	6	<0.5	<0.2
ROS 164252	Soil	8	29	0.51	224	0.084	<1	1.92	0.015	0.09	0.1	0.01	3.4	0.1	<0.05	6	<0.5	<0.2
ROS 164253	Soil	36	59	1.30	362	0.156	<1	2.71	0.047	0.71	<0.1	<0.01	4.1	0.6	0.46	8	1.5	<0.2
ROS 164257	Soil	11	17	0.90	516	0.106	<1	2.08	0.041	0.31	0.1	0.02	6.0	0.1	<0.05	7	<0.5	<0.2
ROS 163859	Soil	74	34	1.17	250	0.233	<1	2.30	0.010	1.16	<0.1	<0.01	4.2	0.7	<0.05	8	<0.5	<0.2
ROS 164247	Soil	17	387	2.00	738	0.290	<1	5.49	0.057	1.15	0.1	0.01	11.6	0.7	<0.05	12	<0.5	<0.2
ROS 164251	Soil	7	14	0.91	327	0.158	<1	2.11	0.020	0.26	<0.1	0.01	3.3	0.2	0.06	7	<0.5	<0.2
ROS 164256	Soil	7	16	0.46	145	0.136	1	1.62	0.013	0.13	0.1	0.01	3.2	0.1	<0.05	9	<0.5	<0.2
ROS 111921	Soil	22	41	0.78	239	0.096	<1	1.90	0.008	0.22	<0.1	0.02	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 147227	Soil	42	10	0.44	149	0.083	<1	1.31	0.008	0.40	<0.1	0.11	2.4	0.3	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.1	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001
ROS 147223	Soil	1.0	28.3	13.6	82	<0.1	13.8	11.7	469	3.48	8.5	1.5	<0.5	14.4	28	<0.1	0.8	0.2	50	0.30	0.034
ROS 147048	Soil	0.9	10.5	10.5	67	<0.1	12.0	6.4	467	2.25	4.5	0.7	<0.5	10.7	14	<0.1	0.7	0.2	39	0.20	0.034
ROS 146147	Soil	0.5	9.4	12.0	107	<0.1	7.1	4.7	741	2.95	3.8	1.8	1.7	18.1	17	<0.1	0.9	<0.1	35	0.31	0.077
ROS 147236	Soil	0.6	31.8	8.1	67	<0.1	11.8	10.9	341	2.92	4.2	0.9	6.1	6.8	23	<0.1	0.3	0.4	46	0.29	0.034
ROS 147225	Soil	0.7	17.4	8.2	61	<0.1	18.1	8.8	293	2.59	6.6	0.8	<0.5	5.7	17	<0.1	0.5	0.2	52	0.18	0.027
ROS 147041	Soil	1.2	15.4	14.0	54	<0.1	20.8	7.9	294	2.65	9.7	0.7	1.5	4.8	21	0.1	0.8	0.2	55	0.33	0.054
ROS 147229	Soil	0.5	24.0	9.0	83	<0.1	16.9	8.5	561	3.09	5.0	2.4	4.4	35.3	20	<0.1	0.8	0.2	45	0.34	0.038
ROS 147234	Soil	0.7	21.4	10.4	65	<0.1	17.4	10.0	682	2.33	3.7	1.0	1.8	5.1	25	<0.1	0.4	0.1	48	0.29	0.033
ROS 147235	Soil	0.5	26.9	7.5	66	<0.1	12.5	10.3	343	2.84	4.6	0.9	7.7	6.4	24	<0.1	0.4	0.4	48	0.30	0.035
ROS 147040	Soil	0.8	12.4	9.3	44	<0.1	17.0	7.3	366	2.26	6.6	0.5	2.5	4.6	19	<0.1	0.7	0.1	50	0.22	0.012
ROS 147228	Soil	0.5	11.6	7.0	96	<0.1	7.9	6.1	253	2.26	3.6	1.0	1.0	5.2	28	<0.1	0.5	<0.1	40	0.28	0.042
ROS 147232	Soil	0.5	29.0	14.2	107	<0.1	12.0	9.4	684	3.73	3.4	3.1	2.0	28.7	25	<0.1	0.6	0.1	41	0.38	0.089
ROS 147028	Soil	1.1	29.8	12.8	52	<0.1	31.1	9.0	302	2.64	10.4	1.0	7.8	8.3	26	<0.1	0.9	0.1	59	0.36	0.017
ROS 147053	Soil	1.1	16.0	11.0	61	<0.1	21.6	8.8	413	2.63	10.6	0.8	0.7	5.7	26	0.1	0.5	0.2	54	0.45	0.033
ROS 160423	Soil	0.9	24.6	7.5	72	<0.1	16.0	9.8	289	2.60	6.3	1.0	2.7	5.3	20	0.2	0.3	0.1	54	0.28	0.048
ROS 160422	Soil	1.1	36.5	9.2	85	0.2	17.4	8.6	248	2.47	5.7	1.2	1.1	4.3	21	0.2	0.3	0.2	54	0.27	0.050
ROS 163512	Soil	3.0	197.2	9.4	74	0.6	8.4	6.1	234	4.77	4.5	0.9	10.6	3.0	22	<0.1	0.2	0.5	88	0.23	0.052
ROS 163506	Soil	1.4	50.3	10.5	49	<0.1	20.1	10.3	243	3.03	7.3	1.8	3.7	5.8	24	<0.1	0.4	0.3	75	0.23	0.031
ROS 160425	Soil	2.1	171.4	8.8	84	0.3	13.2	7.7	253	3.69	4.1	0.9	5.3	2.1	27	0.1	0.2	0.4	100	0.26	0.054
ROS 163511	Soil	1.4	12.6	8.6	66	<0.1	16.0	9.2	605	2.95	5.4	0.4	0.7	3.8	23	0.2	0.3	0.1	64	0.30	0.061
ROS 163508	Soil	1.1	77.4	6.3	75	<0.1	40.7	16.0	390	3.72	3.3	1.3	1.0	12.3	18	<0.1	0.2	0.2	62	0.19	0.058
ROS 163504	Soil	1.9	31.1	8.6	64	0.1	18.7	10.1	211	3.28	5.0	0.9	2.4	6.4	17	<0.1	0.3	0.2	65	0.16	0.026
ROS 163507	Soil	1.5	178.3	10.7	73	<0.1	34.7	13.5	261	4.68	3.2	1.5	0.8	11.3	28	<0.1	0.2	0.4	91	0.13	0.043
ROS 163510	Soil	1.5	190.9	9.8	105	0.2	11.9	8.1	302	4.25	3.7	0.8	5.4	2.1	26	<0.1	0.2	0.4	105	0.25	0.073
ROS 148059	Soil	1.0	37.6	6.7	63	<0.1	24.3	12.5	344	3.63	2.8	1.5	0.6	10.5	27	<0.1	0.2	0.1	68	0.34	0.070
ROS 148057	Soil	2.1	29.8	9.9	72	0.2	18.6	7.9	229	2.63	5.6	1.5	2.4	7.7	18	0.1	0.3	0.3	72	0.18	0.031
ROS 163505	Soil	1.4	60.6	9.9	56	0.2	22.4	11.4	237	3.25	4.6	1.5	5.5	9.4	25	<0.1	0.3	0.3	61	0.14	0.033
ROS 160328	Soil	0.8	22.5	8.2	58	<0.1	16.9	9.1	230	2.66	6.3	0.7	2.7	3.0	18	<0.1	0.5	0.1	62	0.23	0.051
ROS 160429	Soil	0.7	27.1	10.8	63	<0.1	26.0	9.8	305	2.57	4.4	1.0	2.1	6.2	33	0.2	0.2	<0.1	51	0.33	0.044
ROS 160428	Soil	1.0	23.9	10.0	68	<0.1	21.4	9.7	318	2.73	5.0	1.1	2.3	8.0	31	0.2	0.3	0.1	54	0.34	0.044

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000588.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 147223	Soil			18	24	0.91	134	0.115	<1	1.90	0.006	0.28	0.2	<0.01	1.9	0.1	<0.05	8	<0.5	<0.2
ROS 147048	Soil			10	18	0.42	225	0.053	1	1.36	0.007	0.25	0.2	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 146147	Soil			41	9	0.82	82	0.067	1	1.71	0.007	0.39	<0.1	0.14	3.1	0.3	<0.05	9	<0.5	<0.2
ROS 147236	Soil			10	19	0.66	167	0.099	<1	1.59	0.008	0.40	0.1	0.02	2.1	0.2	<0.05	6	<0.5	<0.2
ROS 147225	Soil			10	29	0.46	218	0.073	<1	1.60	0.009	0.13	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 147041	Soil			13	31	0.47	184	0.055	1	1.53	0.011	0.10	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147229	Soil			68	23	0.66	195	0.094	<1	2.02	0.010	0.38	0.2	0.10	3.6	0.4	<0.05	10	<0.5	<0.2
ROS 147234	Soil			12	30	0.60	181	0.103	1	1.45	0.010	0.33	0.1	0.03	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 147235	Soil			9	19	0.65	171	0.096	<1	1.64	0.009	0.36	<0.1	0.02	2.2	0.2	<0.05	6	<0.5	<0.2
ROS 147040	Soil			10	28	0.44	179	0.064	<1	1.28	0.010	0.05	0.5	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 147228	Soil			20	11	0.61	131	0.065	<1	1.73	0.010	0.27	<0.1	0.08	2.0	0.2	<0.05	7	<0.5	<0.2
ROS 147232	Soil			57	21	0.72	152	0.121	<1	1.76	0.009	0.75	0.1	0.06	4.1	0.4	<0.05	9	0.6	<0.2
ROS 147028	Soil			36	40	0.53	216	0.074	2	1.86	0.017	0.07	0.1	0.17	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147053	Soil			16	31	0.41	227	0.046	2	1.69	0.013	0.08	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160423	Soil			17	24	0.52	157	0.090	1	1.66	0.011	0.12	0.2	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 160422	Soil			19	24	0.55	147	0.091	1	1.64	0.011	0.12	0.1	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 163512	Soil			10	20	0.67	354	0.137	<1	1.72	0.038	0.51	<0.1	0.01	4.8	0.3	0.31	7	1.9	<0.2
ROS 163506	Soil			18	36	0.59	212	0.091	1	2.11	0.013	0.10	0.1	0.03	4.8	0.2	<0.05	6	<0.5	<0.2
ROS 160425	Soil			10	36	0.77	275	0.138	<1	2.13	0.019	0.29	<0.1	0.02	4.5	0.2	0.05	8	<0.5	0.3
ROS 163511	Soil			10	25	0.63	185	0.115	<1	1.73	0.011	0.23	0.2	0.02	2.0	0.2	<0.05	6	<0.5	<0.2
ROS 163508	Soil			22	47	1.10	254	0.186	<1	2.49	0.011	0.95	<0.1	0.02	2.8	0.6	<0.05	7	<0.5	0.3
ROS 163504	Soil			17	32	0.73	151	0.107	1	2.01	0.011	0.25	<0.1	0.02	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 163507	Soil			30	46	1.06	238	0.152	<1	3.26	0.015	0.73	0.2	<0.01	4.9	0.6	0.10	9	<0.5	<0.2
ROS 163510	Soil			9	35	0.91	373	0.190	<1	2.00	0.025	0.51	<0.1	<0.01	5.0	0.3	0.16	8	<0.5	<0.2
ROS 148059	Soil			32	34	0.97	357	0.215	<1	2.22	0.015	0.68	<0.1	<0.01	4.4	0.4	<0.05	8	<0.5	<0.2
ROS 148057	Soil			20	34	0.70	289	0.146	<1	1.78	0.011	0.16	0.1	0.01	3.8	0.2	<0.05	7	<0.5	<0.2
ROS 163505	Soil			22	35	0.76	183	0.103	<1	2.19	0.017	0.28	<0.1	0.02	3.6	0.3	0.10	6	0.5	<0.2
ROS 160328	Soil			10	25	0.56	182	0.097	<1	1.75	0.014	0.06	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160429	Soil			17	36	0.82	210	0.131	<1	1.73	0.014	0.25	0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
ROS 160428	Soil			21	31	0.74	217	0.133	<1	1.80	0.014	0.26	<0.1	0.02	2.8	0.2	<0.05	6	<0.5	<0.2

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 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160005	Soil	0.2	24.8	3.3	34	<0.1	36.8	13.1	247	2.44	2.5	0.6	0.8	6.6	24	<0.1	0.2	<0.1	59	0.26	0.040
ROS 160004	Soil	1.0	39.1	5.1	41	<0.1	26.4	15.5	410	4.01	2.1	3.2	<0.5	18.6	34	<0.1	0.1	0.5	42	0.20	0.062
ROS 160006	Soil	0.3	54.2	4.7	82	<0.1	25.8	18.1	502	5.40	2.7	0.8	1.8	4.0	48	<0.1	0.2	0.1	151	0.35	0.075
ROS 160010	Soil	0.7	23.2	10.4	106	<0.1	14.1	2.7	289	4.57	1.3	1.3	<0.5	14.8	74	<0.1	<0.1	1.4	50	0.10	0.053
ROS 160008	Soil	0.9	12.2	8.1	173	<0.1	20.4	11.1	307	3.76	6.4	0.4	1.4	2.5	47	0.1	0.3	0.1	78	0.17	0.070
ROS 160002	Soil	0.6	15.4	7.2	56	<0.1	20.1	10.6	466	4.13	2.9	1.2	0.7	12.7	26	0.2	0.2	0.4	46	0.10	0.023
ROS 160011	Soil	0.9	32.0	28.3	122	0.1	20.0	14.5	379	3.46	3.6	1.2	1.8	7.6	45	0.4	0.2	0.4	62	0.15	0.038
ROS 163854	Soil	1.1	34.5	9.1	56	<0.1	26.2	13.4	347	3.20	6.1	1.1	2.6	8.0	22	<0.1	0.4	0.3	60	0.19	0.023
ROS 163850	Soil	2.1	16.6	8.8	224	<0.1	25.7	14.9	568	3.69	4.0	0.7	0.8	5.2	126	<0.1	0.2	0.8	92	0.45	0.064
ROS 163855	Soil	1.3	30.6	8.3	65	<0.1	23.2	9.6	335	2.99	5.7	0.7	2.0	3.7	14	0.1	0.4	0.2	72	0.14	0.020
ROS 163853	Soil	0.9	36.2	8.2	90	<0.1	42.9	18.2	341	3.43	4.1	1.2	1.6	9.4	154	0.2	0.2	0.3	54	0.20	0.031
ROS 163852	Soil	1.6	22.4	10.2	250	<0.1	29.5	16.6	637	3.79	4.2	1.0	0.7	6.3	57	0.2	0.2	0.3	85	0.29	0.059
ROS 163849	Soil	2.1	26.9	13.9	207	0.3	23.7	13.1	612	3.47	3.5	0.9	0.6	5.8	36	0.9	0.2	0.2	83	0.23	0.055
ROS 163857	Soil	2.1	26.7	9.6	62	<0.1	18.9	9.7	224	3.11	6.6	1.4	1.1	8.5	15	<0.1	0.3	0.3	66	0.13	0.035
ROS 163856	Soil	4.8	73.5	11.9	88	0.1	21.2	11.0	271	3.11	5.0	4.3	2.0	4.6	30	0.2	0.4	0.4	110	0.23	0.027
ROS 163851	Soil	11.0	101.6	46.7	159	0.6	23.6	33.1	977	4.09	87.8	5.2	12.0	3.4	36	0.6	0.7	45.3	173	0.26	0.082
ROS 165505	Soil	0.9	27.5	13.8	72	0.1	18.5	8.4	267	2.57	4.8	0.6	2.8	4.8	37	<0.1	1.3	0.2	60	0.53	0.039
ROS 165508	Soil	1.0	15.0	14.4	67	<0.1	14.9	7.7	354	2.69	5.0	0.6	3.2	5.6	20	<0.1	0.6	0.2	58	0.28	0.020
ROS 165687	Soil	0.9	16.5	13.6	62	<0.1	16.8	6.8	163	2.42	8.3	0.9	2.8	9.4	33	<0.1	2.0	0.2	45	0.43	0.044
ROS 165693	Soil	0.9	25.6	19.1	130	<0.1	18.6	10.4	470	3.69	5.8	0.9	2.5	7.7	36	<0.1	1.1	0.3	67	0.35	0.025
ROS 165510	Soil	1.1	17.4	14.0	62	0.1	14.4	8.2	615	2.55	6.1	0.8	1.1	5.5	29	0.2	1.1	0.3	49	0.37	0.017
ROS 165511	Soil	1.9	39.2	23.0	79	0.3	40.0	11.2	439	3.10	9.4	0.9	3.6	7.9	27	0.1	2.3	0.3	58	0.34	0.018
ROS 165683	Soil	0.8	9.9	10.8	62	<0.1	16.0	8.7	451	2.38	7.2	0.5	<0.5	4.1	21	0.1	0.6	0.1	47	0.27	0.033
ROS 165691	Soil	1.4	37.9	28.4	73	0.2	30.5	9.8	288	3.13	9.1	1.5	17.9	16.8	29	0.1	1.6	0.6	62	0.38	0.022
ROS 165502	Soil	1.0	22.6	10.7	81	0.2	16.5	10.1	574	2.64	5.7	0.6	12.7	6.6	22	<0.1	0.6	0.2	54	0.21	0.025
ROS 165503	Soil	0.9	15.6	13.6	61	0.2	19.2	10.9	584	2.75	5.5	0.5	3.0	5.5	21	0.1	0.6	0.2	63	0.22	0.039
ROS 165685	Soil	0.3	39.4	21.3	103	0.2	20.5	10.1	309	2.78	14.6	1.2	4.4	4.9	52	0.3	1.4	0.3	56	1.06	0.082
ROS 165692	Soil	0.8	16.9	14.0	61	<0.1	16.7	7.9	316	2.49	6.6	0.7	3.3	6.7	23	<0.1	1.7	0.1	55	0.24	0.019
ROS 165501	Soil	0.5	46.4	81.0	121	0.1	11.7	4.4	210	1.64	3.8	0.7	15.9	10.7	18	<0.1	0.6	4.1	32	0.24	0.014
ROS 165513	Soil	0.6	24.8	9.0	36	0.4	16.6	6.3	269	1.59	3.8	1.9	4.0	1.6	68	0.1	1.1	0.1	32	1.82	0.070

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 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 160005	Soil	30	64	1.23	131	0.170	<1	2.08	0.017	0.65	<0.1	<0.01	3.5	0.3	<0.05	9	<0.5	<0.2
ROS 160004	Soil	60	39	1.03	274	0.253	<1	2.33	0.011	1.04	<0.1	0.01	4.0	0.6	<0.05	8	<0.5	<0.2
ROS 160006	Soil	17	26	1.55	502	0.309	<1	2.72	0.013	1.45	<0.1	0.01	4.3	0.7	<0.05	9	<0.5	<0.2
ROS 160010	Soil	32	23	0.88	346	0.162	<1	1.65	0.028	0.94	<0.1	<0.01	4.0	0.4	0.58	7	<0.5	<0.2
ROS 160008	Soil	8	29	0.94	191	0.178	<1	2.59	0.012	0.30	<0.1	0.02	2.2	0.3	<0.05	11	<0.5	<0.2
ROS 160002	Soil	23	34	1.60	474	0.225	<1	2.71	0.011	0.85	<0.1	<0.01	3.5	0.6	<0.05	9	<0.5	<0.2
ROS 160011	Soil	22	32	0.77	238	0.163	<1	2.09	0.013	0.48	<0.1	0.01	3.3	0.3	<0.05	7	<0.5	<0.2
ROS 163854	Soil	23	36	0.87	225	0.135	<1	2.14	0.012	0.33	0.1	0.01	4.2	0.3	<0.05	6	<0.5	<0.2
ROS 163850	Soil	13	40	1.41	572	0.202	<1	3.01	0.018	0.66	0.1	<0.01	3.3	0.4	<0.05	8	<0.5	<0.2
ROS 163855	Soil	9	30	0.75	178	0.139	<1	1.83	0.015	0.18	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 163853	Soil	10	34	1.07	316	0.126	<1	2.99	0.012	0.57	<0.1	0.02	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 163852	Soil	19	36	1.57	532	0.203	<1	3.06	0.018	0.83	<0.1	0.01	3.6	0.4	<0.05	9	<0.5	<0.2
ROS 163849	Soil	15	34	1.23	654	0.251	<1	2.22	0.014	0.81	0.1	0.01	4.1	0.4	<0.05	9	<0.5	<0.2
ROS 163857	Soil	28	35	0.67	137	0.149	<1	2.05	0.010	0.29	<0.1	0.01	3.3	0.3	<0.05	7	<0.5	<0.2
ROS 163856	Soil	19	33	0.67	252	0.145	<1	2.00	0.018	0.11	<0.1	0.03	4.9	0.1	0.07	6	0.6	<0.2
ROS 163851	Soil	17	39	0.72	381	0.113	<1	2.12	0.017	0.19	<0.1	0.04	5.0	0.2	0.11	8	0.9	<0.2
ROS 165505	Soil	10	38	0.74	299	0.085	<1	1.60	0.014	0.11	0.3	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 165508	Soil	8	26	0.58	196	0.060	<1	1.60	0.010	0.19	0.1	<0.01	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 165687	Soil	21	29	0.42	288	0.036	2	1.45	0.012	0.14	0.1	0.05	3.5	<0.1	<0.05	4	<0.5	0.2
ROS 165693	Soil	19	28	1.11	221	0.163	<1	2.49	0.009	0.27	0.2	0.04	3.5	0.3	<0.05	9	<0.5	<0.2
ROS 165510	Soil	8	25	0.47	235	0.050	<1	1.52	0.010	0.07	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165511	Soil	22	51	0.75	265	0.069	<1	1.80	0.020	0.07	0.2	0.26	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 165683	Soil	9	28	0.43	215	0.049	<1	1.62	0.010	0.13	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165691	Soil	39	50	0.59	234	0.052	<1	2.26	0.011	0.07	0.2	0.12	6.0	<0.1	<0.05	8	<0.5	<0.2
ROS 165502	Soil	17	27	0.65	179	0.054	<1	1.99	0.011	0.08	0.1	0.07	2.6	<0.1	<0.05	6	<0.5	<0.2
ROS 165503	Soil	12	33	0.50	235	0.061	<1	1.91	0.009	0.09	0.2	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 165685	Soil	17	30	0.71	225	0.075	1	1.57	0.016	0.12	0.2	0.12	3.8	0.1	<0.05	6	0.7	<0.2
ROS 165692	Soil	14	28	0.49	241	0.060	1	1.72	0.009	0.08	<0.1	0.05	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165501	Soil	20	21	0.33	167	0.020	<1	1.03	0.005	0.06	1.2	0.81	2.7	<0.1	<0.05	3	<0.5	1.1
ROS 165513	Soil	11	19	0.36	544	0.038	4	0.88	0.016	0.05	0.2	0.16	2.0	<0.1	0.09	2	<0.5	<0.2

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Project: ROS
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165684	Soil	0.9	40.4	10.8	83	<0.1	28.4	11.3	304	3.05	11.2	0.9	7.5	4.3	67	<0.1	1.1	0.1	73	0.64	0.075
ROS 165694	Soil	1.5	23.7	20.1	65	0.4	28.5	9.1	418	2.87	7.7	0.7	3.4	6.3	24	0.1	1.0	0.2	66	0.27	0.017
ROS 165690	Soil	0.7	22.4	10.4	65	<0.1	26.2	10.9	274	2.65	6.4	0.6	2.6	6.7	30	<0.1	0.7	0.1	55	0.35	0.026
ROS 148062	Soil	1.3	27.3	10.9	58	0.1	21.0	9.5	234	2.86	4.1	1.2	0.9	7.5	22	<0.1	0.3	0.2	57	0.22	0.034
ROS 148066	Soil	1.2	44.4	11.4	69	0.2	24.3	11.0	242	3.53	5.2	1.5	0.8	5.8	32	<0.1	0.3	0.2	81	0.29	0.035
ROS 148072	Soil	1.2	19.1	11.2	61	<0.1	16.6	9.5	346	3.00	4.2	1.3	1.1	9.1	27	<0.1	0.3	0.1	66	0.31	0.026
ROS 165689	Soil	0.7	27.3	11.0	87	<0.1	19.1	10.2	290	2.80	5.9	0.7	1.1	9.8	39	<0.1	1.0	<0.1	59	0.45	0.059
ROS 148061	Soil	1.2	32.2	13.0	55	0.1	27.8	14.0	412	4.02	3.1	2.1	3.1	14.4	34	<0.1	0.1	0.2	68	0.33	0.095
ROS 148065	Soil	1.1	80.0	13.1	74	<0.1	31.1	20.3	432	4.35	1.3	1.8	<0.5	12.9	37	<0.1	<0.1	0.2	109	0.49	0.083
ROS 148071	Soil	1.3	29.2	13.2	59	<0.1	24.7	11.8	353	3.11	6.2	1.9	1.7	9.1	29	<0.1	0.4	0.1	66	0.33	0.025
ROS 165688	Soil	0.8	26.1	19.8	66	<0.1	25.8	9.9	201	2.72	7.5	0.9	4.3	11.0	35	0.1	1.3	0.3	62	0.40	0.023
ROS 148064	Soil	0.8	28.6	7.1	55	<0.1	27.0	11.4	309	2.84	4.3	1.6	1.7	9.4	19	<0.1	0.2	5.2	54	0.26	0.039
ROS 148068	Soil	1.0	23.3	10.3	57	0.1	21.1	10.2	279	3.16	7.3	0.8	1.6	5.3	19	<0.1	0.4	0.2	72	0.17	0.027
ROS 148070	Soil	0.9	26.8	9.7	57	<0.1	21.1	10.3	278	3.12	5.4	1.2	1.4	6.0	25	<0.1	0.4	0.1	70	0.24	0.021
ROS 165686	Soil	1.2	29.6	24.0	104	<0.1	27.2	14.3	406	3.70	8.2	1.1	15.6	11.7	51	<0.1	1.0	0.2	65	0.48	0.051
ROS 148063	Soil	0.8	19.1	7.3	53	<0.1	22.6	9.1	294	2.53	3.4	1.1	1.5	8.0	20	<0.1	0.2	0.1	53	0.20	0.038
ROS 148067	Soil	1.2	27.7	11.3	56	0.2	20.5	8.3	200	2.92	5.6	0.9	0.6	4.0	25	0.1	0.3	0.2	74	0.21	0.056
ROS 148069	Soil	0.9	27.3	9.1	66	<0.1	23.7	11.6	345	3.22	4.5	1.3	<0.5	8.6	30	<0.1	0.3	0.1	70	0.28	0.023
ROS 165504	Soil	0.6	26.8	15.1	72	<0.1	18.9	9.7	290	3.02	5.5	0.9	3.9	5.8	29	0.1	0.8	0.2	65	0.40	0.033
ROS 141782	Soil	1.0	30.1	12.0	56	<0.1	22.4	9.5	301	2.92	6.7	1.2	0.7	10.5	19	<0.1	0.6	0.2	61	0.20	0.020
ROS 141793	Soil	0.8	29.4	9.6	59	0.1	25.3	9.2	360	2.34	7.6	0.9	2.7	3.5	48	0.3	0.7	0.1	51	1.01	0.068
ROS 141787	Soil	1.0	26.8	14.7	65	<0.1	22.4	10.3	489	2.72	6.5	0.8	2.2	8.5	27	<0.1	0.5	0.2	57	0.38	0.029
ROS 165509	Soil	1.1	31.8	13.5	54	<0.1	28.7	10.3	247	2.77	10.6	0.8	4.5	8.8	21	<0.1	0.7	0.1	62	0.28	0.029
ROS 141790	Soil	1.2	23.6	11.4	51	0.1	24.0	9.1	385	2.59	7.6	1.0	1.9	5.2	28	<0.1	0.5	0.2	60	0.43	0.029
ROS 141789	Soil	1.6	32.2	14.7	73	<0.1	28.6	10.7	475	2.99	8.0	1.3	3.0	6.3	29	0.1	0.5	0.2	61	0.44	0.033
ROS 141783	Soil	0.8	24.9	12.3	73	<0.1	18.5	9.5	314	3.02	8.7	1.3	2.9	7.7	32	<0.1	0.7	0.2	61	0.37	0.017
ROS 165506	Soil	1.5	21.2	16.5	67	<0.1	23.9	11.0	361	3.02	6.6	0.9	4.6	6.6	25	<0.1	0.8	0.1	65	0.43	0.021
ROS 141786	Soil	1.4	28.4	17.5	77	<0.1	24.6	11.1	385	2.91	6.3	1.1	2.0	8.0	32	<0.1	0.6	0.2	62	0.34	0.029
ROS 141791	Soil	0.9	24.4	12.1	63	0.1	20.5	9.2	362	2.64	7.4	1.0	2.0	4.8	31	<0.1	0.3	0.2	59	0.46	0.043
ROS 141785	Soil	0.9	20.0	12.5	68	<0.1	16.7	7.8	285	2.66	5.8	0.8	2.4	8.2	22	0.1	0.6	0.2	57	0.22	0.023

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WHI10000588.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165684	Soil	17	42	0.69	166	0.104	2	1.82	0.021	0.09	0.3	0.04	5.9	<0.1	<0.05	7	<0.5	<0.2
ROS 165694	Soil	12	47	0.55	211	0.069	1	2.09	0.009	0.06	0.1	0.07	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 165690	Soil	16	44	0.72	211	0.084	<1	1.74	0.010	0.08	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 148062	Soil	21	31	0.69	244	0.176	<1	1.88	0.012	0.28	<0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 148066	Soil	17	34	0.83	194	0.142	<1	2.17	0.017	0.29	<0.1	0.02	4.2	0.2	<0.05	7	<0.5	<0.2
ROS 148072	Soil	21	25	0.64	172	0.164	<1	2.02	0.018	0.27	0.1	<0.01	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 165689	Soil	16	35	0.66	152	0.107	1	1.77	0.018	0.17	<0.1	0.02	3.8	0.1	<0.05	7	<0.5	<0.2
ROS 148061	Soil	45	42	0.98	310	0.268	<1	2.61	0.018	0.79	<0.1	0.01	3.8	0.5	<0.05	10	<0.5	<0.2
ROS 148065	Soil	41	32	1.10	301	0.164	<1	2.70	0.039	1.00	<0.1	<0.01	5.0	0.6	<0.05	8	<0.5	<0.2
ROS 148071	Soil	27	37	0.64	233	0.140	1	1.94	0.017	0.15	0.1	0.03	5.0	0.2	<0.05	6	<0.5	<0.2
ROS 165688	Soil	24	40	0.54	255	0.063	2	1.67	0.013	0.08	0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 148064	Soil	30	41	0.96	219	0.177	<1	1.89	0.013	0.39	<0.1	0.01	3.8	0.3	<0.05	7	<0.5	<0.2
ROS 148068	Soil	13	29	0.62	152	0.124	<1	2.02	0.011	0.12	0.1	0.01	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 148070	Soil	18	32	0.68	168	0.144	<1	2.02	0.015	0.15	0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 165686	Soil	24	49	0.86	215	0.114	<1	2.21	0.013	0.10	0.6	0.03	4.1	<0.1	<0.05	8	<0.5	0.3
ROS 148063	Soil	25	36	0.79	189	0.178	<1	1.74	0.011	0.36	<0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 148067	Soil	15	28	0.59	164	0.131	<1	1.69	0.013	0.19	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 148069	Soil	24	30	0.73	215	0.151	<1	2.00	0.018	0.21	<0.1	0.02	4.0	0.2	<0.05	6	<0.5	0.3
ROS 165504	Soil	16	33	0.76	202	0.090	<1	1.79	0.011	0.05	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 141782	Soil	26	35	0.54	249	0.071	<1	1.90	0.010	0.06	0.1	0.05	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 141793	Soil	14	29	0.54	294	0.071	3	1.30	0.023	0.06	0.3	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 141787	Soil	27	36	0.58	216	0.082	<1	1.68	0.014	0.08	0.2	0.07	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165509	Soil	35	39	0.53	183	0.076	<1	1.66	0.012	0.07	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	0.3
ROS 141790	Soil	18	38	0.51	256	0.079	<1	1.63	0.014	0.05	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 141789	Soil	19	45	0.60	252	0.100	1	1.72	0.019	0.16	0.1	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
ROS 141783	Soil	14	32	0.66	205	0.089	<1	1.77	0.013	0.07	0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165506	Soil	13	43	0.63	232	0.084	<1	1.82	0.014	0.09	0.2	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 141786	Soil	18	38	0.64	206	0.105	<1	1.84	0.014	0.14	0.2	0.05	4.3	0.1	<0.05	7	<0.5	<0.2
ROS 141791	Soil	17	33	0.57	237	0.085	<1	1.61	0.014	0.08	0.1	0.05	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 141785	Soil	9	28	0.53	125	0.079	<1	1.73	0.008	0.10	0.1	0.04	2.4	0.1	<0.05	6	<0.5	<0.2

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.



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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000588.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 165507	Soil	1.3	24.4	15.1	126	<0.1	14.8	10.4	649	3.72	4.1	1.2	1.2	13.8	20	<0.1	0.5	0.1	65	0.30	0.038
ROS 141788	Soil	1.1	19.1	13.9	50	<0.1	23.1	8.3	261	2.51	6.4	0.8	5.7	7.1	23	<0.1	0.5	0.1	52	0.31	0.026
ROS 141784	Soil	0.9	19.3	12.9	54	<0.1	16.6	7.9	235	2.37	6.3	0.9	1.1	9.7	19	<0.1	0.7	0.1	48	0.19	0.015
ROS 141792	Soil	0.8	32.0	10.4	62	0.2	27.3	10.6	482	2.51	8.2	1.1	2.0	4.1	39	0.3	0.5	0.1	53	0.69	0.067
ROS 147009	Soil	0.9	21.7	15.7	62	<0.1	20.2	7.3	274	2.31	5.9	1.1	1.0	6.8	23	<0.1	0.5	0.2	52	0.31	0.042
ROS 147013	Soil	1.0	17.8	33.1	56	<0.1	17.3	7.0	261	2.51	8.7	0.6	1.1	6.1	19	0.1	0.9	0.2	57	0.15	0.020
ROS 147005	Soil	0.6	13.7	10.7	71	<0.1	13.4	6.8	271	1.95	4.6	0.9	4.0	5.1	27	0.1	0.4	0.2	43	0.38	0.064
ROS 147015	Soil	1.1	28.0	13.7	53	<0.1	20.9	8.1	247	2.86	9.0	1.0	2.6	13.8	16	<0.1	0.7	0.2	61	0.12	0.011
ROS 147011	Soil	0.9	22.4	19.2	68	<0.1	18.7	7.5	269	2.66	8.4	0.9	2.5	6.6	26	0.1	0.7	0.2	57	0.34	0.038
ROS 147014	Soil	0.8	29.4	12.2	55	<0.1	21.6	8.6	265	2.68	8.5	1.4	2.8	9.4	24	<0.1	0.6	0.2	58	0.19	0.015
ROS 147021	Soil	0.7	15.3	44.8	58	<0.1	12.4	5.9	247	2.06	5.7	0.8	6.1	7.9	18	<0.1	0.6	0.2	35	0.22	0.031
ROS 147019	Soil	0.7	19.9	14.7	84	<0.1	15.4	7.8	238	3.06	7.9	0.9	3.6	11.8	30	<0.1	0.5	0.2	48	0.28	0.029
ROS 147016	Soil	1.6	8.7	18.6	56	<0.1	8.2	43.4	3405	2.25	6.1	0.3	0.7	1.9	13	0.2	0.4	0.2	54	0.10	0.048
ROS 147018	Soil	1.2	44.0	14.7	100	<0.1	28.6	10.1	452	3.13	5.5	2.7	5.6	12.2	30	<0.1	0.5	0.2	53	0.37	0.022
ROS 173008	Soil	0.9	29.4	12.1	57	0.2	23.4	10.3	429	2.83	10.8	0.5	6.4	6.3	30	<0.1	1.3	0.2	57	0.42	0.013
ROS 173010	Soil	1.2	14.0	9.7	48	0.2	13.0	7.3	467	2.24	5.4	0.6	1.2	4.9	25	0.1	0.7	0.1	38	0.32	0.045
ROS 147017	Soil	0.7	34.5	24.9	77	<0.1	10.3	5.9	386	2.35	4.5	0.7	0.8	5.4	18	<0.1	0.5	0.6	35	0.15	0.017
ROS 147020	Soil	1.0	17.6	15.8	75	<0.1	17.2	7.3	427	2.35	6.1	0.9	3.4	7.4	31	<0.1	0.6	0.1	41	0.39	0.045
ROS 173007	Soil	0.9	30.3	22.0	63	0.1	26.5	12.4	545	3.05	8.3	0.6	2.0	5.1	42	<0.1	1.1	0.2	60	0.99	0.035
ROS 173009	Soil	0.7	34.3	12.5	89	0.2	32.0	18.8	838	3.88	7.3	0.6	4.7	5.3	39	<0.1	1.1	0.1	86	0.58	0.029



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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000588.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165507	Soil	8	28	0.87	207	0.120	<1	2.14	0.009	0.45	0.1	<0.01	4.3	0.4	<0.05	10	<0.5	<0.2
ROS 141788	Soil	24	38	0.52	217	0.071	<1	1.51	0.013	0.06	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 141784	Soil	15	26	0.46	160	0.048	<1	1.36	0.007	0.06	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 141792	Soil	19	31	0.51	293	0.064	<1	1.38	0.018	0.06	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 147009	Soil	18	32	0.47	216	0.072	<1	1.51	0.012	0.05	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147013	Soil	12	29	0.44	217	0.057	2	1.91	0.011	0.05	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
ROS 147005	Soil	15	21	0.45	188	0.055	2	1.22	0.017	0.07	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147015	Soil	23	41	0.48	213	0.059	1	2.38	0.012	0.05	<0.1	0.02	5.0	0.1	<0.05	6	<0.5	<0.2
ROS 147011	Soil	24	32	0.51	251	0.064	2	1.89	0.016	0.06	0.2	0.06	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 147014	Soil	27	34	0.51	297	0.074	1	2.01	0.017	0.06	0.1	0.04	6.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147021	Soil	17	20	0.32	124	0.030	1	1.29	0.011	0.11	0.2	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 147019	Soil	13	26	0.57	155	0.088	<1	1.92	0.011	0.20	<0.1	0.02	2.4	0.1	<0.05	7	<0.5	<0.2
ROS 147016	Soil	6	18	0.31	124	0.039	<1	1.00	0.010	0.07	0.1	0.01	1.6	0.1	<0.05	7	<0.5	<0.2
ROS 147018	Soil	37	45	0.94	169	0.073	<1	1.92	0.016	0.17	<0.1	0.08	6.6	0.2	<0.05	8	<0.5	<0.2
ROS 173008	Soil	22	31	0.57	349	0.074	2	1.38	0.017	0.11	0.2	0.06	4.9	<0.1	<0.05	4	<0.5	<0.2
ROS 173010	Soil	9	23	0.41	336	0.046	2	1.17	0.012	0.17	0.2	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147017	Soil	14	21	0.52	114	0.023	<1	1.75	0.009	0.12	<0.1	0.02	2.9	0.1	<0.05	8	<0.5	<0.2
ROS 147020	Soil	21	29	0.50	247	0.030	<1	1.56	0.017	0.10	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 173007	Soil	21	37	0.81	329	0.063	3	1.82	0.021	0.10	0.2	0.03	4.5	<0.1	<0.05	6	0.5	<0.2
ROS 173009	Soil	19	69	1.32	330	0.137	1	2.35	0.013	0.27	0.2	0.07	6.1	<0.1	<0.05	7	<0.5	0.2



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Project: ROS
Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000588.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	
Pulp Duplicates																					
ROS 147219	Soil	0.9	20.3	6.6	55	<0.1	11.4	5.6	370	2.15	4.9	1.4	2.0	19.9	18	<0.1	0.5	0.4	32	0.19	0.018
REP ROS 147219	QC	0.9	20.1	6.8	56	<0.1	12.0	5.6	373	2.11	4.5	1.4	3.2	19.9	18	<0.1	0.5	0.2	31	0.19	0.017
ROS 159134	Soil	0.4	52.7	6.0	79	<0.1	16.4	21.9	730	4.56	3.8	1.0	2.2	10.7	44	<0.1	0.8	<0.1	112	0.87	0.128
REP ROS 159134	QC	0.4	52.1	5.8	75	<0.1	16.7	20.9	709	4.31	3.3	1.1	2.6	10.4	43	<0.1	0.7	<0.1	108	0.85	0.125
ROS 163522	Soil	2.9	182.1	7.5	87	0.4	22.0	9.6	269	2.97	2.4	1.5	3.2	6.3	26	0.1	0.1	0.2	63	0.22	0.053
REP ROS 163522	QC	2.9	177.3	7.7	87	0.4	23.1	9.3	273	2.96	2.1	1.4	6.0	6.4	26	0.2	0.2	0.2	63	0.22	0.052
ROS 173272	Soil	0.5	51.8	34.9	121	0.1	20.0	11.2	402	3.21	7.2	0.7	12.3	7.0	31	<0.1	1.2	1.5	68	0.43	0.045
REP ROS 173272	QC	0.4	54.3	36.1	125	0.1	20.5	11.9	413	3.34	7.2	0.8	11.1	7.1	31	0.2	1.2	1.7	69	0.43	0.047
ROS 160122	Soil	0.9	156.5	7.0	57	0.2	15.9	6.6	227	4.68	<0.5	3.2	3.3	21.3	48	<0.1	<0.1	0.4	73	0.14	0.089
REP ROS 160122	QC	0.8	149.9	7.1	54	0.2	15.4	6.6	227	4.72	<0.5	3.2	2.2	21.4	48	<0.1	<0.1	0.5	72	0.13	0.091
ROS 165604	Soil	0.8	31.1	8.6	51	0.1	28.0	10.5	472	2.57	10.3	0.7	5.8	2.4	65	0.1	0.7	0.1	56	3.48	0.043
REP ROS 165604	QC	0.8	30.9	8.2	50	0.2	28.8	10.2	449	2.44	9.9	0.6	4.1	2.2	63	0.2	0.7	0.1	55	3.36	0.043
ROS 164825	Soil	1.0	20.2	16.6	61	<0.1	20.8	8.7	389	2.78	6.0	2.4	8.7	19.7	27	<0.1	0.6	0.2	56	0.43	0.059
REP ROS 164825	QC	1.1	20.7	16.8	62	<0.1	22.0	9.1	404	2.90	6.3	2.5	2.9	20.2	27	<0.1	0.6	0.2	58	0.44	0.057
ROS 164487	Soil	1.2	21.0	6.5	60	<0.1	15.6	9.8	356	2.29	4.6	1.4	1.5	3.4	35	<0.1	0.3	0.1	55	0.60	0.067
REP ROS 164487	QC	1.2	21.0	6.6	59	<0.1	16.0	10.0	357	2.37	5.1	1.5	1.8	3.2	35	<0.1	0.3	0.1	55	0.62	0.069
ROS 141801	Soil	1.3	16.0	66.9	76	0.1	14.4	8.5	344	2.92	6.0	2.2	0.8	19.7	16	<0.1	1.0	0.3	45	0.18	0.029
REP ROS 141801	QC	1.4	16.6	66.7	75	0.1	13.8	8.5	350	2.97	5.9	2.1	2.5	19.2	16	0.1	1.1	0.3	44	0.17	0.030
ROS 160326	Soil	1.2	22.3	7.6	65	<0.1	17.0	10.1	272	3.18	7.0	0.7	3.3	2.6	18	<0.1	0.4	0.1	83	0.19	0.024
REP ROS 160326	QC	1.0	21.4	7.5	58	<0.1	15.8	10.3	259	3.07	6.5	0.7	2.8	2.6	18	<0.1	0.3	0.2	82	0.20	0.022
ROS 160320	Soil	0.8	20.4	8.1	45	<0.1	17.2	7.3	193	2.37	7.3	0.7	2.6	3.3	17	<0.1	0.4	0.1	54	0.23	0.033
REP ROS 160320	QC	0.8	21.3	7.9	45	<0.1	19.5	7.6	199	2.42	7.7	0.8	2.8	3.2	18	<0.1	0.4	0.1	56	0.25	0.035
ROS 164256	Soil	0.9	8.5	5.7	44	<0.1	8.6	6.0	234	2.63	5.5	0.5	<0.5	4.8	16	<0.1	0.3	0.1	54	0.18	0.025
REP ROS 164256	QC	0.8	8.1	5.7	42	<0.1	8.8	6.0	233	2.59	5.2	0.5	0.7	4.8	16	<0.1	0.2	0.1	55	0.18	0.025
ROS 147235	Soil	0.5	26.9	7.5	66	<0.1	12.5	10.3	343	2.84	4.6	0.9	7.7	6.4	24	<0.1	0.4	0.4	48	0.30	0.035
REP ROS 147235	QC	0.5	27.2	8.0	65	<0.1	12.9	10.4	339	2.83	4.5	0.8	<0.5	6.4	24	<0.1	0.3	0.4	47	0.29	0.034
ROS 163855	Soil	1.3	30.6	8.3	65	<0.1	23.2	9.6	335	2.99	5.7	0.7	2.0	3.7	14	0.1	0.4	0.2	72	0.14	0.020
REP ROS 163855	QC	1.0	31.6	8.5	65	<0.1	23.6	9.9	335	2.98	6.1	0.7	2.1	3.8	14	<0.1	0.4	0.2	70	0.15	0.019

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Project: ROS
Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000588.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 147219	Soil	13	16	0.43	88	0.089	<1	1.30	0.011	0.23	0.2	0.07	4.1	0.2	<0.05	5	<0.5	<0.2
REP ROS 147219	QC	12	17	0.42	89	0.087	<1	1.24	0.011	0.24	0.2	0.07	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 159134	Soil	23	28	1.73	373	0.132	<1	2.67	0.024	0.35	0.1	0.05	8.3	0.1	<0.05	8	<0.5	0.2
REP ROS 159134	QC	22	28	1.60	370	0.126	<1	2.57	0.025	0.33	<0.1	0.06	8.2	0.2	<0.05	7	<0.5	<0.2
ROS 163522	Soil	27	27	0.73	173	0.141	<1	1.92	0.016	0.35	0.1	0.02	3.4	0.3	<0.05	7	0.5	<0.2
REP ROS 163522	QC	28	26	0.70	171	0.138	<1	1.80	0.015	0.35	<0.1	0.04	3.4	0.3	<0.05	6	<0.5	0.4
ROS 173272	Soil	16	27	0.74	318	0.100	<1	1.78	0.017	0.21	0.8	0.22	4.8	0.1	<0.05	6	<0.5	0.9
REP ROS 173272	QC	16	28	0.75	328	0.101	<1	1.77	0.018	0.21	0.8	0.22	4.9	0.1	<0.05	6	<0.5	1.1
ROS 160122	Soil	51	51	1.01	272	0.193	<1	2.28	0.043	1.39	<0.1	<0.01	4.3	0.8	0.56	7	0.8	<0.2
REP ROS 160122	QC	50	50	1.02	274	0.192	<1	2.31	0.042	1.38	<0.1	0.01	4.2	0.8	0.54	7	0.8	<0.2
ROS 165604	Soil	12	29	0.64	309	0.057	2	1.42	0.025	0.07	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
REP ROS 165604	QC	12	28	0.62	294	0.055	3	1.38	0.023	0.06	0.2	0.04	3.1	<0.1	<0.05	4	0.7	<0.2
ROS 164825	Soil	57	38	0.68	170	0.070	1	1.78	0.012	0.17	0.1	0.09	4.8	0.2	<0.05	7	0.5	<0.2
REP ROS 164825	QC	58	40	0.69	172	0.072	1	1.78	0.012	0.17	0.1	0.08	4.7	0.2	<0.05	7	0.8	<0.2
ROS 164487	Soil	14	23	0.59	186	0.079	1	1.32	0.017	0.10	0.2	0.04	2.8	0.1	<0.05	4	<0.5	<0.2
REP ROS 164487	QC	15	23	0.60	194	0.080	2	1.33	0.017	0.11	0.2	0.03	2.8	<0.1	<0.05	4	0.6	<0.2
ROS 141801	Soil	21	22	0.46	210	0.023	1	1.99	0.007	0.08	0.1	0.06	2.8	<0.1	<0.05	8	<0.5	<0.2
REP ROS 141801	QC	20	23	0.46	211	0.024	<1	1.89	0.006	0.08	<0.1	0.05	2.8	<0.1	<0.05	8	<0.5	0.3
ROS 160326	Soil	10	26	0.71	190	0.112	<1	2.01	0.018	0.07	0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
REP ROS 160326	QC	10	26	0.68	187	0.107	1	1.98	0.015	0.06	<0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
ROS 160320	Soil	11	26	0.50	227	0.060	1	1.43	0.019	0.05	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
REP ROS 160320	QC	12	29	0.51	227	0.070	1	1.56	0.014	0.05	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164256	Soil	7	16	0.46	145	0.136	1	1.62	0.013	0.13	0.1	0.01	3.2	0.1	<0.05	9	<0.5	<0.2
REP ROS 164256	QC	7	16	0.46	152	0.136	<1	1.63	0.012	0.13	0.1	0.03	3.1	0.1	<0.05	8	<0.5	<0.2
ROS 147235	Soil	9	19	0.65	171	0.096	<1	1.64	0.009	0.36	<0.1	0.02	2.2	0.2	<0.05	6	<0.5	<0.2
REP ROS 147235	QC	9	19	0.65	176	0.096	<1	1.61	0.009	0.37	<0.1	0.02	2.2	0.2	<0.05	6	<0.5	<0.2
ROS 163855	Soil	9	30	0.75	178	0.139	<1	1.83	0.015	0.18	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
REP ROS 163855	QC	10	29	0.74	181	0.138	<1	1.87	0.012	0.18	<0.1	0.02	3.3	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
Report Date: November 05, 2010

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI10000588.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 165691	Soil	1.4	37.9	28.4	73	0.2	30.5	9.8	288	3.13	9.1	1.5	17.9	16.8	29	0.1	1.6	0.6	62	0.38	0.022
REP ROS 165691	QC	1.5	39.0	30.9	80	0.2	31.9	9.6	313	3.14	9.2	1.5	16.7	17.0	31	<0.1	1.9	0.7	64	0.37	0.022
ROS 148067	Soil	1.2	27.7	11.3	56	0.2	20.5	8.3	200	2.92	5.6	0.9	0.6	4.0	25	0.1	0.3	0.2	74	0.21	0.056
REP ROS 148067	QC	1.3	26.1	11.4	57	0.2	19.4	8.4	201	2.92	5.8	0.9	3.2	3.8	26	<0.1	0.3	0.2	74	0.21	0.057
ROS 147009	Soil	0.9	21.7	15.7	62	<0.1	20.2	7.3	274	2.31	5.9	1.1	1.0	6.8	23	<0.1	0.5	0.2	52	0.31	0.042
REP ROS 147009	QC	0.8	21.5	16.1	62	<0.1	18.7	7.5	272	2.37	5.8	1.1	1.5	6.5	24	0.1	0.5	0.2	51	0.31	0.040
ROS 147019	Soil	0.7	19.9	14.7	84	<0.1	15.4	7.8	238	3.06	7.9	0.9	3.6	11.8	30	<0.1	0.5	0.2	48	0.28	0.029
REP ROS 147019	QC	0.7	20.3	14.8	84	<0.1	16.0	8.0	239	3.05	8.0	0.9	5.6	11.5	30	<0.1	0.5	0.2	48	0.29	0.029
Reference Materials																					
STD DS7	Standard	20.6	113.3	69.1	404	0.9	51.6	9.2	624	2.36	52.3	5.0	66.4	5.0	80	6.1	6.0	4.9	81	0.93	0.078
STD DS7	Standard	19.3	106.3	65.8	386	1.0	50.3	8.7	600	2.23	48.9	4.8	70.6	4.8	76	6.1	6.1	4.6	78	0.91	0.078
STD DS7	Standard	19.3	107.4	67.4	390	0.9	57.3	8.9	642	2.38	49.9	4.6	96.7	4.5	79	6.1	6.5	4.8	82	0.91	0.076
STD DS7	Standard	20.7	94.8	64.2	399	1.0	56.3	9.5	623	2.43	51.1	4.7	74.0	4.6	68	6.0	5.5	4.6	86	0.95	0.075
STD DS7	Standard	22.0	120.8	74.9	398	1.0	59.8	10.4	650	2.52	52.5	5.2	90.7	4.7	71	5.9	6.2	4.9	89	0.95	0.078
STD DS7	Standard	21.0	100.9	66.4	390	1.0	57.8	9.7	645	2.49	51.9	4.8	74.4	4.5	69	6.2	5.3	4.6	87	0.98	0.078
STD DS7	Standard	18.4	92.6	62.5	365	0.9	51.5	8.6	582	2.25	47.5	4.3	99.9	4.0	61	5.7	5.2	4.1	78	0.88	0.068
STD DS7	Standard	19.3	111.8	62.9	394	0.9	51.5	9.5	620	2.39	50.0	4.5	68.7	4.3	65	6.0	5.4	4.4	79	0.96	0.072
STD DS7	Standard	20.7	107.5	65.5	387	1.0	54.8	9.0	619	2.34	50.5	4.6	72.2	4.5	70	5.8	5.8	4.6	83	0.92	0.074
STD DS7	Standard	21.0	106.7	73.1	394	1.0	55.4	9.1	624	2.39	53.2	4.9	75.3	5.0	80	6.3	6.3	5.0	83	0.94	0.078
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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 Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000588.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 165691	Soil	39	50	0.59	234	0.052	<1	2.26	0.011	0.07	0.2	0.12	6.0	<0.1	<0.05	8	<0.5	<0.2
REP ROS 165691	QC	41	50	0.62	239	0.061	<1	2.33	0.012	0.07	0.2	0.15	6.5	<0.1	<0.05	9	<0.5	0.3
ROS 148067	Soil	15	28	0.59	164	0.131	<1	1.69	0.013	0.19	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
REP ROS 148067	QC	15	28	0.59	165	0.132	<1	1.68	0.013	0.19	0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 147009	Soil	18	32	0.47	216	0.072	<1	1.51	0.012	0.05	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
REP ROS 147009	QC	19	30	0.47	223	0.074	<1	1.58	0.016	0.05	0.1	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 147019	Soil	13	26	0.57	155	0.088	<1	1.92	0.011	0.20	<0.1	0.02	2.4	0.1	<0.05	7	<0.5	<0.2
REP ROS 147019	QC	13	26	0.56	155	0.090	<1	1.90	0.010	0.20	<0.1	0.02	2.2	0.2	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	14	190	1.06	407	0.129	42	0.97	0.103	0.49	3.5	0.21	2.6	4.1	0.19	5	2.9	1.8
STD DS7	Standard	13	180	1.01	390	0.122	36	0.96	0.096	0.48	3.5	0.22	2.6	3.8	0.19	5	3.0	1.5
STD DS7	Standard	13	181	1.02	399	0.117	36	1.04	0.106	0.46	3.6	0.19	2.7	4.3	0.20	5	2.8	1.1
STD DS7	Standard	13	198	1.07	395	0.109	39	1.03	0.094	0.48	3.8	0.25	2.2	4.2	0.17	5	3.7	1.0
STD DS7	Standard	13	205	1.03	406	0.129	39	1.01	0.087	0.48	3.9	0.21	2.3	4.2	0.22	5	2.4	1.4
STD DS7	Standard	13	215	1.08	392	0.113	40	1.06	0.099	0.48	3.9	0.22	2.4	4.3	0.18	5	2.9	1.3
STD DS7	Standard	12	178	0.97	376	0.102	35	0.93	0.087	0.44	3.5	0.22	2.0	3.9	0.17	5	3.6	1.8
STD DS7	Standard	13	183	1.02	388	0.118	38	1.00	0.100	0.46	3.6	0.21	2.5	4.0	0.20	5	3.2	1.2
STD DS7	Standard	13	189	1.05	389	0.117	39	1.01	0.099	0.47	3.9	0.23	2.5	4.0	0.19	5	2.9	2.2
STD DS7	Standard	14	192	1.07	410	0.130	39	1.04	0.097	0.49	3.8	0.23	2.4	4.1	0.20	5	3.3	2.6
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Val D'Or QC J9P 1S5 Canada

Project: ROS

Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000588.1

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



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Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000588.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Taku Gold Corp**
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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 05, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000589.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

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

ADDITIONAL COMMENTS



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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 05, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000589.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173012	Soil		1.2	25.5	17.9	84	0.3	25.4	14.4	596	3.55	3.7	1.8	10.8	11.0	28	<0.1	0.7	0.2	59	0.40	0.088
ROS 173019	Soil		0.6	18.3	4.9	50	<0.1	8.9	5.8	205	1.51	2.3	0.6	2.5	5.7	15	<0.1	0.3	0.1	27	0.22	0.046
ROS 160120	Soil		0.9	120.4	8.3	86	0.1	21.4	9.3	291	3.50	5.3	1.5	5.5	7.6	27	0.1	0.3	0.5	66	0.11	0.043
ROS 173005	Soil		0.8	25.2	9.9	110	<0.1	12.2	8.2	743	2.99	13.2	1.0	3.4	9.4	24	0.1	0.7	0.2	39	0.35	0.054
ROS 173011	Soil		0.8	14.2	5.6	44	<0.1	11.4	5.6	203	1.58	4.5	0.5	<0.5	5.3	26	<0.1	0.5	<0.1	31	0.21	0.032
ROS 173020	Soil		1.2	30.8	13.9	67	<0.1	16.7	10.1	444	2.43	9.4	1.1	5.1	14.0	26	<0.1	1.6	0.3	42	0.37	0.037
ROS 160125	Soil		0.7	52.0	12.8	145	<0.1	10.3	17.6	587	4.22	3.3	0.4	<0.5	2.1	26	0.2	0.1	0.1	95	0.14	0.032
ROS 173003	Soil		0.5	30.4	7.2	37	<0.1	11.9	4.3	229	1.46	5.6	1.0	4.6	23.5	14	<0.1	0.6	0.1	23	0.18	0.022
ROS 173021	Soil		0.6	35.1	10.4	52	<0.1	23.4	10.0	348	2.44	9.2	0.8	5.3	9.1	29	<0.1	1.0	0.2	51	0.40	0.022
ROS 173030	Soil		0.7	20.8	14.8	96	0.1	13.0	10.2	635	2.77	5.9	1.0	0.9	6.8	39	0.1	1.3	0.1	58	0.42	0.054
ROS 147443	Soil		0.7	35.3	9.2	61	0.1	25.0	8.8	399	2.51	9.3	0.8	2.1	4.4	67	0.1	0.7	0.2	51	1.42	0.061
ROS 173004	Soil		1.0	43.0	9.2	79	<0.1	18.7	9.1	504	3.00	8.6	1.6	4.2	9.2	28	<0.1	0.7	0.5	48	0.33	0.044
ROS 173013	Soil		0.4	25.1	11.7	97	0.4	11.2	15.2	828	4.41	4.8	1.7	60.2	13.3	28	<0.1	1.6	0.1	63	0.49	0.096
ROS 173018	Soil		0.8	29.8	5.6	72	<0.1	15.5	9.3	480	2.94	3.2	1.0	1.2	8.8	27	<0.1	0.6	0.2	45	0.36	0.053
ROS 173006	Soil		0.5	30.1	13.4	110	0.3	30.9	16.9	727	3.45	9.0	0.9	3.0	6.0	41	0.2	0.9	0.3	69	0.64	0.064
ROS 173001	Soil		0.8	47.4	26.1	68	0.1	25.9	9.5	349	2.66	9.4	0.8	9.1	12.3	32	<0.1	0.9	0.4	58	0.48	0.033
ROS 164799	Soil		1.3	19.6	9.4	33	0.1	1.5	2.7	116	1.95	2.3	1.3	2.0	10.8	49	<0.1	0.1	0.6	21	0.28	0.017
ROS 164796	Soil		1.0	30.0	5.2	85	<0.1	6.0	7.9	486	4.17	3.7	2.2	0.7	13.2	18	<0.1	0.2	0.1	112	0.10	0.046
ROS 164792	Soil		1.6	19.4	6.9	69	<0.1	10.7	10.6	472	3.47	5.2	1.8	1.1	12.4	47	<0.1	0.3	0.1	64	0.20	0.041
ROS 164332	Soil		2.9	34.9	10.1	93	0.3	15.2	5.9	186	2.81	5.2	1.7	2.1	4.4	39	0.4	0.2	0.2	61	0.24	0.089
ROS 164798	Soil		0.8	103.2	2.2	112	0.1	4.2	18.8	774	3.17	1.2	6.4	1.6	21.9	45	0.3	<0.1	0.2	64	0.20	0.034
ROS 164793	Soil		1.2	15.2	6.1	59	<0.1	6.3	6.8	416	2.65	3.7	1.0	1.1	8.1	46	<0.1	0.3	0.1	61	0.12	0.020
ROS 164790	Soil		1.2	14.6	7.1	50	0.1	10.2	4.7	167	2.24	4.3	2.4	1.5	7.4	28	0.1	0.3	0.2	44	0.17	0.064
ROS 160342	Soil		1.0	21.7	4.6	57	0.1	13.8	10.1	263	2.44	4.3	0.5	3.7	1.8	19	0.2	0.2	<0.1	60	0.36	0.060
ROS 164797	Soil		0.9	34.4	5.4	88	<0.1	5.6	8.7	543	4.53	3.7	2.6	0.5	15.0	18	<0.1	0.2	0.2	128	0.09	0.052
ROS 164794	Soil		2.0	36.5	8.1	85	<0.1	4.5	11.9	491	3.21	3.2	3.0	<0.5	19.8	23	<0.1	0.2	0.1	44	0.09	0.051
ROS 164789	Soil		2.2	14.5	6.2	50	<0.1	8.3	6.2	200	2.36	4.0	2.3	4.2	7.4	38	0.1	0.2	0.1	50	0.18	0.058
ROS 160341	Soil		1.5	35.7	5.8	84	0.2	17.1	10.4	265	2.82	4.6	0.9	2.9	1.7	22	0.2	0.2	0.1	78	0.33	0.081
ROS 164795	Soil		1.3	35.6	7.9	75	<0.1	14.3	12.2	441	3.64	6.6	0.9	1.8	4.8	45	<0.1	0.4	0.1	102	0.17	0.023
ROS 164791	Soil		2.0	19.0	6.6	50	<0.1	7.3	4.9	268	3.21	3.7	3.7	1.1	11.7	47	<0.1	0.2	0.1	52	0.12	0.067

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000589.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	0.2
ROS 173012	Soil	30	40	1.05	328	0.120	2	2.00	0.013	0.72	0.9	0.03	5.3	0.2	<0.05	7	<0.5	<0.2
ROS 173019	Soil	7	11	0.38	96	0.078	<1	1.00	0.014	0.29	0.1	<0.01	2.8	0.1	<0.05	4	<0.5	<0.2
ROS 160120	Soil	22	43	0.73	250	0.151	<1	2.12	0.024	0.54	<0.1	0.03	3.5	0.3	0.21	7	0.5	<0.2
ROS 173005	Soil	33	19	0.84	209	0.145	<1	1.70	0.014	0.55	0.2	0.05	3.3	0.2	<0.05	8	<0.5	<0.2
ROS 173011	Soil	7	20	0.37	130	0.067	<1	1.07	0.013	0.19	0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
ROS 173020	Soil	22	21	0.43	194	0.054	<1	1.48	0.011	0.12	0.2	0.17	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160125	Soil	6	27	1.28	307	0.219	<1	2.59	0.014	0.92	<0.1	<0.01	3.3	0.3	0.08	7	<0.5	<0.2
ROS 173003	Soil	37	13	0.26	93	0.025	<1	0.85	0.011	0.07	0.1	0.06	2.6	<0.1	<0.05	3	<0.5	<0.2
ROS 173021	Soil	23	29	0.47	212	0.070	<1	1.75	0.019	0.09	0.2	0.07	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173030	Soil	13	24	0.67	248	0.107	1	1.78	0.012	0.20	0.2	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
ROS 147443	Soil	16	27	0.69	343	0.078	2	1.59	0.038	0.09	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173004	Soil	26	23	0.69	218	0.133	<1	1.69	0.014	0.37	0.4	0.05	4.4	0.2	<0.05	7	0.5	<0.2
ROS 173013	Soil	48	19	1.13	240	0.136	2	2.14	0.012	0.61	2.0	0.08	6.5	0.2	<0.05	9	<0.5	<0.2
ROS 173018	Soil	19	24	1.13	167	0.176	<1	2.03	0.015	0.63	0.2	0.01	4.7	0.2	<0.05	8	<0.5	<0.2
ROS 173006	Soil	26	76	1.65	279	0.152	2	2.27	0.017	0.46	0.2	0.08	5.0	0.2	<0.05	7	0.5	<0.2
ROS 173001	Soil	25	30	0.55	240	0.087	1	1.55	0.025	0.10	0.2	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164799	Soil	19	3	0.28	124	0.031	<1	0.97	0.025	0.32	<0.1	0.01	2.2	0.1	0.35	3	0.7	<0.2
ROS 164796	Soil	18	12	1.21	193	0.206	<1	2.59	0.014	1.13	<0.1	<0.01	10.3	0.5	<0.05	11	0.7	<0.2
ROS 164792	Soil	29	18	0.74	159	0.164	<1	2.37	0.015	0.49	<0.1	0.01	3.5	0.3	<0.05	8	<0.5	<0.2
ROS 164332	Soil	20	34	0.68	224	0.101	<1	1.59	0.025	0.24	<0.1	0.02	3.5	0.2	0.14	6	1.6	<0.2
ROS 164798	Soil	50	13	1.02	157	0.121	<1	2.29	0.012	0.83	<0.1	<0.01	5.8	0.5	<0.05	9	<0.5	<0.2
ROS 164793	Soil	9	11	0.76	101	0.177	1	1.65	0.012	0.36	0.1	<0.01	3.6	0.3	<0.05	9	<0.5	<0.2
ROS 164790	Soil	21	18	0.53	137	0.104	2	1.41	0.013	0.24	0.1	0.05	3.3	0.2	0.06	5	<0.5	<0.2
ROS 160342	Soil	7	22	0.66	227	0.099	<1	1.31	0.022	0.12	0.7	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164797	Soil	21	11	1.35	215	0.223	<1	2.57	0.013	1.28	0.1	<0.01	11.1	0.5	<0.05	12	<0.5	0.4
ROS 164794	Soil	35	9	0.87	117	0.123	<1	1.92	0.009	0.67	<0.1	<0.01	2.9	0.4	<0.05	8	<0.5	<0.2
ROS 164789	Soil	25	15	0.60	116	0.116	1	1.54	0.013	0.35	0.1	0.03	3.1	0.2	0.06	6	<0.5	<0.2
ROS 160341	Soil	9	24	0.79	265	0.130	<1	1.58	0.022	0.24	0.3	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 164795	Soil	22	23	1.05	309	0.162	1	2.30	0.016	0.55	<0.1	0.03	3.3	0.2	<0.05	8	<0.5	<0.2
ROS 164791	Soil	31	15	0.65	150	0.127	<1	1.77	0.024	0.49	<0.1	0.03	4.0	0.3	0.24	7	<0.5	<0.2

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 3 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000589.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164788	Soil	0.8	11.0	7.4	46	0.1	7.5	4.4	149	2.01	5.0	1.7	<0.5	3.7	30	0.1	0.2	0.2	39	0.14	0.051
ROS 164337	Soil	0.8	13.2	7.8	59	<0.1	13.5	6.9	265	2.41	7.6	0.6	1.8	1.5	16	0.1	0.3	0.2	63	0.20	0.060
ROS 164123	Soil	0.9	35.3	23.3	108	0.1	19.3	9.4	424	3.06	5.2	0.8	0.9	4.4	45	0.2	0.3	0.2	74	0.40	0.054
ROS 159447	Soil	0.6	20.5	7.7	81	<0.1	12.8	8.9	396	3.07	5.3	0.9	18.9	4.4	41	<0.1	0.3	<0.1	67	0.51	0.086
ROS 159443	Soil	1.2	19.6	7.6	57	<0.1	13.3	8.4	308	2.72	6.3	1.7	1.6	8.6	30	<0.1	0.4	0.3	53	0.34	0.044
ROS 159440	Soil	0.8	21.7	8.1	59	<0.1	15.1	8.5	397	2.65	6.5	1.0	1.6	8.9	33	<0.1	0.5	0.1	54	0.43	0.036
ROS 164122	Soil	1.3	64.6	12.8	137	0.1	29.2	21.5	936	4.88	2.9	0.9	<0.5	6.3	51	0.2	0.2	0.2	128	0.42	0.072
ROS 159446	Soil	1.0	42.1	11.6	89	<0.1	10.6	6.9	321	2.32	3.8	2.0	1.2	9.3	28	0.1	0.3	0.2	48	0.27	0.026
ROS 159441	Soil	1.3	15.4	5.1	81	<0.1	6.4	9.9	600	3.51	3.6	2.0	0.5	14.1	47	<0.1	0.2	0.2	44	0.70	0.041
ROS 159437	Soil	1.2	14.6	9.4	77	<0.1	10.4	9.0	528	3.17	4.8	1.8	0.8	11.7	50	<0.1	0.3	0.2	53	0.61	0.029
ROS 164120	Soil	1.5	34.9	11.2	85	0.3	30.8	11.3	632	4.02	8.7	0.6	<0.5	6.2	19	0.2	0.6	0.2	65	0.25	0.031
ROS 159445	Soil	1.1	20.2	11.2	65	<0.1	15.7	8.5	260	2.70	7.2	1.6	1.7	7.3	25	<0.1	0.4	0.2	58	0.26	0.037
ROS 159438	Soil	0.8	23.3	9.7	75	<0.1	15.6	9.3	509	2.84	6.2	1.3	1.4	9.4	35	0.1	0.4	0.2	58	0.46	0.050
ROS 159439	Soil	0.7	30.0	9.6	70	0.1	23.3	9.5	401	2.60	8.2	0.8	7.2	6.0	40	0.2	0.7	0.2	54	0.56	0.073
ROS 164121	Soil	0.7	51.5	6.2	136	<0.1	61.6	16.4	776	3.85	2.9	0.8	1.6	7.1	32	0.2	0.2	0.1	70	0.41	0.044
ROS 159444	Soil	1.4	21.4	6.6	77	<0.1	11.0	7.5	360	2.75	5.2	1.6	2.1	8.4	31	<0.1	0.3	0.3	51	0.35	0.063
ROS 159442	Soil	1.1	23.1	6.3	71	<0.1	12.7	10.3	596	3.10	5.2	1.9	0.6	11.6	42	<0.1	0.3	0.2	52	0.52	0.059
ROS 159436	Soil	1.2	14.4	10.4	159	<0.1	9.9	9.6	887	3.78	5.1	1.4	<0.5	12.9	23	<0.1	0.3	0.1	62	0.16	0.020
ROS 165556	Soil	0.9	28.0	15.7	81	0.1	19.4	11.4	583	3.09	7.8	1.9	1.8	17.0	38	<0.1	0.8	0.2	53	0.43	0.055
ROS 173276	Soil	1.9	30.3	23.9	138	<0.1	19.0	8.6	389	3.13	6.7	1.6	13.2	12.0	32	0.1	1.5	0.4	60	0.51	0.092
ROS 165555	Soil	0.7	33.6	10.5	60	0.1	26.9	9.9	331	2.70	9.8	0.8	2.0	8.0	36	<0.1	0.7	0.2	59	0.44	0.050
ROS 141716	Soil	0.8	32.8	14.3	73	0.1	21.0	9.2	318	2.57	7.9	1.0	1.8	6.7	38	0.2	0.9	0.1	57	0.40	0.060
ROS 165557	Soil	1.3	36.6	9.9	55	<0.1	25.1	9.7	286	2.71	9.2	3.1	12.7	10.1	60	<0.1	0.8	0.2	60	0.38	0.025
ROS 165559	Soil	0.5	33.0	8.1	58	<0.1	23.3	8.0	203	2.02	5.6	1.9	2.1	4.6	49	0.3	0.6	0.1	54	0.85	0.073
ROS 173270	Soil	0.3	24.3	10.7	108	<0.1	10.8	9.6	395	2.97	8.3	1.3	11.1	7.9	76	<0.1	0.9	0.1	45	0.50	0.041
ROS 140571	Soil	0.7	25.9	9.6	94	<0.1	15.7	12.7	508	3.72	6.9	1.0	11.8	6.1	42	<0.1	0.9	0.2	81	0.27	0.016
ROS 173273	Soil	0.5	60.3	22.1	94	<0.1	8.6	9.0	320	2.92	4.8	1.3	1.7	12.4	47	<0.1	1.4	0.7	39	0.35	0.045
ROS 165965	Soil	0.7	14.6	9.0	71	<0.1	15.6	7.4	286	2.41	7.5	0.5	2.4	3.4	23	<0.1	0.7	0.2	50	0.24	0.040
ROS 165979	Soil	0.9	42.8	10.4	63	0.2	31.2	11.5	360	3.01	13.0	0.5	3.0	5.6	31	<0.1	0.8	0.2	64	0.40	0.031
ROS 140568	Soil	0.8	19.6	9.6	57	<0.1	16.8	7.1	216	2.45	7.0	0.5	1.4	4.3	23	0.1	0.5	0.2	56	0.23	0.047

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164788	Soil	15	16	0.43	92	0.090	<1	1.37	0.010	0.17	0.2	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
ROS 164337	Soil	9	24	0.43	139	0.060	1	1.40	0.012	0.06	0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164123	Soil	13	31	0.90	1137	0.173	1	1.79	0.025	0.32	0.1	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 159447	Soil	15	26	0.89	208	0.106	<1	2.11	0.016	0.31	<0.1	0.01	3.7	0.1	<0.05	9	<0.5	<0.2
ROS 159443	Soil	18	24	0.56	135	0.098	1	1.84	0.015	0.14	<0.1	0.01	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 159440	Soil	16	23	0.66	246	0.117	<1	1.81	0.023	0.22	0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
ROS 164122	Soil	14	36	1.53	3008	0.282	<1	2.91	0.026	1.19	0.1	<0.01	6.1	0.4	<0.05	10	<0.5	<0.2
ROS 159446	Soil	29	21	0.54	161	0.114	<1	1.52	0.015	0.24	<0.1	<0.01	3.5	0.2	<0.05	5	<0.5	0.3
ROS 159441	Soil	24	11	0.77	227	0.154	<1	2.72	0.024	0.65	<0.1	<0.01	3.0	0.4	<0.05	9	<0.5	<0.2
ROS 159437	Soil	27	19	0.91	145	0.109	<1	2.68	0.012	0.32	<0.1	0.02	3.5	0.2	<0.05	10	<0.5	<0.2
ROS 164120	Soil	12	45	0.54	308	0.106	<1	2.14	0.011	0.14	<0.1	0.01	3.4	0.1	<0.05	7	<0.5	<0.2
ROS 159445	Soil	20	28	0.58	172	0.096	1	1.92	0.014	0.08	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	0.4
ROS 159438	Soil	20	22	0.73	226	0.131	<1	1.99	0.028	0.26	0.1	0.02	4.4	0.2	<0.05	7	<0.5	<0.2
ROS 159439	Soil	18	27	0.61	303	0.097	2	1.64	0.030	0.15	0.3	0.03	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 164121	Soil	14	68	1.82	401	0.277	<1	2.72	0.013	0.94	<0.1	<0.01	4.9	0.5	<0.05	11	<0.5	<0.2
ROS 159444	Soil	23	17	0.63	149	0.129	<1	1.86	0.016	0.30	<0.1	0.01	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 159442	Soil	29	18	0.73	146	0.152	1	2.42	0.017	0.48	<0.1	<0.01	3.2	0.3	<0.05	8	<0.5	<0.2
ROS 159436	Soil	9	18	1.39	129	0.181	<1	3.04	0.012	0.92	0.2	0.01	5.4	0.5	<0.05	12	<0.5	0.4
ROS 165556	Soil	42	29	0.66	248	0.082	2	1.99	0.016	0.20	0.2	0.04	4.6	0.1	<0.05	7	<0.5	<0.2
ROS 173276	Soil	31	29	0.62	265	0.051	1	1.71	0.015	0.13	0.3	0.10	5.2	<0.1	<0.05	7	<0.5	<0.2
ROS 165555	Soil	19	34	0.59	263	0.101	2	1.84	0.019	0.13	0.2	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 141716	Soil	19	30	0.57	241	0.093	1	1.75	0.021	0.06	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165557	Soil	25	33	0.60	149	0.103	1	1.61	0.025	0.10	0.3	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 165559	Soil	17	27	0.52	298	0.088	2	1.56	0.021	0.05	0.3	0.05	3.8	<0.1	<0.05	5	0.6	<0.2
ROS 173270	Soil	24	17	0.80	207	0.147	<1	2.28	0.013	0.16	0.1	0.06	4.5	0.1	<0.05	8	<0.5	<0.2
ROS 140571	Soil	22	27	1.09	192	0.205	1	2.84	0.013	0.13	0.1	0.02	3.4	0.2	<0.05	9	<0.5	<0.2
ROS 173273	Soil	14	15	0.51	140	0.110	<1	1.49	0.008	0.36	0.5	0.07	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 165965	Soil	9	28	0.56	249	0.047	1	1.64	0.009	0.07	0.2	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165979	Soil	17	37	0.67	249	0.089	2	1.77	0.019	0.16	0.2	0.04	5.7	<0.1	<0.05	5	<0.5	<0.2
ROS 140568	Soil	14	24	0.53	127	0.080	<1	1.64	0.010	0.06	0.2	0.01	2.5	0.1	<0.05	6	<0.5	<0.2

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 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165558	Soil		1.2	17.0	7.6	47	<0.1	10.2	4.0	128	1.19	1.9	10.0	5.4	2.7	85	<0.1	0.8	0.2	28	1.76	0.062
ROS 141813	Soil		0.8	18.4	29.4	59	<0.1	14.0	6.9	280	2.11	5.9	1.1	2.5	10.9	20	0.1	1.5	0.2	42	0.22	0.040
ROS 165978	Soil		1.0	32.9	20.4	87	0.3	17.4	10.7	692	2.97	5.7	1.4	1.5	9.9	28	0.1	1.7	0.5	44	0.43	0.043
ROS 140569	Soil		1.1	18.7	10.5	56	<0.1	18.9	9.3	244	2.94	10.8	0.4	1.4	3.5	15	0.2	0.7	0.2	69	0.11	0.025
ROS 159063	Soil		0.6	20.9	4.5	65	<0.1	14.4	9.7	620	3.62	5.5	1.9	2.7	17.4	25	<0.1	0.3	0.1	58	0.39	0.083
ROS 159067	Soil		0.8	25.0	6.2	55	0.2	11.8	7.4	505	2.58	4.6	2.8	3.7	11.1	37	<0.1	0.3	0.2	44	0.46	0.069
ROS 159075	Soil		1.3	32.3	13.7	86	0.1	28.8	11.5	776	3.57	4.2	3.8	1.1	29.9	39	0.1	0.5	0.3	66	1.09	0.050
ROS 159077	Soil		1.1	18.0	9.2	91	<0.1	10.8	9.7	513	3.74	12.0	0.9	<0.5	7.2	18	<0.1	0.4	0.3	52	0.27	0.057
ROS 159061	Soil		0.7	20.7	6.6	62	<0.1	13.6	8.1	424	3.09	7.3	1.0	1.5	9.0	31	<0.1	0.4	0.1	60	0.20	0.027
ROS 159072	Soil		1.2	26.5	9.4	71	0.2	12.1	7.9	456	2.38	4.7	3.5	3.3	10.8	51	0.2	0.3	0.3	46	0.70	0.068
ROS 159070	Soil		2.2	19.5	7.2	71	0.2	8.9	10.5	952	2.92	4.8	2.6	3.1	11.7	44	0.1	0.2	0.3	49	0.63	0.068
ROS 159076	Soil		1.0	23.7	8.0	64	<0.1	15.7	10.0	500	3.23	5.7	1.8	1.3	5.8	29	<0.1	0.4	0.2	60	0.60	0.033
ROS 159073	Soil		0.8	26.1	17.7	77	0.1	15.3	9.9	709	2.63	5.2	1.7	1.9	11.2	46	0.2	0.7	0.4	57	1.08	0.082
ROS 159071	Soil		0.9	24.6	13.0	76	0.1	13.7	7.6	414	2.56	4.4	1.6	2.9	9.8	52	0.1	0.6	0.6	46	0.82	0.075
ROS 164482	Soil		1.1	12.3	11.1	66	<0.1	12.8	14.8	859	2.59	7.1	0.9	1.7	8.0	19	0.1	0.3	0.2	51	0.22	0.096
ROS 164479	Soil		1.7	41.6	31.0	91	<0.1	14.9	10.8	630	2.95	4.1	2.2	1.5	25.8	24	<0.1	0.4	0.3	40	0.38	0.064
ROS 159069	Soil		2.5	48.1	12.3	176	0.1	7.8	10.1	868	4.65	2.7	9.3	1.4	14.9	67	0.2	0.2	0.2	102	0.34	0.048
ROS 159074	Soil		0.6	23.3	16.2	78	0.2	12.4	7.1	261	2.12	3.6	1.4	4.3	10.7	40	0.3	0.5	0.3	40	0.78	0.064
ROS 164483	Soil		0.6	16.1	5.5	52	<0.1	9.8	7.4	287	2.28	6.4	0.8	1.4	8.7	21	<0.1	0.3	0.1	40	0.28	0.039
ROS 164481	Soil		0.7	24.5	9.2	65	<0.1	14.8	7.9	306	2.50	5.6	1.4	2.7	14.9	26	<0.1	0.5	0.2	45	0.38	0.051
ROS 160330	Soil		1.3	27.0	7.0	91	<0.1	12.9	9.6	343	3.22	5.7	0.7	1.6	3.3	22	0.1	0.3	0.2	73	0.21	0.035
ROS 147042	Soil		0.9	25.9	8.7	55	<0.1	21.3	7.6	335	2.37	8.6	1.1	3.6	7.2	27	<0.1	0.6	0.2	51	0.39	0.040
ROS 173472	Soil		0.7	25.2	8.1	61	<0.1	20.4	8.6	576	2.75	7.5	0.9	3.7	8.8	29	<0.1	0.5	0.2	55	0.42	0.041
ROS 173475	Soil		1.0	74.4	9.1	91	0.1	8.6	4.9	529	2.58	7.3	1.0	4.3	13.5	13	<0.1	0.9	0.5	34	0.27	0.030
ROS 160337	Soil		0.5	11.9	6.1	54	<0.1	11.8	5.2	141	2.10	5.0	0.5	1.5	1.4	18	0.1	0.2	0.1	46	0.23	0.063
ROS 147045	Soil		0.6	34.8	8.2	57	<0.1	21.1	6.7	369	2.48	10.6	1.0	11.1	14.0	19	<0.1	1.0	0.3	44	0.29	0.042
ROS 173476	Soil		1.2	70.3	8.8	88	0.1	9.5	5.1	516	2.69	7.4	1.1	3.6	13.4	13	<0.1	0.8	0.6	36	0.26	0.032
ROS 173479	Soil		0.9	28.4	10.1	61	0.3	19.9	9.7	772	2.63	7.1	0.7	16.1	5.8	31	0.1	0.6	0.2	54	0.47	0.051
ROS 165998	Soil		0.9	30.0	11.5	69	0.6	20.1	8.8	440	2.61	7.9	1.0	6.2	7.5	30	<0.1	1.7	0.5	52	0.43	0.042
ROS 147046	Soil		0.9	46.9	8.5	55	0.3	29.4	9.6	300	2.74	13.2	0.7	6.1	7.0	27	<0.1	0.9	0.2	65	0.40	0.024

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165558	Soil	10	23	0.41	248	0.063	3	1.18	0.017	0.05	0.1	0.05	3.3	<0.1	0.19	4	0.7	<0.2
ROS 141813	Soil	21	23	0.31	194	0.039	2	1.37	0.009	0.10	0.2	0.34	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165978	Soil	28	32	0.72	388	0.046	2	1.78	0.009	0.29	0.3	0.08	4.6	0.1	<0.05	6	<0.5	<0.2
ROS 140569	Soil	8	34	0.45	175	0.065	1	2.25	0.009	0.05	0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 159063	Soil	29	19	0.85	230	0.165	1	1.87	0.018	0.75	0.1	0.01	7.4	0.3	<0.05	7	<0.5	<0.2
ROS 159067	Soil	59	17	0.57	166	0.093	<1	1.57	0.015	0.30	0.1	0.06	4.5	0.1	<0.05	6	<0.5	<0.2
ROS 159075	Soil	127	65	0.94	204	0.097	2	1.92	0.014	0.60	0.1	0.06	8.7	0.5	<0.05	8	0.6	<0.2
ROS 159077	Soil	6	21	0.79	226	0.125	<1	1.95	0.011	0.57	0.1	0.01	5.4	0.3	<0.05	8	<0.5	<0.2
ROS 159061	Soil	16	24	0.76	137	0.141	<1	1.77	0.013	0.55	0.1	0.02	4.3	0.3	<0.05	7	<0.5	<0.2
ROS 159072	Soil	47	19	0.53	178	0.078	1	1.85	0.015	0.17	0.1	0.07	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 159070	Soil	37	16	0.55	116	0.092	1	1.87	0.015	0.26	<0.1	0.05	3.8	0.2	<0.05	7	<0.5	<0.2
ROS 159076	Soil	26	26	0.76	178	0.131	1	1.84	0.017	0.30	0.1	0.04	5.4	0.2	<0.05	6	<0.5	<0.2
ROS 159073	Soil	33	24	0.50	215	0.047	1	1.38	0.015	0.16	0.2	0.04	5.4	0.1	<0.05	5	<0.5	<0.2
ROS 159071	Soil	26	28	0.65	173	0.048	<1	1.65	0.014	0.14	0.1	0.04	4.6	0.1	<0.05	7	<0.5	<0.2
ROS 164482	Soil	10	21	0.48	152	0.081	<1	1.54	0.010	0.13	0.2	0.01	2.5	0.2	<0.05	6	<0.5	<0.2
ROS 164479	Soil	53	17	0.57	188	0.113	<1	1.55	0.011	0.44	0.2	0.02	3.7	0.4	<0.05	7	<0.5	<0.2
ROS 159069	Soil	37	16	0.94	160	0.143	<1	2.28	0.019	0.52	<0.1	0.03	9.1	0.3	<0.05	9	0.5	<0.2
ROS 159074	Soil	28	21	0.48	169	0.051	<1	1.41	0.015	0.12	0.1	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164483	Soil	12	16	0.45	140	0.089	<1	1.20	0.016	0.16	0.1	0.01	3.4	0.1	<0.05	4	<0.5	<0.2
ROS 164481	Soil	22	20	0.52	182	0.090	<1	1.35	0.018	0.18	0.1	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
ROS 160330	Soil	12	22	0.65	223	0.127	<1	2.09	0.021	0.14	<0.1	0.02	4.5	0.1	<0.05	8	<0.5	<0.2
ROS 147042	Soil	19	29	0.47	235	0.076	1	1.54	0.022	0.07	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173472	Soil	23	30	0.48	283	0.075	1	1.69	0.019	0.11	0.1	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
ROS 173475	Soil	65	9	0.36	166	0.035	<1	1.38	0.007	0.17	0.1	0.15	5.2	0.1	<0.05	7	<0.5	<0.2
ROS 160337	Soil	10	19	0.42	136	0.059	1	1.28	0.016	0.05	0.2	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147045	Soil	31	22	0.39	176	0.050	<1	1.58	0.012	0.16	0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
ROS 173476	Soil	55	10	0.38	173	0.040	<1	1.50	0.009	0.18	0.1	0.13	5.3	0.1	<0.05	8	<0.5	<0.2
ROS 173479	Soil	20	28	0.43	328	0.065	2	1.83	0.021	0.13	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165998	Soil	24	33	0.49	286	0.054	1	1.78	0.013	0.14	0.2	0.19	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 147046	Soil	21	36	0.56	203	0.088	1	1.79	0.020	0.08	0.1	0.11	5.6	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173471	Soil	0.7	35.6	9.2	71	0.1	25.6	9.7	544	2.49	9.0	0.7	3.8	5.3	56	0.3	0.9	0.2	52	1.13	0.055
ROS 173474	Soil	0.9	31.3	8.1	62	<0.1	22.5	8.9	386	2.93	11.7	1.2	4.5	9.7	26	<0.1	0.8	0.4	59	0.36	0.046
ROS 164288	Soil	0.5	25.7	6.2	45	0.1	9.2	4.0	102	1.74	3.4	0.7	5.1	0.7	17	0.2	0.2	0.2	29	0.18	0.061
ROS 147044	Soil	0.6	22.9	7.6	45	<0.1	20.5	7.3	282	2.32	10.1	0.6	7.7	5.2	28	<0.1	0.7	0.2	52	0.39	0.050
ROS 147047	Soil	0.8	12.3	9.5	72	<0.1	9.8	6.5	525	2.21	4.0	0.9	<0.5	6.2	24	<0.1	0.6	0.3	40	0.31	0.053
ROS 173480	Soil	1.0	105.6	15.4	72	0.3	11.1	9.6	1686	2.85	11.7	6.3	3.8	13.5	38	0.6	0.7	2.5	39	0.79	0.124
ROS 151816	Soil	0.5	32.0	8.9	50	0.3	23.1	8.8	354	2.21	9.4	0.5	2.9	4.1	47	0.1	1.0	0.2	44	1.53	0.076
ROS 173204	Soil	1.3	20.5	9.8	70	1.1	14.1	6.2	298	2.20	5.5	0.5	<0.5	5.1	25	0.2	1.0	0.2	40	0.34	0.034
ROS 173200	Soil	0.6	27.2	8.6	50	<0.1	20.4	7.9	347	2.18	8.0	1.1	1.1	4.0	46	<0.1	0.7	0.2	45	0.69	0.065
ROS 173194	Soil	1.0	30.1	12.5	55	0.2	20.2	8.7	521	2.35	8.9	1.1	3.3	4.6	40	0.2	1.4	0.2	43	0.70	0.062
ROS 151817	Soil	0.5	17.4	12.3	48	0.1	8.8	6.1	360	1.94	3.5	0.7	2.3	12.5	22	<0.1	2.2	0.3	13	0.30	0.017
ROS 173198	Soil	0.8	25.9	8.9	54	<0.1	21.8	9.0	340	2.38	9.6	0.9	9.5	4.1	35	0.1	0.6	0.2	52	0.51	0.057
ROS 173195	Soil	0.9	30.2	9.5	60	0.1	22.2	9.8	387	2.59	8.9	1.2	2.6	5.6	34	<0.1	0.8	0.2	55	0.58	0.036
ROS 173197	Soil	0.7	24.3	8.2	45	<0.1	21.1	7.9	303	2.32	8.5	0.7	1.5	3.9	34	<0.1	0.6	0.1	48	0.48	0.052
ROS 173002	Soil	0.7	40.3	10.9	54	0.2	16.4	6.7	453	2.19	7.3	1.2	5.7	18.7	22	<0.1	0.8	0.2	35	0.31	0.050
ROS 173202	Soil	0.8	16.3	8.7	55	<0.1	18.0	10.1	559	2.22	7.2	0.4	3.3	3.6	26	0.1	0.5	0.1	54	0.31	0.051
ROS 173199	Soil	0.8	29.8	9.9	59	<0.1	20.6	8.6	384	2.35	7.8	1.0	1.5	5.0	42	0.1	0.8	0.2	47	0.64	0.055
ROS 173205	Soil	1.3	29.5	8.1	56	0.1	21.2	9.2	370	2.31	8.0	3.4	0.8	2.8	141	0.2	0.7	0.2	46	1.25	0.047
ROS 151815	Soil	0.7	40.0	8.6	61	0.1	25.3	9.7	437	2.42	10.0	0.6	6.8	3.6	66	0.2	0.9	0.1	49	2.80	0.097
ROS 173203	Soil	1.1	19.7	12.5	84	0.1	21.8	9.8	353	2.86	9.0	0.5	<0.5	4.2	23	0.1	0.7	0.2	60	0.33	0.038
ROS 173201	Soil	0.7	12.7	6.4	41	<0.1	10.2	6.3	368	1.38	3.6	0.6	<0.5	3.9	18	<0.1	0.3	<0.1	28	0.22	0.049
ROS 173196	Soil	1.1	33.9	10.2	62	0.1	25.5	10.4	367	2.57	7.6	1.9	3.2	5.9	38	0.1	0.8	0.2	52	0.50	0.051
ROS 140570	Soil	0.7	26.8	9.8	104	0.2	11.8	14.4	597	4.08	5.9	0.7	<0.5	2.3	40	0.2	0.7	<0.1	107	0.22	0.033
ROS 141710	Soil	0.6	17.2	8.2	89	<0.1	15.3	9.0	338	2.50	5.6	0.8	1.1	4.5	63	0.1	0.4	<0.1	57	0.56	0.057
ROS 160118	Soil	1.2	117.5	8.5	85	0.4	33.5	12.6	183	3.74	1.9	2.1	3.7	6.4	39	0.2	0.1	1.3	75	0.22	0.081
ROS 163690	Soil	0.8	23.2	5.4	86	<0.1	11.3	11.9	348	3.11	5.3	0.6	1.0	2.5	18	0.1	0.3	0.1	74	0.30	0.083
ROS 141714	Soil	0.7	23.2	8.8	70	<0.1	16.0	8.4	309	2.40	5.7	0.9	0.9	7.2	32	0.2	0.5	0.1	53	0.35	0.052
ROS 141713	Soil	0.7	26.5	11.5	88	0.1	18.6	10.6	370	2.73	6.5	1.1	1.9	7.2	37	0.3	0.6	0.2	56	0.57	0.056
ROS 160339	Soil	0.7	10.8	6.6	58	<0.1	11.8	6.9	233	2.54	6.8	0.4	3.4	1.8	15	0.2	0.3	0.1	63	0.23	0.069
ROS 165999	Soil	0.8	40.8	12.6	61	0.1	28.5	10.3	327	2.78	12.2	0.6	3.1	6.9	37	<0.1	0.8	0.2	62	0.44	0.028

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173471	Soil	19	26	0.55	317	0.079	2	1.54	0.030	0.08	0.2	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173474	Soil	28	33	0.54	191	0.092	1	1.75	0.014	0.18	0.2	0.08	6.2	<0.1	<0.05	6	<0.5	<0.2
ROS 164288	Soil	9	18	0.28	120	0.054	<1	1.12	0.014	0.04	0.2	0.04	2.0	<0.1	0.05	4	0.6	<0.2
ROS 147044	Soil	14	29	0.44	235	0.066	2	1.29	0.022	0.07	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 147047	Soil	16	18	0.37	235	0.047	2	1.50	0.012	0.12	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173480	Soil	155	14	0.53	175	0.026	2	1.78	0.015	0.23	0.3	0.12	4.1	<0.1	<0.05	8	0.7	<0.2
ROS 151816	Soil	15	23	0.54	415	0.057	3	1.08	0.032	0.08	0.3	0.08	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 173204	Soil	11	22	0.37	298	0.032	2	1.45	0.011	0.10	0.2	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
ROS 173200	Soil	14	24	0.49	277	0.058	1	1.36	0.025	0.05	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173194	Soil	20	24	0.47	362	0.047	3	1.33	0.022	0.07	0.2	0.07	3.2	<0.1	<0.05	4	<0.5	0.2
ROS 151817	Soil	23	8	0.37	297	0.004	1	1.18	0.013	0.11	<0.1	0.11	1.6	<0.1	<0.05	3	<0.5	<0.2
ROS 173198	Soil	13	26	0.53	305	0.067	2	1.42	0.026	0.08	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 173195	Soil	17	30	0.58	293	0.071	1	1.63	0.025	0.06	0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173197	Soil	12	27	0.51	300	0.066	2	1.42	0.026	0.06	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173002	Soil	40	18	0.51	161	0.049	1	1.34	0.016	0.15	0.2	0.20	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173202	Soil	9	30	0.41	324	0.059	1	1.57	0.015	0.08	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173199	Soil	18	26	0.53	286	0.063	1	1.56	0.025	0.06	0.2	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173205	Soil	15	24	0.60	335	0.067	3	1.40	0.025	0.12	0.2	0.05	3.1	<0.1	<0.05	4	1.0	0.4
ROS 151815	Soil	17	25	0.70	297	0.058	2	1.21	0.030	0.09	0.2	0.07	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173203	Soil	9	36	0.59	297	0.052	1	2.11	0.014	0.07	0.2	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 173201	Soil	9	16	0.29	176	0.053	<1	1.08	0.011	0.15	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 173196	Soil	15	33	0.59	226	0.088	1	1.63	0.027	0.09	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 140570	Soil	6	19	1.07	137	0.217	<1	2.70	0.012	0.16	0.1	0.03	2.7	0.1	<0.05	10	<0.5	<0.2
ROS 141710	Soil	13	29	0.71	154	0.110	<1	1.95	0.016	0.08	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
ROS 160118	Soil	36	35	0.83	256	0.123	19	2.40	0.038	0.66	0.1	0.03	4.5	0.3	0.31	8	0.8	0.6
ROS 163690	Soil	9	18	0.74	213	0.141	<1	1.97	0.026	0.32	<0.1	0.02	3.7	0.1	<0.05	7	<0.5	<0.2
ROS 141714	Soil	17	27	0.59	176	0.106	<1	1.58	0.019	0.06	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 141713	Soil	25	29	0.59	244	0.101	<1	1.99	0.020	0.06	0.2	0.06	4.5	<0.1	<0.05	7	<0.5	<0.2
ROS 160339	Soil	9	20	0.43	113	0.066	1	1.28	0.015	0.06	0.2	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165999	Soil	25	34	0.63	255	0.081	1	1.56	0.024	0.08	0.2	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 141715	Soil	0.9	29.1	10.6	66	<0.1	21.4	9.6	335	2.63	7.9	1.0	3.2	5.7	37	0.2	0.7	0.1	59	0.43	0.050
ROS 141712	Soil	0.7	20.5	8.9	77	<0.1	15.8	9.6	358	2.57	7.5	1.3	1.2	5.5	37	0.2	0.5	0.2	56	0.44	0.059
ROS 160338	Soil	0.7	10.4	6.0	49	<0.1	9.8	5.1	169	2.22	5.3	0.5	2.1	1.2	15	0.1	0.2	0.1	53	0.21	0.062
ROS 164281	Soil	0.9	23.6	5.9	66	<0.1	9.5	8.6	242	2.74	4.9	0.8	0.6	1.7	17	0.2	0.3	0.1	72	0.28	0.071
ROS 140572	Soil	1.2	25.3	14.2	83	<0.1	12.7	8.7	315	3.26	10.2	0.7	11.3	5.6	31	<0.1	0.8	0.1	67	0.18	0.027
ROS 141711	Soil	0.7	24.1	8.9	90	0.1	15.3	9.9	430	2.86	7.6	1.6	2.0	5.8	49	0.2	0.5	0.1	63	0.58	0.073
ROS 160332	Soil	0.8	14.5	6.7	61	<0.1	10.3	4.8	135	2.04	4.6	0.6	6.5	1.4	19	0.1	0.3	0.1	43	0.20	0.044
ROS 165997	Soil	1.7	32.2	12.9	121	0.2	24.2	16.6	789	4.04	9.2	1.2	0.6	6.4	44	<0.1	2.9	0.2	87	0.57	0.076
ROS 164480	Soil	1.0	29.3	18.7	73	<0.1	13.2	9.7	444	2.83	4.4	1.9	<0.5	19.6	26	0.1	0.5	0.3	46	0.35	0.060
ROS 164474	Soil	5.0	9.1	5.0	71	<0.1	7.4	5.9	526	2.80	8.1	1.2	<0.5	11.2	12	<0.1	0.2	0.1	32	0.18	0.044
ROS 164131	Soil	1.2	18.3	8.8	97	0.1	9.0	8.1	320	2.38	4.4	1.6	1.7	7.7	31	0.2	0.2	0.2	46	0.27	0.043
ROS 164125	Soil	1.6	17.5	6.8	157	<0.1	8.4	9.5	599	3.58	3.7	1.3	<0.5	9.5	38	0.1	0.2	0.1	71	0.13	0.024
ROS 164476	Soil	1.2	20.7	16.9	107	<0.1	9.6	12.1	806	3.78	2.5	2.9	<0.5	31.0	17	0.1	0.4	0.5	48	0.27	0.047
ROS 164472	Soil	0.6	10.5	2.9	54	<0.1	5.9	4.7	432	2.32	2.1	1.0	1.1	17.4	10	<0.1	0.2	0.1	24	0.17	0.035
ROS 164130	Soil	1.8	29.4	21.9	233	<0.1	6.7	11.8	610	3.84	2.0	2.7	0.8	14.0	29	0.3	0.1	0.3	61	0.25	0.050
ROS 164126	Soil	1.1	19.0	5.5	92	<0.1	9.2	9.9	429	2.73	3.1	1.1	1.3	7.7	51	<0.1	0.2	0.1	55	0.20	0.020
ROS 164475	Soil	0.4	7.9	4.5	60	<0.1	5.1	5.9	518	2.58	1.9	1.1	<0.5	15.2	14	<0.1	0.2	<0.1	32	0.24	0.046
ROS 164473	Soil	1.0	7.1	6.8	74	<0.1	4.7	6.4	651	2.54	2.0	0.9	0.5	17.1	12	<0.1	0.2	0.1	28	0.21	0.060
ROS 164129	Soil	1.9	24.6	6.3	79	<0.1	9.9	9.8	390	2.88	4.0	2.3	0.7	10.7	51	<0.1	0.2	0.2	56	0.26	0.029
ROS 164127	Soil	1.5	16.4	5.8	68	0.2	9.0	7.4	340	2.47	3.6	1.1	1.3	6.5	37	<0.1	0.2	0.1	53	0.16	0.021
ROS 164477	Soil	1.4	13.0	10.1	57	<0.1	15.0	9.8	686	2.42	5.0	0.5	13.5	3.0	20	<0.1	0.4	0.2	58	0.26	0.018
ROS 164478	Soil	1.1	55.4	15.4	98	<0.1	16.8	14.3	874	4.23	7.8	1.9	0.7	19.1	26	<0.1	0.7	0.3	57	0.38	0.057
ROS 164128	Soil	1.4	16.4	8.3	61	<0.1	11.6	7.1	279	2.46	4.6	1.2	2.8	6.0	37	<0.1	0.2	0.1	54	0.21	0.022
ROS 164124	Soil	1.5	10.0	6.7	60	0.1	9.4	5.9	324	2.92	4.6	1.1	<0.5	6.0	24	0.2	0.2	0.2	55	0.19	0.092
ROS 164333	Soil	0.5	15.2	7.2	64	0.2	12.8	5.4	130	2.24	4.8	0.8	3.1	2.1	20	0.1	0.2	0.2	42	0.23	0.047
ROS 164009	Soil	0.8	16.6	6.6	88	0.1	9.8	6.9	268	3.10	3.9	0.5	1.1	2.0	15	0.1	0.2	0.1	63	0.24	0.060
ROS 160463	Soil	0.7	22.5	5.7	68	0.1	17.7	8.8	225	2.65	4.7	0.8	3.8	2.5	21	0.2	0.3	0.1	58	0.33	0.061
ROS 160136	Soil	3.7	103.9	10.4	145	0.3	28.4	9.9	262	3.03	3.4	1.2	2.9	3.9	22	0.4	0.2	0.2	72	0.24	0.052
ROS 164010	Soil	0.8	14.8	6.8	62	<0.1	18.5	9.0	347	2.51	7.1	0.5	3.8	2.2	23	0.2	0.4	0.1	56	0.32	0.053
ROS 164330	Soil	1.1	27.2	5.8	66	<0.1	15.1	11.9	345	3.27	6.0	0.7	7.9	3.6	24	<0.1	0.3	0.1	87	0.33	0.055

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 141715	Soil	21	32	0.57	274	0.079	1	1.73	0.021	0.06	0.2	0.04	4.2	<0.1	<0.05	6	<0.5	0.2
ROS 141712	Soil	16	27	0.57	247	0.090	1	1.65	0.017	0.06	0.2	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 160338	Soil	8	19	0.37	112	0.059	<1	1.05	0.016	0.05	0.2	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164281	Soil	11	17	0.57	213	0.121	<1	1.62	0.023	0.18	<0.1	0.03	4.0	0.1	<0.05	7	<0.5	<0.2
ROS 140572	Soil	8	22	0.71	128	0.124	<1	2.11	0.011	0.08	0.2	0.02	2.3	0.1	<0.05	9	<0.5	<0.2
ROS 141711	Soil	18	31	0.70	244	0.099	1	1.98	0.018	0.06	0.1	0.05	4.0	<0.1	<0.05	8	<0.5	<0.2
ROS 160332	Soil	9	19	0.43	127	0.075	1	1.40	0.017	0.06	<0.1	0.04	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 165997	Soil	25	58	1.17	381	0.085	1	2.42	0.014	0.14	0.2	0.09	7.8	<0.1	<0.05	10	<0.5	<0.2
ROS 164480	Soil	43	20	0.52	185	0.101	<1	1.47	0.016	0.28	0.3	0.02	3.9	0.3	<0.05	6	<0.5	<0.2
ROS 164474	Soil	13	12	0.57	118	0.077	<1	1.39	0.013	0.38	0.2	<0.01	2.7	0.1	0.06	6	<0.5	<0.2
ROS 164131	Soil	20	17	0.59	262	0.103	<1	1.44	0.013	0.28	0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
ROS 164125	Soil	10	14	0.91	332	0.184	<1	2.24	0.010	0.78	0.1	<0.01	4.7	0.6	<0.05	10	<0.5	<0.2
ROS 164476	Soil	20	16	0.66	153	0.079	<1	1.97	0.009	0.45	<0.1	0.02	4.1	0.4	<0.05	10	0.5	<0.2
ROS 164472	Soil	33	6	0.39	97	0.057	<1	0.97	0.007	0.26	<0.1	<0.01	4.1	0.1	<0.05	5	0.5	<0.2
ROS 164130	Soil	36	11	1.14	250	0.211	<1	2.52	0.013	1.16	<0.1	0.01	4.8	0.6	<0.05	10	<0.5	<0.2
ROS 164126	Soil	21	16	0.70	416	0.149	<1	1.77	0.011	0.56	<0.1	0.01	3.3	0.3	<0.05	7	<0.5	<0.2
ROS 164475	Soil	39	8	0.57	94	0.075	<1	1.35	0.010	0.51	<0.1	0.01	3.7	0.2	<0.05	7	0.6	<0.2
ROS 164473	Soil	22	7	0.45	127	0.080	<1	1.39	0.009	0.55	<0.1	<0.01	3.8	0.3	<0.05	7	<0.5	<0.2
ROS 164129	Soil	27	18	0.76	345	0.143	<1	1.80	0.028	0.53	<0.1	0.01	4.6	0.3	<0.05	7	<0.5	<0.2
ROS 164127	Soil	16	15	0.58	326	0.126	<1	1.54	0.012	0.37	0.2	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
ROS 164477	Soil	8	27	0.34	262	0.050	<1	1.62	0.011	0.06	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164478	Soil	21	23	0.79	202	0.030	<1	2.07	0.011	0.08	0.2	0.02	6.7	<0.1	<0.05	8	0.5	<0.2
ROS 164128	Soil	19	19	0.60	278	0.126	<1	1.65	0.013	0.24	<0.1	0.02	2.7	0.2	<0.05	5	<0.5	0.2
ROS 164124	Soil	15	16	0.63	293	0.135	<1	1.53	0.013	0.55	0.1	0.01	2.6	0.3	<0.05	8	<0.5	<0.2
ROS 164333	Soil	15	23	0.43	147	0.070	<1	1.60	0.015	0.07	0.1	0.05	3.2	<0.1	<0.05	6	0.6	<0.2
ROS 164009	Soil	12	17	0.74	159	0.095	<1	1.86	0.016	0.22	0.1	0.05	4.9	<0.1	<0.05	8	<0.5	0.2
ROS 160463	Soil	11	31	0.64	233	0.085	<1	1.78	0.020	0.12	0.2	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 160136	Soil	19	31	0.77	200	0.127	<1	1.92	0.017	0.31	<0.1	0.03	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 164010	Soil	11	26	0.49	207	0.069	1	1.55	0.020	0.06	0.2	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164330	Soil	12	26	0.68	172	0.129	<1	1.99	0.026	0.18	<0.1	<0.01	4.4	0.1	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160461	Soil		0.8	19.9	6.7	64	0.1	21.5	8.1	177	2.54	5.5	0.8	3.2	1.9	20	0.2	0.3	0.1	57	0.29	0.060
ROS 160132	Soil		1.3	26.4	11.3	90	0.2	19.8	6.2	143	2.24	5.2	1.0	3.1	1.7	23	0.3	0.1	0.2	52	0.17	0.048
ROS 164012	Soil		0.6	9.8	5.3	42	<0.1	12.4	5.5	125	1.80	4.1	0.5	5.1	1.4	16	<0.1	0.2	0.1	43	0.24	0.047
ROS 164326	Soil		0.9	25.8	9.0	74	<0.1	25.9	11.5	371	2.96	9.1	0.7	3.2	3.4	27	<0.1	0.5	0.1	74	0.29	0.033
ROS 160443	Soil		1.0	31.3	9.8	71	<0.1	12.9	8.4	222	3.12	6.6	0.7	2.8	1.3	16	0.1	0.3	0.2	76	0.22	0.059
ROS 160134	Soil		2.0	152.0	8.4	106	0.2	22.7	9.1	280	3.43	3.2	1.1	1.1	4.1	26	0.3	0.2	0.2	91	0.24	0.052
ROS 164011	Soil		0.8	13.5	7.0	62	<0.1	16.9	7.2	189	2.27	6.1	0.5	2.6	1.9	22	0.1	0.3	0.1	53	0.30	0.055
ROS 164008	Soil		1.2	36.9	7.5	108	0.2	12.8	13.9	530	4.01	5.0	0.8	3.6	2.2	24	0.2	0.3	0.2	85	0.26	0.065
ROS 160133	Soil		1.3	39.6	10.5	87	0.3	20.8	6.7	160	2.54	4.7	1.1	1.7	1.3	23	0.3	0.2	0.1	59	0.20	0.053
ROS 160141	Soil		1.3	41.0	9.0	115	0.2	32.4	13.1	438	3.11	4.6	1.1	3.6	4.0	23	0.3	0.2	0.2	69	0.40	0.071
ROS 160140	Soil		1.6	32.1	7.6	92	0.2	25.5	12.0	458	3.09	5.0	1.1	2.1	4.4	25	0.3	0.2	0.1	65	0.36	0.063
ROS 164466	Soil		0.5	7.5	7.4	60	<0.1	6.7	3.6	512	1.62	3.1	0.4	<0.5	1.8	14	<0.1	0.4	<0.1	29	0.21	0.018
ROS 164456	Soil		1.5	14.9	12.5	69	<0.1	18.9	9.5	463	3.55	9.4	1.9	0.9	19.1	8	0.1	0.6	0.3	56	0.08	0.025
ROS 164458	Soil		0.8	26.3	6.6	60	<0.1	19.0	7.4	377	2.69	5.9	1.3	2.9	10.5	18	<0.1	0.5	0.2	48	0.20	0.019
ROS 160137	Soil		2.6	75.0	12.9	156	0.3	25.4	9.9	280	2.92	2.5	1.0	9.2	4.1	23	0.4	0.1	0.2	66	0.23	0.049
ROS 164467	Soil		1.5	14.4	7.0	46	<0.1	10.4	6.2	330	2.25	6.1	1.4	2.1	10.7	13	<0.1	0.4	0.2	38	0.13	0.027
ROS 164461	Soil		0.8	9.4	5.7	78	<0.1	7.6	9.1	592	3.57	4.3	1.1	0.8	8.7	17	<0.1	0.3	<0.1	42	0.26	0.062
ROS 164457	Soil		2.4	13.7	8.0	67	<0.1	5.0	5.9	404	3.00	3.2	2.1	0.7	18.1	5	<0.1	0.5	0.4	35	0.05	0.018
ROS 160139	Soil		1.3	20.4	7.4	74	0.2	17.3	9.7	375	2.52	5.4	1.1	6.9	5.1	24	0.2	0.3	0.2	55	0.34	0.061
ROS 164464	Soil		0.3	10.5	7.9	207	<0.1	11.0	9.0	759	4.08	4.4	0.6	<0.5	2.5	21	<0.1	0.3	0.2	91	0.28	0.090
ROS 164462	Soil		1.1	25.5	8.5	112	<0.1	14.5	15.5	783	3.91	4.6	1.5	4.6	9.7	21	<0.1	0.3	0.2	64	0.31	0.033
ROS 164459	Soil		0.7	8.7	5.4	58	<0.1	4.7	4.7	316	1.98	3.5	1.8	0.7	15.2	8	<0.1	0.2	<0.1	24	0.10	0.031
ROS 160138	Soil		1.2	57.4	9.6	96	0.2	16.9	6.4	168	2.31	3.6	1.1	5.9	2.8	23	0.2	0.2	0.2	54	0.18	0.044
ROS 164465	Soil		0.3	6.0	8.2	265	<0.1	9.0	8.8	595	4.34	4.9	0.4	0.6	1.7	13	<0.1	0.2	<0.1	87	0.16	0.056
ROS 164463	Soil		1.7	17.4	4.3	58	<0.1	11.6	7.8	518	2.83	5.3	0.8	2.0	13.0	14	<0.1	0.3	<0.1	41	0.19	0.060
ROS 164460	Soil		0.9	31.7	7.7	74	<0.1	15.0	8.5	561	3.09	8.0	1.0	6.8	8.9	16	<0.1	0.5	1.4	53	0.17	0.045
ROS 163816	Soil		1.8	51.6	9.9	67	0.2	10.7	7.7	589	3.10	8.6	1.4	2.9	12.8	21	0.2	0.4	0.2	66	0.07	0.045
ROS 164933	Soil		1.0	25.9	7.6	119	<0.1	11.1	6.8	581	3.22	6.0	0.8	0.7	8.3	16	0.2	0.3	0.1	73	0.17	0.033
ROS 164004	Soil		1.5	23.5	6.6	42	<0.1	9.1	9.1	259	2.96	4.8	0.7	1.3	2.7	16	0.1	0.3	0.1	75	0.19	0.040
ROS 164005	Soil		1.1	25.2	7.8	46	0.1	11.8	7.0	222	2.71	5.5	1.1	28.2	3.1	29	0.1	0.4	0.2	57	0.25	0.061

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160461	Soil	12	36	0.55	204	0.077	<1	1.71	0.016	0.07	0.2	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160132	Soil	12	37	0.58	179	0.081	<1	1.61	0.011	0.13	<0.1	0.03	2.7	0.1	<0.05	6	0.8	<0.2
ROS 164012	Soil	9	22	0.38	112	0.071	<1	1.26	0.014	0.05	0.4	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164326	Soil	15	35	0.64	247	0.089	<1	1.97	0.016	0.06	0.1	0.04	4.9	<0.1	<0.05	7	<0.5	<0.2
ROS 160443	Soil	10	27	0.55	164	0.092	1	1.88	0.020	0.08	0.1	0.02	3.3	0.1	<0.05	8	<0.5	<0.2
ROS 160134	Soil	18	27	0.78	262	0.145	<1	1.82	0.022	0.43	<0.1	0.02	3.9	0.3	<0.05	7	0.8	<0.2
ROS 164011	Soil	10	26	0.48	193	0.067	<1	1.53	0.016	0.07	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164008	Soil	18	20	0.83	214	0.111	<1	2.14	0.019	0.28	<0.1	0.02	5.8	0.1	<0.05	8	<0.5	<0.2
ROS 160133	Soil	11	30	0.54	185	0.091	1	1.60	0.016	0.13	0.1	0.03	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 160141	Soil	19	32	0.76	218	0.128	<1	1.77	0.021	0.31	0.2	0.02	4.0	0.2	<0.05	6	<0.5	0.3
ROS 160140	Soil	18	31	0.69	228	0.120	<1	1.83	0.025	0.19	0.2	0.02	3.7	0.2	<0.05	6	<0.5	0.2
ROS 164466	Soil	5	12	0.21	189	0.010	<1	1.21	0.006	0.11	0.1	0.04	1.7	<0.1	<0.05	4	<0.5	<0.2
ROS 164456	Soil	8	30	0.34	143	0.035	<1	2.21	0.008	0.10	0.3	0.02	7.2	<0.1	<0.05	6	<0.5	0.2
ROS 164458	Soil	28	28	0.51	161	0.089	<1	1.45	0.017	0.13	0.1	0.03	6.6	<0.1	<0.05	5	<0.5	<0.2
ROS 160137	Soil	18	32	0.73	188	0.117	<1	1.88	0.015	0.28	<0.1	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 164467	Soil	17	20	0.44	199	0.047	1	1.34	0.009	0.14	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164461	Soil	26	10	0.72	147	0.178	1	1.80	0.008	0.77	0.2	<0.01	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 164457	Soil	10	9	0.35	72	0.086	<1	1.28	0.007	0.20	0.4	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 160139	Soil	26	23	0.58	196	0.085	1	1.43	0.019	0.10	0.3	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164464	Soil	7	17	1.28	232	0.187	<1	2.31	0.008	1.14	<0.1	<0.01	3.1	0.5	<0.05	14	<0.5	<0.2
ROS 164462	Soil	43	31	1.24	269	0.182	<1	2.16	0.016	0.53	0.1	0.02	7.1	0.3	<0.05	8	<0.5	<0.2
ROS 164459	Soil	10	8	0.13	65	0.013	<1	0.66	0.010	0.07	0.5	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
ROS 160138	Soil	15	27	0.58	154	0.101	<1	1.53	0.015	0.13	0.1	0.04	2.7	0.2	<0.05	5	<0.5	<0.2
ROS 164465	Soil	3	16	1.31	271	0.181	<1	2.37	0.009	1.15	<0.1	<0.01	2.2	0.5	<0.05	15	<0.5	<0.2
ROS 164463	Soil	21	16	0.79	151	0.154	<1	1.69	0.009	0.59	0.1	0.01	4.9	0.2	<0.05	8	<0.5	<0.2
ROS 164460	Soil	14	25	0.56	178	0.113	<1	1.89	0.011	0.32	0.1	0.01	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 163816	Soil	22	24	0.55	155	0.094	<1	1.84	0.014	0.31	0.1	0.02	3.2	0.2	0.11	7	<0.5	<0.2
ROS 164933	Soil	9	18	1.25	160	0.181	<1	2.36	0.010	0.43	0.1	0.01	6.1	0.3	<0.05	10	<0.5	<0.2
ROS 164004	Soil	17	16	0.50	98	0.103	<1	1.50	0.021	0.13	<0.1	0.01	4.2	0.1	<0.05	7	<0.5	<0.2
ROS 164005	Soil	21	21	0.44	222	0.078	<1	1.61	0.016	0.09	0.1	0.03	4.2	<0.1	<0.05	6	0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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WHI10000589.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163814	Soil		1.0	28.8	10.2	134	<0.1	8.2	13.5	755	4.94	5.2	0.4	1.0	2.0	66	<0.1	0.3	<0.1	128	0.16	0.037
ROS 164935	Soil		0.3	7.8	6.3	87	<0.1	7.0	6.7	728	2.81	4.1	1.3	0.8	19.1	26	<0.1	0.2	<0.1	56	0.31	0.048
ROS 164003	Soil		1.2	34.6	8.6	55	<0.1	21.5	14.6	314	3.43	10.4	0.6	1.3	3.6	18	<0.1	0.6	0.2	83	0.17	0.022
ROS 164343	Soil		1.2	35.3	4.8	47	0.1	20.9	16.1	467	2.52	5.3	0.5	1.3	1.7	19	<0.1	0.2	0.1	65	0.30	0.061
ROS 163815	Soil		1.2	17.9	8.8	107	<0.1	10.8	10.5	862	3.09	7.9	0.5	0.9	2.9	32	0.1	0.4	0.2	74	0.21	0.063
ROS 164934	Soil		1.1	25.1	8.2	112	<0.1	13.8	7.3	506	3.28	7.2	0.7	1.2	7.4	16	0.2	0.4	0.1	74	0.16	0.036
ROS 164006	Soil		0.7	20.8	7.1	63	<0.1	15.0	8.0	282	2.66	6.3	1.0	2.3	5.6	20	0.1	0.5	0.1	54	0.25	0.054
ROS 164002	Soil		1.0	20.8	7.6	51	<0.1	17.6	10.5	355	3.08	9.1	1.3	1.7	8.4	21	<0.1	0.5	0.1	56	0.20	0.030
ROS 163817	Soil		1.5	23.8	28.7	193	<0.1	17.3	8.7	648	2.32	6.2	0.5	0.6	2.7	13	2.1	0.3	0.2	45	0.16	0.073
ROS 164936	Soil		0.3	7.6	6.3	88	<0.1	6.7	6.6	738	2.84	3.9	1.3	<0.5	19.7	26	<0.1	0.2	<0.1	56	0.32	0.049
ROS 164007	Soil		1.5	49.7	12.9	125	0.3	13.5	9.0	402	3.86	5.6	0.7	2.5	3.2	43	0.2	0.4	0.2	73	0.27	0.061
ROS 134344	Soil		1.5	32.5	6.1	42	0.1	16.8	10.7	201	2.23	4.9	0.6	1.7	1.5	23	<0.1	0.3	0.1	62	0.29	0.045
ROS 147222	Soil		0.9	41.9	16.8	95	<0.1	11.3	10.4	413	3.30	6.3	2.0	1.8	23.6	31	<0.1	1.1	0.1	47	0.25	0.032
ROS 147224	Soil		0.5	15.1	5.6	81	<0.1	16.1	10.8	482	2.76	4.5	0.6	0.9	2.2	25	<0.1	0.4	0.1	55	0.24	0.037
ROS 165946	Soil		1.1	43.1	10.5	54	0.1	28.8	9.9	313	2.68	11.8	1.1	7.6	9.9	29	<0.1	1.1	0.1	64	0.42	0.020
ROS 164928	Soil		0.7	32.9	6.8	162	<0.1	11.3	8.3	641	2.75	3.7	1.5	2.2	9.2	39	0.2	0.2	<0.1	66	0.56	0.081
ROS 147230	Soil		0.7	24.4	8.8	97	<0.1	14.8	8.8	527	3.21	6.7	2.3	16.5	24.2	26	<0.1	0.6	0.2	47	0.26	0.056
ROS 146144	Soil		0.9	42.5	9.6	75	0.1	29.0	10.4	458	2.82	10.3	1.0	3.8	5.0	52	0.2	0.9	0.2	59	0.81	0.059
ROS 165947	Soil		0.7	41.8	7.8	48	0.2	26.2	9.3	347	2.28	11.9	0.7	6.0	4.3	96	0.2	0.8	0.1	55	4.31	0.066
ROS 164930	Soil		0.9	29.9	8.8	86	<0.1	16.3	10.6	539	3.35	8.9	1.6	2.3	10.8	39	<0.1	0.5	0.1	62	0.42	0.038
ROS 147231	Soil		0.5	19.4	8.4	92	<0.1	10.8	8.0	478	2.34	4.4	1.6	5.2	8.6	62	<0.1	0.8	<0.1	42	0.52	0.104
ROS 165953	Soil		0.9	29.8	9.9	87	0.1	17.5	11.8	680	3.30	4.0	1.3	2.7	10.0	21	0.1	0.9	0.2	61	0.34	0.035
ROS 165945	Soil		1.3	17.2	11.6	61	0.3	21.7	10.3	544	2.80	6.9	0.7	1.4	8.2	25	0.1	0.8	0.2	58	0.51	0.031
ROS 159026	Soil		1.1	20.6	8.6	52	0.1	17.1	9.1	453	2.67	6.7	1.0	1.2	5.4	24	0.1	0.3	0.1	61	0.37	0.039
ROS 146143	Soil		0.6	42.8	9.5	62	0.2	27.9	8.5	393	2.65	7.4	1.7	3.5	4.8	41	0.1	0.9	0.2	54	0.78	0.050
ROS 146149	Soil		0.8	16.7	9.2	62	<0.1	17.7	9.3	553	2.96	5.9	1.3	3.2	8.5	24	0.1	0.5	0.2	67	0.30	0.023
ROS 165954	Soil		0.8	37.8	8.6	58	0.2	27.9	10.6	471	2.57	8.1	0.6	4.1	3.1	61	<0.1	0.7	0.1	56	1.89	0.057
ROS 160249	Soil		1.0	23.6	7.5	92	<0.1	24.3	10.3	315	3.20	4.3	1.0	1.7	8.2	18	0.1	0.2	0.2	51	0.13	0.022
ROS 164258	Soil		0.8	28.4	7.7	59	<0.1	17.5	7.5	237	2.68	7.2	0.7	2.2	2.2	16	<0.1	0.3	0.1	56	0.20	0.063
ROS 164190	Soil		2.9	36.8	7.5	72	0.9	13.3	18.8	734	3.37	4.1	5.1	2.2	6.4	45	0.1	0.2	0.2	70	0.41	0.094

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000589.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 163814	Soil	7	15	1.42	391	0.236	<1	3.16	0.015	1.14	<0.1	<0.01	2.7	0.3	0.11	10	<0.5	<0.2
ROS 164935	Soil	50	14	1.48	110	0.178	<1	2.37	0.012	0.60	<0.1	<0.01	5.7	0.3	<0.05	10	<0.5	<0.2
ROS 164003	Soil	9	33	0.62	225	0.098	<1	2.71	0.018	0.05	0.1	0.02	4.3	0.1	<0.05	6	0.6	<0.2
ROS 164343	Soil	7	39	0.73	165	0.099	<1	1.64	0.021	0.15	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163815	Soil	7	21	0.78	206	0.115	<1	2.32	0.013	0.44	0.1	0.02	2.8	0.2	<0.05	9	<0.5	<0.2
ROS 164934	Soil	10	21	1.11	156	0.169	1	2.44	0.010	0.31	0.1	0.01	5.4	0.2	<0.05	10	<0.5	<0.2
ROS 164006	Soil	25	25	0.52	153	0.108	<1	1.68	0.017	0.11	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164002	Soil	23	27	0.62	222	0.114	<1	2.08	0.012	0.11	0.1	0.02	4.3	0.1	<0.05	6	0.5	<0.2
ROS 163817	Soil	6	25	0.66	150	0.059	<1	1.69	0.012	0.05	0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 164936	Soil	53	13	1.47	112	0.176	<1	2.37	0.013	0.61	<0.1	<0.01	5.9	0.2	<0.05	10	<0.5	<0.2
ROS 164007	Soil	18	22	0.83	347	0.134	<1	2.10	0.020	0.39	0.1	0.02	6.9	0.1	<0.05	8	0.6	0.3
ROS 134344	Soil	9	27	0.57	163	0.082	1	1.66	0.023	0.05	0.4	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147222	Soil	55	17	0.82	65	0.115	<1	1.89	0.009	0.22	0.4	0.09	2.8	0.3	<0.05	8	<0.5	<0.2
ROS 147224	Soil	9	28	0.84	154	0.142	<1	1.81	0.010	0.45	0.1	<0.01	2.4	0.2	<0.05	6	<0.5	<0.2
ROS 165946	Soil	30	36	0.53	202	0.094	2	1.63	0.019	0.08	0.2	0.05	5.6	<0.1	<0.05	5	<0.5	<0.2
ROS 164928	Soil	22	16	1.24	184	0.167	<1	2.12	0.015	0.44	0.1	0.02	5.4	0.2	<0.05	8	<0.5	<0.2
ROS 147230	Soil	40	26	0.66	168	0.092	<1	1.76	0.015	0.44	0.4	0.05	4.0	0.2	<0.05	8	0.5	<0.2
ROS 146144	Soil	19	31	0.70	337	0.087	3	1.76	0.042	0.09	0.2	0.05	4.4	<0.1	<0.05	5	0.5	<0.2
ROS 165947	Soil	15	27	0.68	288	0.079	2	1.29	0.037	0.07	0.2	0.06	3.4	<0.1	0.05	4	0.6	<0.2
ROS 164930	Soil	32	23	0.89	271	0.162	<1	2.01	0.024	0.35	0.1	0.02	5.0	0.2	<0.05	7	<0.5	<0.2
ROS 147231	Soil	20	19	0.57	143	0.118	<1	1.44	0.016	0.23	0.2	0.05	2.8	0.1	<0.05	7	<0.5	<0.2
ROS 165953	Soil	19	29	0.84	144	0.113	1	1.82	0.009	0.42	0.1	0.06	5.9	0.2	<0.05	8	<0.5	<0.2
ROS 165945	Soil	23	37	0.45	340	0.053	1	2.03	0.008	0.13	0.2	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 159026	Soil	16	29	0.64	230	0.077	1	1.76	0.015	0.06	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 146143	Soil	20	28	0.57	301	0.059	2	1.68	0.025	0.07	0.1	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 146149	Soil	39	25	0.51	187	0.071	1	1.77	0.010	0.10	0.2	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2
ROS 165954	Soil	13	30	0.60	270	0.067	2	1.54	0.024	0.09	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160249	Soil	16	32	0.88	249	0.157	<1	1.92	0.009	0.45	<0.1	0.01	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 164258	Soil	13	27	0.47	204	0.066	<1	1.75	0.010	0.07	0.2	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164190	Soil	74	21	0.67	239	0.090	1	2.63	0.019	0.32	0.2	0.10	5.6	0.2	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164193	Soil		0.8	80.8	9.8	76	0.1	187.6	26.1	529	3.71	5.0	2.2	2.1	5.7	84	0.2	0.3	<0.1	103	0.73	0.137
ROS 164786	Soil		0.4	12.6	7.4	41	0.1	9.8	4.0	102	1.56	4.6	1.1	4.3	1.8	22	0.1	0.2	0.2	29	0.19	0.048
ROS 164260	Soil		1.0	23.3	5.5	69	<0.1	12.8	9.0	309	2.68	4.4	0.8	1.2	2.8	29	0.2	0.3	<0.1	69	0.34	0.042
ROS 164192	Soil		0.8	32.3	7.3	68	0.2	63.3	10.6	248	2.63	4.2	2.1	3.0	4.0	35	<0.1	0.2	<0.1	61	0.37	0.078
ROS 164191	Soil		1.4	30.8	6.8	68	0.7	10.6	8.7	262	2.68	2.8	3.2	0.9	4.2	39	0.2	0.1	0.1	49	0.34	0.069
ROS 164784	Soil		0.7	11.0	6.5	45	0.1	7.7	3.6	112	1.61	2.9	1.1	2.2	2.4	22	0.1	0.2	0.2	27	0.16	0.039
ROS 164261	Soil		2.0	40.2	6.3	64	0.1	15.3	19.3	518	3.33	5.5	0.8	1.7	3.4	28	0.1	0.3	0.1	88	0.34	0.046
ROS 164189	Soil		1.3	20.0	6.0	48	0.2	10.3	6.6	272	2.65	4.6	2.1	1.9	6.1	23	<0.1	0.2	0.1	61	0.25	0.036
ROS 164194	Soil		0.5	134.1	11.2	79	0.1	326.7	39.6	758	4.53	3.8	2.6	2.7	6.8	156	0.1	0.3	<0.1	134	1.03	0.218
ROS 164803	Soil		1.1	11.6	8.0	109	<0.1	10.5	7.2	313	2.87	6.5	0.4	<0.5	3.7	10	0.3	0.4	0.1	65	0.11	0.033
ROS 164001	Soil		0.9	23.0	6.8	77	0.1	17.8	18.0	432	4.51	8.3	0.3	1.0	1.6	12	<0.1	0.4	0.1	142	0.23	0.046
ROS 164925	Soil		1.6	28.0	8.1	47	<0.1	11.2	5.8	191	2.93	7.9	0.5	2.2	6.6	22	<0.1	0.3	0.3	55	0.09	0.029
ROS 164787	Soil		0.5	9.3	6.0	42	<0.1	7.9	3.8	121	1.73	2.9	1.2	2.1	3.2	30	<0.1	0.2	0.2	31	0.17	0.042
ROS 164800	Soil		2.3	57.5	8.1	121	<0.1	10.1	8.3	541	4.66	4.7	2.1	2.5	8.5	76	<0.1	0.3	0.1	85	0.55	0.058
ROS 163569	Soil		1.1	26.0	7.5	58	<0.1	11.3	5.3	134	2.06	5.2	0.7	3.4	1.2	15	0.2	0.2	0.1	48	0.18	0.045
ROS 163568	Soil		0.8	34.3	5.4	52	0.1	8.2	3.9	98	1.78	4.3	0.8	2.3	0.6	15	0.1	0.2	0.1	25	0.16	0.072
ROS 163570	Soil		0.8	22.3	8.9	66	<0.1	10.8	5.6	155	1.80	4.1	0.6	9.9	1.7	16	0.3	0.2	0.1	48	0.21	0.037
ROS 164526	Soil		11.8	422.1	5.9	77	1.1	20.6	7.2	208	3.29	3.1	1.4	12.6	7.7	49	0.2	0.1	0.3	57	0.24	0.060
ROS 163572	Soil		1.0	17.6	11.4	86	0.2	14.0	9.8	393	2.85	4.2	1.3	0.8	4.4	20	0.1	0.2	0.1	61	0.26	0.049
ROS 164533	Soil		2.8	100.1	57.7	257	0.1	11.3	12.6	751	4.22	3.9	0.7	1.0	2.9	19	0.2	0.2	0.1	109	0.23	0.046
ROS 164530	Soil		1.1	21.4	7.4	63	<0.1	23.3	12.4	364	3.26	7.0	0.6	1.9	4.2	22	<0.1	0.4	0.1	76	0.23	0.038
ROS 164525	Soil		23.1	992.3	6.6	144	0.3	24.3	24.8	503	3.73	2.3	1.8	6.1	8.5	56	0.2	0.2	0.5	85	0.32	0.056
ROS 160251	Soil		1.3	87.2	1.5	189	<0.1	8.6	24.8	863	7.11	1.4	0.7	1.5	2.3	56	0.1	0.1	0.1	114	0.67	0.195
ROS 160230	Soil		1.2	56.6	4.2	129	<0.1	11.0	17.6	658	5.15	4.6	0.7	2.0	2.4	30	0.2	0.2	0.1	82	0.41	0.133
ROS 164529	Soil		1.1	38.1	4.1	68	<0.1	37.4	13.4	449	4.56	3.6	1.1	1.4	12.6	17	<0.1	0.2	<0.1	70	0.22	0.048
ROS 164528	Soil		1.3	38.9	4.5	70	<0.1	39.8	15.1	477	4.85	3.4	1.1	<0.5	11.9	17	<0.1	0.2	<0.1	74	0.24	0.050
ROS 160381	Soil		1.0	43.6	8.2	87	<0.1	17.0	10.1	302	2.92	5.3	0.9	2.2	3.4	21	0.2	0.2	0.2	71	0.27	0.062
ROS 164532	Soil		1.0	23.1	7.9	145	<0.1	11.8	10.6	786	4.09	5.5	0.9	1.5	5.7	15	0.1	0.3	0.1	91	0.17	0.033
ROS 164531	Soil		1.4	33.9	6.7	53	0.2	15.1	8.1	400	3.05	5.0	1.1	3.7	7.2	39	<0.1	0.3	0.2	65	0.17	0.049
ROS 164527	Soil		1.9	123.0	24.7	128	<0.1	127.0	22.0	522	3.93	4.2	1.6	<0.5	6.9	49	0.2	0.3	0.3	97	0.44	0.092

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164193	Soil	22	143	2.81	441	0.182	2	2.72	0.016	0.21	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
ROS 164786	Soil	14	20	0.28	97	0.065	1	1.22	0.010	0.07	0.2	0.03	2.0	<0.1	<0.05	4	<0.5	0.2
ROS 164260	Soil	22	20	0.56	187	0.100	<1	1.72	0.019	0.18	<0.1	0.02	3.7	0.1	<0.05	6	<0.5	0.2
ROS 164192	Soil	24	74	1.26	194	0.119	2	1.97	0.011	0.16	0.1	0.05	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 164191	Soil	58	20	0.62	214	0.093	<1	2.47	0.014	0.30	<0.1	0.07	3.7	0.2	<0.05	8	<0.5	0.2
ROS 164784	Soil	14	17	0.30	108	0.064	<1	1.17	0.010	0.07	0.2	0.03	2.0	0.1	<0.05	5	<0.5	<0.2
ROS 164261	Soil	18	23	0.65	184	0.105	<1	1.91	0.020	0.15	0.1	0.02	5.5	0.1	<0.05	7	<0.5	0.2
ROS 164189	Soil	30	21	0.59	161	0.115	1	1.64	0.011	0.26	0.1	0.03	3.5	0.2	<0.05	6	<0.5	0.2
ROS 164194	Soil	26	283	4.64	677	0.205	4	3.26	0.021	0.42	0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
ROS 164803	Soil	7	20	0.67	112	0.109	<1	2.15	0.017	0.24	0.1	0.01	3.5	0.2	<0.05	9	<0.5	<0.2
ROS 164001	Soil	6	27	0.99	247	0.166	<1	2.96	0.017	0.16	0.1	0.02	6.2	0.1	<0.05	9	<0.5	<0.2
ROS 164925	Soil	18	20	0.38	146	0.062	<1	1.62	0.021	0.16	0.1	0.01	2.0	<0.1	0.11	6	<0.5	<0.2
ROS 164787	Soil	15	18	0.33	94	0.083	<1	1.32	0.011	0.14	0.1	0.04	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 164800	Soil	29	20	1.16	325	0.147	<1	2.62	0.026	0.83	<0.1	0.02	6.2	0.3	0.20	9	1.7	<0.2
ROS 163569	Soil	10	23	0.42	103	0.070	1	1.24	0.013	0.06	0.2	0.05	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 163568	Soil	9	17	0.23	105	0.051	2	0.99	0.014	0.07	0.1	0.05	1.7	<0.1	<0.05	4	<0.5	<0.2
ROS 163570	Soil	11	21	0.45	94	0.083	<1	1.18	0.015	0.08	0.3	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164526	Soil	36	32	0.78	221	0.102	<1	2.09	0.016	0.44	<0.1	0.03	3.1	0.3	0.15	6	<0.5	0.3
ROS 163572	Soil	15	24	0.81	153	0.129	1	1.97	0.014	0.33	0.1	0.04	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 164533	Soil	7	23	1.81	176	0.227	<1	2.99	0.012	1.27	0.1	<0.01	2.8	0.6	<0.05	9	<0.5	0.4
ROS 164530	Soil	11	38	0.73	220	0.127	1	2.24	0.012	0.25	0.1	0.01	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 164525	Soil	22	18	1.34	330	0.170	<1	2.78	0.019	0.97	0.1	0.02	5.4	0.5	<0.05	7	1.1	0.5
ROS 160251	Soil	19	9	1.94	262	0.050	<1	3.00	0.034	0.13	<0.1	<0.01	12.5	<0.1	<0.05	13	<0.5	<0.2
ROS 160230	Soil	15	17	1.32	200	0.058	1	2.49	0.021	0.08	<0.1	<0.01	8.4	<0.1	<0.05	10	0.8	<0.2
ROS 164529	Soil	28	51	1.29	272	0.268	<1	2.62	0.011	1.26	<0.1	<0.01	3.9	0.6	<0.05	10	<0.5	<0.2
ROS 164528	Soil	26	56	1.35	291	0.297	<1	2.80	0.012	1.36	<0.1	<0.01	4.0	0.7	<0.05	11	<0.5	<0.2
ROS 160381	Soil	16	28	0.70	172	0.131	<1	1.86	0.018	0.27	0.2	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 164532	Soil	12	17	1.30	271	0.194	<1	2.34	0.011	1.10	0.1	<0.01	6.2	0.6	<0.05	9	<0.5	<0.2
ROS 164531	Soil	25	27	0.79	264	0.136	<1	1.56	0.021	0.61	<0.1	0.02	2.9	0.3	0.24	6	<0.5	<0.2
ROS 164527	Soil	17	127	2.05	461	0.195	1	2.22	0.013	0.71	0.1	<0.01	3.5	0.3	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
ROS 165941	Soil	0.6	30.7	44.5	129	0.2	16.7	11.5	619	3.17	5.5	1.1	<0.5	6.3	33	0.1	0.5	0.2	54	0.34	0.060
ROS 165943	Soil	1.2	37.3	11.1	75	0.1	19.4	11.6	413	2.85	58.6	1.0	3.1	7.4	24	<0.1	1.3	0.1	59	0.36	0.046
ROS 163579	Soil	1.0	15.6	10.1	62	0.1	15.3	9.1	307	2.36	6.0	1.0	2.3	4.2	18	0.2	0.3	0.2	58	0.25	0.050
ROS 163575	Soil	0.9	16.1	11.7	74	0.1	14.4	8.6	279	2.35	4.9	1.0	1.9	3.4	19	0.2	0.3	0.2	52	0.23	0.042
ROS 165940	Soil	0.5	16.8	8.9	76	<0.1	17.0	9.3	250	2.70	5.8	0.8	1.2	6.4	27	<0.1	0.8	0.1	59	0.27	0.040
ROS 165935	Soil	0.8	18.7	8.9	53	0.2	19.5	8.8	333	2.51	8.4	1.0	8.2	5.8	21	<0.1	0.6	0.2	54	0.28	0.035
ROS 163578	Soil	0.6	23.1	8.0	64	0.1	19.0	9.9	472	2.37	5.8	1.2	6.9	4.2	35	0.3	0.4	0.2	53	0.91	0.064
ROS 163574	Soil	1.4	19.9	11.0	87	0.1	12.9	21.6	1206	3.32	4.9	1.5	1.7	5.9	24	<0.1	0.2	0.1	83	0.35	0.051
ROS 165936	Soil	0.8	30.3	25.5	82	0.1	19.9	10.4	319	2.94	8.9	1.5	11.0	10.6	23	0.1	0.7	0.3	59	0.28	0.038
ROS 165937	Soil	0.4	14.3	6.8	94	<0.1	10.8	7.8	298	2.39	6.3	0.5	<0.5	3.8	21	<0.1	0.5	<0.1	53	0.30	0.071
ROS 163576	Soil	0.6	13.1	7.6	56	<0.1	12.0	5.7	158	1.94	4.5	0.7	1.8	2.1	16	0.1	0.2	0.1	44	0.19	0.042
ROS 163571	Soil	0.9	27.1	8.9	69	0.1	11.8	6.4	184	2.23	4.5	0.7	4.1	1.9	15	0.2	0.2	0.1	55	0.19	0.051
ROS 165938	Soil	0.6	22.0	18.1	113	<0.1	16.2	10.8	407	3.55	10.3	1.1	1.8	10.8	36	0.2	1.3	0.1	69	0.34	0.043
ROS 165939	Soil	0.6	17.4	19.2	98	<0.1	23.9	13.5	522	3.24	4.3	0.7	<0.5	6.0	25	<0.1	1.2	0.1	71	0.26	0.050
ROS 163577	Soil	0.8	13.7	6.8	54	<0.1	12.0	5.7	177	2.04	4.7	0.9	0.7	2.2	15	<0.1	0.3	0.1	50	0.18	0.045
ROS 163573	Soil	1.1	17.6	12.3	89	<0.1	13.6	13.6	575	3.07	5.1	0.8	2.3	3.6	17	0.1	0.3	0.1	79	0.24	0.052
ROS 160393	Soil	0.8	22.6	9.0	88	<0.1	20.0	8.4	411	3.35	4.7	1.8	0.7	10.9	39	0.1	0.2	0.2	60	0.16	0.042
ROS 160392	Soil	0.9	22.7	9.4	83	<0.1	20.1	8.4	386	3.20	4.9	1.6	2.1	9.9	34	<0.1	0.3	0.2	61	0.16	0.039
ROS 160384	Soil	2.5	46.5	10.8	113	0.3	32.6	12.4	300	2.96	3.6	2.3	2.9	6.1	19	0.6	0.2	0.3	49	0.14	0.052
ROS 165956	Soil	0.5	31.1	6.0	53	0.1	21.0	8.0	428	2.44	8.4	1.1	5.5	9.2	83	0.1	0.6	0.1	48	4.36	0.029
ROS 160390	Soil	2.7	41.0	13.4	110	0.3	30.4	12.5	483	3.11	2.4	2.3	<0.5	9.5	31	0.2	0.1	0.6	60	0.19	0.065
ROS 160388	Soil	1.0	19.2	10.8	90	0.2	25.1	12.5	463	2.72	3.3	2.3	0.7	6.8	41	0.1	0.1	0.2	59	0.28	0.058
ROS 160386	Soil	0.7	21.4	6.8	40	0.2	19.6	7.1	200	2.41	2.6	2.9	1.1	3.8	14	0.2	0.1	0.2	33	0.13	0.054
ROS 165955	Soil	1.0	38.8	9.5	63	0.1	30.9	11.0	479	2.76	10.2	0.8	3.1	5.1	34	0.2	0.8	0.2	60	0.60	0.051
ROS 160391	Soil	1.2	27.6	9.1	98	0.1	21.6	8.0	545	3.79	2.6	2.4	0.6	11.9	49	0.1	0.1	0.3	66	0.14	0.070
ROS 160385	Soil	1.7	35.2	12.4	111	0.3	26.7	12.0	432	3.49	2.2	2.5	2.0	12.4	15	0.3	<0.1	0.3	46	0.14	0.057
ROS 160383	Soil	1.8	31.6	8.2	126	0.1	45.3	12.2	255	3.36	2.6	1.4	1.0	7.5	30	0.1	0.1	0.3	75	0.24	0.047
ROS 165942	Soil	0.5	18.2	10.1	82	<0.1	14.6	10.9	599	3.42	5.6	1.3	0.7	6.9	18	<0.1	1.3	0.2	46	0.32	0.072
ROS 160389	Soil	0.9	20.3	9.1	178	0.2	28.6	14.3	587	2.95	2.4	2.1	1.9	12.6	52	0.3	0.1	0.2	52	0.33	0.078
ROS 160387	Soil	0.6	13.5	5.1	41	<0.1	20.1	9.0	329	2.52	2.5	1.9	1.0	6.6	17	<0.1	0.1	0.3	48	0.12	0.032

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165941	Soil	13	26	0.84	280	0.122	1	1.89	0.011	0.56	0.1	0.02	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 165943	Soil	21	29	0.69	135	0.077	1	1.64	0.007	0.24	0.2	0.05	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 163579	Soil	16	28	0.62	154	0.109	<1	1.49	0.011	0.18	0.2	0.03	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 163575	Soil	15	23	0.57	146	0.096	1	1.54	0.009	0.12	0.2	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 165940	Soil	13	25	0.62	182	0.062	<1	1.82	0.006	0.20	0.2	0.02	3.5	0.1	<0.05	7	<0.5	<0.2
ROS 165935	Soil	17	34	0.48	208	0.072	<1	1.38	0.012	0.11	0.2	0.06	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163578	Soil	16	26	0.55	250	0.090	1	1.32	0.015	0.14	0.3	0.06	2.8	0.1	<0.05	4	<0.5	<0.2
ROS 163574	Soil	17	22	0.90	154	0.134	<1	2.23	0.011	0.45	0.1	0.03	3.2	0.3	<0.05	8	<0.5	<0.2
ROS 165936	Soil	26	34	0.59	181	0.078	<1	1.78	0.009	0.16	0.2	0.06	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 165937	Soil	6	16	0.63	151	0.099	<1	1.55	0.006	0.40	0.1	0.04	2.4	0.2	<0.05	7	<0.5	<0.2
ROS 163576	Soil	11	22	0.48	107	0.079	<1	1.27	0.012	0.08	0.1	0.02	1.9	0.1	<0.05	5	<0.5	<0.2
ROS 163571	Soil	10	22	0.48	110	0.076	<1	1.29	0.011	0.12	0.2	0.05	2.0	0.1	<0.05	5	<0.5	<0.2
ROS 165938	Soil	20	25	0.85	152	0.106	1	2.16	0.007	0.20	0.4	0.04	3.0	<0.1	<0.05	9	<0.5	<0.2
ROS 165939	Soil	8	31	0.98	164	0.149	<1	1.85	0.009	0.62	0.2	<0.01	2.6	0.4	<0.05	8	<0.5	<0.2
ROS 163577	Soil	12	22	0.49	119	0.082	<1	1.30	0.008	0.09	0.2	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
ROS 163573	Soil	11	24	0.90	135	0.137	<1	1.89	0.009	0.41	0.2	0.03	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 160393	Soil	27	38	0.83	349	0.157	<1	2.00	0.011	0.50	<0.1	<0.01	3.4	0.3	0.15	7	<0.5	<0.2
ROS 160392	Soil	26	37	0.81	340	0.150	<1	1.95	0.011	0.44	<0.1	0.02	3.3	0.3	0.12	7	<0.5	<0.2
ROS 160384	Soil	26	31	0.66	264	0.092	<1	1.92	0.007	0.31	<0.1	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
ROS 165956	Soil	24	20	0.65	218	0.084	<1	1.39	0.015	0.19	0.1	0.07	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 160390	Soil	35	52	1.30	223	0.192	<1	2.23	0.011	0.92	<0.1	0.01	3.7	0.5	0.08	9	<0.5	<0.2
ROS 160388	Soil	50	37	1.12	549	0.165	<1	2.06	0.011	0.70	<0.1	0.02	3.0	0.4	<0.05	9	<0.5	<0.2
ROS 160386	Soil	45	31	0.63	304	0.122	<1	1.64	0.007	0.43	<0.1	0.03	1.9	0.3	<0.05	7	<0.5	<0.2
ROS 165955	Soil	19	32	0.66	306	0.078	1	1.69	0.032	0.09	0.2	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160391	Soil	37	49	1.30	501	0.220	<1	2.41	0.013	0.93	<0.1	0.02	3.5	0.4	0.22	10	<0.5	0.3
ROS 160385	Soil	42	38	1.07	344	0.195	<1	2.28	0.008	0.86	<0.1	0.01	3.1	0.5	<0.05	9	<0.5	0.3
ROS 160383	Soil	28	60	1.22	270	0.160	<1	2.92	0.014	0.77	0.1	<0.01	3.9	0.5	<0.05	9	<0.5	<0.2
ROS 165942	Soil	20	19	0.77	165	0.039	1	1.77	0.006	0.32	0.3	0.03	4.1	0.1	<0.05	7	<0.5	<0.2
ROS 160389	Soil	56	49	1.47	491	0.182	<1	2.36	0.012	0.95	<0.1	<0.01	2.8	0.5	<0.05	8	<0.5	<0.2
ROS 160387	Soil	32	36	0.84	456	0.181	<1	1.64	0.011	0.71	<0.1	0.02	2.9	0.3	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160382	Soil	0.9	34.0	6.9	80	<0.1	51.8	13.2	212	3.30	1.8	1.6	1.0	8.4	33	0.1	0.1	0.3	57	0.25	0.073
ROS 165944	Soil	0.8	37.4	122.3	76	1.0	15.4	8.2	376	2.74	12.4	2.6	5.2	17.4	20	0.1	11.5	0.6	31	0.29	0.028
ROS 160240	Soil	2.3	36.3	14.9	88	0.5	13.2	5.7	630	3.04	5.2	1.4	2.1	8.8	32	0.3	0.2	0.3	43	0.08	0.090
ROS 164563	Soil	0.9	45.9	9.3	121	<0.1	14.5	8.9	570	3.69	6.3	1.1	0.9	10.0	21	<0.1	0.3	0.1	64	0.25	0.050
ROS 164601	Soil	0.6	60.2	3.2	156	<0.1	10.7	18.9	624	4.82	4.5	0.5	1.9	2.4	26	<0.1	0.2	0.2	105	0.36	0.142
ROS 160081	Soil	0.6	20.8	4.0	76	<0.1	8.8	23.6	630	3.83	2.9	0.5	1.7	2.4	77	0.2	0.2	<0.1	91	0.66	0.147
ROS 164562	Soil	1.0	25.1	7.6	66	0.3	21.5	8.9	318	3.07	9.5	0.7	1.9	5.8	26	<0.1	0.5	0.2	67	0.25	0.092
ROS 164561	Soil	7.2	501.8	6.3	128	0.3	61.0	20.5	459	3.68	3.1	2.4	8.2	12.0	49	0.2	0.2	0.3	74	0.41	0.084
ROS 164603	Soil	0.5	33.7	3.5	77	<0.1	9.8	12.4	484	3.79	2.2	1.0	2.1	3.8	21	<0.1	0.2	<0.1	107	0.49	0.075
ROS 164602	Soil	0.9	14.8	5.0	64	<0.1	13.4	8.0	402	4.55	6.1	0.6	1.0	4.4	11	0.1	0.3	0.1	43	0.10	0.046
ROS 164560	Soil	2.6	194.8	11.4	133	0.1	45.4	18.3	609	4.83	1.9	2.1	2.6	14.2	41	0.4	0.2	0.2	87	0.74	0.159
ROS 164559	Soil	1.8	90.0	8.3	70	0.1	27.3	12.2	293	3.73	7.0	1.4	3.5	9.9	26	0.1	0.4	0.2	65	0.20	0.036
ROS 160083	Soil	0.7	57.6	4.2	140	<0.1	12.5	18.4	603	4.66	6.2	0.6	1.6	2.7	27	<0.1	0.3	0.1	104	0.33	0.110
ROS 160080	Soil	0.7	21.9	4.2	80	<0.1	10.6	24.5	650	4.04	3.0	0.5	2.0	2.4	80	0.2	0.2	<0.1	93	0.69	0.151
ROS 164558	Soil	1.9	91.9	11.8	195	0.2	46.0	14.4	1290	3.00	5.2	0.6	3.7	4.6	19	0.6	0.5	0.2	64	0.38	0.033
ROS 164557	Soil	1.8	217.0	6.5	108	0.1	52.4	20.1	541	4.58	3.3	1.6	6.1	10.0	57	0.1	0.2	0.2	111	0.57	0.085
ROS 160082	Soil	0.7	28.7	5.5	88	<0.1	17.1	17.8	485	3.98	6.4	0.5	1.5	2.8	31	<0.1	0.4	0.1	92	0.25	0.035
ROS 164604	Soil	3.4	36.6	16.6	53	0.8	21.9	6.9	163	3.18	8.7	1.3	3.5	7.0	35	0.2	0.5	0.2	62	0.11	0.046
ROS 164608	Soil	1.8	62.8	14.5	218	<0.1	20.7	12.8	562	5.72	2.9	0.9	1.2	3.0	17	0.4	0.2	<0.1	120	0.32	0.058
ROS 164605	Soil	2.4	42.9	13.7	75	0.3	16.9	6.7	235	3.02	8.5	1.5	3.2	5.6	21	0.2	0.4	0.2	61	0.13	0.033
ROS 164606	Soil	2.0	55.9	7.2	116	0.2	18.4	10.6	344	4.22	3.7	1.9	2.2	6.0	25	0.2	0.2	0.2	88	0.28	0.053
ROS 164607	Soil	1.0	34.6	5.4	126	<0.1	19.9	26.6	757	5.77	1.3	1.2	1.5	1.9	41	0.2	0.1	0.3	155	0.49	0.150
ROS 163801	Soil	0.7	10.8	6.6	44	<0.1	7.6	3.2	108	1.69	3.5	1.1	2.3	1.6	25	<0.1	0.2	0.3	31	0.16	0.043
ROS 163797	Soil	1.8	87.2	14.9	227	0.2	32.9	40.2	695	3.11	5.6	2.2	1.8	6.4	34	0.9	0.3	0.2	68	0.30	0.031
ROS 163799	Soil	1.2	39.9	6.7	190	0.1	19.7	15.2	358	3.07	3.7	2.4	1.7	10.5	54	0.7	0.2	0.1	60	0.37	0.056
ROS 163790	Soil	0.8	36.1	8.0	148	0.1	29.6	19.7	662	4.03	4.4	2.3	3.4	21.0	30	0.5	0.2	0.2	65	0.20	0.059
ROS 163794	Soil	1.0	140.0	8.4	156	0.2	34.4	19.8	387	3.53	6.4	3.1	3.3	6.8	35	0.9	0.3	0.2	83	0.31	0.036
ROS 163793	Soil	0.6	124.8	5.2	153	0.1	28.8	29.2	541	4.52	2.8	3.3	1.9	14.9	40	0.7	0.2	<0.1	118	0.23	0.060
ROS 163798	Soil	1.1	32.4	7.4	146	0.1	13.7	17.2	566	2.82	3.3	2.0	3.0	11.5	40	0.8	0.2	0.2	63	0.22	0.040
ROS 163796	Soil	1.1	119.2	30.0	238	0.2	37.9	29.2	508	2.92	5.7	3.4	2.2	7.3	39	1.0	0.3	0.2	58	0.31	0.038

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
ROS 160382	Soil	32	50	0.84	221	0.134	<1	2.60	0.015	0.83	<0.1	<0.01	2.7	0.5	<0.05	8	<0.5	<0.2
ROS 165944	Soil	28	18	0.21	490	0.015	2	1.03	0.006	0.13	0.1	0.26	3.1	<0.1	<0.05	3	<0.5	<0.2
ROS 160240	Soil	29	25	0.51	338	0.046	<1	1.19	0.010	0.36	<0.1	<0.01	1.6	0.2	0.36	5	0.5	<0.2
ROS 164563	Soil	17	23	1.02	153	0.109	2	2.51	0.011	0.37	<0.1	0.01	3.6	0.2	<0.05	8	<0.5	<0.2
ROS 164601	Soil	12	15	1.54	124	0.060	<1	2.65	0.020	0.04	<0.1	0.01	7.3	<0.1	<0.05	9	<0.5	<0.2
ROS 160081	Soil	13	10	1.02	361	0.127	<1	1.79	0.044	0.48	<0.1	0.01	8.5	0.1	<0.05	8	<0.5	<0.2
ROS 164562	Soil	11	28	0.66	148	0.112	1	1.98	0.011	0.31	0.1	0.01	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 164561	Soil	33	71	1.32	334	0.179	<1	2.20	0.020	0.63	<0.1	0.02	4.4	0.4	0.12	7	1.0	<0.2
ROS 164603	Soil	18	12	0.92	298	0.169	<1	1.88	0.037	0.55	<0.1	<0.01	7.6	0.2	<0.05	7	<0.5	<0.2
ROS 164602	Soil	20	17	0.87	196	0.200	<1	2.46	0.009	0.64	0.1	0.02	12.9	0.2	<0.05	11	0.5	0.3
ROS 164560	Soil	44	44	1.03	322	0.220	<1	2.65	0.019	1.09	<0.1	<0.01	6.3	0.6	<0.05	9	0.6	<0.2
ROS 164559	Soil	26	43	0.89	225	0.217	<1	2.20	0.013	0.68	0.1	0.01	4.5	0.4	<0.05	7	0.5	<0.2
ROS 160083	Soil	12	19	1.53	148	0.069	<1	2.75	0.021	0.05	<0.1	<0.01	7.6	<0.1	<0.05	9	<0.5	<0.2
ROS 160080	Soil	14	11	1.03	353	0.131	<1	1.86	0.045	0.48	<0.1	0.01	8.9	0.1	<0.05	9	<0.5	<0.2
ROS 164558	Soil	14	34	0.53	197	0.097	<1	1.49	0.014	0.09	0.1	0.04	6.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164557	Soil	28	54	1.25	399	0.214	<1	2.57	0.029	0.74	0.1	0.01	7.1	0.4	<0.05	8	0.6	<0.2
ROS 160082	Soil	8	26	1.19	189	0.075	<1	2.71	0.028	0.04	<0.1	0.02	6.3	<0.1	<0.05	8	<0.5	<0.2
ROS 164604	Soil	26	32	0.46	298	0.058	<1	1.88	0.012	0.20	0.1	0.02	3.2	0.2	0.19	5	2.2	<0.2
ROS 164608	Soil	12	19	1.19	574	0.219	<1	2.49	0.039	0.77	<0.1	<0.01	10.3	0.3	<0.05	11	0.9	<0.2
ROS 164605	Soil	16	30	0.62	208	0.101	<1	1.86	0.014	0.14	0.1	0.02	4.5	0.1	0.10	6	1.3	<0.2
ROS 164606	Soil	21	34	1.04	659	0.178	<1	2.21	0.023	0.39	<0.1	0.01	7.2	0.2	0.13	8	0.8	<0.2
ROS 164607	Soil	12	45	1.54	630	0.261	<1	2.45	0.046	1.13	0.1	0.01	8.2	0.4	0.33	10	<0.5	<0.2
ROS 163801	Soil	13	14	0.30	109	0.072	<1	1.09	0.010	0.07	0.2	0.04	1.9	0.2	<0.05	5	<0.5	<0.2
ROS 163797	Soil	30	28	0.75	320	0.170	<1	1.99	0.020	0.25	0.1	0.02	4.4	0.2	<0.05	8	0.7	<0.2
ROS 163799	Soil	33	18	0.78	263	0.196	<1	2.11	0.016	0.68	<0.1	0.02	3.7	0.4	<0.05	8	<0.5	<0.2
ROS 163790	Soil	40	40	1.30	588	0.287	<1	2.46	0.013	1.12	<0.1	0.01	4.4	0.6	0.05	9	0.6	<0.2
ROS 163794	Soil	39	41	0.88	264	0.190	<1	2.19	0.018	0.32	<0.1	0.02	6.3	0.2	<0.05	9	0.7	<0.2
ROS 163793	Soil	44	51	1.58	401	0.320	<1	2.90	0.016	1.41	<0.1	0.02	7.5	0.5	<0.05	12	0.6	<0.2
ROS 163798	Soil	28	15	0.72	197	0.193	<1	1.88	0.014	0.64	<0.1	0.02	3.7	0.4	<0.05	8	<0.5	<0.2
ROS 163796	Soil	38	30	0.83	274	0.156	<1	2.13	0.018	0.36	0.1	0.02	5.1	0.2	<0.05	7	0.8	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163795	Soil	2.0	73.2	18.9	194	0.1	20.1	44.6	1433	4.40	4.8	3.2	1.4	10.7	77	0.6	0.2	0.2	80	0.32	0.090
ROS 163792	Soil	1.4	62.9	20.5	216	0.2	36.3	21.5	557	3.58	4.5	2.7	2.2	10.5	30	1.0	0.2	0.2	71	0.26	0.041
ROS 163791	Soil	0.9	73.2	18.2	343	<0.1	32.7	24.3	701	3.86	5.3	2.4	1.7	17.3	43	0.8	0.3	0.2	59	0.19	0.047
ROS 163800	Soil	2.1	44.6	10.4	198	0.2	19.2	13.6	407	3.11	3.5	4.4	2.0	10.8	43	0.7	0.2	0.2	64	0.35	0.054
ROS 165840	Soil	0.7	27.0	8.4	51	<0.1	22.1	8.9	228	2.53	8.1	1.3	7.9	8.2	24	<0.1	0.6	0.2	62	0.28	0.021
ROS 165818	Soil	0.6	24.6	11.9	105	0.1	12.9	12.7	551	3.31	8.1	1.0	1.8	6.1	51	<0.1	0.7	0.1	69	0.56	0.056
ROS 165815	Soil	0.6	26.0	21.9	114	0.1	14.8	12.6	424	3.72	7.2	2.9	11.1	29.6	33	0.1	1.5	0.2	58	0.39	0.069
ROS 165813	Soil	0.3	14.7	4.8	38	<0.1	8.9	5.2	207	1.61	3.2	0.7	1.4	8.2	24	<0.1	0.3	0.1	31	0.32	0.049
ROS 165839	Soil	0.6	24.9	7.9	50	<0.1	20.6	8.3	228	2.30	7.1	1.1	3.1	7.0	24	<0.1	0.6	0.2	57	0.28	0.023
ROS 165817	Soil	0.5	26.0	11.0	74	<0.1	14.8	9.6	469	2.63	6.3	0.8	10.7	15.3	48	0.1	0.6	0.2	42	1.56	0.045
ROS 165826	Soil	0.6	21.1	8.6	50	<0.1	18.1	8.4	294	2.52	7.7	0.9	5.6	6.0	25	<0.1	0.6	0.2	50	0.34	0.028
ROS 165825	Soil	0.5	30.1	7.2	45	<0.1	22.3	7.8	334	2.34	7.9	1.1	6.1	5.7	28	<0.1	0.5	0.1	50	0.45	0.045
ROS 165816	Soil	0.6	21.6	21.6	78	<0.1	11.7	8.9	299	2.90	8.5	1.6	9.7	18.1	18	<0.1	1.6	0.3	48	0.29	0.047
ROS 165821	Soil	0.5	12.8	4.8	36	<0.1	8.8	5.3	260	1.59	4.2	0.9	1.5	4.9	17	<0.1	0.3	<0.1	31	0.30	0.035
ROS 165824	Soil	0.5	23.5	7.1	47	<0.1	17.8	7.3	321	2.18	6.9	0.9	4.9	4.6	29	<0.1	0.5	0.1	46	0.45	0.050
ROS 165827	Soil	0.8	19.7	8.7	51	<0.1	17.7	8.6	297	2.52	7.7	0.7	9.8	6.0	24	<0.1	0.5	0.2	52	0.34	0.027
ROS 164564	Soil	0.9	17.9	8.4	91	<0.1	12.6	8.4	831	3.20	4.1	1.3	0.8	11.8	29	<0.1	0.2	0.1	54	0.25	0.041
ROS 160237	Soil	0.5	34.9	3.8	83	<0.1	12.2	15.7	480	4.52	2.5	0.6	0.8	2.1	22	<0.1	0.2	<0.1	109	0.25	0.030
ROS 160234	Soil	0.7	31.6	3.9	62	<0.1	9.3	12.3	383	3.84	4.2	0.6	2.5	2.7	12	<0.1	0.2	<0.1	86	0.35	0.081
ROS 164565	Soil	0.7	28.7	17.1	80	<0.1	18.2	7.1	313	2.42	7.2	0.7	2.6	4.6	24	0.1	0.4	0.1	50	0.30	0.039



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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 163795	Soil	57	31	1.36	306	0.243	<1	2.92	0.019	1.28	0.1	0.01	7.5	0.5	<0.05	12	0.8	<0.2
ROS 163792	Soil	40	37	1.06	357	0.227	<1	2.42	0.014	0.72	<0.1	0.02	4.5	0.4	<0.05	9	0.6	<0.2
ROS 163791	Soil	53	39	1.14	466	0.210	<1	2.52	0.016	0.94	<0.1	0.02	4.6	0.5	0.11	8	0.6	0.2
ROS 163800	Soil	34	20	0.88	337	0.183	<1	2.01	0.018	0.66	<0.1	0.02	5.3	0.4	<0.05	8	0.6	<0.2
ROS 165840	Soil	20	33	0.48	223	0.091	1	1.55	0.013	0.09	0.2	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165818	Soil	15	22	0.99	236	0.070	1	1.86	0.010	0.18	0.2	0.02	5.7	<0.1	<0.05	7	<0.5	<0.2
ROS 165815	Soil	50	21	0.67	175	0.028	<1	2.00	0.009	0.15	0.3	0.04	5.1	<0.1	<0.05	10	<0.5	<0.2
ROS 165813	Soil	10	11	0.36	108	0.084	<1	1.03	0.017	0.18	0.2	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 165839	Soil	16	28	0.48	218	0.089	1	1.48	0.013	0.09	0.2	0.03	4.8	<0.1	<0.05	5	0.5	<0.2
ROS 165817	Soil	45	20	0.67	178	0.064	2	1.49	0.015	0.24	0.2	0.05	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 165826	Soil	14	30	0.49	267	0.074	<1	1.61	0.018	0.06	0.2	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 165825	Soil	17	30	0.52	236	0.073	<1	1.44	0.018	0.07	0.2	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 165816	Soil	40	18	0.36	143	0.019	2	1.31	0.013	0.13	0.4	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165821	Soil	8	15	0.34	125	0.057	<1	0.94	0.014	0.14	0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
ROS 165824	Soil	13	27	0.51	245	0.071	1	1.35	0.017	0.07	0.3	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165827	Soil	12	31	0.51	268	0.073	<1	1.74	0.015	0.07	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164564	Soil	24	16	0.86	218	0.136	<1	2.07	0.012	0.77	<0.1	<0.01	4.4	0.4	<0.05	8	<0.5	<0.2
ROS 160237	Soil	8	24	1.20	371	0.206	<1	2.91	0.022	0.71	<0.1	<0.01	4.5	0.4	<0.05	9	<0.5	<0.2
ROS 160234	Soil	12	14	0.78	145	0.124	<1	2.23	0.032	0.19	<0.1	<0.01	5.5	0.1	<0.05	8	<0.5	0.3
ROS 164565	Soil	13	28	0.56	211	0.083	<1	1.31	0.019	0.12	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2



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Project: ROS
 Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000589.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 173013	Soil	0.4	25.1	11.7	97	0.4	11.2	15.2	828	4.41	4.8	1.7	60.2	13.3	28	<0.1	1.6	0.1	63	0.49	0.096
REP ROS 173013	QC	0.4	24.8	11.5	96	0.4	10.5	15.0	799	4.31	4.6	1.7	56.2	13.0	27	<0.1	1.6	0.1	61	0.50	0.094
ROS 164790	Soil	1.2	14.6	7.1	50	0.1	10.2	4.7	167	2.24	4.3	2.4	1.5	7.4	28	0.1	0.3	0.2	44	0.17	0.064
REP ROS 164790	QC	1.2	13.9	7.2	50	0.2	10.0	4.7	167	2.23	4.1	2.5	6.9	7.6	28	0.2	0.3	0.2	43	0.17	0.062
ROS 141716	Soil	0.8	32.8	14.3	73	0.1	21.0	9.2	318	2.57	7.9	1.0	1.8	6.7	38	0.2	0.9	0.1	57	0.40	0.060
REP ROS 141716	QC	0.8	32.3	13.5	72	0.1	21.7	9.3	326	2.55	7.8	1.0	1.6	6.9	38	0.2	1.0	0.1	57	0.41	0.061
ROS 159077	Soil	1.1	18.0	9.2	91	<0.1	10.8	9.7	513	3.74	12.0	0.9	<0.5	7.2	18	<0.1	0.4	0.3	52	0.27	0.057
REP ROS 159077	QC	1.1	18.3	9.3	92	<0.1	10.8	9.9	502	3.67	11.8	0.9	<0.5	7.1	18	0.1	0.3	0.2	52	0.26	0.056
ROS 147042	Soil	0.9	25.9	8.7	55	<0.1	21.3	7.6	335	2.37	8.6	1.1	3.6	7.2	27	<0.1	0.6	0.2	51	0.39	0.040
REP ROS 147042	QC	0.9	26.8	9.3	57	<0.1	21.6	7.9	347	2.49	8.7	1.1	2.9	7.3	28	<0.1	0.7	0.2	53	0.41	0.040
ROS 173480	Soil	1.0	105.6	15.4	72	0.3	11.1	9.6	1686	2.85	11.7	6.3	3.8	13.5	38	0.6	0.7	2.5	39	0.79	0.124
REP ROS 173480	QC	0.8	101.3	15.4	70	0.2	11.4	9.4	1629	2.76	11.3	6.3	1.3	13.7	37	0.7	0.6	2.5	38	0.77	0.122
ROS 140570	Soil	0.7	26.8	9.8	104	0.2	11.8	14.4	597	4.08	5.9	0.7	<0.5	2.3	40	0.2	0.7	<0.1	107	0.22	0.033
REP ROS 140570	QC	0.7	26.2	10.3	103	0.2	11.5	14.5	600	4.09	6.0	0.7	<0.5	2.3	38	<0.1	0.6	0.1	107	0.22	0.033
ROS 164475	Soil	0.4	7.9	4.5	60	<0.1	5.1	5.9	518	2.58	1.9	1.1	<0.5	15.2	14	<0.1	0.2	<0.1	32	0.24	0.046
REP ROS 164475	QC	0.4	7.6	4.4	63	<0.1	4.4	5.7	512	2.64	1.6	1.1	<0.5	15.1	14	<0.1	0.2	<0.1	31	0.25	0.047
ROS 164011	Soil	0.8	13.5	7.0	62	<0.1	16.9	7.2	189	2.27	6.1	0.5	2.6	1.9	22	0.1	0.3	0.1	53	0.30	0.055
REP ROS 164011	QC	0.8	13.8	7.0	63	<0.1	19.1	7.4	196	2.34	6.4	0.5	3.8	1.8	22	0.2	0.3	0.1	53	0.29	0.056
ROS 164005	Soil	1.1	25.2	7.8	46	0.1	11.8	7.0	222	2.71	5.5	1.1	28.2	3.1	29	0.1	0.4	0.2	57	0.25	0.061
REP ROS 164005	QC	1.1	25.6	8.1	46	0.1	11.7	7.4	229	2.73	5.7	1.2	3.7	2.9	29	0.1	0.3	0.2	57	0.26	0.061
ROS 165947	Soil	0.7	41.8	7.8	48	0.2	26.2	9.3	347	2.28	11.9	0.7	6.0	4.3	96	0.2	0.8	0.1	55	4.31	0.066
REP ROS 165947	QC	0.6	41.6	7.9	48	0.2	26.0	9.3	347	2.25	11.8	0.6	9.8	4.2	95	0.2	0.8	0.1	56	4.32	0.065
ROS 164194	Soil	0.5	134.1	11.2	79	0.1	326.7	39.6	758	4.53	3.8	2.6	2.7	6.8	156	0.1	0.3	<0.1	134	1.03	0.218
REP ROS 164194	QC	0.4	131.8	11.1	77	0.1	314.8	39.1	732	4.45	3.6	2.5	1.4	6.8	149	0.1	0.3	<0.1	133	1.04	0.212
ROS 163570	Soil	0.8	22.3	8.9	66	<0.1	10.8	5.6	155	1.80	4.1	0.6	9.9	1.7	16	0.3	0.2	0.1	48	0.21	0.037
REP ROS 163570	QC	0.7	22.3	9.1	66	0.1	10.7	5.8	153	1.82	3.9	0.6	6.7	1.7	17	0.3	0.2	0.1	45	0.22	0.035
ROS 163575	Soil	0.9	16.1	11.7	74	0.1	14.4	8.6	279	2.35	4.9	1.0	1.9	3.4	19	0.2	0.3	0.2	52	0.23	0.042
REP ROS 163575	QC	0.9	17.4	12.3	78	0.1	15.4	8.6	283	2.36	5.1	1.0	5.6	3.8	19	0.2	0.3	0.2	50	0.23	0.043

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.



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QUALITY CONTROL REPORT

WHI10000589.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 173013	Soil	48	19	1.13	240	0.136	2	2.14	0.012	0.61	2.0	0.08	6.5	0.2	<0.05	9	<0.5	<0.2
REP ROS 173013	QC	48	18	1.12	233	0.134	1	2.15	0.012	0.60	2.0	0.07	6.5	0.2	<0.05	9	0.6	<0.2
ROS 164790	Soil	21	18	0.53	137	0.104	2	1.41	0.013	0.24	0.1	0.05	3.3	0.2	0.06	5	<0.5	<0.2
REP ROS 164790	QC	21	18	0.53	141	0.102	2	1.37	0.012	0.23	0.2	0.05	3.4	0.2	0.06	6	<0.5	<0.2
ROS 141716	Soil	19	30	0.57	241	0.093	1	1.75	0.021	0.06	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
REP ROS 141716	QC	20	30	0.58	247	0.096	2	1.79	0.022	0.06	0.2	0.06	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 159077	Soil	6	21	0.79	226	0.125	<1	1.95	0.011	0.57	0.1	0.01	5.4	0.3	<0.05	8	<0.5	<0.2
REP ROS 159077	QC	6	21	0.76	228	0.125	<1	1.87	0.010	0.57	0.1	0.02	5.4	0.3	<0.05	8	<0.5	<0.2
ROS 147042	Soil	19	29	0.47	235	0.076	1	1.54	0.022	0.07	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 147042	QC	21	31	0.49	236	0.093	<1	1.55	0.022	0.08	0.2	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173480	Soil	155	14	0.53	175	0.026	2	1.78	0.015	0.23	0.3	0.12	4.1	<0.1	<0.05	8	0.7	<0.2
REP ROS 173480	QC	152	13	0.51	169	0.025	2	1.75	0.014	0.23	0.3	0.11	4.0	<0.1	<0.05	8	<0.5	<0.2
ROS 140570	Soil	6	19	1.07	137	0.217	<1	2.70	0.012	0.16	0.1	0.03	2.7	0.1	<0.05	10	<0.5	<0.2
REP ROS 140570	QC	6	19	1.06	136	0.224	<1	2.67	0.013	0.16	0.1	0.03	2.7	0.1	<0.05	10	<0.5	<0.2
ROS 164475	Soil	39	8	0.57	94	0.075	<1	1.35	0.010	0.51	<0.1	0.01	3.7	0.2	<0.05	7	0.6	<0.2
REP ROS 164475	QC	39	8	0.59	94	0.073	<1	1.43	0.008	0.51	<0.1	0.01	3.6	0.2	<0.05	7	<0.5	<0.2
ROS 164011	Soil	10	26	0.48	193	0.067	<1	1.53	0.016	0.07	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
REP ROS 164011	QC	11	28	0.49	197	0.068	1	1.55	0.015	0.07	0.2	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164005	Soil	21	21	0.44	222	0.078	<1	1.61	0.016	0.09	0.1	0.03	4.2	<0.1	<0.05	6	0.5	<0.2
REP ROS 164005	QC	21	21	0.45	217	0.083	<1	1.57	0.016	0.09	0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
ROS 165947	Soil	15	27	0.68	288	0.079	2	1.29	0.037	0.07	0.2	0.06	3.4	<0.1	0.05	4	0.6	<0.2
REP ROS 165947	QC	15	27	0.68	291	0.078	2	1.29	0.036	0.07	0.2	0.05	3.4	<0.1	0.05	4	0.5	<0.2
ROS 164194	Soil	26	283	4.64	677	0.205	4	3.26	0.021	0.42	0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
REP ROS 164194	QC	26	288	4.77	637	0.193	5	3.27	0.021	0.38	0.1	0.03	2.5	<0.1	<0.05	9	<0.5	<0.2
ROS 163570	Soil	11	21	0.45	94	0.083	<1	1.18	0.015	0.08	0.3	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
REP ROS 163570	QC	10	21	0.41	93	0.083	1	1.19	0.014	0.08	0.3	0.05	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163575	Soil	15	23	0.57	146	0.096	1	1.54	0.009	0.12	0.2	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
REP ROS 163575	QC	15	24	0.58	149	0.096	<1	1.61	0.009	0.13	0.2	0.04	2.3	0.1	<0.05	6	<0.5	<0.2

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.



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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000589.1

		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
ROS 163573	Soil	1.1	17.6	12.3	89	<0.1	13.6	13.6	575	3.07	5.1	0.8	2.3	3.6	17	0.1	0.3	0.1	79	0.24	0.052
REP ROS 163573	QC	1.2	18.0	11.9	88	0.1	14.5	14.2	599	3.23	5.1	0.8	2.4	3.7	17	0.2	0.2	0.1	80	0.25	0.052
ROS 164605	Soil	2.4	42.9	13.7	75	0.3	16.9	6.7	235	3.02	8.5	1.5	3.2	5.6	21	0.2	0.4	0.2	61	0.13	0.033
REP ROS 164605	QC	2.4	43.2	14.6	76	0.3	17.8	6.9	226	3.06	8.8	1.5	3.5	6.2	21	0.3	0.5	0.2	63	0.12	0.033
ROS 163800	Soil	2.1	44.6	10.4	198	0.2	19.2	13.6	407	3.11	3.5	4.4	2.0	10.8	43	0.7	0.2	0.2	64	0.35	0.054
REP ROS 163800	QC	2.0	46.4	11.1	212	0.2	19.7	13.8	401	3.23	3.7	4.2	1.7	10.7	41	0.7	0.2	0.3	67	0.36	0.053
Reference Materials																					
STD DS7	Standard	19.7	96.4	69.0	380	1.0	52.8	9.0	584	2.24	48.9	4.6	75.2	4.4	64	5.7	5.6	4.6	83	0.87	0.073
STD DS7	Standard	22.3	120.8	73.3	425	1.1	57.7	9.7	656	2.48	57.4	5.2	73.5	5.0	80	7.3	6.5	5.0	87	0.97	0.091
STD DS7	Standard	21.2	111.6	64.6	408	1.1	54.6	9.6	643	2.46	52.2	4.4	67.2	4.4	68	6.5	5.3	4.3	85	0.92	0.076
STD DS7	Standard	19.7	117.1	69.2	399	1.0	53.6	9.1	614	2.32	54.0	4.9	63.4	4.5	77	6.1	5.9	4.9	81	0.91	0.084
STD DS7	Standard	20.7	123.7	70.8	419	0.9	56.1	9.8	649	2.41	55.0	5.1	67.8	4.9	74	6.5	6.4	4.9	85	0.96	0.087
STD DS7	Standard	21.9	114.3	64.8	419	1.0	56.0	9.3	652	2.37	53.4	4.6	67.8	4.4	71	6.4	5.5	4.3	88	0.95	0.079
STD DS7	Standard	19.3	106.3	65.8	386	1.0	50.3	8.7	600	2.23	48.9	4.8	70.6	4.8	76	6.1	6.1	4.6	78	0.91	0.078
STD DS7	Standard	18.7	99.3	59.7	379	0.9	50.7	8.6	579	2.28	49.2	4.1	72.7	3.9	64	5.3	5.2	4.2	75	0.88	0.074
STD DS7	Standard	19.7	108.6	63.2	381	0.9	50.8	8.6	591	2.24	50.5	5.0	67.7	4.9	72	6.9	5.9	4.9	82	0.95	0.072
STD DS7	Standard	18.0	110.0	66.9	392	0.9	50.7	8.6	603	2.27	49.5	4.7	75.3	4.6	71	6.0	5.7	4.5	79	0.87	0.077
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
 Report Date: November 05, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000589.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 163573	Soil	11	24	0.90	135	0.137	<1	1.89	0.009	0.41	0.2	0.03	2.3	0.2	<0.05	7	<0.5	<0.2
REP ROS 163573	QC	12	25	0.92	136	0.139	<1	1.95	0.009	0.41	0.2	0.02	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 164605	Soil	16	30	0.62	208	0.101	<1	1.86	0.014	0.14	0.1	0.02	4.5	0.1	0.10	6	1.3	<0.2
REP ROS 164605	QC	16	31	0.63	214	0.096	<1	1.86	0.015	0.13	0.1	0.02	4.3	0.1	0.08	6	1.3	<0.2
ROS 163800	Soil	34	20	0.88	337	0.183	<1	2.01	0.018	0.66	<0.1	0.02	5.3	0.4	<0.05	8	0.6	<0.2
REP ROS 163800	QC	34	21	0.89	333	0.192	<1	1.99	0.015	0.68	<0.1	0.02	5.4	0.4	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	184	1.03	406	0.106	37	0.95	0.090	0.46	3.5	0.22	2.1	4.1	0.20	5	2.8	0.7
STD DS7	Standard	14	192	1.11	434	0.133	42	1.07	0.108	0.50	3.9	0.24	2.6	4.1	0.21	5	3.6	1.8
STD DS7	Standard	12	194	1.02	401	0.113	35	1.03	0.105	0.50	3.5	0.21	2.3	4.0	0.20	5	3.5	1.4
STD DS7	Standard	12	187	1.05	408	0.125	41	1.02	0.102	0.48	3.6	0.21	2.5	4.0	0.19	5	3.1	1.8
STD DS7	Standard	13	184	1.08	409	0.128	42	1.04	0.103	0.49	3.9	0.23	2.4	4.3	0.19	5	3.5	1.1
STD DS7	Standard	13	203	1.03	389	0.122	41	1.01	0.108	0.49	3.5	0.21	2.6	3.9	0.16	5	3.1	1.5
STD DS7	Standard	13	180	1.01	390	0.122	36	0.96	0.096	0.48	3.5	0.22	2.6	3.8	0.19	5	3.0	1.5
STD DS7	Standard	12	172	1.02	400	0.102	37	0.95	0.091	0.47	3.4	0.20	2.3	3.9	0.16	5	3.2	1.5
STD DS7	Standard	13	178	0.99	395	0.130	37	1.01	0.097	0.45	3.4	0.20	3.0	3.8	0.18	5	3.8	0.9
STD DS7	Standard	12	175	1.02	374	0.114	41	0.97	0.091	0.47	3.4	0.20	2.6	3.8	0.18	5	2.9	1.2
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 06, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000590.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

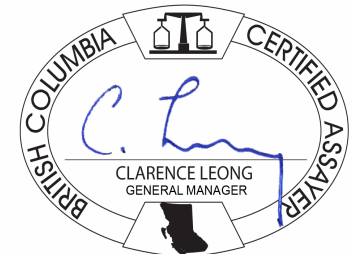
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 06, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 165837	Soil	0.7	18.5	6.3	48	<0.1	10.0	5.9	197	1.76	4.5	0.6	1.8	5.9	16	0.1	0.5	0.1	34	0.20	0.032
ROS 165819	Soil	0.7	22.9	8.3	60	<0.1	17.5	8.1	298	2.18	4.9	1.7	4.6	5.8	33	0.1	0.6	0.2	45	0.51	0.045
ROS 165814	Soil	0.5	15.4	5.5	42	<0.1	11.3	6.3	223	1.76	3.2	0.6	1.6	7.3	19	<0.1	0.3	0.1	32	0.32	0.059
ROS 165812	Soil	0.8	33.3	8.6	60	<0.1	28.2	10.0	400	2.70	9.8	0.6	4.4	4.9	31	0.1	0.7	0.2	56	0.42	0.055
ROS 165838	Soil	0.6	17.4	5.6	44	<0.1	9.5	5.9	186	1.67	4.0	0.6	1.8	6.2	16	<0.1	0.4	0.1	35	0.19	0.032
ROS 165822	Soil	0.8	30.0	8.0	50	0.1	20.3	9.1	395	2.54	7.5	1.7	3.8	5.4	32	0.1	0.7	0.2	52	0.55	0.051
ROS 165820	Soil	0.6	31.8	10.5	61	0.1	21.6	10.2	377	2.38	6.9	2.3	4.5	5.2	40	0.2	0.8	0.3	51	0.67	0.062
ROS 165811	Soil	0.6	34.7	9.1	64	<0.1	26.5	9.8	388	2.63	7.5	0.7	12.6	6.1	28	0.1	0.7	0.2	56	0.41	0.040
ROS 147043	Soil	0.7	35.5	9.6	49	<0.1	23.8	7.3	374	2.30	7.1	2.0	2.9	7.6	29	<0.1	0.8	0.2	46	0.42	0.038
ROS 173259	Soil	0.4	15.1	9.3	89	<0.1	12.8	6.6	330	2.30	4.2	1.5	2.3	27.2	25	<0.1	0.9	0.2	38	0.29	0.055
ROS 165808	Soil	0.7	30.6	8.8	54	<0.1	20.2	8.7	306	2.41	6.6	1.8	9.9	5.6	38	0.1	0.8	0.2	48	0.57	0.076
ROS 165810	Soil	0.7	31.1	11.9	69	<0.1	19.8	10.4	321	2.60	5.0	1.2	3.8	7.5	36	<0.1	0.6	0.3	55	0.39	0.024
ROS 165835	Soil	0.5	12.0	5.7	47	<0.1	12.6	6.7	278	2.03	5.7	0.5	1.1	4.8	17	<0.1	0.3	0.1	34	0.23	0.040
ROS 173268	Soil	0.6	40.4	11.9	93	<0.1	17.3	11.1	413	3.20	5.0	1.7	21.2	30.5	26	<0.1	0.7	<0.1	42	0.27	0.032
ROS 165807	Soil	0.6	31.9	8.5	54	0.2	22.4	9.0	376	2.21	6.1	1.6	5.3	4.9	43	0.2	0.7	0.2	49	0.85	0.081
ROS 165809	Soil	0.5	20.3	7.9	46	<0.1	11.8	8.4	245	1.81	2.6	1.5	4.2	7.1	27	<0.1	0.5	0.2	47	0.34	0.016
ROS 141841	Soil	0.4	19.3	4.8	135	<0.1	9.3	10.3	984	3.54	2.5	1.0	4.6	5.2	12	<0.1	0.2	0.1	60	0.45	0.088
ROS 141842	Soil	0.4	31.9	21.4	107	0.1	14.0	15.0	953	3.84	19.8	0.5	2.3	4.1	20	0.2	0.4	<0.1	82	0.67	0.093
ROS 141849	Soil	0.4	11.6	2.9	30	<0.1	7.8	2.8	479	0.55	3.3	0.3	<0.5	<0.1	160	0.6	0.2	<0.1	10	18.95	0.087
ROS 141845	Soil	0.5	23.0	8.2	53	<0.1	19.8	8.9	414	2.10	6.6	0.9	5.1	1.9	54	0.3	0.5	0.1	45	3.44	0.069
ROS 141844	Soil	0.5	30.2	9.2	73	<0.1	21.6	10.1	447	2.55	7.3	1.4	2.5	3.2	37	0.1	0.6	0.1	53	0.86	0.058
ROS 141852	Soil	0.5	29.2	17.7	55	0.2	26.4	11.2	498	2.60	13.7	0.6	2.5	1.3	44	0.1	0.8	0.2	54	1.63	0.064
ROS 141848	Soil	0.4	29.2	10.0	66	0.1	28.6	7.8	266	1.98	13.9	1.1	1.6	2.1	52	0.6	0.8	0.1	46	3.41	0.067
ROS 141847	Soil	0.5	26.5	8.7	61	0.1	20.7	8.7	393	2.07	6.5	0.8	4.0	1.4	52	0.3	0.6	0.1	42	2.64	0.065
ROS 141843	Soil	0.3	32.5	8.5	69	<0.1	18.5	9.4	433	2.75	6.3	0.6	2.0	3.4	29	0.2	0.5	0.1	54	0.91	0.047
ROS 159376	Soil	1.1	14.3	8.1	49	0.1	14.4	6.6	221	2.48	6.4	0.6	2.5	3.6	20	<0.1	0.4	0.2	56	0.24	0.023
ROS 159379	Soil	1.2	17.5	10.8	72	0.2	15.4	8.7	436	2.73	6.8	1.6	1.3	4.8	24	0.2	0.4	0.3	64	0.37	0.059
ROS 141846	Soil	0.4	24.0	8.8	59	0.1	18.9	8.4	428	1.97	7.0	0.7	2.3	1.4	64	0.4	0.5	<0.1	40	3.79	0.061
ROS 141850	Soil	0.5	28.1	14.0	35	<0.1	26.2	11.5	473	2.61	7.8	0.3	3.3	2.9	41	0.2	0.7	0.2	56	2.96	0.022
ROS 159374	Soil	1.2	15.0	8.0	76	<0.1	9.0	6.4	469	2.71	3.5	1.5	1.8	10.6	17	<0.1	0.4	0.2	45	0.27	0.029

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165837	Soil	7	15	0.36	121	0.078	<1	1.24	0.012	0.27	<0.1	0.01	3.6	0.1	0.07	4	<0.5	<0.2
ROS 165819	Soil	15	28	0.47	202	0.079	2	1.70	0.017	0.10	<0.1	0.04	4.0	<0.1	0.06	5	<0.5	<0.2
ROS 165814	Soil	10	14	0.39	112	0.073	1	1.16	0.015	0.18	0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165812	Soil	14	32	0.64	256	0.073	2	1.45	0.028	0.07	0.1	0.03	4.4	<0.1	<0.05	5	1.0	<0.2
ROS 165838	Soil	6	15	0.38	116	0.075	<1	1.28	0.011	0.25	0.1	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
ROS 165822	Soil	16	33	0.59	260	0.079	2	1.75	0.018	0.08	0.1	0.04	4.7	<0.1	<0.05	5	0.6	<0.2
ROS 165820	Soil	17	29	0.50	271	0.071	3	1.58	0.016	0.07	0.1	0.06	4.2	<0.1	<0.05	5	1.1	<0.2
ROS 165811	Soil	18	33	0.58	279	0.086	<1	1.71	0.021	0.07	0.1	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147043	Soil	26	25	0.44	227	0.061	2	1.41	0.019	0.07	0.1	0.03	4.1	<0.1	0.05	5	<0.5	<0.2
ROS 173259	Soil	36	29	0.69	142	0.069	1	1.48	0.007	0.32	<0.1	0.11	2.7	0.2	<0.05	7	<0.5	<0.2
ROS 165808	Soil	19	27	0.50	238	0.075	2	1.40	0.018	0.11	0.2	0.08	3.9	<0.1	<0.05	5	0.6	<0.2
ROS 165810	Soil	20	31	0.53	228	0.107	1	1.99	0.017	0.17	<0.1	0.08	4.3	0.1	<0.05	7	<0.5	<0.2
ROS 165835	Soil	6	18	0.41	149	0.089	1	1.29	0.011	0.27	0.2	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 173268	Soil	57	30	0.58	123	0.068	<1	1.69	0.006	0.19	5.5	0.04	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 165807	Soil	18	28	0.52	292	0.064	4	1.32	0.019	0.08	0.2	0.07	4.0	<0.1	<0.05	4	0.6	<0.2
ROS 165809	Soil	15	23	0.38	132	0.109	<1	1.23	0.014	0.16	<0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 141841	Soil	21	11	1.21	345	0.138	<1	2.06	0.010	0.77	<0.1	0.02	12.6	0.3	<0.05	9	0.8	<0.2
ROS 141842	Soil	18	18	1.40	357	0.169	1	1.99	0.011	0.64	<0.1	0.05	13.4	0.3	<0.05	9	0.6	<0.2
ROS 141849	Soil	3	9	0.24	111	0.007	8	0.43	0.011	0.03	<0.1	0.04	0.2	<0.1	0.17	1	0.5	<0.2
ROS 141845	Soil	11	23	1.21	215	0.060	2	1.19	0.016	0.09	0.1	0.07	3.6	<0.1	0.11	4	<0.5	<0.2
ROS 141844	Soil	14	25	0.66	323	0.093	3	1.54	0.019	0.12	0.2	0.04	4.9	<0.1	0.06	5	0.7	<0.2
ROS 141852	Soil	12	29	0.52	308	0.039	7	1.56	0.020	0.11	0.1	0.12	3.7	<0.1	0.09	4	0.7	<0.2
ROS 141848	Soil	15	27	1.80	192	0.046	3	1.34	0.014	0.09	0.2	0.17	4.4	<0.1	0.11	4	0.7	<0.2
ROS 141847	Soil	11	23	0.89	252	0.058	5	1.25	0.016	0.14	0.1	0.07	3.4	<0.1	0.14	4	1.2	<0.2
ROS 141843	Soil	18	24	0.71	272	0.109	1	1.81	0.017	0.24	0.1	0.05	5.8	0.1	<0.05	6	<0.5	<0.2
ROS 159376	Soil	22	24	0.43	160	0.096	2	1.48	0.010	0.11	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159379	Soil	29	27	0.53	252	0.075	2	1.83	0.012	0.09	0.2	0.04	3.3	<0.1	<0.05	7	<0.5	<0.2
ROS 141846	Soil	10	22	1.47	215	0.053	3	1.20	0.016	0.10	0.1	0.09	3.3	<0.1	0.07	4	1.3	<0.2
ROS 141850	Soil	12	28	0.45	324	0.048	5	1.74	0.024	0.10	0.1	0.04	4.3	<0.1	0.08	5	<0.5	<0.2
ROS 159374	Soil	33	18	0.46	237	0.089	2	1.42	0.011	0.16	0.1	0.03	3.8	0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159377	Soil	1.0	22.0	7.8	48	0.2	15.7	8.2	1307	2.36	5.4	1.7	1.3	6.2	20	0.2	0.4	0.2	55	0.18	0.029
ROS 141851	Soil	0.5	31.9	8.5	53	0.1	26.3	10.8	424	2.47	9.5	0.4	2.5	2.5	58	0.2	0.7	0.2	54	3.28	0.056
ROS 141830	Soil	0.3	24.1	5.7	72	<0.1	17.3	16.1	752	3.41	2.5	0.4	0.6	1.9	40	<0.1	0.2	<0.1	76	0.41	0.070
ROS 141829	Soil	0.2	19.0	5.7	107	<0.1	16.9	17.3	682	4.43	2.9	0.6	0.5	2.1	83	<0.1	0.2	<0.1	91	0.89	0.120
ROS 141835	Soil	0.5	13.7	4.4	64	<0.1	10.1	8.0	445	2.49	4.5	0.4	<0.5	4.0	16	<0.1	0.3	<0.1	47	0.28	0.088
ROS 141832	Soil	0.3	25.0	4.8	99	<0.1	17.5	10.6	347	2.60	3.6	0.3	2.5	1.5	55	<0.1	0.3	<0.1	52	0.44	0.084
ROS 166010	Soil	0.8	20.4	7.8	72	<0.1	19.6	10.6	502	2.91	7.8	0.4	3.4	4.1	22	<0.1	0.4	0.2	64	0.36	0.036
ROS 166019	Soil	0.5	24.6	10.6	63	0.3	20.2	9.2	567	2.32	6.8	0.9	8.0	1.8	60	0.2	1.7	0.2	41	1.41	0.051
ROS 173279	Soil	0.6	23.7	7.8	67	<0.1	18.3	9.8	407	2.76	6.9	0.7	2.3	4.8	22	<0.1	0.3	0.1	62	0.29	0.061
ROS 166009	Soil	0.4	19.5	4.0	106	<0.1	10.8	9.3	655	3.42	3.9	0.5	1.5	5.1	18	<0.1	0.3	<0.1	55	0.33	0.084
ROS 173440	Soil	0.6	30.4	8.7	34	<0.1	25.0	9.7	322	2.35	9.8	0.6	3.3	2.7	60	0.2	0.6	0.1	52	4.54	0.026
ROS 173280	Soil	0.5	21.4	6.6	83	<0.1	20.8	12.3	560	3.14	7.4	0.9	9.6	5.0	26	<0.1	0.5	<0.1	76	0.43	0.049
ROS 173439	Soil	0.7	32.7	8.1	46	0.1	30.5	9.6	342	2.22	9.0	0.5	2.6	2.2	105	0.2	0.8	0.1	51	7.59	0.061
ROS 173441	Soil	0.6	31.0	8.0	38	0.1	24.3	8.3	275	2.09	10.7	0.5	5.0	2.1	84	0.2	0.6	0.2	50	6.45	0.053
ROS 173445	Soil	0.5	18.2	9.2	44	0.2	17.0	7.3	327	2.23	6.8	1.0	1.9	3.6	38	0.1	1.0	0.2	46	0.89	0.030
ROS 173442	Soil	0.6	29.7	10.1	48	0.1	24.7	9.0	415	2.49	8.8	0.5	2.0	2.9	43	0.2	0.7	0.2	54	1.84	0.033
ROS 173444	Soil	0.5	18.4	9.5	49	0.2	19.0	7.8	328	2.40	7.8	0.7	1.9	4.3	33	<0.1	0.9	0.2	49	0.69	0.029
ROS 173443	Soil	0.7	29.7	9.9	51	0.4	23.1	9.3	644	2.32	7.3	1.7	1.8	3.8	61	0.3	1.5	0.2	44	1.90	0.062
ROS 173435	Soil	0.7	30.0	8.3	48	<0.1	32.3	7.8	584	1.95	12.3	0.9	3.2	1.6	69	0.5	0.8	<0.1	46	5.22	0.071
ROS 173436	Soil	0.8	41.0	10.4	62	0.1	41.5	9.9	769	2.25	18.1	1.0	2.1	2.8	57	0.7	1.2	<0.1	49	3.83	0.086
ROS 141840	Soil	0.2	19.6	4.9	121	<0.1	11.6	11.3	909	3.52	4.2	0.4	2.0	4.2	20	<0.1	0.3	<0.1	69	0.55	0.083
ROS 141837	Soil	0.3	56.4	13.9	53	0.2	24.4	8.2	494	2.37	5.0	0.5	6.9	3.1	60	0.2	0.3	0.1	59	5.54	0.051
ROS 173427	Soil	0.5	11.8	6.1	95	<0.1	18.9	13.2	651	2.10	7.2	0.3	1.8	2.8	20	<0.1	0.3	<0.1	44	0.39	0.049
ROS 173432	Soil	0.6	27.0	10.1	60	0.1	20.8	8.9	433	2.33	8.8	0.7	6.1	3.7	38	0.2	0.7	0.1	49	1.43	0.063
ROS 141839	Soil	0.5	24.3	7.0	63	<0.1	19.0	11.1	494	2.54	6.9	0.4	1.2	3.3	27	<0.1	0.4	0.1	56	0.42	0.039
ROS 141834	Soil	0.5	19.6	7.6	53	<0.1	17.1	8.6	388	2.42	7.8	0.6	1.5	3.5	25	0.1	0.6	0.2	55	0.25	0.023
ROS 173431	Soil	0.3	26.9	9.0	62	<0.1	20.5	9.3	339	2.44	7.7	0.5	0.7	3.9	28	0.1	0.5	0.2	53	0.65	0.061
ROS 173430	Soil	0.3	25.2	8.4	53	<0.1	21.1	9.4	395	2.68	7.9	0.7	2.4	4.3	28	<0.1	0.5	0.1	57	0.48	0.034
ROS 141838	Soil	0.4	23.5	6.3	54	<0.1	21.9	9.4	437	2.29	7.1	0.8	7.3	3.0	51	0.3	0.3	<0.1	58	2.39	0.088
ROS 141833	Soil	0.4	11.2	4.2	64	<0.1	9.2	7.8	369	2.34	4.3	0.5	0.7	3.2	25	<0.1	0.2	<0.1	47	0.29	0.055

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15																
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 159377	Soil	39	26	0.41	310	0.082	<1	1.35	0.014	0.10	<0.1	0.02	4.5	<0.1	<0.05	6	0.9	<0.2
ROS 141851	Soil	12	27	0.66	276	0.068	2	1.41	0.024	0.08	0.2	0.06	3.6	<0.1	0.06	4	0.6	<0.2
ROS 141830	Soil	5	50	1.74	422	0.240	1	2.28	0.009	0.58	0.1	0.01	4.2	0.2	<0.05	9	<0.5	<0.2
ROS 141829	Soil	5	33	1.76	315	0.226	<1	2.88	0.010	0.76	<0.1	<0.01	3.6	0.2	<0.05	11	0.6	<0.2
ROS 141835	Soil	8	15	0.74	184	0.136	<1	1.63	0.007	0.39	0.1	0.01	4.5	0.2	<0.05	7	<0.5	<0.2
ROS 141832	Soil	9	21	1.20	138	0.138	<1	1.69	0.009	0.29	<0.1	0.01	1.2	0.2	<0.05	7	<0.5	<0.2
ROS 166010	Soil	12	29	0.93	210	0.099	<1	1.88	0.013	0.17	0.1	0.02	5.6	<0.1	<0.05	6	<0.5	0.2
ROS 166019	Soil	12	23	0.53	480	0.031	5	1.24	0.019	0.09	0.2	0.09	3.0	<0.1	<0.05	3	<0.5	0.2
ROS 173279	Soil	12	29	0.70	164	0.097	1	1.83	0.011	0.32	0.1	0.02	5.3	0.1	<0.05	7	<0.5	<0.2
ROS 166009	Soil	35	16	1.22	305	0.142	<1	1.95	0.006	0.36	<0.1	0.02	14.2	0.2	<0.05	8	<0.5	<0.2
ROS 173440	Soil	12	26	0.44	220	0.056	3	1.39	0.018	0.07	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173280	Soil	13	32	1.47	195	0.167	<1	2.20	0.012	0.28	<0.1	0.03	7.6	0.1	<0.05	7	<0.5	<0.2
ROS 173439	Soil	10	27	0.60	253	0.050	4	1.29	0.024	0.07	0.1	0.07	3.4	<0.1	<0.05	3	<0.5	0.2
ROS 173441	Soil	10	25	0.63	211	0.044	3	1.41	0.018	0.07	0.2	0.09	3.6	<0.1	<0.05	3	<0.5	0.2
ROS 173445	Soil	12	24	0.43	315	0.050	2	1.45	0.021	0.06	0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 173442	Soil	13	27	0.59	321	0.057	2	1.56	0.026	0.05	0.1	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 173444	Soil	14	26	0.47	319	0.058	2	1.45	0.024	0.06	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 173443	Soil	15	23	0.44	509	0.048	3	1.36	0.023	0.07	0.1	0.09	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 173435	Soil	16	35	2.26	195	0.041	3	1.29	0.017	0.06	0.2	0.12	3.6	<0.1	<0.05	3	0.6	<0.2
ROS 173436	Soil	22	32	1.97	244	0.044	2	1.45	0.013	0.08	0.2	0.26	5.1	0.1	<0.05	4	0.5	<0.2
ROS 141840	Soil	17	15	1.54	264	0.198	<1	2.19	0.019	0.74	<0.1	0.02	10.6	0.2	<0.05	9	<0.5	<0.2
ROS 141837	Soil	9	26	1.73	226	0.134	2	2.01	0.015	0.37	<0.1	0.04	5.8	0.2	<0.05	5	<0.5	<0.2
ROS 173427	Soil	11	28	1.39	182	0.137	<1	1.79	0.009	0.27	0.1	<0.01	4.9	0.2	<0.05	5	<0.5	<0.2
ROS 173432	Soil	13	23	0.67	267	0.081	2	1.36	0.026	0.12	0.2	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 141839	Soil	10	26	0.85	217	0.134	<1	1.82	0.017	0.23	0.1	0.02	5.0	0.1	<0.05	6	<0.5	<0.2
ROS 141834	Soil	10	28	0.56	185	0.108	<1	1.52	0.015	0.13	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173431	Soil	14	23	0.63	232	0.099	1	1.43	0.021	0.13	0.2	0.04	4.7	0.1	<0.05	4	<0.5	<0.2
ROS 173430	Soil	15	30	0.62	262	0.111	<1	1.61	0.023	0.10	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
ROS 141838	Soil	10	27	1.53	196	0.110	2	1.60	0.023	0.19	0.2	0.03	3.4	0.2	<0.05	4	<0.5	<0.2
ROS 141833	Soil	7	14	0.90	164	0.162	1	1.60	0.009	0.47	<0.1	<0.01	3.1	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173434	Soil		0.6	34.0	18.9	74	0.2	28.1	8.4	493	2.24	11.0	1.0	2.6	1.8	63	0.7	1.0	0.1	48	3.84	0.072
ROS 173428	Soil		0.6	27.2	6.6	81	<0.1	17.3	12.2	653	2.96	6.5	0.7	1.5	3.8	24	<0.1	0.4	0.1	69	0.50	0.062
ROS 141831	Soil		0.9	17.8	7.5	53	<0.1	13.1	7.4	323	2.52	6.2	0.4	0.9	2.2	25	<0.1	0.4	<0.1	56	0.35	0.067
ROS 141836	Soil		0.6	14.6	7.6	78	<0.1	13.7	8.8	355	2.73	5.8	0.4	<0.5	2.6	41	<0.1	0.3	<0.1	58	0.35	0.052
ROS 173438	Soil		0.7	30.2	8.1	44	0.1	22.4	8.3	341	1.96	10.0	1.0	6.6	1.0	76	0.3	0.8	0.1	43	3.82	0.071
ROS 166014	Soil		0.5	33.4	12.6	70	<0.1	24.7	10.7	498	2.67	7.9	0.8	2.8	3.7	43	0.1	0.7	0.2	55	1.00	0.054
ROS 166006	Soil		0.3	8.1	4.4	141	<0.1	12.9	14.1	571	3.13	7.1	0.4	1.0	2.3	30	<0.1	0.3	<0.1	44	0.37	0.089
ROS 166002	Soil		0.4	9.7	3.5	52	<0.1	9.2	7.1	546	1.87	7.0	0.4	<0.5	5.9	14	<0.1	0.3	<0.1	31	0.22	0.042
ROS 173433	Soil		0.5	25.7	7.9	56	<0.1	17.5	8.2	365	2.42	6.8	1.4	1.6	3.5	34	<0.1	0.5	0.1	51	0.85	0.045
ROS 166016	Soil		1.0	27.6	15.0	76	0.1	15.2	9.5	322	2.79	6.7	0.6	6.1	8.4	33	0.2	1.1	0.1	58	1.04	0.046
ROS 166005	Soil		<0.1	6.1	3.0	77	<0.1	16.6	15.6	668	2.25	3.7	0.3	0.5	1.6	20	<0.1	0.2	<0.1	52	0.76	0.062
ROS 166001	Soil		0.6	15.6	7.7	52	<0.1	17.9	8.2	320	2.77	8.9	0.4	1.2	3.2	22	0.1	0.5	0.1	64	0.23	0.027
ROS 173429	Soil		0.4	20.7	9.3	68	<0.1	14.4	8.9	374	2.41	3.5	0.7	3.4	3.6	15	<0.1	0.3	0.1	45	0.27	0.040
ROS 166013	Soil		0.6	29.8	10.2	66	0.1	21.6	10.3	439	2.32	6.0	0.6	6.6	3.3	30	0.1	0.5	0.1	49	0.86	0.044
ROS 166008	Soil		0.3	22.0	4.1	89	<0.1	16.2	12.2	558	2.91	3.4	0.6	2.8	5.4	12	<0.1	0.3	<0.1	66	0.21	0.044
ROS 166003	Soil		0.6	12.7	6.1	72	<0.1	14.6	9.4	320	2.39	4.3	0.3	2.9	1.8	36	<0.1	0.3	<0.1	56	0.27	0.046
ROS 173437	Soil		0.2	17.4	7.3	61	<0.1	14.6	6.9	192	1.68	2.9	0.9	7.4	3.3	29	0.2	0.3	0.1	33	1.02	0.052
ROS 166015	Soil		0.5	28.1	8.9	62	0.1	22.2	9.7	402	2.31	6.2	0.7	4.1	3.3	34	0.2	0.6	0.1	49	0.90	0.044
ROS 166007	Soil		0.4	16.0	6.5	80	<0.1	17.9	13.3	465	2.70	6.9	0.5	4.3	3.1	23	<0.1	0.4	<0.1	52	0.26	0.043
ROS 166004	Soil		0.2	23.0	3.0	105	<0.1	43.0	21.0	494	4.03	2.3	0.4	1.3	1.4	53	<0.1	0.1	<0.1	95	0.71	0.153
ROS 141822	Soil		0.8	20.8	8.5	52	<0.1	16.4	7.5	263	2.01	5.0	3.8	5.0	4.8	39	0.2	0.8	0.2	41	0.67	0.060
ROS 141817	Soil		1.5	22.0	11.4	50	0.3	17.3	8.8	474	2.29	8.1	1.0	6.1	8.7	28	<0.1	2.0	0.2	46	0.50	0.020
ROS 141818	Soil		1.0	28.8	10.0	58	0.2	26.7	11.3	359	2.65	10.7	1.1	6.5	6.5	25	<0.1	1.1	0.2	59	0.39	0.029
ROS 141815	Soil		1.0	25.3	10.0	50	0.2	27.2	10.5	319	2.72	9.7	0.7	3.1	8.8	25	<0.1	0.9	0.2	60	0.42	0.021
ROS 147063	Soil		0.3	26.4	4.3	92	<0.1	11.7	14.0	664	3.15	2.3	0.5	2.2	2.4	22	<0.1	0.2	<0.1	70	0.45	0.088
ROS 147059	Soil		0.2	19.8	4.3	57	<0.1	15.8	9.3	455	2.10	2.9	0.7	2.4	5.5	22	<0.1	0.3	<0.1	50	0.47	0.057
ROS 147060	Soil		0.3	17.1	7.2	60	<0.1	18.0	10.5	387	2.47	7.2	1.5	1.8	3.3	29	<0.1	0.3	<0.1	52	0.51	0.054
ROS 147058	Soil		0.5	27.5	6.2	67	<0.1	15.8	11.1	388	2.64	5.6	0.8	2.4	5.5	30	<0.1	1.0	<0.1	59	0.46	0.051
ROS 147056	Soil		0.3	11.8	4.7	60	<0.1	11.8	8.5	370	2.06	4.2	0.5	1.1	3.9	19	<0.1	0.3	<0.1	47	0.36	0.027
ROS 147062	Soil		0.2	19.1	3.8	92	<0.1	22.0	16.9	812	2.85	3.7	0.5	3.1	2.4	23	<0.1	0.2	<0.1	67	0.57	0.053

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173434	Soil	17	28	1.31	211	0.050	3	1.53	0.017	0.08	0.1	0.23	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173428	Soil	14	25	1.10	258	0.141	1	1.71	0.020	0.24	<0.1	0.02	8.2	0.2	<0.05	6	<0.5	<0.2
ROS 141831	Soil	7	20	0.64	186	0.115	1	1.82	0.008	0.25	0.1	0.02	2.0	0.1	<0.05	7	<0.5	<0.2
ROS 141836	Soil	7	28	1.01	176	0.159	<1	2.02	0.007	0.39	<0.1	0.01	2.4	0.1	<0.05	7	<0.5	<0.2
ROS 173438	Soil	10	23	0.60	253	0.044	5	1.10	0.022	0.08	0.1	0.09	2.3	<0.1	<0.05	3	<0.5	<0.2
ROS 166014	Soil	15	26	0.84	315	0.103	1	1.79	0.023	0.16	0.1	0.06	5.4	<0.1	<0.05	6	<0.5	<0.2
ROS 166006	Soil	7	16	1.53	183	0.239	1	2.19	0.011	0.88	<0.1	<0.01	5.8	0.4	<0.05	8	<0.5	<0.2
ROS 166002	Soil	10	16	0.82	112	0.129	<1	1.39	0.013	0.30	0.1	<0.01	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 173433	Soil	14	24	0.60	254	0.103	1	1.54	0.027	0.12	0.1	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2
ROS 166016	Soil	19	18	0.49	159	0.069	<1	1.78	0.015	0.16	0.1	0.06	4.4	0.1	<0.05	6	<0.5	<0.2
ROS 166005	Soil	4	26	3.26	286	0.191	1	2.72	0.013	0.88	<0.1	0.02	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 166001	Soil	8	36	0.67	153	0.111	1	1.88	0.018	0.13	<0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 173429	Soil	12	18	0.72	192	0.098	2	1.26	0.011	0.21	0.1	0.02	6.5	0.1	<0.05	5	<0.5	<0.2
ROS 166013	Soil	12	23	0.71	236	0.078	2	1.44	0.019	0.13	0.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 166008	Soil	17	25	1.35	138	0.165	1	1.76	0.007	0.54	<0.1	0.02	10.6	0.3	<0.05	8	<0.5	<0.2
ROS 166003	Soil	4	27	0.88	162	0.133	1	1.80	0.008	0.33	0.1	<0.01	1.3	0.1	<0.05	6	<0.5	<0.2
ROS 173437	Soil	14	20	0.53	161	0.054	2	1.06	0.015	0.08	0.1	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 166015	Soil	12	23	0.69	264	0.079	2	1.33	0.022	0.10	0.1	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 166007	Soil	8	25	1.13	153	0.164	<1	1.80	0.010	0.40	0.1	0.03	4.3	0.2	<0.05	6	<0.5	0.2
ROS 166004	Soil	5	67	1.79	494	0.272	1	2.50	0.012	1.28	<0.1	<0.01	1.8	0.2	<0.05	9	<0.5	<0.2
ROS 141822	Soil	16	23	0.46	221	0.057	2	1.22	0.019	0.06	0.2	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 141817	Soil	17	27	0.44	237	0.049	2	1.43	0.010	0.11	0.2	0.19	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 141818	Soil	15	36	0.54	249	0.078	2	1.55	0.013	0.13	0.2	0.06	4.6	<0.1	<0.05	4	<0.5	<0.2
ROS 141815	Soil	23	37	0.46	237	0.072	2	1.74	0.010	0.14	0.1	0.10	5.3	<0.1	<0.05	5	<0.5	0.2
ROS 147063	Soil	7	20	1.26	253	0.214	<1	1.91	0.010	0.69	0.1	0.01	3.4	0.2	<0.05	8	<0.5	<0.2
ROS 147059	Soil	18	23	1.41	143	0.112	1	1.78	0.009	0.21	<0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
ROS 147060	Soil	11	24	0.77	208	0.117	1	1.43	0.016	0.17	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 147058	Soil	20	28	0.97	209	0.103	<1	1.81	0.011	0.14	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
ROS 147056	Soil	11	20	0.87	161	0.117	1	1.48	0.012	0.15	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147062	Soil	7	33	2.12	265	0.224	1	2.28	0.013	0.74	<0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 147054	Soil	0.3	47.5	6.5	80	0.2	27.1	11.9	352	2.59	4.1	1.8	1.6	2.8	70	0.1	0.4	<0.1	65	1.26	0.084
ROS 147072	Soil	0.9	33.5	18.4	65	0.2	31.7	8.8	535	1.93	7.1	0.9	10.9	3.7	58	0.6	0.9	<0.1	39	5.12	0.055
ROS 147057	Soil	0.2	11.8	2.5	54	<0.1	7.9	9.1	604	1.52	2.4	0.7	0.7	6.6	16	<0.1	0.2	<0.1	28	0.41	0.060
ROS 147061	Soil	0.4	22.4	6.3	62	<0.1	16.0	11.9	386	2.52	3.5	0.6	2.6	3.4	36	<0.1	0.3	<0.1	65	0.53	0.045
ROS 147055	Soil	0.5	22.9	5.5	54	<0.1	18.8	9.7	376	2.49	6.4	1.0	6.9	4.7	28	<0.1	0.4	<0.1	55	0.41	0.073
ROS 147073	Soil	0.7	29.2	10.1	46	0.2	24.6	9.0	301	1.83	7.3	0.7	3.2	1.0	71	0.2	0.9	0.1	36	4.42	0.059
ROS 165836	Soil	0.6	14.0	6.3	53	<0.1	15.4	7.6	272	2.13	5.6	0.5	0.7	5.2	16	<0.1	0.3	0.1	41	0.23	0.041
ROS 141814	Soil	1.0	18.1	10.7	61	0.2	22.4	12.0	622	2.63	5.9	0.6	1.2	4.5	26	<0.1	0.5	0.2	62	0.35	0.028
ROS 165830	Soil	1.1	21.5	9.8	57	<0.1	24.1	11.2	449	2.66	9.1	1.1	4.4	5.2	24	<0.1	0.5	0.2	60	0.34	0.033
ROS 165832	Soil	0.3	16.5	4.8	50	<0.1	8.6	6.2	210	1.42	2.1	0.8	1.6	6.3	18	<0.1	0.3	<0.1	30	0.21	0.022
ROS 165834	Soil	0.5	15.7	5.3	46	<0.1	11.1	9.3	275	1.74	4.0	0.5	<0.5	6.3	14	<0.1	0.3	<0.1	37	0.27	0.032
ROS 141816	Soil	1.1	27.9	10.1	47	0.2	25.9	10.0	428	2.46	8.1	0.7	3.4	7.3	24	<0.1	0.8	0.1	56	0.37	0.026
ROS 165829	Soil	0.9	14.4	11.4	88	<0.1	14.4	10.7	537	2.67	10.9	0.8	<0.5	5.6	22	0.1	0.8	0.2	49	0.38	0.042
ROS 165833	Soil	0.4	16.3	4.9	45	<0.1	10.4	7.0	198	1.75	2.5	0.4	<0.5	5.9	12	<0.1	0.3	<0.1	32	0.16	0.021
ROS 141819	Soil	2.4	41.3	12.2	66	0.3	27.5	9.3	375	2.63	9.4	2.5	10.8	6.5	30	0.1	2.1	0.2	54	0.50	0.046
ROS 141823	Soil	0.9	29.0	10.4	64	0.1	20.9	9.9	374	2.32	6.2	1.4	3.5	5.7	41	0.2	0.8	0.1	49	0.74	0.050
ROS 141825	Soil	0.7	29.1	10.8	61	<0.1	25.3	10.8	413	2.63	7.5	0.9	2.1	7.1	33	<0.1	0.8	0.2	57	0.54	0.043
ROS 165828	Soil	1.6	55.2	31.9	119	0.5	25.3	18.4	888	3.98	59.4	1.5	1.2	3.4	40	0.4	2.5	0.2	86	0.71	0.039
ROS 141824	Soil	0.8	29.3	10.1	55	<0.1	22.3	10.1	479	2.39	6.2	0.6	3.8	5.3	31	0.1	0.8	0.2	50	0.47	0.054
ROS 141820	Soil	0.7	18.0	7.1	43	<0.1	17.2	6.8	241	2.21	6.0	1.4	1.4	4.0	38	0.1	0.5	0.2	46	0.58	0.040
ROS 141821	Soil	4.0	34.1	10.9	51	0.2	19.9	7.4	374	2.25	6.3	1.3	3.6	7.4	32	0.3	2.6	0.2	39	0.58	0.035
ROS 165831	Soil	0.9	20.1	8.4	47	<0.1	17.1	6.8	245	1.84	3.9	0.8	2.9	5.0	26	<0.1	0.5	0.2	40	0.31	0.032
ROS 159375	Soil	1.0	14.3	6.9	42	<0.1	13.4	6.5	522	2.17	5.5	1.0	3.0	5.1	18	0.1	0.4	0.2	47	0.24	0.029
ROS 159380	Soil	1.1	16.5	8.8	57	0.2	11.0	7.8	401	2.27	4.4	2.0	1.5	3.6	21	<0.1	0.3	0.2	46	0.28	0.060
ROS 159056	Soil	1.2	11.7	9.4	49	<0.1	10.3	7.5	386	2.76	5.6	1.5	<0.5	8.6	21	<0.1	0.3	0.2	51	0.21	0.023
ROS 159043	Soil	1.4	18.8	11.5	164	<0.1	8.1	9.6	494	2.95	3.1	1.6	1.4	7.3	26	0.4	0.2	0.1	60	0.21	0.037
ROS 159378	Soil	1.3	17.7	11.1	65	0.2	12.8	9.0	518	2.60	6.0	2.4	4.6	5.6	23	0.1	0.5	0.2	52	0.31	0.070
ROS 159382	Soil	1.1	19.3	9.0	69	<0.1	15.6	9.2	448	2.43	5.3	1.7	4.6	6.3	25	0.3	0.4	0.2	50	0.35	0.066
ROS 159042	Soil	1.1	24.7	9.3	217	<0.1	5.9	9.0	605	3.40	1.8	1.9	<0.5	11.9	46	0.2	0.1	0.1	63	0.26	0.049
ROS 159372	Soil	0.5	7.3	5.0	57	<0.1	4.6	11.0	665	3.65	2.2	2.0	<0.5	14.8	17	<0.1	0.1	<0.1	46	0.19	0.048

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Project: ROS
 Report Date: November 06, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 147054	Soil	22	36	1.05	110	0.144	1	2.03	0.013	0.29	0.1	0.22	3.2	0.1	<0.05	8	0.6	<0.2
ROS 147072	Soil	21	24	1.19	137	0.035	2	1.32	0.010	0.11	0.1	0.18	4.6	0.1	<0.05	4	<0.5	<0.2
ROS 147057	Soil	17	9	1.17	99	0.109	<1	1.25	0.009	0.16	<0.1	0.02	3.6	0.1	<0.05	4	<0.5	<0.2
ROS 147061	Soil	10	30	1.34	159	0.151	1	2.03	0.011	0.19	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
ROS 147055	Soil	19	24	0.69	155	0.104	<1	1.28	0.020	0.14	0.2	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 147073	Soil	8	22	0.53	231	0.027	4	1.02	0.016	0.08	0.1	0.11	2.2	<0.1	<0.05	3	<0.5	<0.2
ROS 165836	Soil	7	20	0.46	161	0.093	<1	1.36	0.011	0.25	0.1	0.01	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 141814	Soil	13	38	0.44	290	0.066	<1	1.72	0.010	0.07	0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165830	Soil	13	36	0.54	245	0.084	<1	1.74	0.012	0.07	<0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
ROS 165832	Soil	8	11	0.32	124	0.075	<1	1.02	0.008	0.24	<0.1	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
ROS 165834	Soil	6	15	0.41	92	0.093	<1	1.17	0.011	0.21	0.1	<0.01	2.7	0.1	<0.05	4	<0.5	<0.2
ROS 141816	Soil	20	35	0.44	278	0.069	<1	1.49	0.012	0.09	0.1	0.11	5.0	<0.1	<0.05	4	<0.5	<0.2
ROS 165829	Soil	13	21	0.50	252	0.058	2	1.62	0.011	0.22	0.2	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 165833	Soil	6	16	0.39	105	0.081	<1	1.15	0.010	0.22	<0.1	<0.01	3.1	0.1	<0.05	4	<0.5	<0.2
ROS 141819	Soil	19	31	0.58	300	0.061	1	1.51	0.019	0.08	0.2	0.17	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 141823	Soil	17	26	0.55	218	0.069	1	1.34	0.023	0.09	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 141825	Soil	20	31	0.57	245	0.085	2	1.58	0.022	0.09	0.1	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165828	Soil	16	30	0.92	248	0.072	2	2.08	0.015	0.12	0.2	0.12	7.4	<0.1	<0.05	8	<0.5	<0.2
ROS 141824	Soil	16	24	0.52	256	0.070	2	1.33	0.029	0.10	0.2	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 141820	Soil	12	25	0.49	232	0.058	1	1.25	0.021	0.05	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
ROS 141821	Soil	21	21	0.39	254	0.039	3	1.19	0.016	0.07	0.1	0.13	2.9	<0.1	<0.05	4	0.8	0.2
ROS 165831	Soil	12	24	0.39	196	0.080	<1	1.35	0.018	0.10	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 159375	Soil	25	24	0.40	225	0.064	<1	1.31	0.010	0.11	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	0.2
ROS 159380	Soil	30	21	0.39	203	0.055	1	1.55	0.011	0.07	0.2	0.07	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 159056	Soil	15	19	0.66	113	0.104	<1	1.79	0.012	0.15	<0.1	<0.01	2.7	0.1	<0.05	6	0.7	<0.2
ROS 159043	Soil	15	14	0.85	180	0.157	<1	1.94	0.011	0.65	0.1	<0.01	2.5	0.3	<0.05	7	<0.5	<0.2
ROS 159378	Soil	32	23	0.39	214	0.060	2	1.69	0.010	0.08	0.2	0.05	3.2	<0.1	<0.05	6	0.6	<0.2
ROS 159382	Soil	25	24	0.45	211	0.068	1	1.38	0.015	0.08	0.2	0.03	3.1	<0.1	<0.05	5	1.1	<0.2
ROS 159042	Soil	21	11	1.04	203	0.200	<1	2.21	0.013	0.98	<0.1	<0.01	5.0	0.6	<0.05	9	<0.5	0.4
ROS 159372	Soil	14	9	0.74	105	0.116	<1	1.98	0.010	0.42	<0.1	<0.01	2.7	0.2	<0.05	8	0.5	0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159383	Soil	0.7	26.9	12.7	48	0.2	12.7	5.5	247	2.13	5.0	3.4	2.0	0.8	22	0.1	0.3	0.3	33	0.22	0.103
ROS 159373	Soil	1.1	13.9	8.0	69	<0.1	9.2	5.8	751	2.49	3.2	2.4	1.2	13.9	16	<0.1	0.8	0.2	37	0.26	0.041
ROS 159033	Soil	1.6	24.2	7.9	62	<0.1	10.2	5.4	267	2.76	3.8	1.6	2.5	9.7	52	<0.1	0.3	0.5	48	0.12	0.019
ROS 164965	Soil	1.1	15.2	8.3	61	<0.1	11.8	8.8	569	3.29	5.2	1.0	3.2	9.3	13	<0.1	0.4	0.1	68	0.11	0.018
ROS 159381	Soil	1.1	15.6	8.8	65	<0.1	13.3	10.4	617	2.39	4.8	1.4	2.6	5.9	21	0.1	0.3	0.3	49	0.28	0.055
ROS 159385	Soil	0.9	13.4	7.8	56	0.1	11.8	4.9	164	2.04	4.1	2.1	1.5	3.1	26	<0.1	0.3	0.2	31	0.29	0.063
ROS 159028	Soil	1.1	14.7	9.9	51	0.2	11.1	6.9	460	2.02	4.2	0.6	1.1	3.0	18	0.1	0.3	0.2	59	0.17	0.027
ROS 159371	Soil	0.5	6.7	4.6	56	<0.1	3.8	12.1	748	3.75	1.4	2.1	<0.5	15.4	16	<0.1	0.1	<0.1	44	0.19	0.050
ROS 173191	Soil	0.7	29.5	37.5	51	0.3	20.6	7.8	349	2.37	6.8	1.1	14.7	8.6	25	<0.1	3.3	0.2	47	0.32	0.028
ROS 173190	Soil	0.8	18.4	12.5	126	<0.1	15.8	13.2	571	3.75	7.5	1.2	1.9	12.9	44	0.2	1.9	0.1	73	0.42	0.061
ROS 147081	Soil	0.5	28.2	8.5	46	0.2	20.2	6.5	237	1.93	9.8	0.5	5.9	2.2	94	0.2	0.8	0.2	41	8.13	0.046
ROS 147066	Soil	0.3	29.3	7.7	62	0.1	15.9	8.9	420	2.26	4.0	1.9	3.6	2.7	44	<0.1	0.5	0.1	52	1.15	0.062
ROS 173193	Soil	1.1	16.6	9.2	85	0.3	19.5	11.8	656	3.05	8.2	0.6	8.9	7.2	39	0.2	0.9	0.2	65	0.48	0.076
ROS 147084	Soil	1.2	33.9	17.5	123	0.5	16.5	11.3	729	3.89	6.1	1.8	4.8	9.3	36	0.2	2.3	0.6	72	0.53	0.089
ROS 147070	Soil	0.6	24.5	33.7	54	0.2	26.3	8.1	317	1.93	13.6	0.8	4.7	1.7	74	0.3	1.5	<0.1	40	5.39	0.054
ROS 147069	Soil	0.4	35.5	19.9	67	0.2	25.3	9.1	437	2.38	10.6	0.6	3.1	2.3	51	0.4	0.8	0.1	52	2.63	0.069
ROS 173189	Soil	0.6	14.8	14.8	54	<0.1	16.3	7.8	445	2.40	6.6	1.3	3.9	6.1	25	<0.1	0.9	0.1	51	0.31	0.036
ROS 147083	Soil	3.5	29.0	14.2	123	0.2	16.7	12.5	1111	4.01	3.8	3.0	2.4	10.1	21	0.2	2.4	0.8	52	0.36	0.043
ROS 147068	Soil	0.4	38.6	18.7	86	0.3	20.6	11.4	580	2.79	5.7	0.6	3.2	3.5	64	0.5	0.7	<0.1	61	4.50	0.135
ROS 147067	Soil	0.7	24.8	6.3	92	<0.1	13.2	10.0	577	3.15	4.2	1.2	2.7	5.5	24	<0.1	0.3	0.1	62	0.64	0.058
ROS 173192	Soil	0.8	20.0	14.7	86	<0.1	21.2	10.2	454	3.25	7.8	1.5	4.1	9.7	27	0.1	1.8	0.2	59	0.36	0.054
ROS 147082	Soil	3.4	28.9	14.7	121	0.2	15.9	12.6	1153	4.07	3.5	3.1	5.6	10.1	21	0.1	2.4	0.8	56	0.37	0.046
ROS 147065	Soil	0.5	60.5	47.9	105	0.2	13.2	12.1	671	3.48	4.2	1.6	3.0	5.3	30	0.2	0.5	0.2	78	0.88	0.068
ROS 147071	Soil	0.6	33.7	10.8	60	<0.1	30.4	10.2	521	2.57	11.2	0.6	4.3	2.0	49	0.4	0.6	0.1	57	2.59	0.068
ROS 173257	Soil	0.4	15.9	11.9	94	0.2	8.0	6.9	309	2.64	7.6	0.8	2.9	7.3	20	<0.1	2.1	0.2	27	0.27	0.029
ROS 173265	Soil	0.3	23.9	7.8	80	<0.1	13.1	7.8	361	2.24	4.5	0.6	2.9	10.7	77	0.1	0.6	<0.1	37	2.99	0.040
ROS 173255	Soil	0.3	27.1	9.4	138	<0.1	10.0	12.9	682	3.41	11.0	0.9	2.0	4.7	133	<0.1	1.2	<0.1	62	0.77	0.099
ROS 173246	Soil	0.6	19.6	8.1	84	<0.1	9.0	6.0	441	2.69	4.2	1.8	14.4	22.1	16	<0.1	0.5	0.2	36	0.28	0.059
ROS 173252	Soil	0.9	26.0	8.6	132	0.1	10.1	8.1	493	3.52	5.6	1.2	4.6	19.4	20	0.1	1.1	0.1	48	0.48	0.076
ROS 173266	Soil	0.5	25.3	8.6	72	<0.1	18.6	9.3	391	2.78	6.6	1.0	7.5	8.6	39	<0.1	0.7	0.1	50	0.41	0.032

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159383	Soil	24	21	0.22	216	0.022	<1	1.47	0.010	0.05	0.1	0.09	2.0	<0.1	0.06	4	<0.5	<0.2
ROS 159373	Soil	40	15	0.31	201	0.057	1	1.23	0.015	0.19	0.2	0.02	3.1	0.2	<0.05	5	<0.5	<0.2
ROS 159033	Soil	22	19	0.51	313	0.106	<1	1.66	0.017	0.22	<0.1	0.01	2.5	0.2	0.08	5	0.7	0.4
ROS 164965	Soil	12	26	0.64	150	0.140	<1	2.22	0.010	0.25	0.1	0.02	3.4	0.2	<0.05	8	<0.5	<0.2
ROS 159381	Soil	24	23	0.47	179	0.076	2	1.59	0.012	0.11	0.1	0.03	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 159385	Soil	29	20	0.33	200	0.044	2	1.50	0.012	0.08	0.2	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 159028	Soil	9	21	0.41	281	0.129	<1	1.30	0.010	0.14	0.2	0.02	2.2	0.1	<0.05	6	0.5	0.2
ROS 159371	Soil	15	8	0.74	104	0.133	<1	1.99	0.010	0.47	<0.1	<0.01	2.9	0.3	<0.05	8	<0.5	<0.2
ROS 173191	Soil	19	28	0.43	192	0.066	<1	1.38	0.015	0.08	0.1	0.09	3.9	<0.1	<0.05	4	0.6	0.2
ROS 173190	Soil	13	26	0.82	205	0.088	2	2.35	0.010	0.36	0.3	0.04	5.1	<0.1	<0.05	9	0.6	<0.2
ROS 147081	Soil	13	19	0.54	213	0.031	2	1.27	0.014	0.05	0.2	0.20	3.0	<0.1	0.06	4	0.9	<0.2
ROS 147066	Soil	13	21	0.77	247	0.096	2	1.42	0.017	0.20	<0.1	0.04	5.1	0.1	0.07	5	1.0	<0.2
ROS 173193	Soil	11	33	0.71	256	0.079	2	2.07	0.010	0.25	0.3	0.05	3.7	<0.1	<0.05	6	0.6	<0.2
ROS 147084	Soil	30	21	0.83	287	0.040	2	2.16	0.012	0.19	0.1	0.08	4.8	<0.1	<0.05	9	0.8	<0.2
ROS 147070	Soil	11	23	1.93	157	0.048	2	1.25	0.019	0.06	0.1	0.07	3.2	<0.1	0.05	3	0.9	<0.2
ROS 147069	Soil	15	28	1.04	192	0.065	3	1.58	0.020	0.08	0.1	0.16	4.0	<0.1	0.06	4	0.7	<0.2
ROS 173189	Soil	13	29	0.43	184	0.046	<1	1.65	0.011	0.13	0.2	0.03	4.2	<0.1	<0.05	6	0.8	<0.2
ROS 147083	Soil	21	22	0.59	453	0.030	2	1.81	0.012	0.22	0.1	0.04	4.7	<0.1	<0.05	7	0.5	<0.2
ROS 147068	Soil	15	20	1.80	258	0.066	<1	2.00	0.011	0.38	<0.1	0.18	4.6	0.2	<0.05	6	1.0	<0.2
ROS 147067	Soil	19	20	0.98	215	0.119	<1	1.86	0.015	0.40	0.1	0.02	7.5	0.1	<0.05	8	1.0	<0.2
ROS 173192	Soil	24	30	0.58	236	0.047	1	1.89	0.011	0.14	0.2	0.06	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147082	Soil	21	23	0.54	451	0.030	2	1.73	0.012	0.23	0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
ROS 147065	Soil	26	17	0.90	303	0.112	1	2.00	0.016	0.56	0.1	0.03	7.6	0.2	<0.05	8	1.0	<0.2
ROS 147071	Soil	17	33	1.14	233	0.059	2	1.59	0.022	0.09	0.2	0.05	3.7	<0.1	<0.05	4	0.7	<0.2
ROS 173257	Soil	26	13	0.58	346	0.013	3	1.58	0.018	0.10	0.2	0.09	3.3	0.1	<0.05	5	<0.5	0.2
ROS 173265	Soil	15	15	0.71	189	0.119	<1	1.25	0.019	0.20	0.4	0.04	2.1	0.2	0.08	5	<0.5	<0.2
ROS 173255	Soil	17	21	1.29	279	0.199	<1	2.23	0.012	0.31	0.1	0.06	2.1	0.1	<0.05	10	<0.5	<0.2
ROS 173246	Soil	47	14	0.59	152	0.106	2	1.53	0.012	0.56	0.2	0.05	3.6	0.4	<0.05	7	<0.5	<0.2
ROS 173252	Soil	44	21	0.76	243	0.055	<1	1.60	0.014	0.23	0.2	0.07	5.5	<0.1	<0.05	9	<0.5	<0.2
ROS 173266	Soil	21	26	0.61	260	0.103	<1	1.58	0.021	0.15	0.3	0.06	4.0	0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165874	Soil	0.6	28.7	9.5	94	<0.1	24.8	13.0	633	3.25	7.4	1.3	1.1	16.2	46	<0.1	0.8	0.1	61	0.46	0.053
ROS 173247	Soil	0.6	18.1	8.4	82	<0.1	15.0	9.9	431	2.82	6.9	0.8	<0.5	13.6	32	<0.1	0.5	0.2	48	0.29	0.037
ROS 173256	Soil	0.4	17.2	3.1	94	<0.1	68.6	14.3	354	2.91	3.4	0.4	2.1	1.9	65	<0.1	0.9	<0.1	71	0.68	0.120
ROS 173253	Soil	0.5	31.6	10.4	104	<0.1	25.1	10.6	459	3.05	8.4	0.7	11.5	5.9	36	<0.1	1.3	0.1	65	0.55	0.065
ROS 165875	Soil	0.3	14.0	10.3	134	<0.1	10.8	9.3	351	2.28	4.5	1.1	2.6	3.5	22	<0.1	0.9	0.1	58	0.29	0.070
ROS 173245	Soil	1.2	18.3	17.0	66	<0.1	15.9	7.3	230	2.53	7.2	1.0	3.3	9.5	25	<0.1	0.6	0.2	52	0.31	0.037
ROS 173271	Soil	0.3	25.5	8.6	90	<0.1	8.6	9.7	561	3.02	4.2	1.5	5.9	8.3	37	0.2	3.1	0.1	30	0.48	0.061
ROS 173249	Soil	0.5	19.3	8.1	57	<0.1	17.7	8.3	370	2.34	6.4	0.7	<0.5	5.2	30	<0.1	0.7	0.2	53	0.34	0.028
ROS 173243	Soil	0.6	22.9	8.5	52	0.2	16.1	7.6	357	2.43	6.4	1.3	8.6	5.4	28	<0.1	0.8	0.1	51	0.49	0.060
ROS 173244	Soil	0.8	23.5	9.2	52	0.2	17.5	7.7	359	2.46	6.6	1.2	9.8	5.5	28	<0.1	0.8	0.2	52	0.48	0.055
ROS 159398	Soil	0.9	23.1	54.6	164	<0.1	10.1	10.0	439	3.43	5.3	3.2	1.8	22.5	26	0.2	0.3	0.8	47	0.33	0.071
ROS 159399	Soil	1.8	44.5	18.6	148	<0.1	8.5	11.8	457	3.97	4.7	3.1	<0.5	10.0	25	0.2	0.3	0.2	62	0.30	0.076
ROS 159401	Soil	1.5	26.4	27.4	100	0.2	11.4	10.7	471	3.03	5.6	4.5	1.6	15.5	36	0.2	0.4	0.3	46	0.46	0.088
ROS 159402	Soil	1.7	26.1	28.4	106	0.2	10.7	12.4	528	2.97	5.5	4.2	2.0	15.9	34	0.1	0.4	0.3	49	0.45	0.082
ROS 164349	Soil	0.7	21.6	6.8	73	0.1	18.0	10.5	413	2.39	6.7	1.3	2.4	3.3	42	0.2	0.4	0.1	51	0.68	0.076
ROS 164348	Soil	0.7	21.9	6.7	70	<0.1	17.1	10.8	416	2.45	6.9	1.2	1.9	3.2	40	0.2	0.4	0.1	50	0.64	0.077
ROS 159081	Soil	1.7	65.3	13.4	60	0.4	23.1	10.3	725	2.41	5.3	9.4	2.5	14.2	66	0.2	0.6	0.1	46	1.17	0.072
ROS 159085	Soil	1.1	16.7	10.1	56	<0.1	18.7	10.2	362	3.03	6.6	1.2	<0.5	7.1	21	<0.1	0.6	0.2	65	0.28	0.020
ROS 159078	Soil	1.1	22.6	16.4	111	<0.1	13.5	12.4	736	3.89	5.7	2.3	<0.5	22.9	27	0.1	0.4	0.2	55	0.32	0.081
ROS 159068	Soil	1.0	20.0	5.7	49	<0.1	9.5	7.6	509	2.45	4.8	1.8	1.4	9.7	32	<0.1	0.3	1.0	46	0.38	0.056
ROS 159400	Soil	0.9	21.2	17.5	83	0.2	12.3	9.5	282	2.46	6.1	3.3	2.3	13.1	27	0.2	0.4	0.2	55	0.30	0.067
ROS 159397	Soil	0.8	15.8	11.5	68	<0.1	11.1	9.6	314	2.77	5.7	2.6	6.0	17.6	24	<0.1	0.4	0.2	50	0.35	0.074
ROS 160130	Soil	2.1	32.4	8.3	100	0.2	19.7	5.9	152	2.49	4.6	1.2	0.7	1.8	27	0.2	0.2	0.2	62	0.14	0.043
ROS 173278	Soil	0.6	13.2	8.8	67	<0.1	15.3	7.3	363	2.26	5.5	0.4	1.4	5.6	30	<0.1	0.6	0.1	50	0.26	0.032
ROS 173251	Soil	0.9	27.9	8.7	131	<0.1	11.6	9.0	523	3.62	5.4	1.3	3.9	19.9	18	<0.1	1.0	<0.1	50	0.48	0.075
ROS 173254	Soil	0.2	27.0	10.0	143	<0.1	11.7	14.3	760	3.47	11.0	1.0	2.7	5.6	124	<0.1	1.2	<0.1	64	0.83	0.093
ROS 173467	Soil	0.6	32.5	9.2	74	0.1	26.2	10.4	523	2.57	9.8	0.5	3.8	4.7	37	0.3	0.8	0.2	51	0.80	0.053
ROS 173459	Soil	0.8	18.8	8.2	53	<0.1	14.3	8.4	345	2.38	6.6	1.0	3.9	9.6	18	<0.1	0.8	0.1	45	0.25	0.020
ROS 160117	Soil	1.1	80.3	7.7	97	0.3	33.7	10.2	203	3.32	2.5	1.4	2.4	6.6	35	0.1	0.1	0.5	67	0.22	0.070
ROS 164293	Soil	0.7	21.7	4.0	53	<0.1	14.0	9.9	286	2.69	4.1	0.5	0.8	2.0	18	0.1	0.3	<0.1	56	0.31	0.064

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165874	Soil	28	36	0.85	289	0.134	2	2.31	0.009	0.23	0.1	0.04	4.9	0.1	<0.05	9	<0.5	<0.2
ROS 173247	Soil	14	27	0.73	194	0.142	1	1.90	0.009	0.47	0.1	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 173256	Soil	8	247	1.25	185	0.132	2	1.99	0.023	0.10	0.2	0.05	3.5	<0.1	<0.05	8	<0.5	<0.2
ROS 173253	Soil	28	42	0.99	197	0.073	2	1.70	0.018	0.11	0.1	0.05	5.0	<0.1	<0.05	8	0.9	<0.2
ROS 165875	Soil	19	17	0.64	122	0.069	1	1.62	0.010	0.43	0.2	0.12	2.7	0.2	<0.05	9	<0.5	0.2
ROS 173245	Soil	18	29	0.54	189	0.086	2	1.65	0.011	0.16	0.2	0.04	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 173271	Soil	29	8	0.65	361	0.026	3	1.78	0.011	0.31	0.4	0.22	4.0	0.2	<0.05	5	<0.5	<0.2
ROS 173249	Soil	16	30	0.49	241	0.090	1	1.51	0.016	0.08	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173243	Soil	22	26	0.47	205	0.075	2	1.45	0.017	0.12	0.3	0.07	4.2	<0.1	<0.05	5	0.6	<0.2
ROS 173244	Soil	22	29	0.48	217	0.082	<1	1.56	0.017	0.13	0.3	0.07	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 159398	Soil	49	16	0.60	138	0.093	3	1.76	0.015	0.41	0.2	0.02	4.5	0.4	<0.05	8	<0.5	0.2
ROS 159399	Soil	38	13	0.70	244	0.086	2	2.02	0.008	0.44	0.1	0.02	5.8	0.5	<0.05	7	<0.5	<0.2
ROS 159401	Soil	59	18	0.51	134	0.050	2	1.58	0.012	0.17	0.1	0.05	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 159402	Soil	57	18	0.50	128	0.050	2	1.56	0.011	0.17	0.1	0.05	4.8	0.2	<0.05	6	<0.5	<0.2
ROS 164349	Soil	16	24	0.56	227	0.079	2	1.41	0.028	0.10	0.1	0.04	3.6	<0.1	<0.05	4	0.5	<0.2
ROS 164348	Soil	16	23	0.54	230	0.078	2	1.38	0.022	0.10	0.2	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
ROS 159081	Soil	157	25	0.61	306	0.091	2	1.55	0.018	0.24	0.1	0.12	5.6	0.2	<0.05	5	1.5	<0.2
ROS 159085	Soil	21	31	0.55	226	0.081	1	1.95	0.016	0.14	0.1	0.02	4.6	0.1	<0.05	6	<0.5	<0.2
ROS 159078	Soil	40	23	0.90	180	0.159	2	2.02	0.011	0.80	0.1	0.01	5.2	0.6	<0.05	9	<0.5	<0.2
ROS 159068	Soil	39	16	0.51	142	0.093	1	1.55	0.014	0.26	0.1	0.04	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 159400	Soil	71	21	0.50	214	0.073	2	1.97	0.013	0.16	<0.1	0.07	5.1	0.2	<0.05	7	<0.5	<0.2
ROS 159397	Soil	39	20	0.51	168	0.105	2	1.50	0.014	0.29	0.1	0.01	4.2	0.2	<0.05	5	<0.5	<0.2
ROS 160130	Soil	13	37	0.64	192	0.103	2	1.80	0.012	0.17	<0.1	0.03	2.8	0.2	<0.05	8	0.7	<0.2
ROS 173278	Soil	8	31	0.63	228	0.106	2	1.75	0.014	0.18	0.4	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 173251	Soil	44	23	0.79	236	0.053	<1	1.63	0.014	0.24	0.3	0.09	5.6	<0.1	<0.05	10	<0.5	<0.2
ROS 173254	Soil	19	24	1.53	308	0.218	1	2.47	0.013	0.33	0.2	0.05	2.1	0.2	<0.05	10	<0.5	<0.2
ROS 173467	Soil	16	26	0.51	334	0.076	2	1.49	0.027	0.08	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 173459	Soil	10	27	0.47	175	0.080	<1	1.49	0.014	0.14	0.1	0.06	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160117	Soil	29	38	0.95	226	0.140	1	2.46	0.023	0.62	0.1	0.03	4.0	0.4	0.10	8	<0.5	0.2
ROS 164293	Soil	9	32	0.70	171	0.111	1	1.66	0.026	0.18	0.3	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173463	Soil		0.6	15.2	6.8	61	<0.1	16.7	8.9	615	3.05	7.0	0.6	6.7	9.1	21	<0.1	0.5	0.1	53	0.27	0.040
ROS 164294	Soil		0.7	20.5	4.1	54	<0.1	13.7	9.7	296	2.68	3.2	0.5	3.9	2.2	19	0.1	0.2	<0.1	55	0.35	0.062
ROS 164290	Soil		0.7	13.3	5.6	55	<0.1	11.6	7.3	252	2.52	5.4	0.6	1.9	1.8	18	0.1	0.3	0.1	53	0.24	0.060
ROS 160333	Soil		0.6	11.1	5.5	49	<0.1	10.6	4.9	142	1.90	4.0	0.5	0.8	1.6	21	0.1	0.2	0.1	45	0.24	0.038
ROS 173461	Soil		1.1	15.3	11.2	63	<0.1	19.4	10.1	447	2.90	7.4	1.0	2.4	6.7	25	0.2	0.7	0.2	57	0.28	0.031
ROS 164292	Soil		0.9	29.3	6.0	66	0.1	19.3	11.0	288	2.88	5.1	0.8	3.4	2.9	26	0.1	0.3	0.1	65	0.32	0.056
ROS 160334	Soil		0.7	12.2	5.3	44	<0.1	9.4	5.1	140	1.94	4.2	0.6	4.4	1.5	21	0.1	0.2	0.1	45	0.28	0.047
ROS 164291	Soil		0.9	24.5	5.9	55	0.2	15.6	8.5	210	2.45	4.0	0.6	0.9	2.3	22	0.2	0.2	0.1	58	0.29	0.042
ROS 173465	Soil		0.7	38.5	6.9	61	0.2	26.1	9.1	439	2.48	10.1	0.6	6.6	5.5	68	0.1	0.8	0.1	53	3.20	0.059
ROS 164296	Soil		0.9	16.8	4.5	76	<0.1	11.0	8.3	437	3.37	4.7	1.1	1.4	2.9	20	<0.1	0.2	<0.1	48	0.30	0.063
ROS 164289	Soil		0.6	15.4	6.5	58	<0.1	13.6	7.3	225	2.64	6.0	0.7	3.6	2.1	20	0.2	0.3	0.1	57	0.29	0.072
ROS 164287	Soil		2.9	174.2	4.6	59	0.3	12.6	7.7	225	2.75	2.9	1.1	5.0	4.4	31	0.2	0.2	0.2	61	0.30	0.060
ROS 164703	Soil		0.9	21.3	11.3	83	<0.1	23.0	12.5	571	3.86	6.5	1.5	0.9	34.5	18	<0.1	0.4	0.2	74	0.38	0.034
ROS 164697	Soil		0.6	31.1	15.9	70	0.2	19.4	8.9	404	2.23	4.7	2.3	2.8	5.8	64	0.4	0.6	0.2	42	1.27	0.073
ROS 164701	Soil		0.7	8.7	11.8	56	<0.1	9.9	6.7	421	2.33	4.0	0.9	<0.5	37.9	17	<0.1	0.3	0.1	35	0.24	0.033
ROS 173464	Soil		0.6	11.2	5.7	86	<0.1	12.3	7.1	509	2.68	4.6	0.8	1.2	9.8	18	<0.1	0.6	0.2	44	0.20	0.036
ROS 164696	Soil		1.0	26.3	6.6	81	<0.1	14.7	7.2	416	2.63	5.1	1.3	2.9	7.5	48	0.1	0.3	0.1	52	0.57	0.059
ROS 164705	Soil		0.6	26.9	8.2	45	<0.1	20.0	8.4	305	2.63	7.0	1.1	2.8	11.0	28	<0.1	0.5	0.2	58	0.38	0.026
ROS 173469	Soil		0.7	36.4	7.2	56	0.1	24.3	8.3	387	2.48	9.5	1.0	3.5	4.4	64	0.2	0.6	0.2	52	1.74	0.059
ROS 173462	Soil		0.6	18.2	13.9	75	0.2	9.1	4.5	363	2.56	4.8	1.5	<0.5	12.3	23	0.1	1.5	0.1	36	0.48	0.063
ROS 164704	Soil		0.6	35.2	9.2	53	0.1	26.4	9.5	378	2.56	7.1	3.0	1.8	8.3	46	0.1	0.6	0.2	55	0.78	0.066
ROS 164698	Soil		0.6	34.8	10.8	127	<0.1	27.6	30.4	1459	6.64	1.5	1.5	0.9	6.9	45	0.1	0.6	<0.1	166	2.57	0.144
ROS 173468	Soil		0.8	32.2	8.1	80	0.1	23.6	8.3	446	2.58	8.4	1.7	4.9	4.7	46	0.4	0.7	0.2	47	0.74	0.065
ROS 173460	Soil		1.4	10.8	10.8	87	<0.1	14.1	8.7	494	3.07	5.0	1.3	1.7	8.9	37	0.1	0.6	0.3	63	0.41	0.073
ROS 164699	Soil		0.4	47.3	1.8	79	<0.1	21.6	25.5	718	4.98	2.0	0.4	1.0	1.3	39	<0.1	0.4	<0.1	153	1.44	0.154
ROS 164695	Soil		0.6	23.9	8.9	66	<0.1	16.2	6.9	388	2.30	5.6	1.6	1.8	6.4	56	<0.1	0.4	0.1	46	0.63	0.066
ROS 173470	Soil		0.9	25.2	7.9	59	<0.1	19.9	7.6	470	2.47	6.8	1.2	2.8	6.0	39	0.2	0.7	0.2	51	0.56	0.052
ROS 173466	Soil		0.5	27.2	11.9	61	0.1	17.0	7.7	502	2.59	7.1	0.8	2.4	10.0	30	<0.1	1.4	0.1	45	0.43	0.034
ROS 165561	Soil		0.6	15.0	4.8	53	<0.1	12.7	8.7	388	2.35	4.4	1.1	1.8	5.3	31	0.1	0.3	<0.1	48	0.45	0.067
ROS 173176	Soil		1.2	45.8	55.9	71	0.9	16.6	8.6	401	2.66	8.6	1.7	5.5	13.4	33	0.2	6.2	0.4	39	0.39	0.030

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173463	Soil	17	25	0.75	202	0.127	2	2.00	0.013	0.23	0.1	0.02	4.7	0.2	<0.05	8	<0.5	<0.2
ROS 164294	Soil	9	30	0.69	163	0.108	1	1.54	0.034	0.20	0.4	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164290	Soil	10	21	0.46	129	0.071	2	1.39	0.016	0.06	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	0.2
ROS 160333	Soil	9	16	0.42	109	0.071	1	1.37	0.021	0.05	0.2	0.03	2.8	<0.1	0.05	5	<0.5	<0.2
ROS 173461	Soil	14	31	0.46	198	0.071	2	2.00	0.018	0.14	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 164292	Soil	13	37	0.74	228	0.127	<1	2.00	0.024	0.16	0.3	0.02	4.1	0.1	<0.05	6	0.6	<0.2
ROS 160334	Soil	10	17	0.43	112	0.071	<1	1.33	0.022	0.05	0.1	0.03	3.1	<0.1	0.06	5	<0.5	<0.2
ROS 164291	Soil	10	33	0.62	190	0.120	1	1.86	0.026	0.12	0.2	0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
ROS 173465	Soil	22	24	0.67	199	0.086	2	1.58	0.029	0.16	0.1	0.09	3.9	<0.1	0.08	5	0.6	<0.2
ROS 164296	Soil	18	20	0.83	237	0.118	1	2.10	0.021	0.33	0.2	0.01	6.9	<0.1	<0.05	9	<0.5	<0.2
ROS 164289	Soil	11	22	0.49	146	0.073	1	1.58	0.019	0.06	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164287	Soil	19	25	0.67	244	0.139	<1	1.75	0.025	0.38	0.1	0.03	4.1	0.2	0.11	6	<0.5	<0.2
ROS 164703	Soil	26	47	1.08	169	0.158	1	2.39	0.015	0.80	0.2	0.01	7.5	0.5	<0.05	9	0.5	<0.2
ROS 164697	Soil	29	26	0.46	330	0.056	2	1.57	0.021	0.08	0.1	0.06	4.3	<0.1	0.06	5	0.6	<0.2
ROS 164701	Soil	23	20	0.41	171	0.068	1	1.45	0.011	0.32	<0.1	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
ROS 173464	Soil	24	18	0.61	194	0.068	1	2.24	0.011	0.19	<0.1	0.02	4.1	0.2	<0.05	8	<0.5	<0.2
ROS 164696	Soil	21	30	0.56	177	0.079	1	1.70	0.027	0.13	<0.1	<0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 164705	Soil	19	30	0.52	201	0.107	2	1.77	0.029	0.12	<0.1	0.02	5.9	0.1	<0.05	5	<0.5	<0.2
ROS 173469	Soil	16	25	0.62	298	0.080	1	1.46	0.040	0.09	0.2	0.04	4.2	<0.1	<0.05	5	0.5	<0.2
ROS 173462	Soil	40	12	0.27	185	0.016	3	0.99	0.018	0.16	0.2	0.06	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 164704	Soil	25	34	0.53	313	0.101	3	1.68	0.035	0.12	0.1	0.05	4.9	0.1	<0.05	5	0.7	<0.2
ROS 164698	Soil	21	51	2.07	147	0.203	1	3.18	0.011	1.33	<0.1	0.02	19.0	0.6	<0.05	12	<0.5	<0.2
ROS 173468	Soil	21	26	0.54	286	0.088	2	1.61	0.033	0.13	0.1	0.04	4.3	0.1	<0.05	5	0.5	<0.2
ROS 173460	Soil	25	24	0.63	169	0.079	3	1.91	0.014	0.36	0.1	0.04	4.5	0.2	<0.05	8	<0.5	<0.2
ROS 164699	Soil	8	68	2.43	289	0.171	2	2.95	0.067	0.58	<0.1	0.02	16.2	0.2	<0.05	9	<0.5	<0.2
ROS 164695	Soil	22	23	0.51	133	0.101	2	1.76	0.022	0.16	<0.1	0.02	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 173470	Soil	20	27	0.51	272	0.081	2	1.70	0.033	0.09	0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 173466	Soil	31	21	0.51	257	0.069	3	1.83	0.032	0.14	<0.1	0.07	4.9	0.1	<0.05	6	<0.5	<0.2
ROS 165561	Soil	15	19	0.59	176	0.107	1	1.35	0.022	0.21	0.3	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 173176	Soil	38	22	0.35	256	0.042	4	1.39	0.019	0.14	0.1	0.16	4.7	<0.1	<0.05	4	<0.5	0.2

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Project: ROS
 Report Date: November 06, 2010

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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	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
ROS 165565 Soil	0.8	37.9	11.8	65	0.1	19.1	8.4	350	2.39	4.8	3.9	9.0	10.7	49	0.2	1.5	0.2	45	0.99	0.061
ROS 165564 Soil	0.3	27.8	8.1	56	0.1	17.9	7.6	304	2.24	5.7	1.9	1.9	4.5	44	0.2	0.6	0.1	47	0.75	0.063
ROS 165562 Soil	0.8	18.2	5.7	63	<0.1	14.2	9.6	473	2.57	4.4	1.1	22.4	4.9	36	0.1	0.2	0.1	53	0.54	0.074
ROS 165569 Soil	0.5	15.1	5.0	46	<0.1	11.6	6.6	313	1.84	3.8	0.6	1.0	5.6	23	<0.1	0.4	0.1	36	0.32	0.039
ROS 165566 Soil	0.6	35.8	6.6	80	<0.1	18.0	10.6	534	3.21	5.4	1.7	2.0	9.0	52	<0.1	0.5	0.1	59	1.01	0.070
ROS 164700 Soil	0.5	13.5	15.2	102	<0.1	15.3	9.7	335	2.70	6.2	0.8	1.5	8.5	26	0.2	0.4	0.2	57	0.50	0.025
ROS 165563 Soil	0.8	16.6	6.2	55	<0.1	11.9	9.5	417	2.09	4.1	1.1	1.0	4.7	24	0.1	0.2	0.1	45	0.39	0.067
ROS 165571 Soil	0.5	18.3	4.9	37	<0.1	12.5	5.2	172	1.66	4.9	0.5	4.1	5.6	15	<0.1	0.3	0.1	31	0.25	0.040
ROS 165567 Soil	1.0	16.6	10.2	65	<0.1	15.3	10.2	459	2.77	4.7	0.6	1.4	7.1	24	<0.1	0.4	0.2	47	0.38	0.068
ROS 164702 Soil	0.9	21.8	11.7	81	<0.1	18.5	11.7	540	3.53	8.0	1.2	<0.5	32.5	17	<0.1	0.5	0.2	60	0.45	0.037
ROS 165572 Soil	0.7	34.2	7.4	46	<0.1	24.5	8.9	291	2.38	9.7	0.6	4.7	4.7	25	<0.1	0.6	0.1	48	0.38	0.047
ROS 165570 Soil	0.7	20.2	5.2	37	<0.1	14.7	5.6	191	1.79	5.1	0.5	2.4	5.6	15	<0.1	0.3	<0.1	31	0.26	0.035
ROS 165568 Soil	0.9	15.8	8.5	76	<0.1	14.5	9.8	455	2.56	5.4	0.6	<0.5	6.7	29	0.1	0.5	0.1	45	0.39	0.072
ROS 164694 Soil	0.2	11.6	4.2	54	<0.1	5.9	3.5	252	1.09	2.3	1.0	3.0	7.0	164	<0.1	<0.1	<0.1	23	1.87	0.030
ROS 164964 Soil	1.2	17.2	8.4	63	<0.1	13.4	9.3	603	3.50	6.4	0.9	1.6	9.1	11	<0.1	0.3	0.1	68	0.11	0.018
ROS 173186 Soil	1.0	38.9	9.9	68	<0.1	29.6	11.9	444	2.94	10.3	0.6	4.5	5.7	31	<0.1	0.8	0.2	62	0.48	0.050
ROS 173178 Soil	1.0	9.5	7.1	56	<0.1	9.6	7.7	518	2.02	3.7	0.5	<0.5	3.8	19	0.1	0.3	0.1	40	0.25	0.060
ROS 173182 Soil	1.2	19.4	8.8	56	0.2	18.9	9.7	428	2.50	7.9	0.5	2.8	5.1	27	<0.1	0.6	0.2	55	0.48	0.024
ROS 164963 Soil	1.7	16.0	8.8	88	<0.1	6.5	6.6	627	2.77	4.6	1.3	<0.5	5.1	12	0.1	0.2	0.2	50	0.11	0.039
ROS 173185 Soil	0.4	26.3	7.8	86	<0.1	16.7	9.4	526	3.02	4.5	2.8	<0.5	25.6	32	<0.1	0.5	0.1	48	0.34	0.050
ROS 173179 Soil	0.6	23.9	8.7	50	<0.1	16.1	7.2	263	2.22	7.0	0.9	4.2	9.1	19	<0.1	0.8	0.2	42	0.30	0.032
ROS 173184 Soil	0.7	62.0	9.2	83	<0.1	17.9	9.3	458	3.39	10.3	2.7	0.7	17.3	33	<0.1	0.7	0.2	54	0.45	0.043
ROS 164962 Soil	1.2	23.0	8.0	55	<0.1	15.3	7.0	243	2.37	6.2	0.9	3.0	3.8	21	<0.1	0.3	0.1	55	0.26	0.037
ROS 173177 Soil	0.7	16.2	14.4	89	0.1	11.4	9.0	480	2.51	4.1	0.8	<0.5	9.5	27	0.2	2.8	0.4	42	0.44	0.052
ROS 173183 Soil	1.0	18.2	10.3	67	<0.1	21.4	11.0	561	2.94	6.8	0.7	2.9	6.3	30	<0.1	0.5	0.2	62	0.48	0.042
ROS 173180 Soil	1.1	24.6	11.8	41	<0.1	14.2	5.2	266	1.85	6.3	1.5	4.1	11.7	15	<0.1	1.7	0.2	32	0.23	0.022
ROS 164961 Soil	3.1	31.2	8.9	71	0.1	15.7	8.7	394	2.44	6.1	1.7	1.3	4.3	24	0.3	0.3	0.1	54	0.44	0.055
ROS 173175 Soil	0.8	18.6	7.9	55	0.1	17.4	9.5	525	2.36	6.8	1.5	6.0	5.2	29	<0.1	0.4	0.1	50	0.51	0.065
ROS 173174 Soil	0.4	28.0	8.2	50	0.1	18.9	7.3	269	2.00	4.5	1.7	1.9	3.3	38	0.2	0.5	0.1	44	0.77	0.066
ROS 173181 Soil	0.7	29.5	11.5	54	<0.1	25.2	9.1	364	2.53	10.8	1.7	4.6	5.9	34	<0.1	1.0	0.2	55	0.66	0.028

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
ROS 165565	Soil	38	23	0.52	296	0.066	3	1.43	0.026	0.14	0.2	0.09	4.1	<0.1	<0.05	5	0.5	<0.2
ROS 165564	Soil	25	26	0.47	274	0.072	3	1.45	0.025	0.08	0.1	0.07	4.0	<0.1	<0.05	5	0.7	<0.2
ROS 165562	Soil	16	21	0.64	198	0.122	<1	1.44	0.025	0.27	0.3	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 165569	Soil	12	18	0.38	142	0.084	1	1.31	0.017	0.20	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 165566	Soil	26	25	1.01	200	0.150	2	1.89	0.032	0.17	0.2	0.04	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 164700	Soil	11	29	0.50	335	0.096	2	1.78	0.027	0.18	0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
ROS 165563	Soil	13	17	0.53	161	0.068	<1	1.11	0.013	0.20	0.4	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 165571	Soil	9	15	0.31	128	0.052	1	0.99	0.009	0.12	0.2	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165567	Soil	10	27	0.46	230	0.071	2	1.70	0.011	0.39	0.2	0.01	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 164702	Soil	29	46	0.72	123	0.078	1	1.85	0.010	0.40	0.1	0.02	5.2	0.4	<0.05	8	<0.5	<0.2
ROS 165572	Soil	14	28	0.48	185	0.054	1	1.11	0.016	0.05	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 165570	Soil	10	16	0.32	132	0.060	1	0.99	0.010	0.14	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 165568	Soil	11	23	0.59	208	0.056	<1	1.54	0.007	0.29	0.2	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164694	Soil	23	8	0.40	76	0.029	<1	3.35	0.009	0.19	<0.1	0.02	2.0	<0.1	<0.05	9	<0.5	<0.2
ROS 164964	Soil	10	27	0.68	135	0.117	1	2.28	0.012	0.25	0.1	0.01	3.2	0.2	<0.05	8	<0.5	<0.2
ROS 173186	Soil	15	37	0.66	233	0.068	1	1.55	0.018	0.07	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173178	Soil	7	17	0.35	254	0.049	<1	1.30	0.011	0.16	0.1	0.01	2.1	0.1	<0.05	5	<0.5	<0.2
ROS 173182	Soil	13	34	0.44	235	0.051	<1	1.63	0.010	0.09	0.1	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164963	Soil	6	12	0.65	87	0.121	<1	1.61	0.009	0.43	<0.1	0.02	1.7	0.3	<0.05	8	<0.5	<0.2
ROS 173185	Soil	35	36	0.71	128	0.143	<1	1.75	0.008	0.49	0.2	0.02	2.7	0.3	<0.05	8	<0.5	<0.2
ROS 173179	Soil	18	23	0.41	147	0.056	<1	1.42	0.010	0.11	<0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173184	Soil	34	29	0.62	164	0.107	1	1.91	0.009	0.24	0.2	0.03	3.9	0.1	<0.05	9	<0.5	<0.2
ROS 164962	Soil	12	24	0.54	180	0.072	1	1.67	0.011	0.05	0.1	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 173177	Soil	15	19	0.41	319	0.030	2	1.57	0.008	0.14	0.3	0.09	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 173183	Soil	15	39	0.54	282	0.066	1	1.95	0.009	0.18	0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
ROS 173180	Soil	23	17	0.24	113	0.030	<1	1.12	0.011	0.08	0.1	0.06	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164961	Soil	16	23	0.64	202	0.072	1	1.77	0.016	0.07	0.1	0.05	3.6	0.1	<0.05	6	0.6	<0.2
ROS 173175	Soil	16	28	0.49	196	0.060	<1	1.37	0.017	0.06	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173174	Soil	20	26	0.48	240	0.051	1	1.35	0.018	0.06	0.1	0.07	3.4	<0.1	<0.05	4	0.6	<0.2
ROS 173181	Soil	21	30	0.58	277	0.063	2	1.43	0.019	0.07	0.2	0.05	4.4	<0.1	<0.05	4	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000590.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 147064	Soil	0.3	12.4	2.6	107	<0.1	8.0	11.0	1092	3.34	2.6	0.6	0.9	4.8	12	<0.1	0.2	<0.1	54	0.46	0.090
ROS 164112	Soil	3.9	145.6	11.9	118	0.3	16.1	13.3	807	3.51	6.5	0.6	0.7	3.4	21	0.2	0.3	0.2	61	0.16	0.042
ROS 164109	Soil	1.1	53.4	6.5	81	0.1	10.1	8.0	386	3.02	4.3	1.5	0.9	7.7	42	0.1	0.2	0.1	79	0.20	0.043
ROS 164113	Soil	1.4	36.2	9.0	80	0.2	16.7	8.5	336	2.83	7.1	0.9	0.5	5.0	21	0.2	0.4	0.1	64	0.23	0.030
ROS 164927	Soil	1.2	83.2	9.6	125	<0.1	13.5	11.7	620	2.88	5.0	0.8	1.4	11.2	19	0.1	0.2	0.2	69	0.30	0.042
ROS 164929	Soil	0.8	27.0	8.7	74	<0.1	13.3	9.6	610	3.16	7.0	1.5	<0.5	11.2	31	<0.1	0.3	0.1	59	0.41	0.036
ROS 164111	Soil	1.6	21.6	9.0	63	0.1	21.5	11.2	299	3.62	13.2	0.7	0.8	3.6	14	0.2	0.5	0.2	80	0.15	0.028
ROS 173380	Soil	<0.1	10.7	2.8	61	<0.1	44.4	13.3	469	2.58	2.1	0.4	0.5	1.2	89	<0.1	0.2	<0.1	70	8.35	0.074
ROS 164924	Soil	1.3	18.3	8.9	96	<0.1	9.5	11.5	554	4.56	7.8	0.6	0.6	3.3	25	<0.1	0.3	0.1	107	0.14	0.040
ROS 164110	Soil	0.9	38.7	6.8	110	0.1	10.6	9.8	451	3.35	5.1	1.1	1.3	3.7	31	0.1	0.2	0.2	83	0.19	0.042
ROS 164115	Soil	0.9	35.1	10.3	67	0.1	26.3	9.8	417	2.69	9.2	1.1	4.0	4.5	30	0.1	0.5	0.2	58	0.44	0.058
ROS 173398	Soil	0.6	39.6	8.4	54	0.1	30.5	10.4	437	2.44	10.6	0.5	6.1	3.1	55	0.2	0.7	0.1	56	3.53	0.054
ROS 164116	Soil	1.0	21.9	9.9	65	0.1	18.2	9.7	395	2.44	7.8	1.1	2.3	4.8	25	0.2	0.4	0.2	53	0.34	0.054
ROS 164108	Soil	1.1	30.6	6.4	115	0.1	5.8	12.5	610	3.82	2.2	1.5	1.1	3.6	52	0.2	0.1	0.1	83	0.20	0.052
ROS 164114	Soil	0.9	27.9	9.0	71	<0.1	21.0	9.4	383	2.66	8.0	0.8	3.0	5.3	24	0.1	0.5	0.2	57	0.35	0.055
ROS 173403	Soil	0.8	18.9	11.0	82	0.2	14.2	8.2	448	2.67	6.5	1.2	2.1	12.7	22	<0.1	1.3	0.2	46	0.35	0.039
ROS 173401	Soil	0.6	27.3	9.7	104	0.2	20.0	11.7	571	3.50	6.2	1.0	10.5	8.4	22	<0.1	2.1	0.2	59	0.48	0.056
ROS 173399	Soil	0.5	31.9	8.3	47	0.1	26.1	9.7	391	2.47	11.4	0.4	3.3	2.9	48	0.1	0.5	0.1	56	2.96	0.030
ROS 173389	Soil	0.2	9.2	2.1	18	<0.1	9.9	1.6	145	0.76	4.9	0.5	<0.5	1.0	217	0.3	0.3	<0.1	17	23.52	0.018
ROS 173391	Soil	2.0	33.0	9.1	66	0.1	36.5	11.1	2059	2.50	10.8	0.6	2.8	3.8	48	1.7	1.0	0.1	58	3.46	0.065
ROS 173404	Soil	0.5	35.4	9.4	63	0.2	27.0	10.5	382	2.72	10.9	0.6	12.6	5.3	49	0.1	0.8	0.2	62	1.19	0.074
ROS 173387	Soil	0.5	32.2	14.0	65	0.1	23.9	10.0	474	2.58	9.1	0.5	9.2	3.6	50	0.2	0.6	0.1	57	2.32	0.044
ROS 173400	Soil	0.7	32.5	8.1	64	0.1	28.4	10.5	446	2.49	9.6	0.5	2.2	2.9	49	0.2	0.8	0.2	56	2.97	0.056
ROS 173281	Soil	0.3	11.7	3.6	98	<0.1	23.2	23.3	1063	4.40	5.3	0.5	1.1	2.6	27	<0.1	0.3	<0.1	153	0.67	0.080
ROS 165958	Soil	0.6	16.1	15.8	77	0.1	17.1	9.1	730	3.12	7.3	1.1	1.2	10.8	20	<0.1	0.8	0.2	53	0.45	0.031
ROS 165964	Soil	1.1	23.1	12.7	71	<0.1	16.0	10.5	454	2.68	6.6	1.8	20.8	20.6	24	<0.1	0.7	0.1	43	0.36	0.058
ROS 165959	Soil	0.6	23.3	7.9	57	<0.1	23.5	9.9	529	2.76	9.0	0.6	2.5	9.0	24	0.1	0.5	0.1	55	0.51	0.031
ROS 173381	Soil	0.4	9.1	4.7	73	<0.1	13.8	11.2	573	2.60	5.7	0.5	1.7	3.2	24	<0.1	0.3	<0.1	50	0.42	0.064
ROS 165962	Soil	1.9	12.1	8.5	54	<0.1	10.2	6.2	450	2.33	3.5	1.3	1.4	14.0	19	<0.1	0.7	0.1	34	0.29	0.043
ROS 165957	Soil	0.7	12.7	8.1	72	<0.1	13.0	7.5	599	2.79	5.4	1.2	0.9	10.8	19	<0.1	0.6	<0.1	48	0.27	0.043

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 147064	Soil	18	10	1.47	282	0.178	<1	1.93	0.010	0.92	<0.1	0.02	13.1	0.3	<0.05	9	<0.5	<0.2
ROS 164112	Soil	10	30	1.07	218	0.099	<1	2.51	0.012	0.20	<0.1	0.02	2.9	0.2	0.09	8	0.6	<0.2
ROS 164109	Soil	18	20	0.87	133	0.129	1	2.09	0.015	0.43	<0.1	0.02	4.2	0.2	0.11	8	<0.5	<0.2
ROS 164113	Soil	14	28	0.87	154	0.097	<1	1.99	0.011	0.17	0.1	0.03	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164927	Soil	18	21	1.40	131	0.131	<1	2.54	0.008	0.27	<0.1	0.01	6.3	0.2	<0.05	9	<0.5	<0.2
ROS 164929	Soil	33	20	0.86	237	0.143	1	1.87	0.019	0.47	0.1	0.02	4.8	0.3	<0.05	7	0.5	<0.2
ROS 164111	Soil	9	33	0.74	136	0.117	1	2.27	0.009	0.11	0.1	0.02	3.0	0.1	<0.05	8	<0.5	<0.2
ROS 173380	Soil	4	79	2.53	694	0.171	<1	2.20	0.011	0.92	<0.1	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
ROS 164924	Soil	6	16	1.07	148	0.215	<1	2.75	0.011	0.66	<0.1	0.02	2.8	0.3	<0.05	11	<0.5	<0.2
ROS 164110	Soil	12	20	0.98	170	0.155	1	2.26	0.014	0.60	0.1	0.01	2.9	0.2	0.05	8	<0.5	<0.2
ROS 164115	Soil	15	30	0.62	296	0.075	1	1.64	0.018	0.08	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173398	Soil	12	28	0.63	280	0.065	2	1.55	0.034	0.06	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164116	Soil	16	27	0.58	277	0.067	1	1.66	0.015	0.06	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164108	Soil	19	11	1.09	190	0.143	<1	2.50	0.012	0.91	<0.1	0.02	3.2	0.4	<0.05	9	<0.5	<0.2
ROS 164114	Soil	15	28	0.71	248	0.083	1	1.59	0.024	0.12	0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
ROS 173403	Soil	48	25	0.53	181	0.012	1	1.78	0.008	0.16	0.1	0.07	3.3	<0.1	<0.05	8	<0.5	<0.2
ROS 173401	Soil	26	30	0.91	259	0.039	1	1.87	0.012	0.11	0.1	0.16	3.9	<0.1	<0.05	8	<0.5	<0.2
ROS 173399	Soil	13	29	0.52	324	0.052	1	1.50	0.025	0.05	0.2	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 173389	Soil	4	22	6.98	61	0.017	<1	0.93	0.004	0.04	<0.1	0.10	1.8	<0.1	<0.05	3	<0.5	<0.2
ROS 173391	Soil	18	31	1.98	402	0.059	2	1.62	0.022	0.12	0.2	0.36	4.8	0.1	<0.05	5	<0.5	<0.2
ROS 173404	Soil	19	30	0.80	215	0.059	1	1.48	0.024	0.09	0.2	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173387	Soil	16	24	0.88	260	0.081	2	1.58	0.027	0.10	0.1	0.09	5.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173400	Soil	12	27	0.64	372	0.060	2	1.51	0.041	0.07	0.2	0.06	3.3	<0.1	<0.05	4	0.5	<0.2
ROS 173281	Soil	9	50	3.34	370	0.226	<1	3.60	0.011	1.56	<0.1	<0.01	16.1	0.5	<0.05	12	<0.5	<0.2
ROS 165958	Soil	37	25	0.55	219	0.057	2	2.00	0.012	0.24	0.1	0.03	4.9	0.1	<0.05	7	0.6	<0.2
ROS 165964	Soil	48	25	0.62	142	0.078	<1	1.62	0.010	0.34	0.3	0.06	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 165959	Soil	32	26	0.61	208	0.069	1	1.74	0.018	0.15	0.1	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
ROS 173381	Soil	9	22	1.22	183	0.154	1	1.86	0.011	0.52	0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 165962	Soil	30	18	0.44	191	0.068	<1	1.40	0.009	0.33	0.1	0.14	3.2	0.1	<0.05	6	<0.5	0.2
ROS 165957	Soil	32	21	0.53	175	0.070	<1	1.81	0.008	0.29	<0.1	0.04	4.7	0.1	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165963	Soil	1.1	23.0	10.6	71	<0.1	16.9	10.6	467	2.69	6.8	1.6	14.0	19.5	25	0.1	0.6	0.1	45	0.38	0.055
ROS 165960	Soil	0.9	18.7	8.4	53	<0.1	21.7	9.8	355	2.76	8.7	0.8	3.7	5.9	25	<0.1	0.6	0.1	61	0.36	0.030
ROS 147316	Soil	1.2	13.2	9.6	61	<0.1	14.3	9.4	557	2.86	8.0	1.3	1.1	8.7	18	<0.1	0.5	0.1	49	0.26	0.056
ROS 165951	Soil	0.8	23.6	6.8	44	<0.1	23.0	8.1	248	2.50	8.8	1.0	2.9	5.0	21	<0.1	0.6	0.1	60	0.29	0.031
ROS 165950	Soil	1.1	21.9	12.2	65	<0.1	23.2	9.3	379	2.94	8.3	1.2	4.0	9.5	19	0.1	0.8	0.1	59	0.28	0.028
ROS 147031	Soil	0.8	15.2	5.7	52	<0.1	14.8	7.7	308	2.33	4.8	0.6	1.8	6.4	20	<0.1	0.4	0.2	50	0.25	0.019
ROS 147030	Soil	0.8	16.1	7.6	59	<0.1	18.0	9.2	363	3.14	6.4	0.7	1.5	8.9	24	<0.1	0.8	0.1	60	0.29	0.021
ROS 165952	Soil	1.4	19.1	7.3	87	<0.1	16.1	8.1	352	3.40	7.5	0.7	<0.5	7.1	16	<0.1	0.6	0.2	52	0.23	0.037
ROS 147318	Soil	0.8	24.3	8.4	57	<0.1	26.5	9.5	330	2.90	11.1	1.0	3.2	4.6	26	<0.1	0.7	0.2	62	0.34	0.029
ROS 147033	Soil	1.1	15.2	7.6	48	<0.1	15.2	6.3	234	2.27	5.5	0.7	1.6	7.4	17	<0.1	0.4	0.1	52	0.17	0.011
ROS 147029	Soil	1.2	24.9	10.8	67	<0.1	29.4	10.8	319	3.22	11.3	1.1	4.1	10.6	23	0.1	0.9	0.2	65	0.36	0.020
ROS 165949	Soil	0.9	14.8	32.1	57	<0.1	18.7	7.6	236	2.58	9.0	0.9	1.7	6.7	20	0.1	1.0	0.1	52	0.28	0.032
ROS 147032	Soil	1.4	18.7	7.4	56	<0.1	18.9	6.6	285	2.51	6.8	0.8	9.0	8.9	19	<0.1	0.6	0.1	53	0.22	0.014
ROS 147036	Soil	0.7	15.3	7.9	50	0.2	19.2	7.8	289	2.51	7.6	0.7	3.4	8.0	18	<0.1	0.7	0.3	53	0.25	0.017
ROS 147317	Soil	0.5	23.0	4.6	92	<0.1	16.6	19.7	659	3.86	8.6	0.9	1.5	2.9	63	<0.1	0.9	<0.1	104	0.60	0.064
ROS 165948	Soil	1.1	16.8	8.6	51	<0.1	22.6	9.9	400	2.73	9.6	0.9	2.3	4.8	25	<0.1	0.6	0.2	62	0.39	0.024
ROS 147319	Soil	0.7	22.1	8.4	48	<0.1	22.5	9.1	337	2.67	8.8	0.7	3.5	6.3	24	<0.1	0.8	0.1	59	0.37	0.019
ROS 147035	Soil	0.8	12.9	8.6	64	<0.1	16.6	9.3	374	2.71	6.3	0.6	0.9	5.0	21	0.1	0.7	0.1	65	0.22	0.022
ROS 164329	Soil	0.8	19.9	9.0	61	<0.1	15.5	10.1	376	2.69	5.1	1.1	1.0	6.8	18	<0.1	0.4	0.1	58	0.24	0.043
ROS 164331	Soil	2.7	30.8	8.1	81	0.3	18.9	12.2	350	3.18	6.3	1.7	3.7	2.5	28	0.5	0.3	0.1	75	0.28	0.082
ROS 164338	Soil	0.6	10.0	5.3	48	<0.1	11.5	5.1	121	1.90	4.2	0.5	1.9	0.9	15	<0.1	0.2	0.1	43	0.20	0.043
ROS 164328	Soil	0.9	16.6	6.4	59	<0.1	12.7	11.4	434	3.40	6.7	0.8	0.8	4.3	15	<0.1	0.4	0.1	80	0.27	0.086
ROS 147034	Soil	0.9	13.3	8.9	89	<0.1	20.8	10.5	626	2.65	7.0	0.4	<0.5	2.0	20	0.3	0.5	0.2	66	0.21	0.065
ROS 164334	Soil	0.7	12.8	6.3	65	<0.1	12.0	5.9	157	2.37	4.2	0.5	2.0	1.7	16	0.1	0.2	0.1	48	0.22	0.055
ROS 164339	Soil	0.4	8.0	3.7	36	<0.1	8.4	4.9	119	1.61	3.0	0.4	0.6	0.9	11	<0.1	0.2	<0.1	36	0.16	0.033
ROS 164327	Soil	0.4	38.1	4.0	79	<0.1	12.1	20.6	528	4.38	3.6	0.4	<0.5	1.7	35	<0.1	0.2	<0.1	120	0.69	0.153
ROS 164341	Soil	1.4	22.6	5.4	56	0.1	13.5	10.6	290	2.42	4.6	0.6	4.6	1.4	16	0.1	0.2	<0.1	55	0.25	0.056
ROS 160142	Soil	1.4	73.7	9.9	156	0.1	23.6	16.1	600	4.21	3.1	0.9	0.5	2.1	24	0.4	0.2	0.2	127	0.56	0.086
ROS 164340	Soil	0.8	14.8	4.5	45	<0.1	10.1	5.8	135	1.74	3.2	0.4	1.1	1.1	15	<0.1	0.2	<0.1	37	0.22	0.048
ROS 160143	Soil	0.9	20.4	6.2	78	0.1	17.5	8.8	242	2.53	4.3	0.8	3.2	2.5	25	0.3	0.3	0.1	61	0.37	0.078

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165963	Soil	42	26	0.61	164	0.086	1	1.69	0.010	0.33	0.4	0.05	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 165960	Soil	20	36	0.53	218	0.071	2	1.86	0.012	0.12	0.1	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147316	Soil	13	23	0.58	216	0.080	<1	1.66	0.010	0.25	<0.1	0.03	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 165951	Soil	19	34	0.50	190	0.068	<1	1.52	0.017	0.06	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	0.2
ROS 165950	Soil	25	31	0.52	203	0.054	1	1.91	0.011	0.10	0.1	0.07	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 147031	Soil	13	25	0.52	157	0.101	<1	1.48	0.020	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 147030	Soil	10	32	0.61	155	0.080	<1	2.00	0.016	0.08	<0.1	0.10	3.1	<0.1	<0.05	7	<0.5	<0.2
ROS 165952	Soil	11	22	0.54	135	0.092	<1	2.06	0.011	0.29	0.1	<0.01	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 147318	Soil	21	37	0.57	201	0.080	1	1.55	0.038	0.10	0.1	0.09	4.9	<0.1	<0.05	4	<0.5	<0.2
ROS 147033	Soil	23	25	0.45	157	0.066	<1	1.58	0.009	0.05	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147029	Soil	22	38	0.69	193	0.078	1	2.13	0.019	0.11	0.1	0.26	4.7	<0.1	<0.05	7	<0.5	<0.2
ROS 165949	Soil	16	30	0.39	161	0.046	1	1.62	0.010	0.11	0.3	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 147032	Soil	14	28	0.54	178	0.070	<1	1.71	0.014	0.06	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 147036	Soil	14	28	0.49	246	0.048	<1	1.90	0.010	0.06	0.2	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147317	Soil	23	31	1.90	229	0.129	<1	2.53	0.010	0.17	0.1	0.20	5.1	<0.1	<0.05	10	0.6	<0.2
ROS 165948	Soil	16	38	0.52	279	0.074	1	1.72	0.027	0.08	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 147319	Soil	26	33	0.53	217	0.066	<1	1.69	0.022	0.06	0.1	0.10	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 147035	Soil	9	31	0.60	226	0.058	<1	2.09	0.009	0.06	0.1	0.03	2.9	0.1	<0.05	7	<0.5	<0.2
ROS 164329	Soil	23	24	0.59	202	0.112	<1	1.72	0.017	0.15	0.1	<0.01	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 164331	Soil	14	46	0.75	226	0.101	<1	2.08	0.015	0.21	0.2	0.03	3.6	0.1	<0.05	6	1.0	<0.2
ROS 164338	Soil	8	21	0.33	115	0.062	<1	1.18	0.012	0.05	0.4	0.03	2.0	<0.1	<0.05	5	0.6	<0.2
ROS 164328	Soil	15	24	0.65	177	0.138	<1	2.10	0.014	0.17	0.1	0.02	4.3	0.1	<0.05	7	<0.5	<0.2
ROS 147034	Soil	8	30	0.45	294	0.049	<1	1.98	0.013	0.05	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
ROS 164334	Soil	12	20	0.48	148	0.071	2	1.45	0.012	0.07	0.1	0.04	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 164339	Soil	6	17	0.31	80	0.065	1	1.07	0.012	0.08	0.3	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164327	Soil	8	16	1.11	321	0.188	<1	2.47	0.033	0.63	<0.1	0.01	7.1	0.3	<0.05	9	<0.5	<0.2
ROS 164341	Soil	10	26	0.63	154	0.079	<1	1.63	0.025	0.09	0.2	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 160142	Soil	8	24	1.15	324	0.167	2	2.27	0.045	0.66	0.1	0.02	5.4	0.3	<0.05	7	<0.5	<0.2
ROS 164340	Soil	7	17	0.51	105	0.054	1	1.15	0.016	0.05	0.2	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 160143	Soil	10	24	0.65	276	0.083	2	1.46	0.021	0.17	0.4	0.02	3.4	0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165750	Soil	2.3	43.0	16.4	89	<0.1	21.5	10.6	663	3.53	5.9	3.2	47.7	24.0	22	<0.1	2.2	0.2	54	0.41	0.064
ROS 165754	Soil	0.7	14.5	11.5	95	<0.1	15.3	8.1	599	2.58	6.9	0.6	2.4	8.6	20	0.1	0.5	0.3	42	0.23	0.020
ROS 165758	Soil	0.9	30.2	9.5	59	0.1	22.3	10.8	572	2.95	8.2	1.5	13.6	6.6	26	0.1	0.8	0.2	63	0.33	0.026
ROS 164335	Soil	0.4	9.3	5.7	55	<0.1	8.8	4.1	137	1.74	3.0	0.4	<0.5	1.3	17	0.1	0.2	0.1	30	0.20	0.053
ROS 165755	Soil	0.9	29.5	14.1	81	<0.1	26.5	10.0	333	2.89	8.1	1.0	4.0	8.4	25	<0.1	0.6	0.2	54	0.32	0.030
ROS 165751	Soil	1.0	26.8	11.0	69	<0.1	16.5	7.9	433	2.99	6.8	2.0	4.9	14.3	19	<0.1	1.4	0.2	50	0.34	0.035
ROS 165757	Soil	1.0	31.2	12.6	71	0.2	23.4	11.4	618	2.97	8.0	0.9	32.3	7.0	32	0.1	1.2	0.2	57	0.46	0.040
ROS 165756	Soil	1.0	30.9	11.3	69	<0.1	23.2	11.2	415	2.99	7.8	1.2	6.7	7.6	29	<0.1	0.7	0.2	62	0.36	0.023
ROS 165753	Soil	0.9	30.0	11.8	101	<0.1	16.6	8.9	416	3.14	5.6	1.4	3.7	14.1	28	<0.1	0.7	0.3	49	0.31	0.012
ROS 165803	Soil	0.9	34.0	9.9	60	0.2	25.5	11.9	756	3.05	8.2	1.6	17.5	6.7	25	<0.1	0.8	0.2	63	0.33	0.026
ROS 165752	Soil	0.9	31.1	11.5	73	<0.1	19.0	9.0	620	2.90	6.6	1.2	6.3	14.1	24	<0.1	1.0	0.2	48	0.38	0.030
ROS 165804	Soil	1.1	36.2	9.9	54	0.2	26.9	9.7	410	2.58	9.5	1.4	4.8	4.6	41	<0.1	0.7	0.2	56	0.61	0.058
ROS 165863	Soil	1.0	28.9	10.6	56	<0.1	22.3	8.7	421	2.61	7.4	1.9	4.0	6.9	34	<0.1	0.9	0.2	55	0.54	0.041
ROS 165864	Soil	1.1	21.7	36.8	115	<0.1	15.8	9.2	774	2.88	6.2	1.7	11.7	10.2	37	0.2	0.9	0.2	46	0.63	0.083
ROS 165852	Soil	0.9	41.2	22.9	103	0.1	22.5	11.4	524	3.08	7.2	1.1	7.5	6.1	31	0.2	1.0	0.4	61	0.42	0.033
ROS 165748	Soil	0.7	28.9	7.6	49	<0.1	25.1	7.8	304	2.49	9.9	1.0	6.2	6.2	30	<0.1	0.9	0.2	54	0.40	0.069
ROS 165869	Soil	0.7	34.3	10.6	64	0.1	25.1	9.1	442	2.34	6.9	1.5	3.3	4.5	52	0.2	0.7	0.2	49	0.80	0.055
ROS 165865	Soil	1.0	17.3	9.1	81	<0.1	13.6	10.5	817	3.08	5.2	1.3	1.8	9.1	47	0.4	1.5	0.1	48	0.80	0.086
ROS 165867	Soil	0.8	27.0	10.1	62	<0.1	18.8	8.2	330	2.55	6.2	1.3	3.5	6.9	34	0.1	0.6	0.2	51	0.47	0.042
ROS 165848	Soil	1.1	46.9	8.0	86	0.1	23.9	9.9	253	3.31	7.4	1.1	26.7	7.5	26	<0.1	1.2	0.2	73	0.42	0.028



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 165750	Soil	59	24	0.52	226	0.022	2	1.49	0.011	0.08	0.4	0.14	5.8	<0.1	<0.05	7	<0.5	<0.2
ROS 165754	Soil	14	20	0.65	264	0.076	<1	1.74	0.011	0.22	0.1	0.03	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 165758	Soil	21	35	0.63	330	0.080	1	1.95	0.014	0.08	0.4	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
ROS 164335	Soil	8	15	0.42	120	0.052	1	1.22	0.013	0.04	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165755	Soil	20	35	0.67	206	0.075	1	1.73	0.019	0.11	0.2	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165751	Soil	32	24	0.44	214	0.040	1	1.40	0.012	0.07	0.2	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165757	Soil	22	28	0.67	299	0.083	1	1.73	0.030	0.09	0.4	0.07	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165756	Soil	24	33	0.77	280	0.100	1	2.00	0.018	0.10	0.3	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165753	Soil	44	24	0.83	252	0.109	<1	2.03	0.012	0.10	0.2	0.02	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 165803	Soil	25	34	0.64	360	0.076	<1	2.14	0.016	0.08	0.4	0.06	6.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165752	Soil	32	24	0.54	249	0.056	1	1.67	0.016	0.09	0.2	0.05	5.7	<0.1	<0.05	6	<0.5	<0.2
ROS 165804	Soil	16	31	0.60	296	0.079	2	1.74	0.031	0.07	0.3	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 165863	Soil	21	31	0.52	312	0.073	1	1.76	0.026	0.06	0.2	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165864	Soil	33	20	0.77	254	0.044	<1	1.62	0.016	0.12	0.3	0.07	4.5	<0.1	<0.05	7	<0.5	<0.2
ROS 165852	Soil	20	30	0.74	322	0.105	1	1.87	0.015	0.14	0.2	0.08	5.1	0.1	<0.05	6	<0.5	<0.2
ROS 165748	Soil	25	31	0.55	245	0.072	1	1.25	0.028	0.07	0.2	0.06	4.8	<0.1	<0.05	4	<0.5	<0.2
ROS 165869	Soil	18	27	0.57	314	0.071	1	1.46	0.021	0.07	0.2	0.05	3.8	<0.1	<0.05	5	0.7	<0.2
ROS 165865	Soil	23	18	0.67	171	0.031	2	1.51	0.012	0.17	0.2	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165867	Soil	24	27	0.52	233	0.075	<1	1.54	0.021	0.07	0.2	0.03	4.4	<0.1	<0.05	5	0.5	<0.2
ROS 165848	Soil	26	49	0.95	302	0.043	<1	1.88	0.013	0.07	0.2	0.07	8.6	<0.1	<0.05	8	0.5	<0.2



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Project: ROS
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QUALITY CONTROL REPORT

WHI10000590.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 165808	Soil	0.7	30.6	8.8	54	<0.1	20.2	8.7	306	2.41	6.6	1.8	9.9	5.6	38	0.1	0.8	0.2	48	0.57	0.076
REP ROS 165808	QC	0.8	30.3	8.4	57	0.1	22.5	9.0	304	2.45	6.2	1.6	9.0	5.3	33	0.1	0.6	0.2	53	0.57	0.081
ROS 141832	Soil	0.3	25.0	4.8	99	<0.1	17.5	10.6	347	2.60	3.6	0.3	2.5	1.5	55	<0.1	0.3	<0.1	52	0.44	0.084
REP ROS 141832	QC	0.3	26.6	4.8	107	<0.1	17.9	11.2	367	2.70	3.4	0.3	1.0	1.6	57	<0.1	0.3	<0.1	54	0.45	0.082
ROS 173444	Soil	0.5	18.4	9.5	49	0.2	19.0	7.8	328	2.40	7.8	0.7	1.9	4.3	33	<0.1	0.9	0.2	49	0.69	0.029
REP ROS 173444	QC	0.4	18.7	9.6	45	0.2	17.6	6.8	316	2.31	7.9	0.7	1.5	4.4	32	<0.1	0.9	0.2	50	0.64	0.029
ROS 173430	Soil	0.3	25.2	8.4	53	<0.1	21.1	9.4	395	2.68	7.9	0.7	2.4	4.3	28	<0.1	0.5	0.1	57	0.48	0.034
REP ROS 173430	QC	0.7	24.5	8.7	52	<0.1	19.4	8.9	380	2.54	8.1	0.7	1.8	4.3	28	<0.1	0.4	0.1	55	0.47	0.031
ROS 147058	Soil	0.5	27.5	6.2	67	<0.1	15.8	11.1	388	2.64	5.6	0.8	2.4	5.5	30	<0.1	1.0	<0.1	59	0.46	0.051
REP ROS 147058	QC	0.4	27.5	6.3	65	<0.1	16.6	11.2	378	2.63	5.7	0.8	2.8	5.4	30	<0.1	1.0	<0.1	58	0.44	0.051
ROS 165828	Soil	1.6	55.2	31.9	119	0.5	25.3	18.4	888	3.98	59.4	1.5	1.2	3.4	40	0.4	2.5	0.2	86	0.71	0.039
REP ROS 165828	QC	1.4	52.5	31.3	121	0.4	25.6	17.9	883	3.86	58.6	1.5	1.1	3.3	40	0.4	2.5	0.2	86	0.72	0.041
ROS 164965	Soil	1.1	15.2	8.3	61	<0.1	11.8	8.8	569	3.29	5.2	1.0	3.2	9.3	13	<0.1	0.4	0.1	68	0.11	0.018
REP ROS 164965	QC	1.2	15.5	8.3	63	<0.1	13.8	9.0	576	3.22	5.0	0.9	1.8	9.1	13	<0.1	0.4	0.1	67	0.12	0.018
ROS 147070	Soil	0.6	24.5	33.7	54	0.2	26.3	8.1	317	1.93	13.6	0.8	4.7	1.7	74	0.3	1.5	<0.1	40	5.39	0.054
REP ROS 147070	QC	0.7	23.8	33.6	50	0.1	24.4	7.3	314	1.86	12.7	0.7	2.0	1.7	71	0.3	1.4	0.1	40	5.39	0.051
ROS 173246	Soil	0.6	19.6	8.1	84	<0.1	9.0	6.0	441	2.69	4.2	1.8	14.4	22.1	16	<0.1	0.5	0.2	36	0.28	0.059
REP ROS 173246	QC	0.5	18.6	8.3	84	<0.1	9.2	5.8	436	2.73	4.3	1.8	15.1	22.8	16	<0.1	0.5	0.2	37	0.28	0.059
ROS 159081	Soil	1.7	65.3	13.4	60	0.4	23.1	10.3	725	2.41	5.3	9.4	2.5	14.2	66	0.2	0.6	0.1	46	1.17	0.072
REP ROS 159081	QC	1.6	66.3	13.3	59	0.4	23.4	10.5	751	2.50	5.5	9.5	1.7	14.6	64	0.1	0.6	0.2	47	1.20	0.073
ROS 164294	Soil	0.7	20.5	4.1	54	<0.1	13.7	9.7	296	2.68	3.2	0.5	3.9	2.2	19	0.1	0.2	<0.1	55	0.35	0.062
REP ROS 164294	QC	0.6	21.2	4.0	54	<0.1	14.5	10.3	306	2.76	3.5	0.5	3.0	2.3	19	<0.1	0.2	<0.1	57	0.37	0.063
ROS 164695	Soil	0.6	23.9	8.9	66	<0.1	16.2	6.9	388	2.30	5.6	1.6	1.8	6.4	56	<0.1	0.4	0.1	46	0.63	0.066
REP ROS 164695	QC	0.6	23.5	8.6	63	<0.1	16.5	6.6	385	2.22	5.3	1.5	4.3	6.2	53	<0.1	0.3	0.1	45	0.60	0.064
ROS 173184	Soil	0.7	62.0	9.2	83	<0.1	17.9	9.3	458	3.39	10.3	2.7	0.7	17.3	33	<0.1	0.7	0.2	54	0.45	0.043
REP ROS 173184	QC	0.7	64.2	8.9	82	<0.1	15.9	9.2	461	3.05	9.6	2.8	<0.5	17.4	32	<0.1	0.7	0.2	52	0.43	0.040
ROS 164115	Soil	0.9	35.1	10.3	67	0.1	26.3	9.8	417	2.69	9.2	1.1	4.0	4.5	30	0.1	0.5	0.2	58	0.44	0.058
REP ROS 164115	QC	0.9	35.3	10.9	65	0.1	26.1	10.1	420	2.71	9.2	1.1	2.9	4.7	30	0.1	0.6	0.2	59	0.48	0.056

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Project: ROS
Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000590.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 165808	Soil	19	27	0.50	238	0.075	2	1.40	0.018	0.11	0.2	0.08	3.9	<0.1	<0.05	5	0.6	<0.2
REP ROS 165808	QC	19	30	0.49	248	0.072	2	1.34	0.019	0.10	0.3	0.08	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 141832	Soil	9	21	1.20	138	0.138	<1	1.69	0.009	0.29	<0.1	0.01	1.2	0.2	<0.05	7	<0.5	<0.2
REP ROS 141832	QC	9	22	1.21	140	0.149	<1	1.78	0.009	0.29	<0.1	0.01	1.2	0.2	<0.05	6	0.5	<0.2
ROS 173444	Soil	14	26	0.47	319	0.058	2	1.45	0.024	0.06	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
REP ROS 173444	QC	13	25	0.46	308	0.056	4	1.42	0.026	0.08	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 173430	Soil	15	30	0.62	262	0.111	<1	1.61	0.023	0.10	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 173430	QC	14	28	0.64	267	0.105	1	1.64	0.023	0.10	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147058	Soil	20	28	0.97	209	0.103	<1	1.81	0.011	0.14	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
REP ROS 147058	QC	20	28	0.98	206	0.102	1	1.81	0.012	0.14	0.1	0.02	4.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165828	Soil	16	30	0.92	248	0.072	2	2.08	0.015	0.12	0.2	0.12	7.4	<0.1	<0.05	8	<0.5	<0.2
REP ROS 165828	QC	16	30	0.91	241	0.069	2	2.00	0.014	0.12	0.1	0.13	7.3	<0.1	<0.05	8	<0.5	<0.2
ROS 164965	Soil	12	26	0.64	150	0.140	<1	2.22	0.010	0.25	0.1	0.02	3.4	0.2	<0.05	8	<0.5	<0.2
REP ROS 164965	QC	12	25	0.63	133	0.144	<1	2.29	0.013	0.24	0.2	<0.01	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 147070	Soil	11	23	1.93	157	0.048	2	1.25	0.019	0.06	0.1	0.07	3.2	<0.1	0.05	3	0.9	<0.2
REP ROS 147070	QC	10	24	1.86	156	0.046	3	1.20	0.019	0.06	0.1	0.07	3.1	<0.1	0.07	3	1.2	<0.2
ROS 173246	Soil	47	14	0.59	152	0.106	2	1.53	0.012	0.56	0.2	0.05	3.6	0.4	<0.05	7	<0.5	<0.2
REP ROS 173246	QC	49	13	0.62	155	0.110	2	1.58	0.011	0.57	0.2	0.05	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 159081	Soil	157	25	0.61	306	0.091	2	1.55	0.018	0.24	0.1	0.12	5.6	0.2	<0.05	5	1.5	<0.2
REP ROS 159081	QC	155	25	0.62	303	0.092	3	1.61	0.019	0.25	0.1	0.11	5.7	0.2	0.07	5	1.1	<0.2
ROS 164294	Soil	9	30	0.69	163	0.108	1	1.54	0.034	0.20	0.4	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
REP ROS 164294	QC	9	31	0.70	172	0.117	1	1.61	0.028	0.20	0.3	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164695	Soil	22	23	0.51	133	0.101	2	1.76	0.022	0.16	<0.1	0.02	4.7	0.1	<0.05	6	<0.5	<0.2
REP ROS 164695	QC	21	22	0.49	126	0.095	2	1.68	0.021	0.16	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173184	Soil	34	29	0.62	164	0.107	1	1.91	0.009	0.24	0.2	0.03	3.9	0.1	<0.05	9	<0.5	<0.2
REP ROS 173184	QC	33	27	0.59	154	0.107	<1	1.93	0.010	0.22	0.2	0.04	3.6	0.1	<0.05	8	<0.5	<0.2
ROS 164115	Soil	15	30	0.62	296	0.075	1	1.64	0.018	0.08	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
REP ROS 164115	QC	15	31	0.62	299	0.076	1	1.68	0.018	0.08	0.2	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000590.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 173404	Soil	0.5	35.4	9.4	63	0.2	27.0	10.5	382	2.72	10.9	0.6	12.6	5.3	49	0.1	0.8	0.2	62	1.19	0.074
REP ROS 173404	QC	0.6	36.5	9.4	65	0.2	26.6	11.1	389	2.79	11.2	0.6	5.1	5.3	50	<0.1	0.8	0.2	61	1.19	0.075
ROS 147036	Soil	0.7	15.3	7.9	50	0.2	19.2	7.8	289	2.51	7.6	0.7	3.4	8.0	18	<0.1	0.7	0.3	53	0.25	0.017
REP ROS 147036	QC	0.7	15.2	7.8	47	0.2	18.6	7.6	285	2.49	7.6	0.7	1.4	8.0	17	<0.1	0.6	0.3	52	0.24	0.017
ROS 165753	Soil	0.9	30.0	11.8	101	<0.1	16.6	8.9	416	3.14	5.6	1.4	3.7	14.1	28	<0.1	0.7	0.3	49	0.31	0.012
REP ROS 165753	QC	0.9	30.6	11.7	101	<0.1	16.5	9.1	427	3.18	5.5	1.5	4.8	14.2	28	<0.1	0.6	0.3	50	0.33	0.013
Reference Materials																					
STD DS7	Standard	21.7	109.3	62.6	403	1.0	58.2	9.5	635	2.49	53.1	4.7	70.7	4.4	69	5.8	5.5	4.4	90	0.95	0.075
STD DS7	Standard	19.3	114.8	68.7	402	1.0	54.4	9.3	613	2.33	51.1	5.0	75.4	4.8	77	6.0	6.2	4.7	82	0.93	0.079
STD DS7	Standard	19.4	108.9	60.4	370	1.0	56.9	8.9	604	2.39	51.6	4.3	72.0	4.2	61	5.9	5.4	4.3	86	0.89	0.079
STD DS7	Standard	19.4	93.1	62.7	372	0.9	53.5	9.0	618	2.36	51.8	4.5	72.6	4.1	62	6.1	5.5	4.4	81	0.93	0.077
STD DS7	Standard	21.0	107.9	65.9	419	1.0	56.7	10.0	624	2.36	48.6	4.3	67.4	4.3	69	6.2	5.7	4.6	85	0.95	0.079
STD DS7	Standard	21.8	118.9	70.6	397	1.1	59.0	10.2	604	2.31	47.0	4.9	77.6	4.7	68	5.7	5.4	4.0	88	0.89	0.071
STD DS7	Standard	19.1	100.7	59.6	385	0.9	51.6	8.7	616	2.33	50.7	4.5	62.1	4.4	82	6.1	5.5	4.4	78	0.95	0.075
STD DS7	Standard	21.5	107.9	71.5	385	0.8	55.6	9.1	608	2.41	49.0	5.1	74.7	4.8	76	5.7	5.8	4.7	83	0.95	0.081
STD DS7	Standard	22.3	110.2	73.8	391	1.0	55.3	9.6	628	2.36	50.9	5.3	89.1	5.1	79	6.1	5.9	4.7	85	0.93	0.073
STD DS7	Standard	21.0	101.7	62.9	376	0.9	51.2	8.7	623	2.26	50.5	4.5	62.0	3.9	77	6.0	5.6	4.3	81	0.88	0.077
STD DS7	Standard	19.2	101.6	71.5	380	0.9	51.1	9.1	619	2.37	48.4	4.8	62.4	4.7	76	6.2	6.1	4.8	80	0.96	0.071
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
 Report Date: November 06, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000590.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 173404	Soil	19	30	0.80	215	0.059	1	1.48	0.024	0.09	0.2	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 173404	QC	20	30	0.80	221	0.062	2	1.48	0.023	0.10	0.2	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147036	Soil	14	28	0.49	246	0.048	<1	1.90	0.010	0.06	0.2	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
REP ROS 147036	QC	14	27	0.48	244	0.045	<1	1.85	0.012	0.06	0.2	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165753	Soil	44	24	0.83	252	0.109	<1	2.03	0.012	0.10	0.2	0.02	4.4	0.1	<0.05	7	<0.5	<0.2
REP ROS 165753	QC	44	24	0.84	242	0.114	<1	2.12	0.012	0.11	0.3	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	12	197	1.05	409	0.118	40	1.02	0.112	0.53	3.6	0.20	2.6	4.0	0.21	5	3.4	0.7
STD DS7	Standard	13	192	1.07	398	0.126	40	1.06	0.100	0.48	3.7	0.21	2.6	4.1	0.12	5	3.1	1.1
STD DS7	Standard	11	188	1.00	372	0.105	39	0.99	0.090	0.47	3.3	0.20	2.0	4.0	0.16	5	3.3	1.4
STD DS7	Standard	12	185	1.03	401	0.103	38	1.01	0.092	0.48	3.5	0.22	2.2	4.0	0.21	5	3.1	1.4
STD DS7	Standard	12	196	1.01	398	0.119	44	0.99	0.092	0.46	3.6	0.23	2.5	4.2	0.24	5	3.6	1.8
STD DS7	Standard	13	203	1.01	360	0.129	35	0.99	0.087	0.44	3.5	0.23	2.3	4.0	0.21	5	2.7	1.3
STD DS7	Standard	14	189	1.02	389	0.131	40	1.07	0.118	0.50	3.2	0.22	2.8	3.9	0.20	5	3.2	1.1
STD DS7	Standard	13	191	1.01	400	0.125	40	1.02	0.096	0.44	3.5	0.19	2.4	4.0	0.19	5	3.9	1.9
STD DS7	Standard	14	200	1.01	415	0.134	42	1.06	0.108	0.51	3.7	0.21	2.5	4.1	0.13	5	2.6	0.7
STD DS7	Standard	12	183	0.98	393	0.125	35	0.98	0.096	0.46	3.5	0.20	2.5	3.8	0.19	5	3.5	0.8
STD DS7	Standard	13	190	1.04	397	0.122	39	1.00	0.095	0.47	3.5	0.22	2.6	4.2	0.19	5	3.9	0.8
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Val D'Or QC J9P 1S5 Canada

Project: ROS

Report Date: November 06, 2010

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI10000590.1

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



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Project: ROS

Report Date: November 06, 2010

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000590.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 05, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000591.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			WHI
1DX2	319	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project: ROS
 Report Date: November 05, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000591.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160056	Soil	7.5	183.5	9.0	78	0.5	17.2	8.0	211	2.76	3.1	1.9	4.9	3.4	22	0.4	0.1	0.2	54	0.21	0.053
ROS 151790	Soil	0.7	45.3	19.1	121	0.1	21.9	13.6	625	3.42	6.1	1.3	7.2	9.5	20	0.2	5.2	0.3	65	0.55	0.045
ROS 151803	Soil	0.6	31.8	13.1	58	0.1	21.3	8.5	427	2.52	7.5	0.7	4.1	3.7	42	<0.1	0.7	0.2	50	1.06	0.063
ROS 151786	Soil	1.4	38.8	16.7	86	0.2	10.4	8.1	468	3.27	5.5	1.3	12.3	9.8	14	0.3	3.6	0.2	37	0.25	0.032
ROS 160055	Soil	3.9	123.3	9.4	83	0.4	17.8	6.7	175	2.55	3.9	1.4	3.3	3.6	25	0.3	0.2	0.3	55	0.19	0.055
ROS 151787	Soil	0.9	22.9	11.3	66	0.1	25.5	10.4	479	2.88	9.7	0.6	3.7	6.7	21	<0.1	1.4	0.1	55	0.49	0.033
ROS 151794	Soil	2.4	26.0	24.3	66	0.3	24.3	10.7	395	3.02	8.7	1.0	3.2	8.4	30	<0.1	1.9	0.2	61	0.47	0.028
ROS 151785	Soil	1.8	14.2	20.4	60	0.5	16.9	7.4	320	2.94	8.6	0.5	3.0	4.9	14	0.2	2.2	0.1	57	0.19	0.020
ROS 160053	Soil	1.2	37.3	12.1	116	0.7	26.3	7.6	176	2.70	4.3	2.3	3.9	3.4	30	0.5	0.2	0.2	64	0.22	0.046
ROS 151788	Soil	0.4	161.2	6.4	151	0.2	37.9	37.1	980	5.41	4.1	0.6	4.1	2.3	42	0.2	3.6	<0.1	149	1.46	0.111
ROS 151802	Soil	0.7	28.0	13.4	56	0.1	23.2	9.5	494	2.44	9.0	1.0	8.8	3.8	44	<0.1	0.8	0.2	52	1.11	0.057
ROS 151792	Soil	0.5	27.5	7.9	51	0.1	26.4	10.1	455	2.57	9.6	0.5	5.0	3.4	42	<0.1	0.6	0.1	49	0.96	0.056
ROS 160051	Soil	1.6	37.3	13.2	111	0.3	25.6	10.4	250	2.81	4.6	1.6	6.9	3.9	31	0.4	0.3	0.2	62	0.21	0.053
ROS 160054	Soil	2.8	139.0	9.8	132	0.4	24.8	10.4	288	3.65	4.1	1.8	4.9	4.5	31	0.3	0.2	0.2	91	0.39	0.078
ROS 151791	Soil	0.8	11.7	15.4	57	0.2	11.9	6.4	317	2.26	6.5	1.0	1.1	7.4	15	<0.1	2.6	0.2	34	0.23	0.027
ROS 151789	Soil	1.0	39.4	10.5	98	0.2	25.9	12.0	506	2.95	8.5	0.7	5.4	7.2	77	0.3	2.2	0.1	64	5.73	0.070
ROS 165842	Soil	0.5	13.1	10.6	103	<0.1	9.0	8.0	363	1.89	4.0	0.5	1.3	2.0	47	<0.1	0.5	<0.1	39	0.50	0.073
ROS 165843	Soil	0.5	16.8	8.7	54	<0.1	17.7	6.8	256	2.28	7.9	0.7	2.9	5.1	20	<0.1	0.8	0.1	45	0.40	0.030
ROS 165845	Soil	0.4	39.9	9.8	160	<0.1	16.7	15.2	549	4.57	8.4	0.8	1.6	4.2	82	0.1	2.0	0.1	98	0.85	0.090
ROS 165850	Soil	1.2	16.1	10.1	81	0.3	11.8	9.3	586	3.04	4.4	0.8	5.0	5.3	16	<0.1	1.6	0.1	56	0.27	0.025
ROS 165844	Soil	0.4	35.4	55.6	104	<0.1	6.2	4.1	148	1.83	8.9	0.6	5.0	7.1	14	0.1	1.6	1.6	22	0.22	0.048
ROS 165745	Soil	1.5	56.0	99.9	250	0.1	13.4	11.4	803	3.81	7.6	1.7	5.6	7.7	42	0.5	7.2	2.8	52	0.49	0.052
ROS 165805	Soil	0.5	12.8	11.5	30	<0.1	10.0	4.7	198	1.28	3.3	0.6	3.4	4.7	17	<0.1	0.3	0.1	28	0.29	0.029
ROS 165871	Soil	1.0	30.2	8.8	64	0.1	21.9	10.1	455	2.93	7.1	1.7	5.0	4.3	50	0.1	0.7	0.2	58	0.88	0.062
ROS 165847	Soil	1.5	18.5	26.6	67	0.2	25.3	10.3	603	2.75	8.5	0.5	14.7	3.7	44	0.1	0.6	0.2	60	0.35	0.043
ROS 165742	Soil	0.9	9.1	11.8	91	<0.1	14.4	10.1	711	2.35	3.1	0.3	1.2	1.9	28	0.1	0.6	0.1	57	0.29	0.035
ROS 165870	Soil	1.1	27.3	14.9	57	0.1	24.9	10.6	428	2.63	9.2	1.6	6.6	4.5	43	0.1	0.7	0.2	53	0.66	0.055
ROS 165866	Soil	1.1	23.6	9.1	53	<0.1	20.8	10.3	475	2.58	8.8	1.2	2.9	5.0	34	<0.1	0.6	0.1	56	0.48	0.047
ROS 165746	Soil	0.7	31.1	22.9	95	<0.1	16.3	12.6	503	3.56	6.5	1.7	3.1	23.6	53	0.1	1.6	0.1	45	0.44	0.035
ROS 165741	Soil	1.1	30.3	23.9	93	<0.1	19.4	8.6	350	3.25	6.4	1.3	1.5	14.5	60	<0.1	1.8	0.1	64	0.32	0.022

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Project: ROS
 Report Date: November 05, 2010

Page: 2 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000591.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.05	1	0.5	0.2		
ROS 160056	Soil			19	26	0.66	201	0.111	<1	1.75	0.015	0.29	<0.1	0.04	3.3	0.3	0.10	6	0.7	<0.2
ROS 151790	Soil			51	21	0.46	320	0.007	1	1.17	0.009	0.08	0.3	0.26	8.0	<0.1	0.05	5	1.0	<0.2
ROS 151803	Soil			19	26	0.62	300	0.059	2	1.33	0.030	0.10	0.2	0.07	3.5	<0.1	0.07	4	<0.5	<0.2
ROS 151786	Soil			22	17	0.35	291	0.037	2	1.34	0.009	0.18	0.3	0.03	2.9	0.2	0.06	5	<0.5	0.2
ROS 160055	Soil			17	29	0.66	210	0.104	<1	1.82	0.015	0.22	<0.1	0.06	3.1	0.2	0.08	7	<0.5	<0.2
ROS 151787	Soil			30	33	0.50	433	0.053	1	1.33	0.021	0.07	0.3	0.04	4.8	<0.1	<0.05	4	<0.5	<0.2
ROS 151794	Soil			35	38	0.54	413	0.062	<1	1.78	0.022	0.07	0.2	0.12	5.7	<0.1	<0.05	6	0.5	<0.2
ROS 151785	Soil			11	28	0.42	268	0.046	1	1.54	0.009	0.10	0.1	0.05	2.2	<0.1	<0.05	6	<0.5	<0.2
ROS 160053	Soil			23	35	0.68	309	0.102	<1	2.14	0.013	0.15	<0.1	0.06	4.4	0.2	<0.05	7	0.6	<0.2
ROS 151788	Soil			17	54	1.91	235	0.104	<1	2.26	0.050	0.07	0.2	0.11	13.8	<0.1	<0.05	10	<0.5	<0.2
ROS 151802	Soil			17	27	0.55	354	0.066	2	1.29	0.029	0.08	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151792	Soil			14	27	0.59	310	0.070	2	1.31	0.041	0.07	0.2	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 160051	Soil			17	42	0.70	266	0.111	<1	1.85	0.015	0.16	0.1	0.04	3.4	0.2	<0.05	6	<0.5	0.2
ROS 160054	Soil			19	31	0.79	253	0.136	<1	2.15	0.026	0.29	0.1	0.04	4.9	0.2	<0.05	7	<0.5	<0.2
ROS 151791	Soil			17	20	0.25	271	0.021	5	1.14	0.011	0.13	0.2	0.05	3.0	<0.1	<0.05	3	0.5	<0.2
ROS 151789	Soil			30	31	0.74	341	0.049	2	1.50	0.021	0.09	0.1	0.11	5.1	<0.1	<0.05	7	<0.5	<0.2
ROS 165842	Soil			14	13	0.60	297	0.077	<1	1.48	0.016	0.14	0.3	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165843	Soil			15	28	0.48	197	0.071	7	1.56	0.016	0.10	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165845	Soil			17	52	1.47	191	0.193	<1	2.52	0.018	0.17	0.5	0.03	7.7	<0.1	<0.05	12	<0.5	<0.2
ROS 165850	Soil			7	23	0.75	336	0.075	1	1.69	0.012	0.44	0.3	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 165844	Soil			21	11	0.32	113	0.007	1	1.08	0.008	0.13	0.2	0.14	2.9	0.1	<0.05	3	<0.5	<0.2
ROS 165745	Soil			21	15	0.81	233	0.025	<1	1.99	0.008	0.10	0.1	1.20	5.4	<0.1	<0.05	6	1.5	0.6
ROS 165805	Soil			11	15	0.32	85	0.071	<1	0.87	0.016	0.11	0.2	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 165871	Soil			19	26	0.70	300	0.065	<1	1.75	0.022	0.11	0.2	0.04	5.1	<0.1	<0.05	6	0.9	<0.2
ROS 165847	Soil			12	45	0.54	1820	0.082	4	1.81	0.012	0.09	0.2	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 165742	Soil			8	28	0.71	263	0.071	1	1.77	0.013	0.06	0.2	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
ROS 165870	Soil			16	33	0.55	288	0.086	1	1.56	0.027	0.07	0.3	0.04	3.9	<0.1	<0.05	5	0.6	<0.2
ROS 165866	Soil			20	32	0.52	249	0.084	<1	1.56	0.028	0.07	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 165746	Soil			19	25	0.70	207	0.099	<1	2.05	0.010	0.11	0.4	0.04	4.7	<0.1	<0.05	9	<0.5	<0.2
ROS 165741	Soil			30	33	0.78	179	0.171	<1	2.06	0.013	0.08	0.1	0.02	3.0	0.1	<0.05	9	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000591.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165868	Soil	0.9	30.7	19.0	71	<0.1	22.7	9.4	410	2.73	6.9	1.2	3.0	6.0	45	0.1	0.7	0.2	52	0.72	0.047
ROS 165872	Soil	0.9	27.2	8.4	57	0.1	19.5	9.9	402	2.83	6.5	1.4	4.6	4.1	46	<0.1	0.6	0.1	59	0.84	0.060
ROS 148054	Soil	4.3	69.3	15.4	142	0.1	24.2	12.2	301	3.54	6.5	2.6	1.8	3.1	25	0.3	0.4	1.0	122	0.24	0.038
ROS 148076	Soil	0.9	33.1	9.1	66	0.1	27.1	10.3	407	2.74	9.1	0.8	5.3	3.8	48	0.2	0.7	0.2	57	0.76	0.064
ROS 163514	Soil	8.3	351.3	8.6	100	0.1	18.7	12.6	471	5.11	2.1	0.8	3.2	2.3	29	0.2	0.1	0.2	129	0.29	0.077
ROS 163516	Soil	1.2	110.7	8.0	94	0.4	16.0	8.2	236	3.49	3.7	0.9	6.7	1.6	20	0.2	0.2	0.3	74	0.31	0.071
ROS 148049	Soil	1.2	20.9	10.1	46	<0.1	17.2	6.9	331	3.48	7.9	0.9	1.8	5.6	18	0.1	0.4	0.3	73	0.13	0.041
ROS 163501	Soil	3.5	49.4	7.9	84	0.4	22.5	10.5	241	2.99	4.4	1.5	2.6	4.4	36	0.1	0.2	0.3	72	0.24	0.043
ROS 163530	Soil	0.8	23.4	7.9	56	0.1	16.9	7.5	229	2.33	5.5	0.8	7.1	2.1	23	0.2	0.2	0.1	53	0.31	0.054
ROS 163532	Soil	0.9	27.0	7.6	67	<0.1	21.7	10.1	307	2.76	5.9	0.6	3.5	3.0	25	0.1	0.3	0.2	61	0.27	0.046
ROS 163503	Soil	1.4	46.9	7.4	66	0.1	19.5	12.0	251	3.30	4.3	1.0	2.4	5.1	24	<0.1	0.2	0.3	79	0.27	0.052
ROS 163509	Soil	1.5	252.8	6.4	85	0.1	17.7	6.4	272	5.18	1.8	2.6	3.0	16.1	39	<0.1	0.1	0.3	68	0.12	0.081
ROS 163529	Soil	0.9	21.2	6.8	75	0.2	18.7	8.0	236	2.44	5.4	0.9	7.7	1.9	25	0.2	0.2	0.2	59	0.32	0.054
ROS 163533	Soil	0.8	29.1	7.3	78	<0.1	16.7	9.8	288	2.90	5.1	0.8	14.0	3.1	21	0.2	0.3	0.2	63	0.30	0.066
ROS 163502	Soil	2.6	43.6	8.1	69	0.2	18.4	10.8	268	2.94	4.5	1.4	1.8	3.5	24	0.1	0.2	0.2	68	0.25	0.045
ROS 163515	Soil	1.5	135.0	11.6	93	0.8	10.5	9.3	294	3.72	2.3	1.1	10.1	1.4	33	0.3	0.2	0.2	83	0.35	0.115
ROS 163531	Soil	0.9	25.2	7.7	63	0.1	21.3	9.6	294	2.65	6.0	0.6	2.3	3.0	24	0.2	0.3	0.1	60	0.26	0.048
ROS 165846	Soil	0.9	23.9	14.9	61	<0.1	24.7	8.5	266	2.75	10.6	0.6	3.6	4.1	24	<0.1	0.8	0.1	59	0.24	0.033
ROS 160215	Soil	1.2	43.1	9.4	81	0.1	29.7	11.6	417	2.95	8.1	1.2	2.4	4.8	42	0.3	0.6	0.2	61	0.50	0.066
ROS 148053	Soil	0.9	34.4	8.9	96	<0.1	28.6	17.1	427	3.85	5.8	0.9	1.0	4.9	22	<0.1	0.3	0.1	99	0.23	0.036
ROS 148047	Soil	0.8	19.1	7.1	46	<0.1	27.4	10.8	301	3.14	8.2	0.6	1.2	5.7	16	0.1	0.4	0.3	59	0.14	0.026
ROS 160211	Soil	1.3	16.2	12.5	71	<0.1	15.6	12.2	499	2.96	5.3	1.0	2.0	7.5	25	<0.1	0.3	0.1	55	0.29	0.064
ROS 160310	Soil	1.7	30.2	9.8	84	0.1	22.8	12.6	445	3.26	5.7	1.1	1.8	5.8	21	0.1	0.2	0.2	63	0.22	0.048
ROS 148050	Soil	0.8	11.0	13.0	87	<0.1	33.8	15.5	317	3.44	4.9	0.7	<0.5	5.3	24	0.1	0.3	0.3	71	0.18	0.025
ROS 160214	Soil	1.0	25.9	7.4	66	0.1	20.0	8.3	225	2.49	6.7	1.0	3.5	3.6	29	0.1	0.4	0.2	51	0.33	0.056
ROS 160212	Soil	1.2	18.1	10.5	70	<0.1	15.6	9.1	330	2.93	6.1	0.9	3.5	6.9	25	0.2	0.3	0.1	61	0.31	0.064
ROS 160209	Soil	1.1	18.7	6.6	77	0.1	13.4	8.1	350	2.53	3.6	2.2	2.4	7.8	39	0.3	0.3	<0.1	45	0.52	0.061
ROS 160313	Soil	1.3	24.9	9.7	59	0.1	18.4	9.3	367	2.44	8.1	1.0	2.0	3.8	34	0.2	0.4	0.2	54	0.48	0.057
ROS 148073	Soil	0.9	16.3	7.3	61	<0.1	15.7	9.1	328	2.87	5.6	0.7	1.4	6.5	21	0.1	0.3	0.1	59	0.22	0.036
ROS 160207	Soil	1.3	14.9	12.4	60	<0.1	13.7	9.2	392	2.73	5.3	1.2	1.5	8.5	28	<0.1	0.3	<0.1	53	0.31	0.030

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165868	Soil	22	33	0.60	276	0.093	1	1.79	0.022	0.10	0.2	0.05	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165872	Soil	16	27	0.71	299	0.063	<1	1.75	0.023	0.09	0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 148054	Soil	14	35	0.70	275	0.156	<1	2.30	0.019	0.12	<0.1	<0.01	4.6	0.2	<0.05	7	<0.5	<0.2
ROS 148076	Soil	15	31	0.60	349	0.092	1	1.64	0.035	0.07	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 163514	Soil	10	110	1.77	598	0.290	<1	2.83	0.037	1.10	<0.1	0.01	8.1	0.5	0.16	11	<0.5	<0.2
ROS 163516	Soil	10	29	0.72	285	0.122	<1	1.98	0.024	0.26	<0.1	0.04	5.5	0.2	0.06	7	<0.5	<0.2
ROS 148049	Soil	16	37	0.67	181	0.166	<1	2.04	0.012	0.26	0.1	0.02	3.1	0.2	<0.05	9	0.6	0.2
ROS 163501	Soil	18	31	0.80	217	0.128	<1	2.13	0.023	0.27	0.1	0.04	3.4	0.2	<0.05	7	0.7	<0.2
ROS 163530	Soil	12	27	0.55	247	0.080	<1	1.45	0.017	0.11	0.2	0.03	2.9	<0.1	<0.05	5	0.8	<0.2
ROS 163532	Soil	11	35	0.65	220	0.109	<1	1.75	0.015	0.22	0.1	0.02	3.2	0.1	<0.05	6	0.5	<0.2
ROS 163503	Soil	18	31	0.85	208	0.145	<1	2.13	0.020	0.36	0.1	<0.01	4.0	0.2	<0.05	7	0.8	<0.2
ROS 163509	Soil	44	42	1.14	294	0.179	<1	2.42	0.026	1.27	<0.1	<0.01	4.2	0.8	0.29	8	1.5	<0.2
ROS 163529	Soil	12	29	0.59	226	0.083	<1	1.65	0.017	0.09	0.2	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 163533	Soil	12	27	0.66	242	0.108	<1	1.73	0.019	0.21	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	0.4
ROS 163502	Soil	16	29	0.69	195	0.115	<1	1.89	0.015	0.23	<0.1	0.02	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 163515	Soil	10	24	0.82	472	0.148	<1	1.89	0.033	0.52	<0.1	0.05	6.9	0.2	0.11	7	0.8	<0.2
ROS 163531	Soil	11	34	0.63	204	0.105	<1	1.74	0.015	0.19	0.1	0.03	3.2	0.1	<0.05	6	0.8	<0.2
ROS 165846	Soil	14	38	0.50	183	0.076	<1	1.60	0.012	0.08	0.2	0.02	4.6	<0.1	<0.05	5	0.6	<0.2
ROS 160215	Soil	17	36	0.70	379	0.123	<1	1.75	0.027	0.21	0.1	0.03	3.9	0.2	<0.05	6	1.0	<0.2
ROS 148053	Soil	17	31	1.04	276	0.187	<1	2.52	0.021	0.62	0.1	0.01	3.9	0.3	<0.05	7	0.9	<0.2
ROS 148047	Soil	10	39	0.75	170	0.165	<1	2.14	0.011	0.42	<0.1	<0.01	3.3	0.3	<0.05	7	0.6	<0.2
ROS 160211	Soil	19	24	0.60	161	0.134	<1	1.81	0.015	0.36	<0.1	0.01	2.6	0.2	<0.05	6	0.7	<0.2
ROS 160310	Soil	20	30	0.67	154	0.150	<1	1.79	0.013	0.29	0.1	0.02	2.9	0.3	<0.05	7	0.8	<0.2
ROS 148050	Soil	12	38	0.98	296	0.148	<1	2.88	0.016	0.49	<0.1	0.01	3.4	0.3	<0.05	10	<0.5	0.4
ROS 160214	Soil	15	29	0.56	250	0.095	<1	1.63	0.021	0.11	0.2	0.03	3.2	0.1	<0.05	5	0.7	<0.2
ROS 160212	Soil	18	25	0.63	169	0.136	<1	1.84	0.017	0.31	0.1	<0.01	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 160209	Soil	30	21	0.62	203	0.129	<1	1.84	0.022	0.37	0.1	0.05	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 160313	Soil	15	27	0.50	226	0.089	<1	1.45	0.020	0.10	0.2	0.03	2.8	<0.1	<0.05	5	0.7	0.3
ROS 148073	Soil	14	26	0.59	126	0.143	<1	1.84	0.025	0.27	0.1	0.02	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 160207	Soil	28	23	0.61	161	0.129	<1	1.92	0.019	0.31	<0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160301	Soil	1.4	47.2	6.3	195	0.4	34.1	12.3	349	3.16	2.5	1.3	0.8	5.3	22	0.7	0.2	0.2	54	0.26	0.062
ROS 160312	Soil	1.3	27.1	11.0	75	0.2	21.0	10.3	337	2.87	5.0	1.8	1.6	5.4	25	0.1	0.2	0.2	57	0.29	0.058
ROS 160208	Soil	1.9	29.5	9.0	64	0.4	17.3	8.3	491	2.85	5.3	4.5	2.0	8.3	46	0.3	0.3	0.1	55	0.55	0.049
ROS 148074	Soil	1.7	20.5	11.0	74	<0.1	13.6	9.4	441	3.15	4.1	2.1	0.6	9.1	31	0.2	0.2	<0.1	59	0.38	0.049
ROS 163562	Soil	0.9	22.1	6.8	68	0.2	17.5	8.7	208	2.70	6.2	0.9	1.6	2.7	22	0.1	0.2	0.1	56	0.31	0.059
ROS 163563	Soil	1.1	22.4	13.4	65	0.2	18.2	8.6	230	2.78	6.7	0.9	2.9	3.1	25	0.1	0.3	0.1	65	0.33	0.054
ROS 160145	Soil	0.9	21.5	6.3	63	0.1	15.6	8.2	250	2.51	5.6	0.8	2.4	1.8	26	0.3	0.3	0.1	59	0.35	0.066
ROS 164278	Soil	0.9	37.0	7.0	50	0.2	23.6	12.7	232	2.66	5.0	0.5	1.4	1.1	21	<0.1	0.2	0.1	67	0.26	0.046
ROS 160144	Soil	0.8	19.5	6.1	64	0.1	15.1	8.6	246	2.53	5.0	0.8	31.2	1.9	25	0.2	0.2	<0.1	59	0.36	0.065
ROS 160146	Soil	0.8	29.6	8.6	67	0.1	19.3	10.7	311	2.88	5.0	1.0	1.6	3.0	26	0.2	0.3	0.2	67	0.37	0.067
ROS 164274	Soil	1.8	22.8	7.0	78	0.2	12.3	8.6	366	2.96	4.9	0.5	<0.5	1.8	22	0.1	0.2	0.1	62	0.27	0.057
ROS 164277	Soil	1.0	35.8	7.6	49	0.2	22.1	11.9	224	2.58	4.7	0.5	0.6	1.0	22	0.1	0.2	0.1	66	0.27	0.048
ROS 164272	Soil	0.6	12.4	4.4	48	<0.1	10.1	6.0	173	2.09	3.4	0.4	4.1	1.2	15	<0.1	0.2	0.1	45	0.20	0.060
ROS 164273	Soil	2.0	21.0	6.5	42	0.2	10.8	6.2	140	2.05	3.7	0.5	1.0	1.4	17	<0.1	0.2	0.1	51	0.20	0.036
ROS 164271	Soil	0.4	13.2	5.3	52	<0.1	11.8	6.3	154	2.19	4.6	0.5	6.1	1.3	15	0.1	0.3	0.1	46	0.20	0.058
ROS 164270	Soil	0.5	9.4	5.3	41	<0.1	9.3	4.3	119	1.67	3.4	0.4	6.0	0.8	14	0.1	0.2	<0.1	29	0.17	0.045
ROS 164275	Soil	1.2	21.7	5.3	39	0.1	15.6	8.1	171	2.31	4.4	0.3	1.4	1.6	17	<0.1	0.2	0.1	57	0.22	0.030
ROS 164268	Soil	0.8	11.2	6.1	52	<0.1	12.4	6.3	185	2.26	5.2	0.5	3.8	1.4	18	0.1	0.3	0.1	48	0.24	0.060
ROS 164269	Soil	0.6	8.1	4.9	43	<0.1	10.7	4.5	131	1.77	4.4	0.4	5.6	1.2	15	0.1	0.2	<0.1	33	0.20	0.046
ROS 164342	Soil	1.3	18.5	6.0	36	<0.1	12.9	6.8	138	1.69	2.9	0.4	1.5	1.0	15	<0.1	0.2	<0.1	39	0.25	0.045
ROS 165676	Soil	0.6	37.5	12.6	78	<0.1	17.5	10.9	280	3.10	7.4	1.4	1.4	20.4	26	<0.1	0.7	0.1	49	0.23	0.024
ROS 165730	Soil	1.1	23.4	11.1	49	<0.1	25.1	10.5	311	2.75	7.8	0.7	2.5	6.1	32	<0.1	0.8	0.3	55	0.35	0.033
ROS 165729	Soil	0.8	22.9	14.8	48	<0.1	23.2	10.1	306	2.76	7.9	0.7	2.6	5.7	32	<0.1	0.8	0.3	56	0.35	0.032
ROS 165724	Soil	0.6	23.0	13.1	103	<0.1	14.0	10.6	395	3.85	5.7	2.0	2.2	32.9	15	<0.1	1.1	0.3	54	0.16	0.038
ROS 165717	Soil	1.2	13.9	21.8	69	0.1	23.2	9.5	508	2.53	6.1	0.7	2.8	7.9	38	0.1	0.5	0.1	54	0.30	0.054
ROS 163753	Soil	1.1	237.7	7.1	119	0.2	16.2	7.3	407	5.56	0.6	2.6	1.6	14.0	50	<0.1	<0.1	0.3	68	0.12	0.093
ROS 163750	Soil	0.6	61.0	6.7	52	<0.1	15.6	7.8	155	3.61	1.5	2.0	0.8	20.4	36	<0.1	0.1	0.4	38	0.13	0.078
ROS 163745	Soil	1.7	34.0	6.4	72	<0.1	26.8	13.2	282	3.13	4.6	0.9	3.0	6.4	24	<0.1	0.3	0.2	67	0.21	0.028
ROS 163744	Soil	1.3	37.5	11.3	116	<0.1	23.2	14.1	386	3.25	5.0	1.1	5.8	7.1	25	0.3	0.3	0.2	67	0.26	0.049
ROS 163749	Soil	1.1	58.8	5.1	94	<0.1	48.0	22.8	349	4.32	1.1	1.3	0.6	9.1	14	<0.1	<0.1	0.2	88	0.59	0.236

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Project: ROS
 Report Date: November 05, 2010

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
ROS 160301	Soil	23	41	0.83	265	0.150	<1	1.97	0.013	0.48	<0.1	0.02	4.1	0.3	<0.05	7	<0.5	<0.2
ROS 160312	Soil	23	29	0.70	204	0.139	<1	1.81	0.013	0.25	0.1	0.03	3.4	0.2	<0.05	6	0.5	<0.2
ROS 160208	Soil	64	25	0.49	228	0.115	<1	2.10	0.025	0.29	0.1	0.05	4.4	0.2	<0.05	7	1.0	<0.2
ROS 148074	Soil	31	21	0.66	203	0.175	<1	2.15	0.021	0.47	0.1	0.01	3.4	0.3	<0.05	7	<0.5	<0.2
ROS 163562	Soil	14	28	0.61	209	0.088	<1	1.69	0.018	0.09	0.2	0.03	3.9	<0.1	<0.05	6	0.9	<0.2
ROS 163563	Soil	15	35	0.60	215	0.092	<1	1.83	0.020	0.08	0.3	0.02	4.2	<0.1	<0.05	6	0.8	0.4
ROS 160145	Soil	11	27	0.57	278	0.083	<1	1.50	0.021	0.10	0.2	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164278	Soil	7	42	0.75	172	0.121	<1	1.99	0.019	0.12	0.6	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
ROS 160144	Soil	11	27	0.59	272	0.094	<1	1.57	0.019	0.11	0.2	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 160146	Soil	14	38	0.75	345	0.113	<1	1.85	0.021	0.19	0.2	0.03	4.1	0.1	<0.05	6	0.7	0.3
ROS 164274	Soil	14	23	0.68	186	0.122	<1	1.83	0.017	0.19	0.3	0.02	4.4	<0.1	<0.05	9	0.6	<0.2
ROS 164277	Soil	8	41	0.77	177	0.118	<1	2.06	0.021	0.12	0.5	0.03	2.5	0.1	<0.05	7	0.6	0.3
ROS 164272	Soil	7	17	0.44	113	0.067	2	1.16	0.017	0.07	0.2	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164273	Soil	8	22	0.46	134	0.087	2	1.26	0.016	0.07	0.3	0.02	2.6	<0.1	<0.05	6	0.6	<0.2
ROS 164271	Soil	9	19	0.43	125	0.063	2	1.31	0.013	0.05	0.2	0.03	2.6	<0.1	<0.05	5	0.7	<0.2
ROS 164270	Soil	7	16	0.36	104	0.049	1	1.06	0.013	0.04	0.2	0.03	2.1	<0.1	<0.05	4	0.6	<0.2
ROS 164275	Soil	7	25	0.54	136	0.096	1	1.57	0.020	0.06	0.3	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
ROS 164268	Soil	9	20	0.45	140	0.058	2	1.35	0.016	0.06	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 164269	Soil	8	17	0.35	118	0.048	1	1.01	0.014	0.05	0.2	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 164342	Soil	6	25	0.52	108	0.072	<1	1.22	0.018	0.06	0.3	0.02	2.3	<0.1	<0.05	4	0.7	<0.2
ROS 165676	Soil	44	23	0.60	198	0.072	2	2.06	0.010	0.15	0.1	0.03	4.3	0.1	<0.05	8	<0.5	<0.2
ROS 165730	Soil	13	44	0.61	208	0.081	2	1.79	0.018	0.05	0.2	0.06	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165729	Soil	12	42	0.58	207	0.080	1	1.77	0.016	0.05	0.2	0.08	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 165724	Soil	55	21	0.60	148	0.097	1	2.19	0.011	0.30	0.1	0.06	7.5	0.3	<0.05	10	0.5	<0.2
ROS 165717	Soil	10	46	0.57	259	0.074	2	1.85	0.011	0.11	0.2	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 163753	Soil	40	45	0.95	286	0.229	<1	2.26	0.031	1.26	<0.1	<0.01	4.3	0.8	0.48	7	2.3	<0.2
ROS 163750	Soil	94	27	0.60	282	0.129	<1	1.87	0.031	0.85	<0.1	0.01	3.4	0.4	0.43	5	0.6	<0.2
ROS 163745	Soil	18	31	0.87	227	0.137	<1	2.03	0.015	0.34	0.1	<0.01	3.6	0.3	<0.05	6	0.7	<0.2
ROS 163744	Soil	21	31	0.92	315	0.177	1	2.11	0.017	0.40	0.1	<0.01	3.7	0.3	<0.05	6	0.5	<0.2
ROS 163749	Soil	42	63	1.45	341	0.209	<1	2.71	0.024	1.06	<0.1	<0.01	6.4	0.6	<0.05	10	<0.5	<0.2

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163752	Soil	1.5	36.9	18.1	52	<0.1	16.6	7.0	183	3.80	6.2	0.9	1.2	5.4	23	<0.1	0.3	0.4	64	0.11	0.056
ROS 160414	Soil	1.1	41.0	7.8	87	0.3	24.8	11.4	353	2.83	1.6	1.9	0.9	7.3	18	0.2	0.1	0.1	54	0.19	0.060
ROS 163748	Soil	1.1	59.1	7.3	96	<0.1	50.4	23.3	351	4.61	1.4	1.3	<0.5	9.0	14	<0.1	0.1	0.3	90	0.55	0.202
ROS 163747	Soil	1.4	32.8	6.8	51	<0.1	25.4	12.6	184	2.71	4.2	1.1	1.2	5.8	12	<0.1	0.2	0.2	55	0.13	0.035
ROS 163746	Soil	2.1	35.5	8.6	68	<0.1	28.3	14.3	269	3.27	4.5	0.9	0.6	7.4	15	<0.1	0.2	0.2	67	0.19	0.039
ROS 163751	Soil	0.5	56.8	5.1	81	<0.1	17.1	20.9	291	4.33	<0.5	0.9	1.3	1.2	60	0.1	<0.1	0.1	164	0.46	0.132
ROS 151799	Soil	1.7	39.1	17.1	61	0.1	27.3	9.9	444	2.63	9.6	0.6	4.3	7.7	32	<0.1	0.8	0.2	52	0.50	0.027
ROS 151806	Soil	0.4	13.9	16.5	78	<0.1	7.8	5.5	385	2.79	3.3	1.4	3.4	14.3	19	<0.1	1.7	0.1	45	0.43	0.069
ROS 151807	Soil	1.6	47.6	34.2	121	0.1	37.3	14.1	966	4.73	7.4	1.6	7.6	16.6	18	<0.1	2.0	0.3	95	0.32	0.053
ROS 151811	Soil	0.6	18.9	9.0	98	<0.1	14.3	10.9	427	2.92	4.3	1.6	5.3	18.0	69	<0.1	1.0	<0.1	51	0.47	0.060
ROS 163754	Soil	0.7	239.6	7.5	91	0.2	37.0	13.4	336	4.37	1.5	2.0	3.1	7.1	53	0.2	<0.1	0.3	90	0.30	0.084
ROS 151797	Soil	1.7	30.6	14.5	67	<0.1	30.3	11.5	558	2.68	9.0	0.8	2.6	8.5	30	<0.1	0.8	0.2	52	0.44	0.036
ROS 151810	Soil	0.4	37.7	10.2	127	<0.1	17.7	19.6	829	4.47	3.5	0.9	11.1	5.0	69	0.1	0.9	<0.1	83	0.91	0.158
ROS 151812	Soil	0.6	18.9	8.0	96	<0.1	13.0	10.4	420	2.86	4.5	1.5	5.4	17.6	70	<0.1	0.9	<0.1	51	0.48	0.064
ROS 151798	Soil	0.7	30.2	12.9	52	0.1	24.4	9.6	472	2.26	10.2	0.6	2.3	3.7	40	0.1	0.6	0.1	46	0.68	0.055
ROS 151808	Soil	0.8	12.3	39.3	133	0.1	15.7	12.5	763	3.08	3.3	1.1	<0.5	8.0	29	0.1	0.9	0.2	67	0.43	0.055
ROS 151809	Soil	0.7	28.8	27.7	86	0.1	31.7	11.8	612	3.23	5.3	2.0	1.6	18.2	31	<0.1	1.1	0.2	59	1.11	0.066
ROS 151814	Soil	0.5	25.7	6.2	86	<0.1	17.3	11.3	521	2.73	4.5	0.6	2.2	5.7	65	<0.1	0.8	<0.1	54	0.83	0.078
ROS 163874	Soil	0.9	18.9	6.3	50	<0.1	17.4	8.1	343	2.13	7.4	0.6	2.3	2.3	29	0.2	0.4	0.1	44	0.59	0.069
ROS 163873	Soil	1.4	27.7	10.1	60	0.3	15.1	7.6	275	2.65	5.8	0.8	3.8	4.7	17	<0.1	0.3	0.1	54	0.21	0.034
ROS 163875	Soil	0.9	16.4	6.8	56	0.1	15.7	10.2	444	2.15	6.4	0.6	1.4	2.3	23	0.2	0.4	0.1	46	0.45	0.073
ROS 151813	Soil	0.4	25.9	6.1	87	<0.1	15.2	10.8	506	2.62	4.2	0.5	2.2	5.2	49	<0.1	0.7	<0.1	48	0.76	0.073
ROS 163549	Soil	0.8	29.6	7.9	89	0.2	17.9	9.3	236	2.72	3.9	2.1	1.2	2.3	26	0.2	0.2	0.1	65	0.28	0.059
ROS 163565	Soil	1.6	25.3	5.6	77	0.2	18.2	8.3	253	2.54	3.9	0.8	3.4	2.5	26	0.2	0.2	<0.1	55	0.36	0.082
ROS 163548	Soil	1.0	24.8	6.9	126	0.2	12.8	10.3	358	3.39	3.8	0.7	1.7	1.4	21	0.2	0.2	<0.1	82	0.29	0.071
ROS 163567	Soil	1.1	28.5	5.3	88	<0.1	10.7	11.8	363	3.69	2.2	1.0	1.0	2.7	28	0.2	0.1	<0.1	83	0.81	0.089
ROS 148058	Soil	1.0	36.6	7.9	56	<0.1	21.4	11.4	334	3.52	2.6	1.2	3.1	7.9	19	<0.1	0.1	0.1	63	0.32	0.070
ROS 163547	Soil	1.1	27.2	4.7	87	<0.1	12.6	11.3	317	3.32	2.9	0.8	0.6	1.7	14	0.2	0.2	<0.1	72	0.48	0.151
ROS 163564	Soil	1.3	22.7	11.5	62	0.3	16.9	7.8	204	2.69	6.1	0.8	3.3	2.7	19	0.2	0.3	0.1	61	0.30	0.053
ROS 163546	Soil	2.9	57.7	11.0	117	0.1	26.6	9.4	269	3.14	3.8	2.0	2.8	5.8	37	0.2	0.2	0.3	64	0.14	0.052

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 163752	Soil			19	40	0.57	145	0.092	<1	1.75	0.017	0.24	<0.1	<0.01	2.7	0.2	0.13	7	0.7	<0.2
ROS 160414	Soil			37	34	0.88	231	0.214	<1	1.94	0.013	0.73	<0.1	0.04	3.6	0.4	<0.05	7	0.9	<0.2
ROS 163748	Soil			39	64	1.50	331	0.207	<1	2.78	0.023	1.13	<0.1	<0.01	6.9	0.6	<0.05	10	<0.5	<0.2
ROS 163747	Soil			22	30	0.70	149	0.127	1	1.72	0.010	0.28	0.1	<0.01	2.9	0.3	<0.05	7	<0.5	<0.2
ROS 163746	Soil			16	32	0.91	197	0.130	<1	2.16	0.015	0.43	0.1	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2
ROS 163751	Soil			6	4	1.83	278	0.156	<1	3.42	0.045	1.34	0.1	<0.01	7.9	0.5	0.44	10	<0.5	<0.2
ROS 151799	Soil			21	33	0.58	338	0.087	2	1.72	0.036	0.08	0.2	0.06	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 151806	Soil			39	10	0.43	104	0.004	<1	1.17	0.006	0.05	0.6	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 151807	Soil			45	50	0.56	139	0.044	<1	1.45	0.010	0.17	0.2	0.11	8.5	0.1	<0.05	6	1.3	<0.2
ROS 151811	Soil			33	27	1.01	128	0.154	<1	1.97	0.011	0.42	0.2	<0.01	2.8	0.3	<0.05	8	<0.5	<0.2
ROS 163754	Soil			26	42	1.05	347	0.187	<1	2.59	0.026	0.92	<0.1	<0.01	5.2	0.6	<0.05	7	0.6	<0.2
ROS 151797	Soil			23	41	0.58	299	0.091	1	1.68	0.023	0.14	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 151810	Soil			22	32	2.28	290	0.267	1	2.59	0.013	0.63	0.2	0.08	2.9	0.3	<0.05	9	<0.5	0.3
ROS 151812	Soil			33	24	1.00	131	0.167	1	1.98	0.011	0.41	0.1	<0.01	2.7	0.3	<0.05	8	0.6	<0.2
ROS 151798	Soil			15	25	0.54	305	0.062	2	1.25	0.029	0.07	0.2	0.04	3.5	<0.1	<0.05	4	0.7	<0.2
ROS 151808	Soil			12	35	0.89	292	0.092	2	2.05	0.012	0.33	0.2	0.01	3.9	0.2	<0.05	8	<0.5	<0.2
ROS 151809	Soil			61	109	1.13	191	0.098	2	1.92	0.010	0.45	0.3	0.05	5.5	0.3	<0.05	8	<0.5	<0.2
ROS 151814	Soil			15	37	1.06	202	0.181	1	1.92	0.015	0.37	0.1	0.03	2.4	0.2	<0.05	7	<0.5	<0.2
ROS 163874	Soil			10	23	0.49	236	0.047	2	1.11	0.018	0.05	0.2	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
ROS 163873	Soil			19	23	0.54	125	0.091	1	1.69	0.013	0.14	0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
ROS 163875	Soil			11	22	0.48	227	0.051	1	1.11	0.017	0.07	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	0.3
ROS 151813	Soil			15	28	1.01	196	0.133	1	1.83	0.011	0.38	0.1	0.03	2.1	0.2	<0.05	6	<0.5	<0.2
ROS 163549	Soil			12	36	0.75	266	0.092	<1	1.94	0.017	0.23	<0.1	0.02	4.3	0.1	<0.05	7	<0.5	<0.2
ROS 163565	Soil			11	37	0.69	244	0.079	<1	1.52	0.018	0.27	0.2	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 163548	Soil			7	22	0.99	252	0.138	<1	2.18	0.018	0.48	<0.1	0.01	3.7	0.2	<0.05	9	<0.5	<0.2
ROS 163567	Soil			13	32	1.00	431	0.098	<1	2.63	0.058	0.56	0.1	<0.01	5.7	0.2	<0.05	7	<0.5	<0.2
ROS 148058	Soil			30	32	0.96	330	0.158	<1	2.19	0.014	0.69	0.1	<0.01	4.4	0.4	<0.05	7	<0.5	<0.2
ROS 163547	Soil			8	18	0.81	212	0.096	<1	1.96	0.025	0.39	<0.1	0.01	4.1	0.1	<0.05	7	0.6	<0.2
ROS 163564	Soil			15	34	0.59	209	0.064	1	1.70	0.012	0.08	0.2	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 163546	Soil			26	47	0.92	319	0.088	<1	2.07	0.010	0.32	<0.1	0.01	3.8	0.3	0.06	6	0.7	0.3

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163880	Soil	1.1	23.0	8.1	61	0.2	16.5	7.3	345	2.35	8.1	0.6	2.1	2.8	16	0.2	0.3	0.2	52	0.22	0.037
ROS 163878	Soil	1.6	28.4	14.6	80	0.2	18.4	11.9	479	3.07	7.0	1.1	5.8	6.0	24	0.3	0.3	0.2	55	0.42	0.082
ROS 163876	Soil	0.9	15.4	5.8	56	0.1	14.0	6.4	176	2.05	5.1	0.6	3.3	1.3	18	0.2	0.2	0.1	48	0.27	0.061
ROS 163871	Soil	1.1	31.8	8.1	75	<0.1	14.8	11.1	421	3.07	3.9	1.1	1.7	7.2	24	0.2	0.2	<0.1	54	0.36	0.054
ROS 163879	Soil	1.8	27.8	8.0	81	0.1	17.7	11.6	454	3.13	7.3	1.1	5.1	6.5	23	0.2	0.2	0.2	55	0.42	0.081
ROS 163877	Soil	1.5	23.6	8.2	107	0.2	11.7	20.0	1468	4.99	2.8	0.9	1.8	5.4	23	0.2	0.1	<0.1	110	0.55	0.096
ROS 163872	Soil	1.1	29.9	6.6	66	<0.1	15.9	9.4	346	2.79	5.5	0.9	2.3	5.8	18	0.1	0.3	0.1	56	0.25	0.044
ROS 163870	Soil	1.1	42.5	9.3	82	0.1	21.3	10.1	287	2.93	5.8	0.9	2.4	5.6	18	0.1	0.3	0.1	58	0.25	0.054
ROS 160306	Soil	0.9	30.3	5.2	76	<0.1	24.6	10.4	289	2.93	2.9	1.4	3.2	5.9	15	0.2	0.2	0.1	55	0.22	0.054
ROS 160299	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.
ROS 148081	Soil	1.0	106.1	5.2	44	0.3	21.0	9.2	218	3.24	2.8	1.5	1.9	9.2	28	<0.1	0.2	0.3	57	0.20	0.063
ROS 148080	Soil	1.1	108.3	7.0	45	0.3	21.3	9.6	216	3.35	2.7	1.6	3.3	9.4	29	<0.1	0.1	0.3	59	0.21	0.066
ROS 160194	Soil	1.3	34.6	6.1	57	0.1	19.6	8.8	283	3.20	4.7	1.0	3.6	4.7	19	0.1	0.3	0.1	66	0.23	0.035
ROS 160309	Soil	1.5	26.8	9.7	74	0.1	21.2	10.7	362	2.85	4.7	0.8	1.6	4.7	15	0.1	0.2	0.1	58	0.21	0.048
ROS 148085	Soil	1.4	39.4	8.6	69	0.2	29.1	15.0	846	3.23	8.9	0.8	2.1	2.8	19	0.1	0.5	0.2	76	0.23	0.029
ROS 148084	Soil	0.8	56.6	9.7	172	<0.1	27.3	21.3	717	3.80	3.7	0.5	0.9	1.8	23	0.3	0.2	0.1	93	0.52	0.096
ROS 147972	Soil	3.0	54.3	16.4	87	0.3	29.5	9.7	953	3.88	4.6	1.4	1.8	4.6	51	0.2	0.2	0.2	101	0.14	0.088
ROS 147973	Soil	1.0	26.2	8.6	57	<0.1	21.5	9.9	318	2.76	9.0	0.7	3.3	3.1	17	<0.1	0.5	0.2	66	0.19	0.019
ROS 147971	Soil	0.8	29.7	7.8	59	<0.1	24.2	9.9	300	2.77	7.3	0.8	2.2	3.1	28	<0.1	0.4	0.2	64	0.27	0.033
ROS 148082	Soil	13.4	380.4	7.1	97	0.4	31.4	11.6	325	4.10	1.6	1.4	10.6	10.3	37	0.1	<0.1	0.9	76	0.28	0.051
ROS 148086	Soil	1.4	17.5	7.5	69	0.1	19.1	11.2	559	2.93	8.8	0.4	1.6	2.5	17	0.2	0.3	0.2	63	0.21	0.066
ROS 148088	Soil	0.8	23.4	8.4	50	<0.1	19.9	9.1	296	2.59	7.6	0.6	3.1	2.8	22	<0.1	0.4	0.2	57	0.30	0.041
ROS 148087	Soil	3.4	53.9	9.9	92	0.3	34.3	8.5	208	3.33	6.9	1.2	5.8	5.3	17	0.2	0.2	0.2	64	0.17	0.061
ROS 164276	Soil	0.4	29.6	3.7	35	<0.1	20.4	11.4	247	2.19	2.2	0.3	2.0	1.2	17	<0.1	0.1	<0.1	50	0.39	0.051
ROS 147106	Soil	0.6	29.1	11.0	88	<0.1	29.5	14.7	650	3.31	7.1	0.7	3.9	5.6	51	0.1	1.6	0.5	83	2.36	0.066
ROS 147103	Soil	0.2	26.1	10.3	61	0.1	17.7	8.6	204	2.14	6.0	1.6	4.6	5.9	38	0.1	0.9	0.1	45	0.96	0.057
ROS 165681	Soil	1.1	20.0	8.7	47	<0.1	21.1	7.3	228	2.26	6.5	0.9	2.6	8.0	19	<0.1	0.4	0.2	50	0.19	0.017
ROS 165679	Soil	0.9	12.8	13.9	48	<0.1	15.0	7.1	279	2.34	6.7	0.7	1.6	5.8	16	<0.1	0.4	0.2	56	0.16	0.020
ROS 147105	Soil	1.1	29.5	10.4	50	<0.1	28.9	8.5	221	2.70	12.1	1.0	6.2	8.8	22	<0.1	0.7	0.2	63	0.31	0.024
ROS 147102	Soil	0.8	30.9	16.6	62	0.2	21.5	9.5	498	2.72	7.2	1.1	3.2	13.8	28	<0.1	1.1	0.2	48	0.54	0.040

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 163880	Soil	12	25	0.45	172	0.066	<1	1.57	0.010	0.08	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 163878	Soil	22	27	0.60	218	0.075	<1	1.57	0.016	0.19	0.2	0.03	3.3	0.1	<0.05	5	<0.5	0.4
ROS 163876	Soil	10	23	0.46	191	0.049	1	1.28	0.012	0.05	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 163871	Soil	24	20	0.75	187	0.115	<1	2.06	0.015	0.46	<0.1	0.02	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 163879	Soil	21	27	0.61	216	0.076	<1	1.51	0.015	0.20	0.2	0.03	3.2	0.2	<0.05	5	<0.5	<0.2
ROS 163877	Soil	25	22	1.95	271	0.232	<1	2.90	0.013	1.23	0.1	0.02	3.2	0.5	<0.05	9	<0.5	<0.2
ROS 163872	Soil	20	23	0.60	140	0.102	1	1.84	0.013	0.22	0.1	0.02	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 163870	Soil	20	26	0.65	144	0.100	1	1.88	0.016	0.21	<0.1	0.03	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 160306	Soil	25	32	0.86	202	0.130	<1	1.84	0.011	0.61	0.1	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
ROS 160299	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.
ROS 148081	Soil	32	39	0.93	204	0.107	<1	2.04	0.020	0.72	0.4	0.02	3.5	0.4	0.17	6	<0.5	<0.2
ROS 148080	Soil	34	39	0.94	211	0.110	<1	2.15	0.019	0.73	0.1	0.01	3.5	0.4	0.18	6	<0.5	<0.2
ROS 160194	Soil	17	32	0.75	232	0.128	<1	2.00	0.014	0.30	0.1	0.01	4.1	0.2	<0.05	8	<0.5	<0.2
ROS 160309	Soil	18	27	0.67	146	0.113	<1	1.67	0.011	0.24	0.1	0.03	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 148085	Soil	12	38	0.64	304	0.077	1	2.14	0.015	0.09	0.1	0.04	5.9	<0.1	<0.05	7	<0.5	<0.2
ROS 148084	Soil	9	42	1.06	322	0.125	<1	2.14	0.025	0.62	<0.1	0.02	5.9	0.2	<0.05	8	<0.5	<0.2
ROS 147972	Soil	19	102	1.09	482	0.132	<1	2.98	0.024	0.53	<0.1	0.01	5.4	0.4	0.28	9	2.5	<0.2
ROS 147973	Soil	13	38	0.58	245	0.073	<1	2.05	0.017	0.07	0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147971	Soil	12	40	0.66	232	0.074	1	1.80	0.025	0.06	0.2	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 148082	Soil	44	46	1.10	371	0.172	<1	2.66	0.022	1.02	<0.1	0.01	4.1	0.6	0.20	8	0.7	<0.2
ROS 148086	Soil	9	33	0.57	201	0.071	<1	1.64	0.009	0.16	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 148088	Soil	13	31	0.55	268	0.060	<1	1.69	0.016	0.06	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 148087	Soil	21	44	0.73	268	0.086	<1	1.84	0.009	0.41	<0.1	0.02	3.1	0.3	0.09	7	1.3	<0.2
ROS 164276	Soil	7	39	0.80	171	0.093	<1	1.64	0.020	0.25	0.5	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 147106	Soil	20	50	0.99	379	0.082	2	1.76	0.030	0.11	0.2	0.06	5.7	<0.1	<0.05	7	<0.5	<0.2
ROS 147103	Soil	17	26	0.49	310	0.062	2	1.28	0.021	0.08	0.2	0.07	3.3	<0.1	0.05	4	<0.5	<0.2
ROS 165681	Soil	27	35	0.47	184	0.063	1	1.77	0.013	0.06	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 165679	Soil	9	26	0.43	154	0.065	<1	1.57	0.010	0.06	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
ROS 147105	Soil	17	42	0.56	170	0.078	1	1.82	0.014	0.08	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 147102	Soil	40	25	0.52	322	0.051	2	1.51	0.022	0.11	0.4	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	
ROS 165682	Soil	0.8	16.6	7.4	41	<0.1	16.8	6.3	210	2.06	6.5	0.7	2.2	6.9	18	<0.1	0.3	0.2	49	0.17	0.016
ROS 165677	Soil	1.0	29.5	14.4	55	<0.1	25.9	11.5	322	3.36	8.4	0.9	1.6	6.3	26	<0.1	0.5	0.1	79	0.32	0.036
ROS 147104	Soil	0.6	22.9	10.6	48	0.2	17.0	6.7	299	1.78	5.2	1.0	14.5	4.3	39	0.2	1.4	0.2	41	1.03	0.087
ROS 147101	Soil	0.8	18.2	16.5	63	<0.1	15.3	8.4	448	2.49	12.9	1.5	2.5	13.9	22	0.2	1.3	0.2	46	0.56	0.044
ROS 165663	Soil	1.7	18.5	12.7	68	<0.1	27.5	9.7	354	2.79	7.4	0.7	3.4	4.9	35	0.1	0.7	0.2	63	0.42	0.036
ROS 165678	Soil	0.6	18.3	17.4	240	<0.1	12.6	12.1	322	3.91	6.4	0.5	5.8	2.7	54	<0.1	0.4	<0.1	103	0.47	0.071
ROS 147100	Soil	0.8	11.9	16.2	66	0.3	7.6	5.5	479	2.12	3.1	1.3	4.3	21.5	20	0.3	1.4	0.1	15	0.36	0.045
ROS 147099	Soil	1.4	17.2	26.1	48	0.2	23.3	7.5	302	2.30	7.0	0.7	5.2	5.7	25	0.1	1.1	0.1	51	0.42	0.020
ROS 147098	Soil	1.6	12.0	11.8	45	0.5	16.2	6.5	245	2.28	6.8	0.5	0.9	5.3	19	<0.1	1.4	0.1	49	0.26	0.018
ROS 165680	Soil	0.9	14.3	10.2	42	<0.1	16.3	8.2	248	2.32	6.8	0.5	1.2	4.6	18	<0.1	0.4	0.2	58	0.18	0.014
ROS 147184	Soil	0.6	23.6	8.7	57	0.1	22.2	10.7	521	2.41	8.3	0.7	2.2	4.8	33	0.1	0.8	0.2	54	0.41	0.022
ROS 147189	Soil	1.4	30.9	10.5	108	<0.1	15.7	10.4	487	3.90	6.8	1.4	2.3	13.4	42	<0.1	0.9	0.1	72	0.44	0.035
ROS 147188	Soil	1.0	15.4	10.7	104	0.1	27.5	14.4	716	3.29	6.2	0.7	2.2	6.0	40	0.1	0.8	0.1	71	0.54	0.046
ROS 173157	Soil	1.2	19.0	10.9	44	<0.1	20.3	8.9	241	3.08	12.1	0.9	3.8	11.6	18	<0.1	0.5	0.2	75	0.18	0.023
ROS 147185	Soil	0.8	14.9	9.7	66	<0.1	17.8	9.3	318	2.74	8.6	0.7	1.0	7.8	32	<0.1	0.6	0.1	61	0.36	0.035
ROS 147181	Soil	0.5	23.0	8.8	43	<0.1	24.3	8.7	300	2.41	9.3	0.4	2.7	3.5	28	<0.1	0.4	0.1	59	0.78	0.022
ROS 147180	Soil	0.5	25.5	8.9	46	0.1	27.5	8.5	316	2.48	10.3	0.6	4.4	3.4	28	<0.1	0.5	0.1	59	0.74	0.029
ROS 147186	Soil	0.7	27.0	8.2	58	0.1	23.0	9.3	490	2.35	6.4	0.5	4.3	3.4	39	0.2	0.5	0.1	52	0.54	0.060
ROS 147183	Soil	0.5	30.9	9.9	87	0.1	20.6	10.6	461	3.05	10.4	0.5	5.3	2.7	55	0.1	1.2	<0.1	75	3.21	0.135
ROS 147182	Soil	1.0	35.7	14.6	80	<0.1	24.7	8.9	374	2.84	9.3	1.1	8.6	6.6	16	0.1	2.3	0.1	59	0.39	0.024
ROS 147179	Soil	0.8	36.8	11.1	56	<0.1	34.8	11.4	429	2.84	11.4	0.5	4.9	4.7	27	0.1	0.6	0.2	65	0.81	0.017
ROS 147178	Soil	0.7	28.2	11.6	55	<0.1	29.2	9.4	417	2.50	12.0	0.7	2.1	3.5	32	0.2	0.9	0.1	68	2.22	0.025
ROS 147187	Soil	0.7	44.6	10.0	81	<0.1	27.1	12.9	491	3.26	7.6	0.7	2.5	4.8	49	<0.1	1.0	0.2	77	0.58	0.040
ROS 147096	Soil	2.0	22.5	12.0	54	0.2	21.7	8.6	351	2.43	9.7	0.7	4.6	8.8	23	<0.1	1.3	0.1	51	0.44	0.024
ROS 147097	Soil	0.9	24.6	10.2	42	1.0	20.5	8.3	273	2.35	7.6	0.8	3.2	6.3	26	<0.1	1.2	0.1	51	0.42	0.031
ROS 147107	Soil	0.8	35.0	9.1	84	<0.1	21.8	12.1	481	3.11	7.8	1.0	2.5	5.4	49	<0.1	1.1	0.1	68	0.71	0.052
ROS 173159	Soil	0.8	21.0	9.3	42	0.1	17.5	7.0	232	2.34	7.2	1.1	2.2	8.7	21	<0.1	0.5	0.2	56	0.24	0.018
ROS 173154	Soil	0.6	23.4	10.7	66	<0.1	14.7	7.9	258	2.32	4.9	1.2	0.7	8.4	33	0.1	0.4	0.1	51	0.36	0.042
ROS 141796	Soil	1.1	11.6	7.8	60	<0.1	13.9	7.8	360	2.91	7.0	0.5	1.0	6.0	18	<0.1	0.4	<0.1	60	0.23	0.060
ROS 141795	Soil	1.2	12.9	9.1	64	<0.1	13.2	8.3	426	3.11	7.1	0.6	1.6	8.4	19	<0.1	0.4	<0.1	56	0.25	0.062

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 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165682	Soil	24	27	0.42	161	0.065	1	1.49	0.013	0.06	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165677	Soil	15	49	0.80	215	0.090	<1	2.09	0.016	0.08	0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2
ROS 147104	Soil	15	30	0.47	365	0.058	2	1.04	0.025	0.08	0.4	0.09	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147101	Soil	43	24	0.40	281	0.033	2	1.30	0.014	0.08	0.3	0.05	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165663	Soil	13	50	0.52	318	0.066	2	2.12	0.014	0.11	0.3	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165678	Soil	11	24	1.53	277	0.214	<1	2.93	0.013	0.38	0.1	0.01	2.2	0.3	<0.05	15	<0.5	<0.2
ROS 147100	Soil	31	9	0.14	654	0.003	4	0.88	0.008	0.15	0.2	0.05	3.2	<0.1	<0.05	3	0.6	<0.2
ROS 147099	Soil	13	39	0.41	404	0.056	2	1.67	0.024	0.09	0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 147098	Soil	11	29	0.37	256	0.045	3	1.53	0.013	0.14	0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165680	Soil	12	31	0.42	187	0.082	<1	1.83	0.013	0.05	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 147184	Soil	17	33	0.50	221	0.066	2	1.64	0.015	0.12	<0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 147189	Soil	34	27	1.04	180	0.104	1	2.43	0.011	0.39	0.2	0.03	6.2	0.2	<0.05	11	<0.5	<0.2
ROS 147188	Soil	18	62	0.96	260	0.082	2	2.34	0.019	0.22	0.2	0.01	6.1	<0.1	<0.05	8	<0.5	<0.2
ROS 173157	Soil	14	43	0.54	201	0.080	1	2.58	0.013	0.07	0.1	0.03	3.0	0.1	<0.05	7	<0.5	<0.2
ROS 147185	Soil	13	33	0.58	204	0.109	2	1.82	0.015	0.22	0.2	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 147181	Soil	15	30	0.51	235	0.057	1	1.65	0.025	0.06	0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 147180	Soil	15	31	0.55	276	0.069	2	1.69	0.029	0.07	0.1	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 147186	Soil	15	29	0.50	237	0.073	2	1.61	0.021	0.20	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 147183	Soil	17	30	1.53	225	0.047	3	2.00	0.023	0.09	0.2	0.07	4.8	<0.1	<0.05	8	<0.5	<0.2
ROS 147182	Soil	25	33	0.41	142	0.017	2	1.60	0.012	0.14	0.2	0.14	6.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147179	Soil	21	39	0.57	217	0.078	1	2.12	0.033	0.06	0.1	0.08	5.5	<0.1	<0.05	6	<0.5	<0.2
ROS 147178	Soil	16	37	0.87	239	0.062	2	2.15	0.024	0.05	0.1	0.15	5.3	<0.1	<0.05	6	0.5	<0.2
ROS 147187	Soil	17	46	0.96	269	0.117	1	2.37	0.044	0.14	0.2	0.05	5.3	<0.1	<0.05	8	<0.5	<0.2
ROS 147096	Soil	19	33	0.49	330	0.064	2	1.58	0.020	0.13	0.2	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147097	Soil	23	29	0.44	448	0.059	2	1.55	0.022	0.08	0.1	0.13	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 147107	Soil	32	30	1.22	191	0.110	1	2.16	0.017	0.08	0.2	0.06	4.1	<0.1	<0.05	7	<0.5	<0.2
ROS 173159	Soil	33	31	0.43	204	0.074	1	1.95	0.015	0.08	0.1	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 173154	Soil	31	27	0.58	136	0.094	1	1.75	0.021	0.09	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 141796	Soil	12	25	0.57	152	0.080	1	2.08	0.011	0.26	0.1	0.04	2.8	0.1	<0.05	8	<0.5	<0.2
ROS 141795	Soil	13	22	0.64	139	0.082	<1	2.15	0.011	0.30	0.1	0.06	2.9	0.2	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 173150	Soil	0.9	14.5	10.5	56	<0.1	13.6	7.4	250	1.95	4.4	0.8	3.6	5.4	28	0.1	0.4	0.2	46	0.35	0.038
ROS 173152	Soil	0.7	24.4	13.3	72	<0.1	18.6	9.4	391	2.23	5.5	1.7	2.4	8.7	33	0.2	0.5	0.2	48	0.43	0.051
ROS 141794	Soil	0.6	27.0	7.9	55	0.1	23.0	8.5	387	2.24	7.9	0.9	2.9	3.7	41	0.2	0.5	0.2	49	0.67	0.060
ROS 141799	Soil	0.7	38.3	20.4	83	<0.1	27.6	11.9	628	3.08	7.5	0.6	3.0	7.2	38	<0.1	0.8	0.2	57	0.55	0.036
ROS 173151	Soil	0.7	19.4	11.2	71	<0.1	16.6	9.5	409	2.38	5.6	1.4	1.1	7.3	36	0.2	0.5	0.2	53	0.50	0.056
ROS 173156	Soil	0.7	20.5	9.4	45	<0.1	21.0	8.8	213	2.64	10.0	0.6	3.1	6.0	20	<0.1	0.6	0.2	64	0.18	0.013
ROS 173149	Soil	0.7	14.5	10.2	59	<0.1	13.6	7.7	266	2.20	5.7	1.2	2.4	8.4	29	0.1	0.4	0.2	47	0.36	0.049
ROS 141798	Soil	0.8	40.6	20.7	83	<0.1	29.4	12.2	637	3.12	7.5	0.7	11.4	7.3	37	<0.1	0.8	0.2	56	0.58	0.037
ROS 173153	Soil	0.7	27.9	11.7	63	0.1	15.7	6.8	208	2.36	5.9	1.0	1.1	6.8	29	0.2	0.5	0.2	54	0.27	0.033
ROS 173160	Soil	0.7	23.0	30.4	74	<0.1	16.2	8.2	234	3.20	7.7	0.9	3.7	9.8	17	<0.1	0.6	0.2	62	0.15	0.022
ROS 173155	Soil	1.0	19.0	14.6	68	<0.1	18.8	9.0	281	2.95	7.7	1.0	1.8	9.2	23	<0.1	0.5	0.1	61	0.21	0.026
ROS 173158	Soil	0.7	19.0	12.5	110	<0.1	8.7	8.3	344	3.18	4.5	0.9	0.7	11.0	29	<0.1	0.4	0.1	60	0.18	0.024
ROS 163885	Soil	0.6	17.9	8.1	63	<0.1	16.7	8.9	322	2.48	6.0	1.6	2.8	5.6	38	0.2	0.5	0.1	48	0.55	0.071
ROS 160336	Soil	0.6	15.1	6.1	43	<0.1	8.9	4.0	114	2.01	5.1	0.7	2.7	1.2	17	0.2	0.2	0.1	50	0.22	0.049
ROS 163882	Soil	1.2	18.4	9.2	59	0.1	17.5	11.8	303	2.69	8.3	1.7	1.7	3.8	33	0.2	0.6	0.2	51	0.36	0.079
ROS 163887	Soil	0.9	30.3	10.6	67	<0.1	21.6	11.2	514	3.16	7.8	1.0	2.9	13.1	29	<0.1	0.5	0.2	68	0.29	0.025
ROS 160526	Soil	1.7	33.5	19.1	123	<0.1	16.3	9.2	1201	3.27	4.5	3.9	1.6	28.4	25	0.1	0.4	0.5	37	0.39	0.064
ROS 160335	Soil	0.6	15.6	5.9	40	<0.1	9.5	4.0	96	1.73	3.7	0.7	7.3	0.9	18	0.2	0.2	0.1	34	0.21	0.051
ROS 163886	Soil	1.6	29.7	7.6	78	0.1	21.1	13.5	855	2.68	5.9	3.0	2.8	4.3	50	0.2	0.3	0.1	59	0.70	0.062
ROS 163960	Soil	1.1	24.3	10.4	62	0.1	17.1	8.6	248	2.56	8.0	2.3	5.1	8.8	35	0.2	0.6	0.2	53	0.41	0.071
ROS 163884	Soil	0.5	17.4	6.8	57	<0.1	15.5	6.8	337	1.80	4.3	2.3	2.5	4.7	41	0.2	0.5	0.1	43	0.66	0.074
ROS 164295	Soil	0.7	18.9	5.9	49	0.1	10.1	6.8	209	2.33	3.2	0.7	2.0	2.1	22	0.1	0.2	0.1	55	0.30	0.038
ROS 160331	Soil	1.7	26.2	6.6	91	0.2	10.7	8.1	281	3.29	5.3	0.9	2.5	3.4	25	0.1	0.3	0.1	84	0.26	0.051
ROS 166000	Soil	0.9	37.0	18.3	79	0.1	23.8	11.4	481	3.18	11.0	1.2	5.4	15.4	35	<0.1	2.3	0.2	60	0.48	0.040
ROS 163883	Soil	0.7	22.5	12.6	73	<0.1	18.4	8.7	256	2.45	6.3	1.6	1.0	9.7	35	0.2	0.6	0.2	54	0.43	0.074
ROS 105592	Soil	0.9	26.8	9.0	57	<0.1	25.8	8.9	277	2.73	8.0	0.8	1.9	6.0	27	<0.1	0.5	0.2	64	0.27	0.016
ROS 105590	Soil	0.8	21.9	7.3	56	<0.1	18.8	10.4	369	2.79	7.4	0.6	2.4	4.6	29	0.1	0.5	0.1	68	0.39	0.042
ROS 105586	Soil	0.9	19.4	8.6	57	<0.1	16.4	6.9	270	2.30	6.6	0.6	9.5	4.9	24	<0.1	0.4	0.1	54	0.30	0.016
ROS 105594	Soil	0.6	27.5	8.9	49	0.1	21.8	8.8	377	2.44	7.7	1.4	4.9	4.9	37	<0.1	0.5	0.1	57	0.51	0.037
ROS 165531	Soil	0.7	27.0	9.1	53	0.1	24.8	8.9	415	2.53	7.4	1.4	3.5	5.2	39	0.1	0.6	0.2	62	0.51	0.037

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173150	Soil	14	23	0.45	155	0.082	<1	1.31	0.017	0.08	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173152	Soil	24	27	0.50	223	0.084	<1	1.46	0.019	0.06	0.2	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 141794	Soil	14	26	0.55	304	0.065	<1	1.21	0.031	0.06	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 141799	Soil	22	41	0.80	248	0.080	<1	1.91	0.023	0.10	<0.1	0.06	5.1	<0.1	<0.05	7	<0.5	<0.2
ROS 173151	Soil	18	28	0.55	219	0.088	1	1.53	0.022	0.07	0.2	0.04	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 173156	Soil	16	36	0.54	184	0.091	<1	1.99	0.015	0.06	0.1	0.02	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 173149	Soil	24	22	0.48	176	0.079	<1	1.45	0.016	0.06	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	0.2
ROS 141798	Soil	22	46	0.82	243	0.082	<1	2.03	0.026	0.10	0.1	0.06	5.1	<0.1	<0.05	8	<0.5	<0.2
ROS 173153	Soil	21	26	0.49	136	0.096	<1	1.67	0.015	0.08	0.1	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 173160	Soil	24	27	0.57	135	0.099	<1	2.43	0.010	0.10	0.1	0.05	3.3	0.2	<0.05	8	0.5	<0.2
ROS 173155	Soil	16	31	0.59	159	0.093	<1	2.27	0.013	0.09	0.1	0.03	2.7	0.1	<0.05	7	<0.5	<0.2
ROS 173158	Soil	7	16	0.81	84	0.149	<1	2.52	0.009	0.18	<0.1	0.03	1.9	0.3	<0.05	11	<0.5	<0.2
ROS 163885	Soil	26	25	0.49	243	0.076	<1	1.41	0.027	0.08	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160336	Soil	9	18	0.36	108	0.072	<1	1.18	0.016	0.05	0.2	0.04	2.5	<0.1	<0.05	5	0.6	<0.2
ROS 163882	Soil	27	26	0.44	262	0.065	<1	1.58	0.020	0.06	0.2	0.05	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 163887	Soil	19	36	0.69	248	0.115	<1	2.19	0.017	0.19	0.1	0.01	5.3	0.2	<0.05	8	<0.5	<0.2
ROS 160526	Soil	34	17	0.59	263	0.138	<1	1.74	0.015	0.57	0.2	0.04	4.8	0.6	<0.05	8	<0.5	<0.2
ROS 160335	Soil	10	17	0.28	120	0.060	<1	1.05	0.015	0.04	0.1	0.04	2.2	<0.1	0.06	4	0.6	<0.2
ROS 163886	Soil	22	29	0.72	293	0.106	<1	1.54	0.027	0.15	0.2	0.05	4.1	0.1	<0.05	5	0.5	<0.2
ROS 163960	Soil	46	26	0.45	272	0.075	<1	1.80	0.023	0.07	0.1	0.05	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 163884	Soil	27	25	0.49	232	0.081	1	1.33	0.029	0.09	0.2	0.04	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 164295	Soil	14	20	0.57	214	0.102	<1	1.54	0.025	0.12	0.2	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 160331	Soil	14	19	0.65	217	0.129	<1	2.01	0.023	0.21	<0.1	0.04	5.0	0.1	<0.05	8	<0.5	<0.2
ROS 166000	Soil	46	34	0.65	263	0.066	<1	1.91	0.017	0.14	0.2	0.15	5.4	<0.1	<0.05	8	<0.5	<0.2
ROS 163883	Soil	32	28	0.56	224	0.094	<1	1.69	0.026	0.13	0.2	0.04	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 105592	Soil	19	42	0.61	186	0.110	<1	2.17	0.016	0.10	0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
ROS 105590	Soil	15	38	0.75	193	0.114	<1	1.79	0.021	0.15	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 105586	Soil	18	31	0.55	171	0.095	<1	1.63	0.013	0.09	0.1	0.03	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 105594	Soil	17	33	0.56	290	0.084	<1	1.73	0.029	0.06	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165531	Soil	18	39	0.58	312	0.093	<1	1.81	0.028	0.07	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000591.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 105591	Soil		0.7	25.3	10.0	56	<0.1	21.1	9.6	438	2.54	7.8	1.0	3.2	4.6	37	<0.1	0.5	0.2	60	0.52	0.041
ROS 141797	Soil		0.8	31.0	10.5	67	<0.1	23.5	9.5	379	2.77	8.1	0.8	2.2	5.5	37	0.1	0.6	0.2	63	0.53	0.048
ROS 165534	Soil		0.9	14.3	8.6	56	<0.1	20.2	8.5	357	2.41	6.6	0.4	6.2	3.3	21	0.1	0.4	0.1	61	0.22	0.025
ROS 105585	Soil		0.8	15.9	8.3	40	<0.1	14.9	6.0	354	1.94	5.6	0.7	2.2	5.0	20	0.1	0.4	0.2	51	0.20	0.025
ROS 95415	Soil		0.9	14.1	9.1	79	<0.1	18.0	9.0	338	2.67	6.9	0.4	1.7	3.1	22	0.1	0.5	0.1	70	0.21	0.036
ROS 95413	Soil		0.7	16.4	8.7	81	<0.1	19.7	9.7	406	3.01	7.4	0.6	0.7	4.1	34	0.1	0.6	0.2	77	0.22	0.033
ROS 105584	Soil		0.7	18.6	13.5	47	<0.1	18.7	7.9	260	2.29	6.8	0.7	1.0	7.1	20	<0.1	0.5	0.2	54	0.25	0.018
ROS 105587	Soil		1.0	21.1	9.1	51	<0.1	16.7	7.3	264	2.25	6.0	0.7	1.5	4.7	24	<0.1	0.5	0.1	54	0.32	0.023
ROS 165532	Soil		1.5	27.8	11.4	70	0.2	24.3	10.7	1442	2.49	4.6	0.7	<0.5	3.1	23	0.4	0.3	0.2	57	0.31	0.042
ROS 141800	Soil		0.5	22.4	8.5	51	<0.1	20.4	7.9	333	2.30	5.4	1.1	0.9	6.4	27	<0.1	0.4	0.1	53	0.34	0.025
ROS 105589	Soil		1.5	14.9	10.3	50	<0.1	18.6	7.4	242	2.59	8.5	0.5	<0.5	3.6	21	<0.1	0.5	0.2	63	0.29	0.024
ROS 105588	Soil		0.8	18.1	9.0	47	<0.1	17.6	8.1	294	2.24	6.3	0.7	1.5	4.3	24	<0.1	0.4	0.1	55	0.33	0.023
ROS 105593	Soil		1.0	28.2	10.5	70	<0.1	17.8	8.2	276	2.65	9.3	0.8	1.8	4.4	23	<0.1	0.5	0.1	57	0.28	0.021
ROS 165533	Soil		1.7	38.7	11.5	82	0.2	29.1	15.1	2680	2.77	4.8	0.8	2.6	3.6	27	0.6	0.4	0.2	59	0.37	0.065
ROS 173287	Soil		0.4	14.4	5.6	40	<0.1	9.5	5.1	194	1.38	2.6	0.5	<0.5	5.7	16	<0.1	0.3	0.2	28	0.23	0.028
ROS 173486	Soil		1.8	15.8	15.5	66	0.1	13.4	8.3	522	2.48	4.8	1.8	1.0	14.3	24	<0.1	3.2	0.3	38	0.41	0.053
ROS 173485	Soil		1.8	31.2	17.6	53	0.5	22.3	9.2	399	2.61	9.9	0.8	4.5	12.6	28	<0.1	2.6	0.3	53	0.48	0.027
ROS 173283	Soil		0.7	26.3	10.7	59	0.1	23.6	8.2	342	2.21	6.5	0.8	5.0	5.6	35	<0.1	0.8	0.2	46	0.64	0.066
ROS 173285	Soil		0.7	37.1	9.7	55	0.1	27.1	9.8	480	2.34	7.9	1.0	2.5	3.9	46	0.1	0.9	0.2	51	0.94	0.063
ROS 173494	Soil		1.3	17.7	13.7	56	<0.1	13.4	8.8	402	2.56	7.1	2.6	0.5	24.7	24	0.1	1.6	0.2	34	0.30	0.043
ROS 173481	Soil		1.0	41.6	10.0	114	<0.1	35.0	13.8	452	3.49	3.0	1.0	11.7	11.7	25	<0.1	2.0	0.2	44	0.31	0.034
ROS 173284	Soil		0.8	37.3	11.8	62	0.2	27.3	9.1	420	2.44	7.1	1.5	2.7	5.2	55	0.2	1.2	0.2	50	0.97	0.058
ROS 173288	Soil		0.7	18.4	6.6	52	<0.1	10.1	6.9	246	1.74	3.2	0.5	<0.5	6.3	16	<0.1	0.4	0.1	34	0.27	0.035
ROS 173487	Soil		1.4	113.5	40.3	87	0.7	20.5	12.3	689	3.96	8.5	1.9	4.6	29.9	24	<0.1	8.8	0.9	56	0.42	0.062
ROS 173491	Soil		1.3	25.2	14.8	73	<0.1	21.2	8.9	399	2.51	5.3	1.0	1.6	12.0	27	0.1	1.2	0.1	52	0.32	0.044
ROS 173492	Soil		0.8	32.6	10.4	51	0.1	24.4	8.8	328	2.58	9.0	1.0	7.8	5.8	29	<0.1	0.9	0.1	60	0.38	0.053
ROS 173286	Soil		0.6	31.4	10.1	52	0.1	24.0	8.9	353	2.36	8.5	1.4	4.7	3.8	44	<0.1	0.8	0.2	50	0.80	0.059
ROS 165610	Soil		1.0	21.3	7.4	67	<0.1	15.8	10.5	454	2.40	4.5	1.5	0.5	5.1	35	0.2	0.3	0.1	56	0.55	0.064
ROS 173490	Soil		1.1	18.9	19.3	85	<0.1	32.3	9.1	481	2.81	7.7	1.0	41.3	6.8	49	<0.1	2.1	0.2	62	0.45	0.047
ROS 173282	Soil		0.8	31.5	12.3	78	<0.1	25.1	10.5	469	2.56	9.1	0.7	6.0	5.9	39	0.3	1.1	0.2	57	1.11	0.069

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 105591	Soil	16	32	0.53	283	0.092	<1	1.78	0.028	0.09	0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 141797	Soil	19	35	0.64	273	0.105	<1	1.86	0.030	0.11	0.2	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 165534	Soil	9	33	0.45	161	0.082	<1	1.53	0.013	0.08	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 105585	Soil	19	24	0.35	174	0.079	<1	1.22	0.013	0.07	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 95415	Soil	10	31	0.47	188	0.060	<1	2.03	0.010	0.05	<0.1	0.01	2.5	0.1	<0.05	7	<0.5	<0.2
ROS 95413	Soil	10	33	0.65	219	0.106	<1	2.31	0.013	0.07	0.1	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
ROS 105584	Soil	19	28	0.48	178	0.060	<1	1.56	0.011	0.05	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 105587	Soil	14	26	0.51	176	0.082	1	1.35	0.012	0.08	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165532	Soil	12	27	0.68	242	0.067	1	1.66	0.020	0.07	0.2	0.02	3.1	<0.1	<0.05	7	<0.5	0.2
ROS 141800	Soil	19	33	0.54	207	0.085	<1	1.46	0.021	0.07	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 105589	Soil	9	29	0.44	213	0.068	1	1.59	0.015	0.08	0.2	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 105588	Soil	13	30	0.47	199	0.073	<1	1.40	0.013	0.07	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	0.2
ROS 105593	Soil	12	28	0.63	187	0.107	<1	1.62	0.012	0.14	0.2	0.01	2.6	<0.1	<0.05	6	0.6	<0.2
ROS 165533	Soil	14	27	0.75	304	0.066	<1	1.78	0.011	0.08	0.1	0.02	3.8	<0.1	<0.05	8	<0.5	<0.2
ROS 173287	Soil	6	14	0.33	78	0.069	2	0.96	0.012	0.22	0.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
ROS 173486	Soil	32	23	0.34	505	0.018	2	1.51	0.009	0.18	0.3	0.12	2.6	<0.1	<0.05	5	<0.5	0.2
ROS 173485	Soil	31	36	0.42	329	0.052	<1	1.64	0.013	0.18	0.2	0.12	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 173283	Soil	15	26	0.52	303	0.056	2	1.28	0.024	0.06	0.2	0.06	3.1	<0.1	<0.05	4	0.7	<0.2
ROS 173285	Soil	15	28	0.58	349	0.061	3	1.45	0.030	0.06	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173494	Soil	57	18	0.36	245	0.015	2	1.57	0.008	0.25	0.2	0.02	3.4	0.1	<0.05	6	0.7	<0.2
ROS 173481	Soil	36	61	1.23	703	0.043	<1	2.09	0.008	0.18	0.4	0.17	4.6	<0.1	<0.05	8	<0.5	0.2
ROS 173284	Soil	21	29	0.54	359	0.062	2	1.54	0.025	0.07	0.2	0.07	3.5	<0.1	<0.05	5	0.8	<0.2
ROS 173288	Soil	6	14	0.38	109	0.086	<1	1.18	0.014	0.29	0.1	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 173487	Soil	62	30	0.75	510	0.024	2	1.75	0.007	0.27	0.3	1.41	4.6	<0.1	<0.05	8	<0.5	<0.2
ROS 173491	Soil	19	38	0.47	237	0.059	<1	1.65	0.009	0.18	0.1	0.20	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 173492	Soil	18	33	0.48	212	0.079	2	1.31	0.020	0.09	0.2	0.08	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173286	Soil	15	29	0.52	339	0.062	1	1.50	0.023	0.06	0.2	0.04	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 165610	Soil	16	22	0.64	209	0.104	1	1.38	0.019	0.21	0.3	0.03	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 173490	Soil	17	66	0.51	221	0.028	<1	2.03	0.013	0.09	0.1	0.03	5.4	<0.1	<0.05	8	<0.5	<0.2
ROS 173282	Soil	19	28	0.57	344	0.077	2	1.43	0.027	0.07	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164958	Soil	1.0	38.0	6.4	182	<0.1	9.0	12.4	799	3.91	2.6	0.8	1.3	4.0	60	<0.1	0.1	0.1	123	0.24	0.046
ROS 164956	Soil	0.4	21.2	7.0	52	0.2	5.0	3.9	161	1.75	1.8	1.2	2.0	1.3	26	0.1	0.1	0.1	28	0.16	0.054
ROS 164955	Soil	0.9	26.1	5.6	81	0.1	5.7	8.2	324	2.62	1.6	1.0	2.3	2.2	30	<0.1	<0.1	<0.1	62	0.17	0.044
ROS 164954	Soil	0.8	19.5	7.8	46	0.1	6.0	5.5	167	1.82	1.7	1.2	0.6	1.5	26	0.2	<0.1	<0.1	31	0.19	0.059
ROS 164960	Soil	2.1	46.7	11.7	99	0.2	20.3	10.5	611	2.85	5.2	4.1	2.7	7.0	27	0.4	0.3	0.2	62	0.81	0.055
ROS 164953	Soil	2.1	33.3	23.8	106	0.4	14.1	9.1	307	2.54	3.2	4.4	1.3	11.2	36	0.3	0.2	0.3	53	0.34	0.047
ROS 164952	Soil	1.8	34.7	33.9	131	0.2	11.2	7.6	364	2.66	3.2	3.6	1.4	12.1	34	0.2	0.2	0.3	58	0.34	0.043
ROS 164949	Soil	1.7	21.4	13.6	54	0.2	15.6	7.1	223	2.48	5.1	1.3	2.8	5.5	26	<0.1	0.3	0.1	62	0.24	0.026
ROS 164959	Soil	1.7	35.8	7.0	132	0.1	10.4	13.5	848	4.17	2.1	1.5	<0.5	5.8	40	<0.1	0.1	0.3	111	0.42	0.035
ROS 164951	Soil	1.4	35.1	18.1	87	0.5	19.0	10.2	364	2.37	4.0	4.8	1.8	7.8	61	0.4	0.3	0.2	47	0.56	0.062
ROS 164950	Soil	1.4	23.0	14.4	73	0.1	14.4	9.2	300	2.40	4.4	2.1	2.0	8.9	37	0.1	0.3	0.1	59	0.32	0.046
ROS 164917	Soil	1.6	16.1	8.6	48	0.1	9.0	5.1	161	2.20	4.0	3.2	1.4	6.3	29	0.1	0.2	0.2	46	0.17	0.048
ROS 164957	Soil	0.3	11.9	3.0	31	0.2	3.4	1.8	68	0.73	3.4	0.7	1.0	0.3	14	0.1	<0.1	<0.1	16	0.10	0.037
ROS 164915	Soil	0.8	12.8	10.0	46	0.2	7.1	3.8	103	2.06	4.5	1.6	1.6	2.2	23	0.2	0.2	0.2	35	0.18	0.053
ROS 164918	Soil	1.6	13.8	7.0	44	0.1	7.9	5.2	166	2.11	3.7	2.2	0.5	6.2	29	0.1	0.2	0.1	43	0.15	0.039
ROS 164914	Soil	0.6	8.8	7.8	39	0.1	6.5	3.3	90	1.49	3.3	1.1	1.7	1.8	22	0.1	0.1	0.1	21	0.19	0.045
ROS 159426	Soil	1.4	13.1	12.8	72	<0.1	15.6	9.2	565	2.45	6.2	0.7	<0.5	12.9	16	0.1	0.4	0.2	46	0.20	0.033
ROS 159422	Soil	1.3	11.2	10.2	37	<0.1	5.9	3.6	132	1.33	2.3	0.4	1.0	8.9	14	<0.1	0.3	0.4	19	0.17	0.013
ROS 159420	Soil	2.3	16.5	25.9	80	<0.1	6.4	6.7	656	2.29	3.6	2.4	<0.5	74.3	13	<0.1	1.3	0.1	12	0.21	0.025
ROS 159416	Soil	2.5	27.0	88.9	189	0.2	8.9	7.7	364	2.17	27.3	2.1	2.3	12.0	32	0.6	1.0	1.4	31	0.28	0.033
ROS 159425	Soil	1.5	20.7	13.8	81	<0.1	21.3	11.5	446	3.17	9.3	1.1	1.6	9.7	18	0.1	0.5	0.3	64	0.21	0.041
ROS 159424	Soil	3.0	33.3	30.3	114	<0.1	16.4	15.3	440	4.89	5.9	2.2	0.8	25.7	21	<0.1	0.8	0.7	93	0.27	0.022
ROS 159419	Soil	1.4	12.3	112.9	83	<0.1	11.0	6.4	433	2.81	4.1	1.5	1.0	32.9	11	0.1	0.7	1.4	36	0.19	0.041
ROS 159415	Soil	0.3	28.0	5.9	54	<0.1	15.4	11.8	516	2.58	4.1	0.8	1.4	2.0	41	0.2	0.4	<0.1	63	1.28	0.083
ROS 164922	Soil	1.7	34.3	5.2	67	<0.1	8.1	13.1	487	3.89	4.3	0.6	0.6	2.5	23	<0.1	0.2	<0.1	104	0.15	0.026
ROS 164923	Soil	0.9	33.7	6.2	335	<0.1	6.3	14.4	926	5.96	3.4	0.8	<0.5	4.8	91	<0.1	0.2	0.1	133	0.12	0.043
ROS 159421	Soil	2.5	42.1	18.9	80	<0.1	18.6	9.3	374	3.09	7.8	2.4	3.6	28.6	15	0.1	1.7	0.5	40	0.22	0.027
ROS 159418	Soil	1.7	25.5	21.5	108	<0.1	13.6	11.6	989	3.68	4.5	1.3	2.0	22.0	14	0.3	0.8	0.3	47	0.31	0.075
ROS 164920	Soil	1.5	14.0	8.4	59	<0.1	10.8	6.4	266	2.94	6.9	1.1	4.2	7.3	22	<0.1	0.3	0.2	66	0.16	0.029
ROS 164921	Soil	1.0	12.2	6.3	47	<0.1	10.4	6.7	282	2.49	5.4	0.9	2.3	6.2	23	<0.1	0.2	0.1	55	0.17	0.021

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164958	Soil	9	23	1.55	236	0.233	<1	2.71	0.016	1.17	<0.1	0.02	3.2	0.4	<0.05	9	<0.5	<0.2
ROS 164956	Soil	9	14	0.37	98	0.070	<1	1.15	0.010	0.24	0.1	0.06	1.5	0.1	0.06	5	<0.5	<0.2
ROS 164955	Soil	10	12	0.83	147	0.142	<1	1.86	0.012	0.56	0.1	0.03	2.1	0.3	<0.05	7	<0.5	<0.2
ROS 164954	Soil	13	12	0.38	130	0.079	<1	1.15	0.016	0.23	<0.1	0.04	1.9	0.1	<0.05	4	<0.5	0.2
ROS 164960	Soil	32	28	0.82	242	0.114	<1	1.81	0.015	0.23	0.2	0.05	4.9	0.2	<0.05	7	<0.5	<0.2
ROS 164953	Soil	52	22	0.64	442	0.129	<1	2.40	0.014	0.33	<0.1	0.06	4.2	0.3	<0.05	8	0.6	<0.2
ROS 164952	Soil	34	18	0.71	408	0.144	<1	1.78	0.013	0.44	<0.1	0.02	3.8	0.3	<0.05	7	<0.5	<0.2
ROS 164949	Soil	19	26	0.55	410	0.132	1	1.54	0.018	0.16	0.1	0.02	2.9	0.1	<0.05	6	<0.5	0.2
ROS 164959	Soil	11	26	1.46	209	0.216	<1	2.57	0.018	0.93	0.1	0.02	4.9	0.4	<0.05	11	<0.5	0.5
ROS 164951	Soil	54	22	0.53	935	0.092	<1	1.94	0.016	0.21	0.1	0.10	5.0	0.2	<0.05	6	0.7	<0.2
ROS 164950	Soil	29	22	0.63	509	0.138	<1	1.57	0.021	0.29	0.3	0.01	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 164917	Soil	24	20	0.43	126	0.079	1	1.58	0.012	0.15	0.1	0.04	3.1	0.2	<0.05	6	0.7	<0.2
ROS 164957	Soil	4	11	0.15	56	0.034	<1	0.60	0.005	0.10	<0.1	0.04	1.0	<0.1	0.15	2	<0.5	<0.2
ROS 164915	Soil	16	15	0.32	103	0.051	1	1.15	0.009	0.08	0.1	0.05	1.8	<0.1	0.06	5	<0.5	<0.2
ROS 164918	Soil	23	17	0.44	154	0.071	1	1.49	0.012	0.18	<0.1	0.03	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 164914	Soil	14	14	0.25	89	0.050	<1	0.99	0.010	0.07	0.1	0.04	1.6	<0.1	0.06	4	0.6	<0.2
ROS 159426	Soil	10	28	0.41	237	0.045	<1	1.42	0.010	0.13	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159422	Soil	23	9	0.54	103	0.010	<1	1.39	0.005	0.09	<0.1	0.02	2.7	0.1	<0.05	4	<0.5	<0.2
ROS 159420	Soil	97	7	0.12	113	0.003	2	0.47	0.008	0.08	<0.1	0.14	1.9	<0.1	<0.05	2	<0.5	<0.2
ROS 159416	Soil	27	21	0.38	277	0.017	<1	0.88	0.008	0.21	<0.1	0.09	4.4	0.2	<0.05	2	1.4	<0.2
ROS 159425	Soil	10	57	0.67	205	0.050	1	1.98	0.010	0.11	0.1	0.02	4.1	<0.1	<0.05	7	<0.5	<0.2
ROS 159424	Soil	28	36	0.96	246	0.088	1	2.92	0.009	0.29	0.1	0.01	10.0	0.4	<0.05	10	0.6	<0.2
ROS 159419	Soil	24	23	0.25	130	0.029	<1	1.35	0.012	0.13	0.2	0.03	2.9	0.2	<0.05	5	<0.5	<0.2
ROS 159415	Soil	13	23	0.80	484	0.021	1	1.73	0.013	0.10	<0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 164922	Soil	8	13	1.24	167	0.190	<1	2.61	0.010	0.67	<0.1	0.01	2.0	0.3	<0.05	8	<0.5	<0.2
ROS 164923	Soil	15	10	1.56	332	0.207	<1	3.72	0.013	1.63	<0.1	<0.01	4.7	0.6	0.11	12	<0.5	<0.2
ROS 159421	Soil	87	28	0.27	182	0.012	<1	1.44	0.007	0.09	<0.1	0.10	5.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159418	Soil	48	31	0.39	216	0.042	<1	1.16	0.007	0.24	0.2	0.04	7.6	0.2	<0.05	6	0.6	<0.2
ROS 164920	Soil	16	23	0.49	102	0.100	<1	1.88	0.011	0.16	0.1	0.01	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 164921	Soil	10	19	0.58	138	0.100	<1	1.79	0.011	0.25	<0.1	0.01	2.7	0.2	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164919	Soil	1.8	15.9	7.6	55	<0.1	9.5	6.6	309	2.95	5.2	1.4	3.2	9.4	27	<0.1	0.2	0.1	63	0.13	0.034
ROS 159417	Soil	1.8	26.5	23.5	109	<0.1	13.9	12.3	1078	3.72	4.5	1.3	1.1	22.1	14	0.3	0.8	0.3	46	0.31	0.075
ROS 164977	Soil	1.3	21.0	8.9	71	<0.1	14.4	11.1	453	3.43	7.9	1.5	4.3	9.5	23	<0.1	0.5	0.2	65	0.13	0.024
ROS 159020	Soil	1.1	39.7	4.6	116	0.1	9.8	14.6	849	4.23	3.4	1.4	1.8	6.4	32	<0.1	0.1	0.2	109	0.26	0.042
ROS 159025	Soil	1.2	12.3	7.4	76	<0.1	9.1	11.3	805	3.89	4.4	1.6	0.7	17.7	17	0.1	0.2	<0.1	58	0.27	0.046
ROS 159015	Soil	0.9	15.7	8.0	64	0.1	6.6	4.4	239	2.03	2.2	1.2	0.9	4.1	31	0.1	0.1	0.1	38	0.19	0.034
ROS 164978	Soil	0.6	18.3	6.9	104	<0.1	10.5	11.3	514	3.81	4.8	0.6	1.4	3.9	35	<0.1	0.2	<0.1	86	0.30	0.027
ROS 164975	Soil	1.9	15.1	7.4	67	0.1	7.6	7.1	399	2.91	5.2	1.7	2.0	8.4	31	0.1	0.2	<0.1	61	0.19	0.044
ROS 164971	Soil	0.9	16.2	18.5	63	0.2	6.3	3.4	123	1.81	3.4	1.9	1.7	2.6	25	<0.1	0.1	0.2	30	0.19	0.051
ROS 164969	Soil	4.2	122.8	155.0	158	0.4	10.8	8.5	480	3.76	3.3	2.5	0.8	11.2	33	0.3	0.2	14.1	66	0.33	0.054
ROS 164967	Soil	1.2	31.6	10.7	95	<0.1	12.4	12.1	329	2.97	4.2	1.4	2.3	7.7	39	0.2	0.2	0.2	63	0.30	0.037
ROS 164973	Soil	1.4	14.9	7.2	51	0.2	7.7	5.0	184	2.41	5.4	1.8	1.3	5.0	31	0.1	0.2	0.1	55	0.16	0.048
ROS 164972	Soil	1.6	13.3	8.3	66	<0.1	7.1	5.8	283	2.48	4.2	1.5	1.4	7.5	33	<0.1	0.2	0.1	62	0.19	0.026
ROS 164968	Soil	1.1	30.8	8.8	120	<0.1	9.0	10.1	400	3.41	2.4	2.1	1.8	12.3	181	0.3	<0.1	0.1	59	0.49	0.058
ROS 164976	Soil	1.4	14.7	8.3	68	<0.1	7.5	5.8	363	2.58	3.9	1.4	3.7	7.4	42	0.1	0.2	0.1	53	0.26	0.040
ROS 164974	Soil	1.5	16.6	6.8	61	0.1	7.0	5.3	268	2.82	3.5	2.3	4.7	8.8	31	<0.1	0.2	0.1	67	0.15	0.048
ROS 164970	Soil	0.9	14.2	28.9	64	0.2	5.5	3.4	128	1.68	3.2	1.3	1.7	2.6	26	0.1	0.1	0.3	31	0.19	0.043
ROS 159423	Soil	2.4	23.6	15.7	69	<0.1	20.4	8.0	410	3.30	3.3	0.9	2.3	12.4	16	<0.1	0.3	0.3	124	0.32	0.082
ROS 165542	Soil	0.8	23.2	7.6	64	<0.1	17.4	9.1	372	2.18	4.3	1.9	2.7	3.4	43	0.3	0.4	0.1	47	0.60	0.070
ROS 165541	Soil	0.9	31.7	8.1	62	<0.1	22.5	9.1	365	2.35	7.2	1.3	3.9	4.6	67	0.2	0.9	0.2	53	1.23	0.061
ROS 165536	Soil	0.7	17.4	6.9	54	<0.1	13.3	8.1	399	1.84	4.0	0.4	<0.5	4.7	20	<0.1	0.3	0.1	40	0.24	0.034
ROS 165538	Soil	1.0	42.8	11.1	46	1.3	16.1	7.7	438	2.21	6.5	2.2	1.0	7.4	62	0.1	7.4	0.6	37	0.90	0.047
ROS 159010	Soil	1.1	18.7	18.1	95	<0.1	10.2	6.4	300	2.54	4.6	1.4	1.1	7.9	30	0.2	0.3	0.1	54	0.41	0.025
ROS 165537	Soil	0.7	29.2	8.3	50	<0.1	27.1	9.4	325	2.55	9.1	0.5	6.3	5.4	34	<0.1	1.0	0.2	56	0.45	0.027
ROS 165535	Soil	0.8	14.4	8.1	54	<0.1	15.9	8.0	403	2.12	5.6	0.5	0.7	4.3	21	0.1	0.4	0.1	50	0.25	0.039
ROS 173289	Soil	1.0	27.3	17.6	93	0.1	17.2	13.1	633	3.74	5.0	0.8	0.5	8.7	28	0.2	1.0	0.6	53	0.38	0.047
ROS 159014	Soil	1.3	16.5	8.0	52	<0.1	7.3	4.3	195	1.72	3.0	1.2	0.7	4.0	18	0.1	0.2	0.1	45	0.11	0.033
ROS 159018	Soil	1.4	32.6	6.8	81	0.3	9.0	6.1	282	2.66	4.3	1.2	1.2	3.6	31	0.1	0.2	0.1	74	0.18	0.037
ROS 159021	Soil	1.1	57.5	27.5	243	0.2	20.7	11.5	1290	2.45	6.2	2.0	1.9	3.0	27	1.1	0.3	0.3	47	0.96	0.096
ROS 159017	Soil	0.8	19.3	5.0	82	0.1	5.1	10.9	457	3.12	2.2	0.8	0.6	2.3	40	<0.1	0.1	0.1	86	0.23	0.041

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
ROS 164919	Soil	22	20	0.62	118	0.111	<1	1.93	0.014	0.28	<0.1	0.01	3.9	0.2	0.07	8	<0.5	<0.2
ROS 159417	Soil	48	31	0.40	222	0.046	<1	1.19	0.008	0.24	0.2	0.05	8.0	0.2	<0.05	6	<0.5	<0.2
ROS 164977	Soil	19	27	0.68	171	0.120	2	2.32	0.009	0.22	0.1	0.01	3.2	0.2	<0.05	7	0.7	<0.2
ROS 159020	Soil	14	24	1.54	209	0.193	<1	2.93	0.016	1.14	<0.1	0.01	6.8	0.4	<0.05	11	<0.5	<0.2
ROS 159025	Soil	24	17	1.20	183	0.169	<1	2.59	0.010	1.05	0.1	0.02	5.7	0.5	<0.05	10	<0.5	<0.2
ROS 159015	Soil	15	15	0.60	102	0.106	<1	1.62	0.014	0.39	<0.1	0.04	2.8	0.2	<0.05	8	<0.5	<0.2
ROS 164978	Soil	18	19	1.18	241	0.162	1	2.84	0.010	0.61	<0.1	0.01	3.0	0.4	<0.05	11	<0.5	<0.2
ROS 164975	Soil	24	17	0.61	88	0.111	<1	2.02	0.012	0.36	<0.1	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 164971	Soil	17	16	0.35	104	0.063	1	1.26	0.010	0.14	<0.1	0.04	2.1	0.1	<0.05	6	<0.5	<0.2
ROS 164969	Soil	25	14	0.96	267	0.169	<1	2.25	0.014	0.76	<0.1	0.02	4.1	0.5	<0.05	9	1.0	0.5
ROS 164967	Soil	21	19	0.72	262	0.152	<1	1.93	0.015	0.51	<0.1	<0.01	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 164973	Soil	21	16	0.49	119	0.094	<1	1.55	0.012	0.21	<0.1	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 164972	Soil	20	15	0.67	94	0.137	<1	1.78	0.012	0.27	<0.1	0.02	3.5	0.2	<0.05	9	<0.5	<0.2
ROS 164968	Soil	29	12	0.82	606	0.196	<1	2.63	0.025	1.05	<0.1	<0.01	3.8	0.6	<0.05	9	<0.5	<0.2
ROS 164976	Soil	19	15	0.62	94	0.116	<1	1.90	0.011	0.39	<0.1	0.02	2.8	0.2	<0.05	8	<0.5	<0.2
ROS 164974	Soil	31	16	0.74	124	0.134	<1	1.91	0.013	0.49	<0.1	0.03	5.2	0.3	0.09	10	<0.5	<0.2
ROS 164970	Soil	14	14	0.36	77	0.072	<1	1.16	0.010	0.15	<0.1	0.04	2.0	0.1	<0.05	5	<0.5	<0.2
ROS 159423	Soil	32	28	1.32	208	0.064	<1	2.07	0.008	0.41	<0.1	0.02	11.7	0.2	<0.05	9	<0.5	<0.2
ROS 165542	Soil	19	23	0.58	248	0.077	1	1.22	0.020	0.13	0.2	0.05	3.5	0.1	0.05	5	0.5	<0.2
ROS 165541	Soil	15	27	0.63	262	0.090	2	1.30	0.035	0.12	0.2	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 165536	Soil	9	21	0.36	276	0.062	<1	1.27	0.011	0.13	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 165538	Soil	28	20	0.36	372	0.027	2	1.10	0.018	0.09	0.2	0.34	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 159010	Soil	20	17	0.66	246	0.142	<1	1.67	0.022	0.37	<0.1	0.01	3.0	0.2	<0.05	6	<0.5	0.2
ROS 165537	Soil	20	30	0.54	226	0.085	2	1.18	0.025	0.09	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 165535	Soil	11	26	0.41	244	0.066	<1	1.42	0.014	0.10	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173289	Soil	22	42	1.17	179	0.107	<1	1.98	0.010	0.29	0.2	0.02	4.1	<0.1	<0.05	10	<0.5	<0.2
ROS 159014	Soil	15	15	0.36	72	0.084	1	0.99	0.012	0.24	<0.1	0.03	2.4	0.2	<0.05	6	<0.5	0.2
ROS 159018	Soil	12	20	0.84	106	0.137	<1	1.92	0.014	0.43	<0.1	0.04	3.0	0.2	<0.05	8	<0.5	<0.2
ROS 159021	Soil	16	21	0.80	187	0.063	1	1.42	0.019	0.04	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 159017	Soil	8	9	1.15	221	0.191	<1	2.19	0.014	0.85	<0.1	0.03	2.7	0.3	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159016	Soil	1.8	23.3	8.7	87	<0.1	5.9	6.7	452	2.93	4.5	1.2	2.7	6.1	37	<0.1	0.2	0.1	83	0.18	0.038
ROS 159022	Soil	2.3	41.4	10.3	83	<0.1	16.6	8.6	439	2.90	6.1	1.0	4.4	8.3	22	0.1	0.5	0.2	57	0.31	0.034
ROS 159024	Soil	3.3	34.8	8.9	91	<0.1	8.7	8.0	694	3.87	5.0	1.6	2.1	14.4	11	<0.1	0.3	0.1	62	0.14	0.032
ROS 159023	Soil	0.5	27.2	8.0	72	<0.1	16.7	10.4	649	3.34	6.2	1.3	2.4	9.8	29	<0.1	0.4	0.1	59	0.45	0.040
ROS 164913	Soil	1.1	12.2	23.4	65	0.1	9.4	4.8	172	2.25	4.2	1.4	2.6	4.8	26	0.2	0.2	0.2	49	0.17	0.045
ROS 164912	Soil	2.2	47.9	16.1	120	0.8	22.3	11.0	326	4.16	4.0	4.6	4.3	6.2	41	0.9	0.2	0.3	56	0.46	0.073
ROS 164916	Soil	1.1	14.4	14.6	59	0.2	7.5	3.9	167	1.89	4.0	1.4	1.9	3.3	25	<0.1	0.2	0.2	36	0.15	0.039
ROS 160059	Soil	1.4	26.9	7.1	75	0.2	23.6	11.1	375	2.99	4.7	1.2	2.3	5.2	24	0.1	0.2	0.1	63	0.30	0.058
ROS 160065	Soil	0.7	18.5	5.7	62	<0.1	15.6	9.2	221	2.65	4.7	0.7	2.5	2.7	21	0.3	0.2	0.1	58	0.37	0.060
ROS 160066	Soil	0.8	24.4	4.6	153	<0.1	11.2	18.6	800	4.99	0.9	0.9	1.0	2.4	45	0.6	<0.1	<0.1	130	0.80	0.105
ROS 160061	Soil	1.1	44.8	7.3	86	0.1	29.4	12.4	451	3.40	4.1	1.1	2.8	3.9	27	0.2	0.2	0.1	75	0.40	0.085
ROS 160058	Soil	3.2	85.4	9.5	77	0.2	16.4	7.9	247	2.86	3.3	0.9	2.6	3.4	20	0.1	0.2	0.2	69	0.20	0.039
ROS 160063	Soil	0.9	22.6	7.0	70	0.2	20.7	9.8	242	2.73	5.0	0.9	3.3	3.0	21	0.3	0.3	0.1	60	0.33	0.058
ROS 160064	Soil	0.9	18.5	6.7	55	0.1	17.6	8.5	197	2.65	5.3	0.8	3.1	2.9	19	0.2	0.3	0.1	54	0.29	0.054
ROS 160062	Soil	1.6	58.3	13.6	103	0.1	79.3	15.5	422	4.39	3.4	0.8	2.0	3.4	25	0.3	0.2	0.3	74	0.36	0.096
ROS 160057	Soil	2.7	74.0	7.4	65	0.2	14.7	5.4	156	2.04	2.8	1.1	3.3	2.0	20	0.2	0.1	0.2	41	0.19	0.034
ROS 160067	Soil	1.1	24.6	4.7	153	<0.1	13.9	18.2	802	5.05	1.2	0.9	1.5	2.3	44	0.5	<0.1	<0.1	130	0.81	0.122
ROS 163566	Soil	1.1	29.8	5.8	84	<0.1	10.1	12.8	367	4.14	1.8	1.3	1.3	3.3	30	0.2	0.2	<0.1	96	0.82	0.084
ROS 160060	Soil	1.2	42.2	6.5	88	<0.1	45.7	15.0	422	4.08	3.7	0.7	1.4	3.4	32	0.1	0.2	<0.1	90	0.45	0.105
ROS 151800	Soil	0.9	18.1	21.9	73	0.3	12.7	8.9	672	2.77	3.5	1.2	2.9	15.4	33	0.2	1.6	<0.1	36	1.49	0.052



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 159016	Soil	19	13	0.75	103	0.153	<1	1.70	0.013	0.54	0.1	0.01	2.9	0.3	<0.05	8	<0.5	0.2
ROS 159022	Soil	19	27	0.77	197	0.116	<1	1.86	0.015	0.13	0.2	0.02	4.1	0.1	<0.05	7	<0.5	<0.2
ROS 159024	Soil	19	17	0.95	160	0.172	1	2.20	0.008	0.55	<0.1	<0.01	5.4	0.3	<0.05	10	<0.5	<0.2
ROS 159023	Soil	18	21	0.79	234	0.147	<1	1.73	0.018	0.29	0.2	0.02	4.9	0.3	<0.05	7	<0.5	<0.2
ROS 164913	Soil	16	17	0.41	87	0.087	2	1.34	0.008	0.15	0.1	0.05	2.0	0.2	<0.05	6	0.5	<0.2
ROS 164912	Soil	46	20	0.51	352	0.095	2	1.67	0.011	0.26	<0.1	0.13	5.3	0.2	0.08	6	<0.5	<0.2
ROS 164916	Soil	15	17	0.42	88	0.075	<1	1.32	0.010	0.14	0.1	0.04	2.2	0.2	0.06	6	<0.5	<0.2
ROS 160059	Soil	23	31	0.62	269	0.120	2	1.62	0.013	0.16	0.1	0.02	3.2	0.1	<0.05	7	<0.5	<0.2
ROS 160065	Soil	10	25	0.52	202	0.081	1	1.40	0.017	0.08	0.3	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160066	Soil	11	23	1.48	675	0.176	<1	2.57	0.027	0.83	<0.1	<0.01	6.3	0.2	<0.05	9	<0.5	<0.2
ROS 160061	Soil	13	41	0.84	266	0.142	1	1.78	0.015	0.40	0.2	0.01	3.6	0.2	<0.05	6	<0.5	0.4
ROS 160058	Soil	14	24	0.58	148	0.125	<1	1.61	0.012	0.21	0.1	0.02	2.7	0.2	<0.05	7	0.6	<0.2
ROS 160063	Soil	11	27	0.55	219	0.084	<1	1.57	0.015	0.10	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	0.4
ROS 160064	Soil	11	23	0.52	201	0.076	<1	1.51	0.013	0.07	0.4	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 160062	Soil	11	122	0.81	224	0.116	2	1.69	0.015	0.37	0.2	0.03	2.9	0.3	<0.05	6	<0.5	<0.2
ROS 160057	Soil	12	21	0.41	176	0.086	2	1.31	0.011	0.12	0.1	0.05	2.4	0.2	<0.05	5	<0.5	<0.2
ROS 160067	Soil	12	24	1.47	666	0.198	<1	2.64	0.031	0.86	0.1	0.02	6.4	0.3	<0.05	10	<0.5	0.2
ROS 163566	Soil	12	32	0.98	430	0.132	<1	2.58	0.048	0.54	0.2	<0.01	5.4	0.2	<0.05	8	<0.5	<0.2
ROS 160060	Soil	12	54	1.46	537	0.205	2	2.38	0.019	0.57	0.1	<0.01	3.6	0.3	<0.05	9	<0.5	<0.2
ROS 151800	Soil	38	12	0.38	225	0.041	2	1.09	0.008	0.23	0.3	0.04	4.0	0.2	<0.05	4	0.8	<0.2



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 160051	Soil	1.6	37.3	13.2	111	0.3	25.6	10.4	250	2.81	4.6	1.6	6.9	3.9	31	0.4	0.3	0.2	62	0.21	0.053
REP ROS 160051	QC	1.3	35.8	13.2	105	0.3	25.6	10.2	257	2.81	4.7	1.6	8.4	4.0	31	0.4	0.3	0.2	60	0.23	0.050
ROS 165872	Soil	0.9	27.2	8.4	57	0.1	19.5	9.9	402	2.83	6.5	1.4	4.6	4.1	46	<0.1	0.6	0.1	59	0.84	0.060
REP ROS 165872	QC	0.8	27.6	7.8	56	0.1	20.5	9.8	401	2.81	7.0	1.4	2.3	4.0	48	<0.1	0.6	0.1	57	0.82	0.060
ROS 148049	Soil	1.2	20.9	10.1	46	<0.1	17.2	6.9	331	3.48	7.9	0.9	1.8	5.6	18	0.1	0.4	0.3	73	0.13	0.041
REP ROS 148049	QC	1.2	20.5	10.1	47	0.1	17.3	6.7	323	3.36	7.7	0.8	0.7	5.9	19	0.1	0.4	0.3	71	0.13	0.040
ROS 160207	Soil	1.3	14.9	12.4	60	<0.1	13.7	9.2	392	2.73	5.3	1.2	1.5	8.5	28	<0.1	0.3	<0.1	53	0.31	0.030
REP ROS 160207	QC	1.3	16.0	12.3	61	<0.1	14.7	9.2	404	2.80	5.5	1.3	1.3	8.5	29	<0.1	0.3	0.1	53	0.32	0.030
ROS 164273	Soil	2.0	21.0	6.5	42	0.2	10.8	6.2	140	2.05	3.7	0.5	1.0	1.4	17	<0.1	0.2	0.1	51	0.20	0.036
REP ROS 164273	QC	1.9	21.2	6.5	40	0.2	10.8	6.1	142	2.03	3.6	0.5	1.5	1.3	17	<0.1	0.2	0.1	48	0.20	0.037
ROS 163748	Soil	1.1	59.1	7.3	96	<0.1	50.4	23.3	351	4.61	1.4	1.3	<0.5	9.0	14	<0.1	0.1	0.3	90	0.55	0.202
REP ROS 163748	QC	1.2	57.5	7.0	97	<0.1	48.5	22.6	347	4.42	1.6	1.3	<0.5	8.8	13	<0.1	<0.1	0.2	91	0.53	0.203
ROS 163880	Soil	1.1	23.0	8.1	61	0.2	16.5	7.3	345	2.35	8.1	0.6	2.1	2.8	16	0.2	0.3	0.2	52	0.22	0.037
REP ROS 163880	QC	1.2	22.9	8.2	61	0.1	16.2	7.6	343	2.37	7.7	0.6	2.6	2.8	17	0.2	0.3	0.2	52	0.23	0.038
ROS 164276	Soil	0.4	29.6	3.7	35	<0.1	20.4	11.4	247	2.19	2.2	0.3	2.0	1.2	17	<0.1	0.1	<0.1	50	0.39	0.051
REP ROS 164276	QC	0.5	30.1	4.0	35	<0.1	19.8	11.3	247	2.16	2.1	0.3	1.0	1.2	16	<0.1	0.2	<0.1	50	0.40	0.050
ROS 147104	Soil	0.6	22.9	10.6	48	0.2	17.0	6.7	299	1.78	5.2	1.0	14.5	4.3	39	0.2	1.4	0.2	41	1.03	0.087
REP ROS 147104	QC	0.6	24.1	11.0	50	0.2	18.4	6.9	322	1.89	5.5	1.0	13.3	4.3	39	0.2	1.4	0.2	43	1.11	0.086
ROS 147180	Soil	0.5	25.5	8.9	46	0.1	27.5	8.5	316	2.48	10.3	0.6	4.4	3.4	28	<0.1	0.5	0.1	59	0.74	0.029
REP ROS 147180	QC	0.5	25.5	8.5	47	<0.1	25.2	8.7	322	2.55	10.1	0.6	2.7	3.4	28	<0.1	0.4	0.1	58	0.71	0.029
ROS 160526	Soil	1.7	33.5	19.1	123	<0.1	16.3	9.2	1201	3.27	4.5	3.9	1.6	28.4	25	0.1	0.4	0.5	37	0.39	0.064
REP ROS 160526	QC	1.6	32.4	18.6	122	<0.1	16.5	9.1	1208	3.26	4.3	3.8	2.1	28.9	23	0.2	0.4	0.5	36	0.38	0.066
ROS 105585	Soil	0.8	15.9	8.3	40	<0.1	14.9	6.0	354	1.94	5.6	0.7	2.2	5.0	20	0.1	0.4	0.2	51	0.20	0.025
REP ROS 105585	QC	0.8	15.4	7.4	40	<0.1	14.3	6.0	330	1.83	5.2	0.6	<0.5	4.6	20	<0.1	0.3	0.1	49	0.19	0.024
ROS 105593	Soil	1.0	28.2	10.5	70	<0.1	17.8	8.2	276	2.65	9.3	0.8	1.8	4.4	23	<0.1	0.5	0.1	57	0.28	0.021
REP ROS 105593	QC	1.0	28.8	10.0	64	<0.1	18.1	8.3	274	2.61	9.6	0.7	0.7	4.4	24	<0.1	0.5	0.1	55	0.27	0.023
ROS 173492	Soil	0.8	32.6	10.4	51	0.1	24.4	8.8	328	2.58	9.0	1.0	7.8	5.8	29	<0.1	0.9	0.1	60	0.38	0.053
REP ROS 173492	QC	0.7	33.2	10.8	54	0.1	24.6	9.1	331	2.66	9.8	1.0	1.7	5.8	32	<0.1	1.0	0.1	59	0.37	0.054

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Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 160051	Soil	17	42	0.70	266	0.111	<1	1.85	0.015	0.16	0.1	0.04	3.4	0.2	<0.05	6	<0.5	0.2
REP ROS 160051	QC	18	41	0.70	263	0.109	<1	1.88	0.013	0.16	0.1	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 165872	Soil	16	27	0.71	299	0.063	<1	1.75	0.023	0.09	0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
REP ROS 165872	QC	16	27	0.72	289	0.067	<1	1.77	0.024	0.09	0.2	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 148049	Soil	16	37	0.67	181	0.166	<1	2.04	0.012	0.26	0.1	0.02	3.1	0.2	<0.05	9	0.6	0.2
REP ROS 148049	QC	15	37	0.66	180	0.160	<1	1.93	0.011	0.27	0.1	0.01	2.9	0.2	<0.05	9	0.6	0.2
ROS 160207	Soil	28	23	0.61	161	0.129	<1	1.92	0.019	0.31	<0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
REP ROS 160207	QC	28	22	0.63	163	0.133	<1	1.99	0.019	0.31	<0.1	<0.01	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 164273	Soil	8	22	0.46	134	0.087	2	1.26	0.016	0.07	0.3	0.02	2.6	<0.1	<0.05	6	0.6	<0.2
REP ROS 164273	QC	8	21	0.44	130	0.084	1	1.23	0.016	0.07	0.3	0.02	2.5	<0.1	<0.05	5	0.5	<0.2
ROS 163748	Soil	39	64	1.50	331	0.207	<1	2.78	0.023	1.13	<0.1	<0.01	6.9	0.6	<0.05	10	<0.5	<0.2
REP ROS 163748	QC	39	63	1.45	334	0.213	<1	2.79	0.023	1.07	<0.1	<0.01	6.6	0.6	<0.05	11	0.5	<0.2
ROS 163880	Soil	12	25	0.45	172	0.066	<1	1.57	0.010	0.08	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 163880	QC	12	24	0.46	173	0.067	<1	1.58	0.013	0.09	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164276	Soil	7	39	0.80	171	0.093	<1	1.64	0.020	0.25	0.5	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 164276	QC	7	40	0.79	172	0.094	<1	1.59	0.022	0.25	0.6	0.02	2.6	0.1	<0.05	4	<0.5	<0.2
ROS 147104	Soil	15	30	0.47	365	0.058	2	1.04	0.025	0.08	0.4	0.09	2.7	<0.1	<0.05	4	<0.5	<0.2
REP ROS 147104	QC	15	30	0.52	377	0.058	3	1.12	0.022	0.09	0.4	0.10	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 147180	Soil	15	31	0.55	276	0.069	2	1.69	0.029	0.07	0.1	0.06	4.1	<0.1	<0.05	5	<0.5	<0.2
REP ROS 147180	QC	15	31	0.53	273	0.065	1	1.68	0.028	0.07	0.2	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 160526	Soil	34	17	0.59	263	0.138	<1	1.74	0.015	0.57	0.2	0.04	4.8	0.6	<0.05	8	<0.5	<0.2
REP ROS 160526	QC	34	19	0.56	252	0.134	<1	1.67	0.014	0.55	0.1	0.05	4.7	0.6	<0.05	8	<0.5	<0.2
ROS 105585	Soil	19	24	0.35	174	0.079	<1	1.22	0.013	0.07	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
REP ROS 105585	QC	18	23	0.33	166	0.075	<1	1.24	0.012	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	0.2
ROS 105593	Soil	12	28	0.63	187	0.107	<1	1.62	0.012	0.14	0.2	0.01	2.6	<0.1	<0.05	6	0.6	<0.2
REP ROS 105593	QC	12	28	0.62	189	0.108	<1	1.62	0.010	0.14	0.2	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
ROS 173492	Soil	18	33	0.48	212	0.079	2	1.31	0.020	0.09	0.2	0.08	4.3	<0.1	<0.05	4	<0.5	<0.2
REP ROS 173492	QC	19	35	0.49	224	0.080	1	1.29	0.021	0.10	0.2	0.07	4.2	<0.1	<0.05	4	0.6	<0.2

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Project: ROS
 Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000591.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 159421	Soil	2.5	42.1	18.9	80	<0.1	18.6	9.3	374	3.09	7.8	2.4	3.6	28.6	15	0.1	1.7	0.5	40	0.22	0.027
REP ROS 159421	QC	2.6	40.8	18.6	83	<0.1	18.8	9.3	371	2.98	7.4	2.4	4.7	27.7	16	<0.1	1.7	0.4	40	0.21	0.026
ROS 164919	Soil	1.8	15.9	7.6	55	<0.1	9.5	6.6	309	2.95	5.2	1.4	3.2	9.4	27	<0.1	0.2	0.1	63	0.13	0.034
REP ROS 164919	QC	1.8	16.2	7.9	57	<0.1	9.9	6.3	327	2.99	5.5	1.5	1.6	9.9	28	<0.1	0.2	0.1	65	0.15	0.036
ROS 159017	Soil	0.8	19.3	5.0	82	0.1	5.1	10.9	457	3.12	2.2	0.8	0.6	2.3	40	<0.1	0.1	0.1	86	0.23	0.041
REP ROS 159017	QC	0.9	19.4	5.0	83	0.1	5.3	10.9	461	3.18	2.3	0.8	0.8	2.3	38	<0.1	0.1	<0.1	84	0.22	0.042
ROS 160067	Soil	1.1	24.6	4.7	153	<0.1	13.9	18.2	802	5.05	1.2	0.9	1.5	2.3	44	0.5	<0.1	<0.1	130	0.81	0.122
REP ROS 160067	QC	0.8	24.4	4.6	147	<0.1	12.8	17.8	778	5.00	1.1	0.8	1.7	2.1	42	0.5	<0.1	<0.1	128	0.80	0.107
Reference Materials																					
STD DS7	Standard	19.3	114.8	68.7	402	1.0	54.4	9.3	613	2.33	51.1	5.0	75.4	4.8	77	6.0	6.2	4.7	82	0.93	0.079
STD DS7	Standard	19.0	107.8	66.0	376	0.9	51.7	8.5	599	2.23	47.2	4.6	71.8	4.7	75	6.0	5.7	4.6	77	0.88	0.073
STD DS7	Standard	19.9	102.1	55.1	365	1.0	50.2	8.4	592	2.24	51.1	4.1	89.3	3.6	59	6.1	5.0	4.2	78	0.88	0.075
STD DS7	Standard	19.4	101.5	59.3	358	0.9	50.7	8.5	603	2.29	47.7	4.3	65.3	4.5	74	5.7	5.2	4.0	82	0.94	0.072
STD DS7	Standard	19.3	96.6	59.6	367	0.9	52.4	9.0	610	2.29	49.9	4.4	77.7	4.2	67	5.6	4.8	4.2	84	0.95	0.077
STD DS7	Standard	20.2	104.9	60.3	372	0.9	51.4	8.6	598	2.32	50.4	4.3	72.6	4.2	74	6.1	6.0	4.3	78	0.89	0.074
STD DS7	Standard	19.6	100.7	62.6	399	0.9	52.3	8.9	644	2.36	51.7	4.5	69.5	4.0	77	5.8	5.4	4.3	81	0.93	0.074
STD DS7	Standard	20.8	112.0	75.1	412	0.9	59.0	9.5	621	2.42	51.6	5.1	67.7	4.7	74	6.6	6.1	4.8	89	0.93	0.075
STD DS7	Standard	19.1	107.7	64.3	391	0.9	51.2	8.7	603	2.27	49.6	4.7	63.3	3.9	70	5.4	5.7	4.3	79	0.87	0.072
STD DS7	Standard	19.5	105.3	65.1	373	0.9	54.3	8.5	593	2.19	46.5	4.7	60.1	4.5	66	5.8	5.5	4.1	80	0.88	0.068
STD DS7	Standard	18.6	102.1	70.4	376	1.0	52.2	8.4	600	2.24	48.2	4.9	73.6	4.8	74	5.9	5.8	4.8	81	0.92	0.071
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: ROS
Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000591.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 159421	Soil	87	28	0.27	182	0.012	<1	1.44	0.007	0.09	<0.1	0.10	5.2	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159421	QC	89	27	0.25	181	0.011	<1	1.41	0.007	0.08	0.1	0.08	5.1	<0.1	<0.05	4	0.5	<0.2
ROS 164919	Soil	22	20	0.62	118	0.111	<1	1.93	0.014	0.28	<0.1	0.01	3.9	0.2	0.07	8	<0.5	<0.2
REP ROS 164919	QC	23	21	0.62	121	0.118	<1	1.94	0.017	0.27	<0.1	0.01	4.0	0.2	0.09	8	<0.5	<0.2
ROS 159017	Soil	8	9	1.15	221	0.191	<1	2.19	0.014	0.85	<0.1	0.03	2.7	0.3	<0.05	7	<0.5	<0.2
REP ROS 159017	QC	8	9	1.14	223	0.189	<1	2.15	0.014	0.85	<0.1	0.03	2.6	0.3	<0.05	7	<0.5	<0.2
ROS 160067	Soil	12	24	1.47	666	0.198	<1	2.64	0.031	0.86	0.1	0.02	6.4	0.3	<0.05	10	<0.5	0.2
REP ROS 160067	QC	12	24	1.43	671	0.173	<1	2.50	0.029	0.87	<0.1	<0.01	5.8	0.3	<0.05	9	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	192	1.07	398	0.126	40	1.06	0.100	0.48	3.7	0.21	2.6	4.1	0.12	5	3.1	1.1
STD DS7	Standard	14	186	1.01	360	0.122	36	0.90	0.095	0.44	3.5	0.20	2.5	3.8	0.17	5	2.9	0.8
STD DS7	Standard	12	180	1.00	381	0.098	39	0.96	0.095	0.47	3.6	0.20	2.4	3.9	0.19	4	3.7	1.4
STD DS7	Standard	13	193	0.97	370	0.118	34	1.06	0.103	0.49	3.3	0.22	2.5	3.8	0.18	5	2.5	1.5
STD DS7	Standard	12	192	1.00	366	0.117	34	1.04	0.099	0.51	3.2	0.19	2.5	3.9	0.19	5	3.5	1.7
STD DS7	Standard	12	179	1.00	389	0.123	39	1.00	0.098	0.48	3.4	0.22	2.6	3.9	0.16	5	3.3	1.4
STD DS7	Standard	13	190	1.02	398	0.125	36	1.02	0.104	0.48	3.5	0.21	2.5	4.1	0.14	5	3.3	1.3
STD DS7	Standard	12	200	1.07	401	0.125	43	1.04	0.105	0.48	3.6	0.23	2.5	4.0	0.19	5	2.5	2.2
STD DS7	Standard	12	181	1.01	383	0.121	38	0.99	0.092	0.44	3.6	0.21	2.3	4.2	0.20	4	2.8	1.2
STD DS7	Standard	12	188	0.92	375	0.120	36	0.93	0.071	0.43	3.8	0.19	2.2	4.0	0.19	5	3.1	0.8
STD DS7	Standard	13	190	0.97	389	0.121	37	0.96	0.086	0.46	3.7	0.22	2.4	4.2	0.18	5	3.6	0.7
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: ROS

Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000591.1

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



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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	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Val D'Or QC J9P 1S5 Canada

Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 06, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000592.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

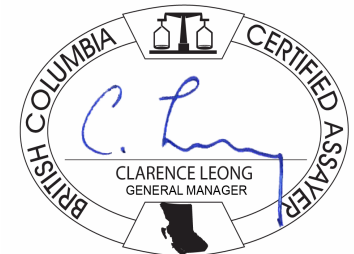
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 06, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000592.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160052	Soil	1.5	37.8	8.9	100	0.4	21.9	7.7	186	2.43	3.4	1.5	2.7	2.7	35	0.4	0.2	0.1	56	0.19	0.045
ROS 160050	Soil	1.5	31.9	8.5	103	0.2	28.7	8.7	209	2.69	4.6	1.2	5.3	3.5	23	0.3	0.2	0.1	64	0.19	0.042
ROS 160049	Soil	2.8	45.8	12.2	109	0.3	36.4	7.4	177	2.96	3.6	1.7	2.3	3.6	31	0.4	0.2	0.2	65	0.12	0.049
ROS 160047	Soil	2.6	33.1	13.1	78	0.2	18.8	8.4	328	3.82	6.7	1.3	1.2	3.8	34	0.3	0.3	0.2	80	0.12	0.074
ROS 159111	Soil	0.5	13.9	7.3	62	0.1	10.0	4.0	140	2.20	4.9	1.2	2.7	2.0	22	0.2	0.2	0.3	39	0.16	0.048
ROS 160046	Soil	2.9	49.4	9.1	126	0.2	12.0	5.8	232	3.87	2.0	2.0	1.7	12.2	45	0.3	0.1	0.3	67	0.15	0.066
ROS 160048	Soil	3.1	42.7	18.8	136	0.4	42.4	10.2	257	2.93	3.7	2.1	1.8	3.9	58	0.3	0.1	0.2	64	0.18	0.076
ROS 160044	Soil	0.5	25.3	3.4	63	<0.1	8.5	15.6	405	3.81	3.4	0.5	1.5	1.4	13	<0.1	0.2	<0.1	98	0.40	0.086
ROS 159105	Soil	0.3	8.4	4.7	30	<0.1	8.7	3.0	85	1.19	1.7	0.9	2.5	1.4	14	<0.1	<0.1	0.1	16	0.12	0.034
ROS 159107	Soil	0.7	21.1	72.1	119	0.4	14.0	5.2	191	1.87	3.1	1.1	0.7	2.6	25	0.2	0.1	0.6	32	0.19	0.053
ROS 159109	Soil	0.5	9.9	7.2	51	<0.1	11.3	3.9	123	1.55	3.1	0.6	3.8	1.6	18	0.1	0.2	0.1	31	0.14	0.033
ROS 159110	Soil	0.6	13.8	9.5	73	0.2	11.0	4.3	148	1.77	2.8	0.9	2.7	2.3	23	0.2	0.2	0.1	37	0.17	0.039
ROS 159108	Soil	0.5	10.5	10.7	53	<0.1	11.5	4.1	145	1.37	2.1	0.5	5.5	2.3	18	<0.1	0.1	0.1	27	0.18	0.022
ROS 159106	Soil	0.6	14.8	6.8	53	0.1	12.2	5.2	136	1.74	3.2	0.9	2.1	1.7	17	0.1	0.1	0.2	31	0.17	0.042
ROS 159102	Soil	0.5	17.3	5.3	55	0.2	14.5	5.2	106	1.80	1.6	1.2	2.0	1.7	22	0.1	<0.1	0.1	29	0.16	0.049
ROS 159104	Soil	0.5	12.2	6.0	45	0.1	10.2	3.5	88	1.52	2.0	1.0	2.2	1.2	17	0.2	<0.1	0.2	22	0.13	0.045
ROS 147305	Soil	0.8	23.6	5.4	97	0.2	10.4	8.3	579	3.10	24.4	0.9	11.7	8.3	13	<0.1	0.9	<0.1	45	0.37	0.037
ROS 159100	Soil	0.7	36.0	5.4	57	0.3	18.3	7.7	134	2.31	2.3	1.2	2.6	2.1	21	<0.1	<0.1	0.2	43	0.17	0.048
ROS 159101	Soil	0.4	24.5	6.2	46	0.2	13.5	3.7	89	1.65	2.0	1.0	3.0	1.4	18	0.1	0.1	0.3	25	0.15	0.042
ROS 159103	Soil	0.5	20.8	5.7	62	0.2	16.1	6.7	113	2.18	2.5	1.7	1.8	2.1	23	0.2	0.1	0.2	30	0.16	0.062
ROS 147094	Soil	1.4	15.1	16.4	56	1.9	17.0	6.3	286	2.42	5.5	0.9	5.4	9.6	20	0.1	3.0	0.1	38	0.36	0.027
ROS 147177	Soil	0.6	29.6	7.9	54	0.1	23.0	10.0	379	2.36	7.5	0.9	6.1	5.0	35	0.1	0.5	0.1	48	0.53	0.060
ROS 147095	Soil	1.0	29.8	15.3	62	1.3	19.0	8.5	383	2.49	6.7	1.2	9.9	14.9	19	<0.1	3.4	0.1	43	0.33	0.021
ROS 147173	Soil	0.8	18.8	8.2	60	<0.1	10.8	6.1	238	2.19	4.7	1.3	13.3	6.0	35	<0.1	0.7	0.2	38	0.55	0.052
ROS 147175	Soil	1.7	46.8	11.6	80	0.2	21.3	10.0	260	2.80	5.8	2.5	13.0	8.3	19	0.2	1.8	0.3	41	0.31	0.054
ROS 147176	Soil	0.3	19.7	8.7	56	0.2	15.1	6.9	369	1.75	3.6	2.0	7.4	4.0	43	0.1	0.7	0.2	36	1.24	0.057
ROS 147172	Soil	1.1	21.0	10.7	63	<0.1	17.6	8.6	405	2.56	7.5	1.2	4.7	7.6	23	<0.1	0.7	0.2	48	0.39	0.040
ROS 147170	Soil	0.8	15.7	4.7	95	<0.1	11.4	10.1	777	3.27	3.7	1.2	2.9	13.4	27	0.1	0.8	<0.1	46	0.60	0.077
ROS 147174	Soil	0.8	25.4	8.3	53	0.1	19.9	8.8	385	2.25	7.3	1.9	3.1	3.9	44	0.1	0.6	0.2	48	0.73	0.058
ROS 147171	Soil	0.8	18.6	8.0	60	<0.1	18.0	8.6	353	2.58	8.0	1.2	5.5	6.0	26	<0.1	0.6	0.1	53	0.44	0.052

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160052	Soil	16	38	0.67	291	0.085	<1	1.62	0.013	0.20	0.1	0.02	2.9	0.2	<0.05	6	0.6	0.3
ROS 160050	Soil	13	44	0.74	249	0.097	<1	1.84	0.010	0.15	<0.1	0.01	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 160049	Soil	18	40	0.67	246	0.091	<1	1.83	0.012	0.24	<0.1	0.02	3.0	0.2	<0.05	7	1.4	<0.2
ROS 160047	Soil	20	53	0.85	344	0.098	<1	2.00	0.040	0.34	0.1	0.02	3.8	0.2	0.20	7	1.3	<0.2
ROS 159111	Soil	12	19	0.38	126	0.063	<1	1.36	0.010	0.06	0.2	0.04	2.0	<0.1	<0.05	5	0.6	<0.2
ROS 160046	Soil	40	41	1.14	387	0.131	<1	2.14	0.052	0.82	<0.1	<0.01	3.6	0.6	0.43	6	1.8	<0.2
ROS 160048	Soil	21	75	0.94	366	0.108	<1	2.27	0.018	0.38	<0.1	0.02	3.3	0.3	<0.05	7	1.5	<0.2
ROS 160044	Soil	8	12	0.79	314	0.133	<1	1.79	0.027	0.39	<0.1	<0.01	5.6	0.1	<0.05	7	<0.5	<0.2
ROS 159105	Soil	14	18	0.24	142	0.069	<1	0.78	0.008	0.14	0.1	0.03	1.3	0.2	<0.05	5	<0.5	<0.2
ROS 159107	Soil	14	27	0.57	125	0.090	<1	1.35	0.011	0.19	0.2	0.05	2.1	0.2	<0.05	5	<0.5	<0.2
ROS 159109	Soil	10	21	0.39	92	0.078	<1	1.03	0.010	0.11	0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159110	Soil	13	20	0.45	118	0.089	<1	1.33	0.010	0.10	0.1	0.03	1.8	0.1	<0.05	6	<0.5	<0.2
ROS 159108	Soil	10	21	0.45	73	0.089	1	1.00	0.010	0.14	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
ROS 159106	Soil	12	23	0.47	106	0.084	<1	1.11	0.010	0.10	0.1	0.03	1.7	0.1	<0.05	5	<0.5	0.2
ROS 159102	Soil	14	25	0.47	181	0.079	<1	1.31	0.014	0.21	<0.1	0.04	2.2	0.2	<0.05	5	<0.5	<0.2
ROS 159104	Soil	13	21	0.29	178	0.063	<1	1.05	0.009	0.11	<0.1	0.03	1.5	0.1	<0.05	4	<0.5	<0.2
ROS 147305	Soil	33	43	0.79	281	0.077	<1	1.58	0.009	0.38	0.5	0.06	5.2	0.3	<0.05	7	<0.5	<0.2
ROS 159100	Soil	15	27	0.69	150	0.090	<1	1.68	0.014	0.26	<0.1	0.03	2.6	0.2	<0.05	7	<0.5	<0.2
ROS 159101	Soil	13	23	0.39	127	0.065	<1	1.27	0.011	0.11	<0.1	0.04	2.0	0.1	<0.05	5	<0.5	<0.2
ROS 159103	Soil	18	25	0.49	228	0.081	<1	1.45	0.013	0.20	<0.1	0.04	2.3	0.2	0.05	5	<0.5	<0.2
ROS 147094	Soil	21	28	0.34	532	0.026	1	1.30	0.012	0.12	0.1	0.21	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 147177	Soil	19	27	0.52	310	0.070	1	1.47	0.021	0.06	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 147095	Soil	44	28	0.39	371	0.034	1	1.31	0.015	0.08	0.2	0.23	4.4	<0.1	<0.05	4	0.7	<0.2
ROS 147173	Soil	18	19	0.40	155	0.040	<1	1.19	0.017	0.08	0.3	0.04	3.4	<0.1	<0.05	4	<0.5	0.3
ROS 147175	Soil	24	19	0.25	145	0.027	<1	0.98	0.009	0.10	0.6	0.05	5.4	<0.1	<0.05	3	0.6	<0.2
ROS 147176	Soil	18	22	0.43	309	0.046	3	1.07	0.017	0.07	0.2	0.09	2.9	<0.1	0.09	4	0.9	<0.2
ROS 147172	Soil	20	23	0.42	198	0.048	1	1.32	0.012	0.06	0.2	0.03	3.9	<0.1	<0.05	5	0.7	<0.2
ROS 147170	Soil	27	11	0.91	171	0.030	<1	1.76	0.013	0.06	0.1	0.03	4.0	<0.1	<0.05	9	0.5	<0.2
ROS 147174	Soil	16	25	0.48	284	0.055	2	1.41	0.016	0.05	0.2	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 147171	Soil	16	26	0.51	212	0.057	2	1.38	0.017	0.06	0.3	0.04	3.9	<0.1	<0.05	5	0.7	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 147169	Soil	0.9	16.2	9.9	93	<0.1	13.7	9.2	734	3.10	6.8	1.6	3.5	11.4	25	<0.1	0.7	0.1	44	0.47	0.055
ROS 147300	Soil	3.9	29.3	16.0	84	0.9	16.1	11.6	550	2.75	7.5	1.5	68.2	10.8	14	0.2	5.6	0.2	26	0.35	0.061
ROS 160457	Soil	1.0	21.6	7.3	67	0.2	17.5	8.0	209	2.38	5.7	0.9	2.0	2.1	20	0.3	0.2	0.1	57	0.29	0.059
ROS 160456	Soil	2.1	21.6	5.8	105	<0.1	18.4	20.2	767	4.34	3.7	1.2	2.1	7.5	26	0.3	0.1	<0.1	83	0.50	0.077
ROS 160451	Soil	3.0	197.9	8.9	126	0.4	35.6	16.3	435	3.55	3.6	1.7	5.9	7.1	23	0.3	0.1	0.2	70	0.25	0.058
ROS 160455	Soil	2.3	104.8	7.7	91	0.3	21.6	8.7	205	2.58	3.6	1.4	4.4	2.9	20	0.2	0.1	0.2	52	0.19	0.042
ROS 160449	Soil	1.3	203.7	10.1	84	0.5	17.1	8.2	234	3.18	3.5	1.5	5.3	1.5	21	0.3	0.2	0.2	80	0.22	0.051
ROS 160447	Soil	0.9	26.4	5.2	86	0.2	15.0	11.1	342	3.26	3.0	0.7	3.0	1.6	19	0.2	0.1	0.1	79	0.35	0.077
ROS 160445	Soil	1.4	33.5	7.0	134	0.1	30.5	11.5	346	3.70	3.5	0.7	1.0	2.4	16	0.2	0.2	0.1	89	0.29	0.063
ROS 160454	Soil	3.0	107.3	9.0	106	0.3	23.4	12.1	336	3.01	4.1	1.3	4.6	4.6	21	0.2	0.2	0.2	65	0.20	0.047
ROS 160452	Soil	2.3	122.7	8.1	96	0.4	23.1	9.8	250	2.82	3.7	1.2	2.9	3.6	21	0.3	0.2	0.2	66	0.19	0.035
ROS 160450	Soil	3.4	227.1	9.5	129	0.4	36.7	10.6	336	3.40	2.7	1.3	4.4	6.7	24	0.2	0.1	0.3	60	0.21	0.050
ROS 160446	Soil	1.2	23.3	8.8	93	0.1	18.9	8.6	219	2.88	5.4	0.9	2.2	3.4	24	0.2	0.2	0.2	63	0.19	0.035
ROS 160448	Soil	0.9	41.9	5.9	110	0.2	22.2	12.2	345	3.99	3.3	1.0	2.8	2.0	23	0.3	0.1	0.1	93	0.39	0.099
ROS 163687	Soil	1.2	23.5	8.1	69	<0.1	18.8	11.6	303	2.97	5.8	0.9	2.3	1.3	21	0.2	0.2	0.1	74	0.21	0.048
ROS 163688	Soil	1.3	19.2	8.2	51	0.2	11.0	7.2	249	2.74	5.2	0.9	3.7	2.6	15	<0.1	0.3	0.2	73	0.19	0.033
ROS 163685	Soil	3.8	64.0	15.1	154	0.3	26.3	8.1	345	4.30	3.5	4.7	1.4	8.7	67	0.5	0.2	0.3	98	0.26	0.072
ROS 163686	Soil	2.7	19.5	17.0	48	<0.1	10.7	3.7	112	2.74	7.4	1.2	1.1	1.0	21	0.2	0.3	0.3	70	0.10	0.059
ROS 95416	Soil	1.0	16.3	9.6	89	<0.1	17.3	10.4	810	2.63	5.6	0.5	1.1	5.0	34	0.1	0.5	0.1	59	0.35	0.036
ROS 95412	Soil	0.9	9.4	17.6	71	0.1	9.3	8.4	322	2.59	4.7	0.3	<0.5	2.7	30	0.2	0.3	0.5	63	0.13	0.036
ROS 95417	Soil	0.7	9.7	7.2	49	<0.1	17.5	9.6	437	2.42	4.8	0.4	2.3	2.6	21	<0.1	0.4	0.1	63	0.24	0.021
ROS 95409	Soil	1.0	14.7	8.0	63	0.1	12.4	8.6	409	3.17	5.9	0.6	1.3	3.5	21	<0.1	0.4	0.1	72	0.28	0.022
ROS 95408	Soil	0.5	13.7	7.8	124	<0.1	17.7	13.4	509	4.05	5.0	0.3	1.0	1.9	53	<0.1	0.6	0.1	91	0.51	0.082
ROS 95414	Soil	0.6	12.7	8.0	135	<0.1	12.8	12.4	653	4.03	6.2	0.8	<0.5	3.4	42	0.2	0.5	0.1	94	0.32	0.037
ROS 95407	Soil	0.7	15.8	7.2	72	<0.1	16.2	8.8	277	2.91	7.8	0.5	2.0	2.8	37	<0.1	0.4	0.1	72	0.43	0.037
ROS 95411	Soil	1.2	17.6	9.2	51	0.1	21.0	10.4	247	3.24	11.9	0.5	1.7	3.1	17	<0.1	0.8	0.2	69	0.17	0.034
ROS 95410	Soil	0.8	20.9	8.0	59	<0.1	22.0	10.9	298	3.57	8.5	0.6	3.5	4.5	16	<0.1	0.6	0.1	65	0.18	0.032
ROS 95406	Soil	0.9	14.1	7.9	54	<0.1	16.9	7.8	184	2.71	7.4	0.4	3.1	2.7	25	<0.1	0.4	0.2	69	0.29	0.026
ROS 95405	Soil	1.2	21.0	7.9	71	<0.1	18.0	9.3	287	2.95	8.8	0.5	3.6	3.2	35	<0.1	0.4	0.1	74	0.38	0.033
ROS 95310	Soil	0.7	9.7	7.6	47	<0.1	9.4	5.5	213	1.91	5.1	0.4	1.3	2.3	22	<0.1	0.3	0.1	58	0.21	0.022

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.2	0.2		
ROS 147169	Soil			24	17	0.65	272	0.068	2	1.64	0.013	0.32	0.3	0.03	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 147300	Soil			18	17	0.15	255	0.008	4	0.79	0.007	0.15	0.6	0.21	3.2	<0.1	<0.05	2	<0.5	<0.2
ROS 160457	Soil			13	26	0.54	197	0.074	2	1.50	0.014	0.09	0.2	0.05	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 160456	Soil			19	22	1.15	191	0.144	<1	2.41	0.014	0.59	0.2	0.02	2.6	0.3	<0.05	8	0.6	<0.2
ROS 160451	Soil			31	34	0.91	261	0.144	<1	2.12	0.015	0.52	<0.1	0.02	3.7	0.4	<0.05	7	0.6	<0.2
ROS 160455	Soil			22	25	0.63	175	0.098	1	1.67	0.011	0.19	<0.1	0.04	2.8	0.2	<0.05	7	0.6	<0.2
ROS 160449	Soil			11	21	0.63	283	0.104	<1	1.81	0.018	0.22	<0.1	0.04	4.3	0.1	0.06	8	0.6	<0.2
ROS 160447	Soil			9	25	0.77	257	0.124	1	1.79	0.030	0.31	0.1	0.02	4.1	0.2	<0.05	7	0.5	<0.2
ROS 160445	Soil			13	24	0.87	226	0.129	<1	2.01	0.018	0.42	<0.1	0.02	4.4	0.2	<0.05	9	<0.5	<0.2
ROS 160454	Soil			21	28	0.72	186	0.114	<1	1.83	0.012	0.25	<0.1	0.03	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 160452	Soil			18	27	0.67	178	0.114	<1	1.75	0.013	0.22	<0.1	0.03	2.9	0.2	<0.05	7	0.6	<0.2
ROS 160450	Soil			31	31	0.84	209	0.150	<1	1.96	0.013	0.51	<0.1	0.02	2.9	0.4	<0.05	8	0.8	<0.2
ROS 160446	Soil			14	31	0.66	198	0.099	1	1.91	0.011	0.13	<0.1	0.03	3.1	0.2	<0.05	6	0.6	<0.2
ROS 160448	Soil			11	22	0.91	397	0.144	1	2.05	0.027	0.45	0.1	0.03	5.9	0.3	<0.05	8	<0.5	<0.2
ROS 163687	Soil			8	43	0.75	282	0.097	1	2.14	0.015	0.20	0.1	0.02	2.6	0.1	<0.05	7	0.6	<0.2
ROS 163688	Soil			12	19	0.42	210	0.097	2	1.76	0.014	0.09	0.1	0.02	2.9	0.1	<0.05	8	0.5	<0.2
ROS 163685	Soil			26	79	1.35	348	0.131	1	2.41	0.061	0.62	<0.1	0.01	5.6	0.5	0.50	8	2.1	<0.2
ROS 163686	Soil			14	25	0.37	143	0.051	<1	1.41	0.010	0.09	0.1	0.03	1.5	0.2	0.06	7	0.7	<0.2
ROS 95416	Soil			12	26	0.53	231	0.062	2	1.84	0.009	0.07	<0.1	0.02	2.4	0.1	<0.05	7	<0.5	<0.2
ROS 95412	Soil			7	17	0.49	159	0.083	<1	1.42	0.009	0.08	0.1	0.01	1.9	0.1	<0.05	7	<0.5	0.2
ROS 95417	Soil			9	30	0.47	227	0.058	<1	1.69	0.010	0.04	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 95409	Soil			11	26	0.60	182	0.084	1	2.01	0.008	0.07	0.1	0.02	2.9	0.1	<0.05	8	<0.5	<0.2
ROS 95408	Soil			6	27	1.33	173	0.226	<1	2.61	0.010	0.16	0.1	0.01	1.8	0.1	<0.05	12	<0.5	<0.2
ROS 95414	Soil			7	27	1.29	166	0.160	<1	2.96	0.013	0.22	0.1	0.01	3.6	0.2	<0.05	12	<0.5	<0.2
ROS 95407	Soil			9	29	0.85	178	0.095	1	2.21	0.012	0.05	0.1	0.01	2.8	0.1	<0.05	8	<0.5	<0.2
ROS 95411	Soil			9	34	0.51	187	0.060	1	2.22	0.008	0.06	0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
ROS 95410	Soil			9	31	0.71	182	0.094	1	2.55	0.009	0.09	0.1	0.02	2.7	0.1	<0.05	7	<0.5	<0.2
ROS 95406	Soil			9	31	0.58	159	0.080	1	2.00	0.011	0.04	0.1	0.02	2.4	0.1	<0.05	7	<0.5	<0.2
ROS 95405	Soil			12	32	0.73	234	0.092	1	2.14	0.016	0.05	0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
ROS 95310	Soil			10	19	0.38	109	0.077	<1	1.32	0.009	0.05	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 146128	Soil		0.9	17.1	8.6	68	0.1	21.5	10.6	627	3.21	9.1	0.6	1.0	4.4	18	<0.1	0.5	0.3	66	0.20	0.033
ROS 146138	Soil		0.7	18.5	7.5	44	<0.1	19.2	8.0	236	2.26	5.3	1.0	1.9	5.6	17	<0.1	0.4	0.1	55	0.20	0.011
ROS 147211	Soil		0.9	46.3	4.6	113	<0.1	15.9	15.0	498	3.90	7.9	0.4	<0.5	2.0	58	<0.1	0.4	<0.1	123	0.61	0.096
ROS 147215	Soil		0.5	20.3	7.1	79	<0.1	14.3	10.6	388	2.93	3.2	1.2	1.5	7.0	39	<0.1	0.4	0.1	68	0.36	0.022
ROS 147292	Soil		0.3	46.2	5.8	89	0.1	36.9	20.1	655	3.68	23.3	0.5	7.3	2.3	68	0.1	1.0	<0.1	92	6.50	0.155
ROS 147297	Soil		0.7	24.1	16.0	91	<0.1	11.7	8.1	252	2.56	5.7	1.1	<0.5	12.8	36	<0.1	1.0	0.2	47	0.40	0.027
ROS 147291	Soil		1.6	72.6	33.5	107	0.2	24.0	14.4	466	3.94	635.9	0.8	37.5	5.0	29	0.3	16.0	0.1	83	0.57	0.043
ROS 147299	Soil		0.6	34.6	13.5	51	0.2	27.5	9.7	462	2.35	6.7	1.2	2.1	5.8	33	0.2	1.0	0.2	53	0.85	0.036
ROS 147302	Soil		1.1	27.9	19.0	72	0.1	19.0	9.3	257	2.54	6.1	0.7	23.3	6.2	22	0.1	1.2	0.3	57	0.46	0.049
ROS 147295	Soil		2.2	26.9	37.1	91	0.1	12.9	8.4	447	2.86	5.7	2.1	9.8	31.0	11	0.3	2.0	0.4	39	0.37	0.027
ROS 147301	Soil		0.6	34.4	13.4	87	<0.1	22.0	11.8	517	2.73	6.1	0.8	26.4	6.0	56	0.2	1.7	0.1	65	2.18	0.076
ROS 147307	Soil		0.3	122.0	11.5	112	<0.1	20.5	13.3	415	3.06	5.4	0.7	10.7	4.5	37	<0.1	0.3	0.3	71	0.47	0.052
ROS 147113	Soil		1.1	46.5	15.0	65	0.1	29.4	12.7	530	2.66	10.4	0.7	15.6	5.2	45	0.2	0.7	0.2	58	2.31	0.049
ROS 147303	Soil		1.0	41.6	9.9	65	0.1	32.5	11.5	298	3.21	11.2	1.4	6.8	7.7	31	<0.1	0.8	0.1	78	0.38	0.048
ROS 147309	Soil		0.8	15.9	9.2	89	<0.1	15.1	8.2	288	2.53	5.1	0.6	0.6	4.8	48	<0.1	0.4	0.3	60	0.45	0.053
ROS 147304	Soil		0.7	42.5	11.5	74	<0.1	23.1	12.2	553	2.92	8.4	0.7	24.8	6.9	20	<0.1	0.5	0.1	63	0.58	0.016
ROS 147111	Soil		0.8	26.0	9.2	69	<0.1	20.2	10.6	399	2.84	6.2	0.7	<0.5	6.6	32	<0.1	0.5	1.5	74	0.45	0.022
ROS 147112	Soil		1.6	22.9	12.8	80	<0.1	28.6	12.3	425	3.35	7.0	1.2	1.3	13.7	24	0.1	0.8	0.2	74	0.36	0.051
ROS 147114	Soil		0.9	38.4	10.7	50	0.4	23.2	8.6	458	2.30	6.2	2.6	19.3	5.5	45	0.1	0.8	0.1	53	0.95	0.055
ROS 147308	Soil		0.7	63.9	12.2	69	<0.1	28.2	10.8	367	2.68	8.2	0.8	9.1	7.1	27	<0.1	0.8	0.4	65	0.38	0.024
ROS 147110	Soil		0.8	26.4	8.4	102	<0.1	54.2	16.4	480	3.77	6.8	0.8	<0.5	5.2	32	<0.1	0.8	0.1	95	0.45	0.045
ROS 147109	Soil		0.5	55.9	9.8	48	0.2	22.1	8.3	382	2.21	6.0	0.7	6.1	2.9	56	0.1	0.6	0.2	47	2.99	0.062
ROS 147108	Soil		0.5	31.6	9.4	45	<0.1	24.5	8.2	284	2.44	7.7	0.6	3.5	4.1	30	<0.1	0.5	0.2	59	0.76	0.044
ROS 173360	Soil		0.8	16.0	9.4	115	<0.1	30.5	24.3	700	3.76	4.3	1.0	<0.5	3.5	54	0.2	1.0	<0.1	79	0.67	0.058
ROS 173495	Soil		1.2	26.7	18.0	65	<0.1	22.3	9.9	412	2.84	7.0	1.7	1.4	22.8	25	<0.1	0.7	0.3	50	0.36	0.048
ROS 173498	Soil		1.1	39.1	14.9	63	0.2	28.8	11.7	409	2.82	9.2	0.9	10.2	7.1	31	<0.1	0.9	0.2	63	0.49	0.028
ROS 173499	Soil		1.0	20.0	8.6	54	<0.1	23.8	11.8	573	2.91	7.3	1.1	0.6	5.5	24	<0.1	0.5	0.1	63	0.37	0.026
ROS 173352	Soil		0.9	36.6	13.5	52	0.5	30.6	10.9	302	2.78	11.0	0.8	3.9	5.9	22	<0.1	0.8	0.4	64	0.33	0.025
ROS 173496	Soil		1.7	16.7	18.2	49	0.2	18.8	7.6	414	2.32	4.7	1.0	<0.5	11.9	19	<0.1	1.0	0.2	36	0.31	0.035
ROS 173350	Soil		0.7	38.4	14.1	79	0.1	33.9	14.7	746	3.12	11.3	0.8	4.1	10.0	25	<0.1	0.6	0.2	52	0.46	0.021

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 146128	Soil	9	32	0.62	228	0.067	1	2.10	0.009	0.13	<0.1	0.02	3.0	0.1	<0.05	7	<0.5	<0.2
ROS 146138	Soil	18	31	0.45	121	0.089	<1	1.32	0.028	0.07	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 147211	Soil	7	28	1.41	225	0.233	<1	2.75	0.015	0.35	<0.1	0.02	4.3	0.2	<0.05	11	<0.5	<0.2
ROS 147215	Soil	21	27	0.88	126	0.163	<1	1.84	0.014	0.20	<0.1	0.04	3.2	0.2	<0.05	7	0.7	<0.2
ROS 147292	Soil	13	107	1.41	239	0.016	1	1.92	0.015	0.06	0.2	0.11	10.4	<0.1	0.11	8	<0.5	<0.2
ROS 147297	Soil	11	18	0.53	135	0.049	<1	1.51	0.006	0.06	0.1	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
ROS 147291	Soil	35	32	0.82	207	0.009	2	1.79	0.013	0.12	<0.1	0.27	5.5	<0.1	0.10	8	0.7	0.3
ROS 147299	Soil	20	29	0.43	416	0.068	2	1.45	0.021	0.08	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 147302	Soil	12	34	0.65	336	0.064	<1	1.56	0.011	0.11	0.4	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 147295	Soil	81	17	0.14	202	0.011	<1	0.87	0.004	0.11	0.7	0.08	4.8	<0.1	<0.05	3	<0.5	<0.2
ROS 147301	Soil	18	26	0.91	267	0.073	<1	1.41	0.021	0.09	0.3	0.07	3.7	<0.1	0.09	6	0.5	<0.2
ROS 147307	Soil	16	31	1.23	248	0.186	<1	2.09	0.015	0.34	0.2	0.02	4.1	0.3	<0.05	7	<0.5	1.0
ROS 147113	Soil	18	31	0.67	337	0.082	<1	1.51	0.024	0.08	0.5	0.06	4.0	<0.1	0.09	5	<0.5	<0.2
ROS 147303	Soil	22	47	0.71	174	0.120	<1	1.90	0.010	0.12	0.2	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 147309	Soil	12	25	0.74	127	0.109	<1	2.01	0.008	0.28	0.2	<0.01	2.3	0.1	<0.05	7	<0.5	<0.2
ROS 147304	Soil	28	29	0.97	185	0.103	<1	1.76	0.013	0.09	0.8	0.06	5.7	0.1	<0.05	6	<0.5	<0.2
ROS 147111	Soil	13	38	0.82	185	0.117	<1	1.95	0.012	0.14	0.2	0.01	4.8	<0.1	<0.05	7	0.6	<0.2
ROS 147112	Soil	23	54	0.68	219	0.100	<1	2.07	0.009	0.28	0.1	0.02	5.3	0.2	<0.05	8	<0.5	<0.2
ROS 147114	Soil	43	32	0.44	218	0.059	2	1.53	0.015	0.08	0.2	0.17	3.5	<0.1	0.08	5	0.6	<0.2
ROS 147308	Soil	18	34	0.67	229	0.100	<1	1.69	0.021	0.08	0.3	0.06	4.3	<0.1	<0.05	6	0.5	<0.2
ROS 147110	Soil	15	144	1.55	207	0.194	<1	2.46	0.010	0.48	0.1	0.01	5.6	0.3	<0.05	9	<0.5	<0.2
ROS 147109	Soil	17	28	0.52	367	0.066	2	1.24	0.022	0.10	0.2	0.04	3.1	<0.1	0.10	4	<0.5	<0.2
ROS 147108	Soil	19	31	0.50	283	0.076	1	1.35	0.020	0.08	0.2	0.04	3.6	<0.1	0.07	4	<0.5	<0.2
ROS 173360	Soil	10	66	1.47	288	0.195	<1	2.32	0.009	0.47	0.3	0.01	4.3	0.2	<0.05	6	<0.5	<0.2
ROS 173495	Soil	41	34	0.48	177	0.070	<1	1.66	0.014	0.21	0.2	0.04	3.7	0.1	<0.05	7	<0.5	<0.2
ROS 173498	Soil	32	39	0.56	191	0.085	1	1.71	0.014	0.10	0.1	0.11	5.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173499	Soil	19	31	0.67	295	0.098	2	1.65	0.014	0.13	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173352	Soil	18	39	0.47	196	0.089	<1	1.58	0.010	0.10	0.2	0.13	5.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173496	Soil	22	30	0.33	346	0.028	2	1.62	0.007	0.23	0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 173350	Soil	33	38	0.79	243	0.133	<1	1.74	0.013	0.23	0.3	0.05	4.2	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173355	Soil		0.8	38.6	8.9	62	0.1	31.3	11.4	499	2.55	6.8	0.8	4.5	4.8	85	0.2	0.7	0.2	59	2.54	0.040
ROS 173351	Soil		1.3	18.4	14.3	75	0.1	15.9	8.6	460	2.26	4.6	0.5	0.6	4.2	18	<0.1	0.6	0.2	55	0.28	0.024
ROS 160304	Soil		0.7	32.1	7.0	80	0.1	26.8	11.4	289	3.34	5.8	1.5	1.3	7.0	18	0.2	0.2	0.2	71	0.25	0.046
ROS 173353	Soil		0.7	51.0	16.5	88	0.4	28.5	10.5	489	3.10	8.0	1.2	9.6	12.1	23	<0.1	1.8	0.3	47	0.40	0.042
ROS 173354	Soil		0.9	37.8	9.6	72	0.2	27.3	11.8	520	3.09	7.5	1.2	5.7	7.7	37	<0.1	0.9	0.2	65	0.49	0.038
ROS 173497	Soil		4.8	19.2	9.3	38	0.4	14.0	4.9	264	1.53	7.1	1.6	2.0	18.8	17	<0.1	1.4	0.1	20	0.23	0.016
ROS 147366	Soil		0.6	24.0	9.2	43	0.2	22.4	8.5	363	2.42	7.4	0.8	0.9	4.5	31	<0.1	0.7	0.1	55	0.75	0.023
ROS 147365	Soil		0.6	22.3	9.5	47	0.2	20.3	9.0	378	2.41	6.3	0.7	4.9	4.0	32	<0.1	0.8	0.2	51	0.84	0.023
ROS 147362	Soil		0.9	25.3	12.8	65	0.3	20.2	11.1	265	2.72	7.3	1.0	11.2	9.3	23	<0.1	0.7	0.5	57	0.45	0.064
ROS 147367	Soil		0.7	14.0	7.6	51	0.2	14.6	9.2	495	2.03	3.3	0.4	<0.5	3.5	20	<0.1	0.3	0.1	45	0.31	0.048
ROS 147360	Soil		0.9	44.1	9.8	53	0.3	32.1	10.5	539	2.43	8.1	6.5	3.7	3.6	48	0.1	1.1	0.2	55	0.95	0.047
ROS 147361	Soil		0.8	48.9	11.1	47	0.3	29.5	10.1	271	2.38	11.5	0.6	6.6	9.2	47	<0.1	0.8	0.3	51	2.07	0.018
ROS 147363	Soil		0.8	20.2	9.0	67	0.1	21.2	11.4	788	2.46	5.3	0.6	2.5	4.0	24	0.2	0.4	0.2	53	0.52	0.052
ROS 173206	Soil		1.1	40.6	9.0	84	0.1	30.2	12.6	501	2.86	10.0	0.9	6.8	4.4	50	0.2	0.7	0.1	63	1.27	0.058
ROS 147364	Soil		0.8	24.0	9.2	46	0.2	20.2	9.7	328	2.54	8.7	1.0	37.0	4.9	32	<0.1	0.7	0.2	54	0.73	0.057
ROS 147359	Soil		2.5	33.9	9.0	55	0.2	24.6	8.3	387	2.31	6.6	8.3	1.5	5.1	63	0.1	0.9	0.2	51	0.84	0.037
ROS 173208	Soil		1.6	40.4	12.2	67	0.3	20.7	10.2	466	2.40	5.1	2.6	7.1	5.7	48	<0.1	0.8	0.5	45	1.16	0.051
ROS 173207	Soil		2.0	39.0	11.7	74	0.1	27.2	13.2	576	3.35	25.5	2.3	3.8	6.9	31	<0.1	0.7	0.2	67	0.54	0.020
ROS 147298	Soil		0.9	66.9	20.3	115	<0.1	11.1	11.8	491	3.45	5.2	2.5	2.5	42.4	36	<0.1	0.9	0.2	38	0.38	0.049
ROS 147294	Soil		1.1	49.9	16.2	78	0.2	26.9	11.9	406	3.51	8.7	1.2	11.2	10.1	20	0.1	3.2	0.8	74	0.52	0.030
ROS 147296	Soil		0.7	24.9	22.3	63	0.1	24.6	10.7	305	2.73	8.0	1.1	12.1	16.0	21	0.1	0.9	0.2	54	0.58	0.037
ROS 147293	Soil		0.4	52.8	8.4	70	0.2	21.0	14.0	530	2.93	6.8	0.8	30.0	5.5	143	0.1	1.5	0.1	68	5.68	0.086
ROS 147214	Soil		0.6	23.3	8.2	112	<0.1	24.3	15.4	501	3.71	6.2	0.6	<0.5	7.0	36	0.1	0.4	<0.1	93	0.45	0.049
ROS 147213	Soil		0.5	64.7	6.5	139	<0.1	17.4	16.7	608	5.19	6.1	0.8	0.9	7.2	44	<0.1	0.3	<0.1	189	0.47	0.026
ROS 147212	Soil		0.3	39.4	4.2	137	<0.1	74.8	15.4	575	3.47	4.7	0.5	1.3	3.5	56	<0.1	0.2	<0.1	93	0.80	0.090
ROS 146136	Soil		0.8	28.9	13.0	101	<0.1	18.8	10.5	791	3.41	3.7	1.3	4.4	9.2	19	0.1	0.3	0.4	52	0.43	0.057
ROS 146131	Soil		0.8	17.6	17.9	61	<0.1	16.8	7.7	221	2.47	6.7	0.9	2.6	9.0	21	0.1	0.7	0.1	50	0.24	0.017
ROS 146133	Soil		0.8	26.6	9.1	85	<0.1	21.1	12.6	574	2.79	4.3	1.1	2.4	9.1	26	<0.1	0.3	0.2	56	0.47	0.035
ROS 146122	Soil		0.4	20.3	8.2	96	<0.1	13.9	10.4	411	2.87	4.3	1.1	1.8	9.5	80	<0.1	0.6	<0.1	69	0.76	0.049
ROS 146121	Soil		0.6	26.8	9.2	88	<0.1	20.6	12.0	416	3.10	5.4	1.3	8.8	9.1	54	<0.1	0.6	<0.1	78	0.49	0.030

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 173355	Soil	16	31	0.88	309	0.092	1	1.51	0.029	0.09	0.2	0.05	4.2	<0.1	0.07	5	<0.5	<0.2
ROS 173351	Soil	12	28	0.39	298	0.052	<1	1.65	0.008	0.10	0.2	0.01	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 160304	Soil	25	36	0.82	182	0.193	<1	1.86	0.012	0.51	0.1	0.03	3.8	0.3	<0.05	7	<0.5	<0.2
ROS 173353	Soil	43	31	0.84	225	0.033	<1	1.78	0.009	0.10	0.2	0.31	3.8	<0.1	<0.05	7	<0.5	<0.2
ROS 173354	Soil	26	39	0.81	221	0.098	1	1.77	0.017	0.11	0.2	0.08	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 173497	Soil	31	13	0.22	296	0.005	<1	1.07	0.004	0.16	0.1	0.08	2.5	<0.1	<0.05	3	0.6	<0.2
ROS 147366	Soil	16	27	0.40	318	0.056	1	1.36	0.017	0.06	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 147365	Soil	15	27	0.40	349	0.052	2	1.36	0.016	0.06	0.2	0.04	3.4	<0.1	0.06	4	<0.5	<0.2
ROS 147362	Soil	14	33	0.42	232	0.063	<1	1.74	0.008	0.20	0.2	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 147367	Soil	7	22	0.32	224	0.052	2	1.35	0.012	0.14	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147360	Soil	18	29	0.51	336	0.063	3	1.43	0.022	0.07	0.2	0.07	3.4	<0.1	<0.05	4	0.5	<0.2
ROS 147361	Soil	28	28	0.48	265	0.065	1	1.33	0.013	0.07	0.2	0.07	3.7	<0.1	0.08	4	<0.5	<0.2
ROS 147363	Soil	11	30	0.40	265	0.068	2	1.51	0.011	0.14	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173206	Soil	14	30	0.85	251	0.112	2	1.67	0.028	0.15	0.2	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 147364	Soil	15	29	0.46	350	0.054	2	1.28	0.016	0.05	0.2	0.06	3.6	<0.1	<0.05	4	0.7	<0.2
ROS 147359	Soil	21	29	0.44	231	0.066	1	1.48	0.017	0.13	0.2	0.04	3.6	<0.1	0.06	4	<0.5	<0.2
ROS 173208	Soil	31	34	0.64	265	0.046	3	1.53	0.016	0.13	0.3	0.11	3.1	<0.1	0.11	5	<0.5	<0.2
ROS 173207	Soil	23	35	0.84	180	0.123	2	2.02	0.014	0.14	0.2	0.06	5.1	0.1	<0.05	7	<0.5	<0.2
ROS 147298	Soil	67	16	0.63	168	0.049	<1	1.64	0.006	0.28	<0.1	0.04	3.4	0.1	<0.05	9	<0.5	<0.2
ROS 147294	Soil	77	34	0.66	277	0.051	1	1.70	0.013	0.08	0.2	0.15	7.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147296	Soil	40	33	0.47	339	0.071	<1	1.58	0.011	0.09	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147293	Soil	20	24	1.25	461	0.062	2	1.49	0.024	0.07	0.4	0.07	4.4	<0.1	0.09	6	<0.5	<0.2
ROS 147214	Soil	9	44	1.08	160	0.120	<1	2.26	0.009	0.36	0.2	0.02	3.5	0.1	<0.05	9	<0.5	<0.2
ROS 147213	Soil	39	41	2.57	130	0.371	1	3.16	0.012	0.09	<0.1	0.01	8.8	<0.1	<0.05	15	<0.5	<0.2
ROS 147212	Soil	16	125	1.97	185	0.191	<1	2.44	0.019	0.23	<0.1	0.03	3.9	0.1	<0.05	10	<0.5	<0.2
ROS 146136	Soil	17	32	1.02	200	0.124	<1	1.84	0.009	0.60	0.1	0.03	5.3	0.3	<0.05	8	0.6	<0.2
ROS 146131	Soil	18	24	0.49	116	0.069	<1	1.57	0.009	0.09	0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
ROS 146133	Soil	28	34	0.84	157	0.133	<1	1.72	0.011	0.26	0.1	0.04	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 146122	Soil	22	25	0.91	115	0.163	<1	2.18	0.013	0.12	0.1	0.02	2.9	0.1	<0.05	9	<0.5	<0.2
ROS 146121	Soil	27	36	0.88	153	0.139	<1	1.89	0.022	0.06	0.1	0.05	5.1	<0.1	<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	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 105583	Soil		1.0	20.6	11.7	91	<0.1	13.0	9.1	310	2.98	5.7	0.8	<0.5	11.7	25	0.1	0.4	0.2	53	0.23	0.032
ROS 146140	Soil		1.2	26.8	9.1	56	0.2	22.0	11.5	1091	2.48	5.9	1.0	1.2	4.2	30	0.3	0.3	0.2	57	0.44	0.040
ROS 147210	Soil		0.6	18.2	6.6	109	<0.1	14.0	11.4	371	3.14	6.7	0.4	1.2	2.8	66	<0.1	0.4	<0.1	87	0.55	0.088
ROS 173166	Soil		0.8	24.7	9.2	53	<0.1	17.9	7.8	438	2.57	6.2	1.7	3.5	8.3	26	<0.1	0.4	0.2	58	0.45	0.045
ROS 146141	Soil		0.8	18.2	8.0	48	<0.1	20.8	10.5	751	2.57	7.1	1.0	4.9	7.3	22	<0.1	0.4	0.1	65	0.28	0.017
ROS 146123	Soil		0.5	17.2	6.7	102	<0.1	11.1	11.9	501	3.15	4.2	1.1	1.3	7.5	39	<0.1	0.4	<0.1	71	0.49	0.043
ROS 146139	Soil		0.4	24.4	7.7	49	<0.1	21.8	8.7	358	2.37	7.2	1.1	3.0	4.9	30	<0.1	0.4	0.1	56	0.48	0.040
ROS 147209	Soil		1.3	39.9	13.4	103	<0.1	21.3	10.5	352	3.09	7.1	1.1	9.8	7.0	33	<0.1	0.7	<0.1	75	0.59	0.072
ROS 165546	Soil		0.6	45.7	11.5	71	0.1	27.2	12.6	479	2.91	7.3	0.7	7.2	9.7	66	<0.1	0.8	0.3	65	3.42	0.034
ROS 165547	Soil		0.8	23.8	9.1	73	0.1	22.6	13.7	662	3.15	6.5	0.8	4.2	6.3	27	<0.1	0.4	0.1	65	0.41	0.051
ROS 165544	Soil		0.7	34.4	9.7	53	0.2	23.1	10.2	429	2.51	7.6	1.4	9.9	6.4	34	<0.1	0.7	0.2	59	0.65	0.060
ROS 165545	Soil		0.8	31.8	7.9	64	<0.1	26.8	13.5	412	2.88	8.0	1.2	15.7	9.4	35	<0.1	0.6	0.1	67	0.43	0.024
ROS 163561	Soil		2.9	129.0	7.5	175	0.2	23.7	10.7	400	4.17	4.6	2.0	2.6	10.6	18	0.2	0.2	0.3	60	0.27	0.059
ROS 163556	Soil		2.6	196.9	6.2	149	0.2	28.7	20.1	678	3.58	2.6	0.9	22.2	4.8	21	0.4	<0.1	0.1	74	0.30	0.073
ROS 163560	Soil		0.8	30.3	8.0	57	0.2	16.7	7.3	194	2.16	4.7	0.8	4.5	1.9	16	0.2	0.2	0.1	45	0.25	0.057
ROS 163558	Soil		0.7	20.6	4.2	57	<0.1	14.6	8.8	296	2.29	4.7	0.4	1.4	2.2	14	0.2	0.2	<0.1	46	0.24	0.070
ROS 163555	Soil		1.9	105.8	5.2	51	0.5	8.5	4.6	116	2.08	3.1	0.9	6.7	1.1	18	0.1	<0.1	0.2	48	0.19	0.047
ROS 163552	Soil		1.0	44.5	7.1	94	0.3	14.9	9.3	266	3.40	3.3	1.2	1.7	1.8	23	0.3	0.2	0.1	89	0.30	0.063
ROS 163553	Soil		1.3	38.3	5.2	59	0.3	8.6	5.2	126	1.99	2.1	0.7	2.0	0.8	20	0.3	0.1	0.1	47	0.24	0.046
ROS 163550	Soil		1.1	20.2	6.4	90	0.2	14.6	8.3	256	2.81	4.7	0.6	1.7	2.0	18	0.2	0.2	0.1	71	0.21	0.041
ROS 163557	Soil		1.9	125.8	6.3	122	0.3	22.9	15.7	464	3.37	3.6	0.9	3.3	3.8	23	0.5	0.1	0.2	66	0.29	0.068
ROS 163554	Soil		0.9	30.1	4.6	47	0.2	7.9	4.3	110	1.70	2.3	0.6	2.7	0.8	17	0.1	0.1	0.1	38	0.21	0.038
ROS 163559	Soil		1.6	50.5	7.0	88	0.2	46.9	19.0	616	3.29	2.5	0.8	1.8	2.5	59	0.2	<0.1	0.1	74	0.45	0.111
ROS 163551	Soil		0.5	43.3	7.0	62	1.3	15.9	7.4	110	1.87	3.4	2.3	2.5	0.4	20	0.8	0.1	0.1	29	0.22	0.084
ROS 163684	Soil		2.2	49.2	8.5	87	0.2	25.5	8.7	148	3.01	3.6	1.6	0.9	5.7	17	0.4	0.2	0.2	55	0.10	0.060
ROS 163683	Soil		1.2	47.0	15.4	111	<0.1	40.8	11.3	262	3.18	7.3	1.7	2.3	4.8	39	0.3	0.4	0.2	84	0.18	0.049
ROS 163681	Soil		1.5	40.6	9.7	105	<0.1	23.6	9.6	257	3.21	4.3	1.2	1.2	4.9	19	0.2	0.2	0.2	58	0.12	0.039
ROS 163682	Soil		2.1	56.4	7.0	91	0.3	12.3	6.6	141	3.93	1.7	2.0	0.6	10.9	28	0.3	0.1	0.3	70	0.08	0.073
ROS 163679	Soil		1.2	21.6	8.1	57	<0.1	13.6	6.3	181	3.04	8.2	0.7	3.2	4.0	12	0.2	0.3	0.2	61	0.09	0.031
ROS 163680	Soil		1.0	143.5	8.4	82	0.4	9.5	5.5	241	3.67	3.8	0.7	5.1	4.1	29	<0.1	0.2	0.9	61	0.21	0.037

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 105583	Soil	9	19	0.60	115	0.167	<1	1.75	0.008	0.33	0.1	0.01	1.7	0.3	<0.05	7	<0.5	<0.2
ROS 146140	Soil	25	29	0.43	273	0.086	1	1.45	0.014	0.11	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 147210	Soil	8	27	0.99	144	0.145	<1	2.08	0.016	0.17	<0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
ROS 173166	Soil	29	30	0.48	164	0.082	1	1.57	0.015	0.09	0.1	0.05	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 146141	Soil	21	34	0.42	226	0.080	<1	1.71	0.012	0.07	0.1	0.02	4.2	0.1	<0.05	5	<0.5	<0.2
ROS 146123	Soil	32	22	1.18	101	0.158	<1	2.32	0.011	0.21	<0.1	0.01	2.4	0.2	<0.05	9	<0.5	<0.2
ROS 146139	Soil	16	31	0.48	230	0.087	1	1.45	0.018	0.06	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	0.5
ROS 147209	Soil	17	34	0.86	257	0.051	<1	2.15	0.013	0.11	0.2	0.04	4.7	<0.1	<0.05	8	<0.5	<0.2
ROS 165546	Soil	25	32	0.72	254	0.088	1	1.74	0.019	0.09	0.2	0.11	4.9	<0.1	0.09	7	<0.5	<0.2
ROS 165547	Soil	12	44	0.88	251	0.092	1	1.98	0.013	0.25	0.2	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
ROS 165544	Soil	21	34	0.48	265	0.078	2	1.51	0.015	0.09	0.2	0.08	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 165545	Soil	14	43	0.85	166	0.143	2	1.71	0.016	0.19	0.2	0.05	4.4	0.1	<0.05	5	<0.5	<0.2
ROS 163561	Soil	31	35	0.89	257	0.182	<1	2.12	0.012	0.57	0.2	0.01	3.8	0.5	<0.05	7	<0.5	<0.2
ROS 163556	Soil	16	28	0.98	242	0.130	<1	2.03	0.017	0.61	<0.1	0.02	3.9	0.4	<0.05	7	<0.5	<0.2
ROS 163560	Soil	12	22	0.51	183	0.046	<1	1.34	0.010	0.10	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163558	Soil	8	21	0.51	158	0.062	<1	1.23	0.013	0.12	0.6	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 163555	Soil	11	17	0.46	184	0.063	<1	1.26	0.012	0.10	0.1	0.04	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 163552	Soil	10	18	0.74	354	0.089	<1	1.88	0.019	0.25	0.1	0.04	4.8	0.1	<0.05	6	<0.5	<0.2
ROS 163553	Soil	8	13	0.47	225	0.067	<1	1.30	0.017	0.13	<0.1	0.04	3.2	0.1	0.06	6	<0.5	<0.2
ROS 163550	Soil	8	30	0.68	151	0.087	<1	1.67	0.017	0.11	<0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 163557	Soil	15	27	0.89	218	0.110	<1	1.88	0.015	0.49	<0.1	0.02	3.9	0.3	<0.05	6	<0.5	<0.2
ROS 163554	Soil	8	14	0.39	158	0.058	<1	1.10	0.015	0.07	<0.1	0.06	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163559	Soil	13	51	1.27	576	0.131	<1	2.05	0.017	0.56	<0.1	0.02	3.7	0.3	<0.05	8	<0.5	<0.2
ROS 163551	Soil	12	21	0.32	271	0.024	<1	1.28	0.012	0.05	<0.1	0.11	2.6	<0.1	0.07	4	0.6	<0.2
ROS 163684	Soil	29	32	0.70	218	0.060	<1	1.67	0.013	0.29	<0.1	<0.01	2.1	0.3	0.16	5	1.3	<0.2
ROS 163683	Soil	17	70	1.00	451	0.111	1	2.55	0.019	0.31	<0.1	0.01	5.3	0.2	0.08	7	<0.5	<0.2
ROS 163681	Soil	21	35	0.79	259	0.092	<1	2.04	0.015	0.32	<0.1	0.01	3.4	0.2	0.10	6	<0.5	<0.2
ROS 163682	Soil	37	41	1.00	391	0.118	<1	2.00	0.050	0.89	<0.1	<0.01	3.4	0.7	0.51	7	0.8	<0.2
ROS 163679	Soil	13	34	0.50	149	0.060	<1	1.69	0.012	0.14	0.1	0.03	2.5	0.2	0.07	6	<0.5	<0.2
ROS 163680	Soil	17	15	0.83	295	0.078	<1	1.79	0.045	0.51	<0.1	0.02	4.5	0.3	0.43	6	<0.5	<0.2

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 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163678	Soil		1.1	35.8	9.1	85	0.2	29.4	12.0	208	3.23	5.3	1.5	5.5	7.6	24	0.3	0.2	0.3	51	0.16	0.053
ROS 163677	Soil		0.5	53.4	7.7	154	0.1	47.2	18.0	425	4.46	1.9	2.1	3.8	13.0	38	0.2	<0.1	0.6	73	0.35	0.072
ROS 165554	Soil		0.6	15.9	10.9	70	<0.1	13.0	8.2	387	2.24	5.9	1.4	1.8	10.6	25	0.1	0.4	0.1	37	0.37	0.054
ROS 165573	Soil		0.8	27.0	7.7	53	<0.1	22.5	8.8	342	2.60	9.7	0.7	2.2	4.1	24	<0.1	0.5	0.1	54	0.37	0.042
ROS 165552	Soil		0.7	34.7	9.6	56	0.1	22.9	9.4	347	2.17	10.5	0.7	5.3	4.2	83	0.3	0.6	0.1	45	5.32	0.053
ROS 165553	Soil		0.8	33.7	9.9	60	0.1	28.0	11.5	372	2.86	12.2	0.5	2.8	5.4	29	<0.1	0.6	0.2	61	0.45	0.021
ROS 165550	Soil		0.9	34.2	15.6	86	0.1	22.8	10.1	579	2.89	9.7	1.3	16.1	5.9	40	<0.1	0.6	0.4	53	0.54	0.042
ROS 165551	Soil		0.7	42.0	10.6	81	<0.1	26.3	11.6	588	2.97	11.5	1.0	6.1	12.6	23	<0.1	0.5	0.2	57	0.52	0.048
ROS 165549	Soil		0.6	38.5	8.1	79	<0.1	11.1	7.1	322	2.84	6.1	1.3	5.9	10.8	22	<0.1	0.5	0.4	47	0.26	0.045
ROS 165548	Soil		0.7	33.8	7.4	50	<0.1	25.0	8.5	279	2.41	11.0	0.8	6.8	5.2	21	<0.1	0.6	0.2	53	0.28	0.037
ROS 105581	Soil		0.9	23.6	8.2	50	<0.1	22.2	9.8	219	2.51	7.4	0.5	2.1	6.4	18	<0.1	0.5	0.1	56	0.25	0.027
ROS 105582	Soil		0.7	15.9	10.0	75	<0.1	10.3	8.1	292	2.40	4.0	0.6	<0.5	6.5	23	<0.1	0.3	<0.1	50	0.22	0.012
ROS 95694	Soil		0.6	18.3	6.9	37	<0.1	18.9	7.8	292	2.15	4.9	0.5	2.1	3.3	22	<0.1	0.3	0.1	51	0.33	0.027
ROS 146142	Soil		0.5	21.7	6.3	54	<0.1	17.6	6.9	291	2.38	4.9	0.8	0.9	6.9	16	<0.1	0.4	0.1	48	0.20	0.015
ROS 147154	Soil		0.5	105.5	4.1	131	<0.1	23.1	21.9	471	4.29	4.3	0.6	<0.5	5.2	60	<0.1	0.7	<0.1	106	0.67	0.125
ROS 147156	Soil		1.0	16.7	7.9	41	<0.1	17.2	8.2	301	2.30	5.4	0.4	2.4	3.4	20	<0.1	0.4	0.1	55	0.23	0.018
ROS 147153	Soil		0.8	14.4	8.4	71	0.2	18.8	9.8	430	2.59	4.5	0.4	1.1	2.9	33	0.1	0.6	0.1	63	0.34	0.033
ROS 147155	Soil		1.3	41.1	11.3	71	<0.1	25.6	12.4	319	3.10	5.5	1.5	11.0	8.3	30	<0.1	1.2	0.2	70	0.40	0.013
ROS 147151	Soil		1.4	52.3	7.0	117	<0.1	8.4	8.8	397	2.92	2.0	0.8	1.4	7.6	17	<0.1	0.4	0.2	45	0.32	0.031
ROS 147152	Soil		0.8	9.8	8.0	45	0.3	11.8	6.1	395	1.97	2.8	0.3	1.0	2.6	11	<0.1	0.4	0.1	51	0.14	0.022
ROS 147149	Soil		0.7	134.0	21.7	91	0.1	21.5	11.3	331	3.09	7.4	0.5	6.6	5.2	21	<0.1	0.7	0.1	65	0.36	0.014
ROS 147148	Soil		0.3	41.0	6.1	66	0.2	13.0	7.3	365	2.37	4.3	0.9	21.7	7.2	23	<0.1	0.6	<0.1	39	0.42	0.025
ROS 147150	Soil		0.5	15.2	9.0	41	<0.1	12.0	6.3	203	2.02	4.1	0.5	2.8	4.0	12	<0.1	0.7	0.2	36	0.24	0.014
ROS 147147	Soil		0.6	29.6	11.0	36	0.3	19.1	6.5	314	1.26	4.3	0.5	45.2	2.0	48	0.1	0.4	0.1	25	3.79	0.038
ROS 147145	Soil		5.3	68.9	127.7	56	1.3	14.6	6.8	158	2.81	9.0	0.6	25.6	3.9	13	<0.1	11.4	3.3	60	0.14	0.020
ROS 147146	Soil		13.0	24.4	9.6	46	0.1	7.3	6.5	300	2.06	4.2	0.6	4.7	3.6	8	<0.1	1.9	0.2	29	0.09	0.025
ROS 164219	Soil		1.1	33.6	9.6	43	0.1	22.6	8.7	248	2.84	8.5	1.6	2.6	12.1	25	<0.1	0.4	0.2	64	0.47	0.036
ROS 165718	Soil		0.7	36.0	12.4	108	<0.1	22.0	11.0	528	3.35	7.6	1.2	4.9	9.8	45	<0.1	0.7	<0.1	75	0.40	0.051
ROS 165721	Soil		0.8	20.1	9.6	55	<0.1	21.4	11.1	614	2.68	5.4	0.4	1.0	4.1	21	0.1	0.5	0.8	55	0.27	0.032
ROS 165719	Soil		0.9	15.0	9.6	63	<0.1	23.1	10.3	367	2.72	6.8	0.4	1.8	5.6	22	<0.1	0.5	0.2	65	0.24	0.041

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
ROS 163678	Soil	26	44	0.69	189	0.083	<1	2.24	0.015	0.44	<0.1	0.02	3.2	0.3	0.12	6	<0.5	<0.2
ROS 163677	Soil	37	59	1.28	300	0.173	<1	3.53	0.023	1.36	<0.1	0.02	5.1	0.7	<0.05	9	<0.5	<0.2
ROS 165554	Soil	20	22	0.46	201	0.039	1	1.36	0.011	0.20	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 165573	Soil	15	33	0.54	239	0.060	<1	1.52	0.012	0.11	0.1	0.04	4.3	<0.1	<0.05	5	0.6	<0.2
ROS 165552	Soil	15	21	0.69	204	0.049	1	1.25	0.016	0.09	0.2	0.08	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 165553	Soil	18	35	0.66	259	0.068	1	1.77	0.015	0.11	0.1	0.03	5.1	<0.1	<0.05	5	<0.5	0.3
ROS 165550	Soil	18	36	0.65	245	0.087	1	1.85	0.009	0.14	0.4	0.11	4.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165551	Soil	35	35	0.76	277	0.055	<1	1.73	0.012	0.14	0.2	0.10	4.2	0.1	<0.05	6	<0.5	0.3
ROS 165549	Soil	19	19	0.61	108	0.057	<1	1.61	0.009	0.29	0.2	0.04	4.2	0.2	<0.05	7	<0.5	<0.2
ROS 165548	Soil	18	36	0.50	148	0.059	<1	1.38	0.013	0.10	0.2	0.07	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 105581	Soil	17	31	0.48	180	0.077	1	1.63	0.009	0.06	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 105582	Soil	10	17	0.55	119	0.139	<1	1.42	0.007	0.20	0.1	<0.01	1.4	0.2	<0.05	7	<0.5	<0.2
ROS 95694	Soil	10	27	0.41	224	0.062	<1	1.34	0.012	0.04	0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 146142	Soil	24	24	0.47	98	0.083	<1	1.40	0.007	0.08	0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147154	Soil	14	39	1.78	261	0.230	<1	2.59	0.013	0.50	0.2	<0.01	2.9	0.2	<0.05	10	<0.5	<0.2
ROS 147156	Soil	10	25	0.43	219	0.071	<1	1.38	0.009	0.06	0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 147153	Soil	8	31	0.52	249	0.064	<1	1.68	0.008	0.07	0.3	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
ROS 147155	Soil	28	44	0.80	230	0.088	<1	2.06	0.009	0.08	0.2	0.04	6.0	0.1	<0.05	7	<0.5	<0.2
ROS 147151	Soil	9	20	1.01	134	0.073	<1	1.69	0.009	0.33	<0.1	0.02	3.4	0.2	<0.05	9	<0.5	<0.2
ROS 147152	Soil	7	20	0.29	287	0.041	<1	1.22	0.011	0.05	0.3	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
ROS 147149	Soil	9	33	0.70	197	0.076	<1	1.85	0.011	0.07	0.2	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 147148	Soil	24	20	0.46	204	0.066	<1	1.25	0.010	0.06	0.4	0.06	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147150	Soil	6	20	0.35	173	0.032	<1	1.13	0.006	0.11	0.2	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
ROS 147147	Soil	12	18	0.45	141	0.020	<1	0.93	0.014	0.07	1.1	0.11	1.8	<0.1	0.11	3	<0.5	<0.2
ROS 147145	Soil	8	25	0.27	514	0.032	<1	1.52	0.006	0.06	0.1	0.13	2.6	<0.1	<0.05	5	<0.5	0.8
ROS 147146	Soil	18	13	0.13	207	0.009	<1	0.82	0.004	0.10	0.1	0.02	1.5	<0.1	<0.05	2	<0.5	0.3
ROS 164219	Soil	55	43	0.47	198	0.090	<1	1.74	0.012	0.11	0.1	0.06	5.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165718	Soil	26	32	0.87	195	0.093	<1	1.79	0.012	0.11	0.1	0.03	4.4	<0.1	<0.05	9	<0.5	<0.2
ROS 165721	Soil	8	36	0.39	192	0.053	<1	1.49	0.007	0.09	<0.1	0.01	2.5	<0.1	<0.05	5	0.6	<0.2
ROS 165719	Soil	10	36	0.42	186	0.065	<1	1.87	0.008	0.07	0.2	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164220	Soil	0.8	26.4	9.5	35	<0.1	17.0	8.8	277	2.08	4.7	1.7	4.0	11.8	58	<0.1	0.4	0.1	42	1.05	0.059
ROS 165731	Soil	1.0	18.5	17.5	60	0.3	21.6	9.8	408	2.70	7.3	0.9	1.3	5.3	19	0.1	2.1	0.2	54	0.25	0.036
ROS 165723	Soil	0.3	16.6	5.1	79	<0.1	13.0	9.1	284	2.43	3.9	0.7	1.0	2.7	34	<0.1	0.4	<0.1	52	0.28	0.016
ROS 165732	Soil	1.5	36.0	24.0	136	0.5	51.2	14.7	614	3.68	9.3	2.2	0.9	8.9	26	0.2	6.4	0.2	49	0.44	0.079
ROS 164221	Soil	1.1	25.6	9.5	46	<0.1	17.7	10.4	313	2.73	5.9	2.6	1.5	9.4	24	<0.1	0.3	0.1	60	0.38	0.029
ROS 165727	Soil	0.7	39.1	12.4	65	<0.1	23.5	11.5	628	2.68	5.3	0.8	2.9	11.1	25	0.1	0.9	0.2	55	0.40	0.049
ROS 165722	Soil	0.7	23.8	8.4	50	<0.1	21.9	10.1	285	2.66	7.8	1.0	2.0	5.1	21	<0.1	0.5	0.2	59	0.26	0.016
ROS 165725	Soil	0.7	21.0	20.7	77	<0.1	15.0	9.2	282	2.70	5.4	1.4	0.9	20.3	26	<0.1	0.9	0.2	39	0.33	0.022
ROS 164222	Soil	1.3	14.6	6.0	74	<0.1	11.1	9.4	394	2.97	4.4	0.8	<0.5	3.4	14	0.1	0.3	0.1	51	0.21	0.042
ROS 165720	Soil	1.0	21.3	8.6	77	<0.1	22.5	12.1	476	3.15	6.9	0.6	<0.5	5.3	43	<0.1	0.6	0.1	74	0.37	0.032
ROS 165728	Soil	0.8	22.3	8.6	50	<0.1	17.1	8.7	282	2.34	5.5	1.0	2.2	8.2	22	<0.1	0.6	0.1	50	0.31	0.031
ROS 165726	Soil	0.6	40.8	21.3	105	<0.1	17.2	10.1	499	3.26	4.6	2.1	1.0	25.1	27	0.2	1.3	0.2	46	0.35	0.036
ROS 141770	Soil	0.7	26.7	11.3	58	<0.1	19.4	7.9	277	2.66	5.8	1.0	4.1	11.7	21	<0.1	0.6	0.2	52	0.29	0.022
ROS 164707	Soil	2.0	39.1	18.2	135	<0.1	16.7	20.2	697	4.27	17.0	2.1	0.9	15.7	17	0.1	0.4	0.3	51	0.47	0.095
ROS 141771	Soil	0.7	30.7	11.5	60	<0.1	19.1	8.1	261	2.77	6.5	1.1	3.8	13.4	22	<0.1	0.7	0.2	54	0.31	0.024
ROS 141765	Soil	0.8	12.8	11.8	102	0.1	15.7	10.8	706	2.87	5.1	0.7	8.7	8.3	21	0.3	1.6	0.1	56	0.28	0.037
ROS 141769	Soil	0.7	18.5	9.0	68	<0.1	11.4	6.9	319	2.79	5.3	1.3	<0.5	8.1	18	<0.1	0.6	0.1	44	0.15	0.018
ROS 141772	Soil	1.0	16.3	8.2	54	<0.1	16.5	7.1	332	2.43	6.0	0.9	1.5	6.4	19	<0.1	0.5	0.5	48	0.20	0.025
ROS 141768	Soil	1.0	19.1	9.3	68	<0.1	13.9	10.8	645	2.90	4.8	0.7	<0.5	6.5	23	<0.1	0.5	0.1	54	0.20	0.033
ROS 141763	Soil	0.4	21.5	8.0	78	<0.1	10.8	5.9	293	2.73	5.1	1.8	0.9	18.2	16	<0.1	0.6	0.2	45	0.22	0.032
ROS 159141	Soil	0.9	12.8	10.7	66	<0.1	12.8	7.9	380	2.49	6.6	0.9	1.5	6.9	22	0.2	0.3	0.2	48	0.27	0.075
ROS 159138	Soil	0.7	21.7	7.8	56	<0.1	14.5	8.1	288	2.56	6.7	1.1	2.0	6.2	27	0.1	0.5	0.1	50	0.35	0.052
ROS 164820	Soil	1.5	16.1	6.7	51	<0.1	14.3	8.3	383	2.70	7.0	1.0	1.1	8.4	21	<0.1	0.4	0.2	49	0.28	0.043
ROS 164834	Soil	0.7	15.8	12.9	82	0.1	12.4	8.8	483	2.52	4.4	0.9	1.0	5.4	33	0.2	0.3	0.3	49	0.47	0.057
ROS 164833	Soil	0.6	20.9	10.2	82	<0.1	10.9	8.7	439	2.77	3.9	1.5	1.7	7.9	28	0.1	0.4	0.3	54	0.47	0.070
ROS 164225	Soil	1.9	30.4	12.3	53	0.1	19.1	10.6	373	2.86	8.7	2.8	1.7	10.8	33	<0.1	0.4	0.2	50	0.58	0.030
ROS 164224	Soil	1.1	26.2	16.1	81	<0.1	17.2	11.5	437	3.35	5.2	1.6	0.5	13.9	29	<0.1	0.4	0.2	56	0.35	0.036
ROS 164223	Soil	1.1	13.7	8.8	68	<0.1	13.5	10.4	363	2.92	6.2	0.6	0.5	4.0	18	0.1	0.3	0.1	61	0.20	0.037
ROS 163643	Soil	1.7	17.6	7.9	83	0.1	8.3	7.6	563	3.76	4.8	0.9	3.4	5.1	15	<0.1	0.8	0.3	48	0.27	0.069
ROS 164712	Soil	1.0	35.6	16.1	113	0.2	16.8	15.5	1090	4.21	4.3	2.6	1.0	29.5	23	0.1	0.3	0.3	64	0.54	0.056

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164220	Soil	30	28	0.36	172	0.058	<1	1.35	0.012	0.07	<0.1	0.04	3.8	<0.1	0.08	5	0.8	<0.2
ROS 165731	Soil	13	32	0.44	206	0.051	<1	1.51	0.010	0.08	0.1	0.06	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165723	Soil	11	29	0.69	117	0.147	<1	1.49	0.009	0.17	<0.1	<0.01	4.0	<0.1	<0.05	7	<0.5	<0.2
ROS 165732	Soil	29	62	0.53	332	0.027	2	1.61	0.008	0.10	0.2	0.14	5.2	<0.1	<0.05	6	<0.5	<0.2
ROS 164221	Soil	24	34	0.49	183	0.102	<1	1.61	0.013	0.09	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165727	Soil	25	25	0.53	241	0.072	<1	1.37	0.023	0.12	0.1	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165722	Soil	17	36	0.44	165	0.074	<1	1.46	0.009	0.05	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 165725	Soil	48	21	0.42	125	0.019	<1	1.58	0.006	0.10	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	0.2
ROS 164222	Soil	4	21	0.67	135	0.136	<1	1.55	0.007	0.46	0.2	<0.01	3.6	0.3	<0.05	6	<0.5	<0.2
ROS 165720	Soil	8	35	0.57	216	0.099	<1	2.17	0.011	0.11	<0.1	<0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165728	Soil	19	27	0.40	178	0.075	<1	1.34	0.013	0.06	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	0.4
ROS 165726	Soil	61	19	0.66	160	0.031	<1	1.55	0.013	0.08	<0.1	0.06	4.0	<0.1	<0.05	8	<0.5	<0.2
ROS 141770	Soil	24	28	0.44	181	0.074	<1	1.39	0.012	0.08	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164707	Soil	22	29	0.84	201	0.113	<1	1.93	0.008	0.61	<0.1	0.03	6.1	0.6	<0.05	7	<0.5	<0.2
ROS 141771	Soil	29	30	0.45	173	0.083	<1	1.46	0.013	0.09	0.1	0.05	4.6	<0.1	<0.05	5	<0.5	0.2
ROS 141765	Soil	12	27	0.55	279	0.033	<1	1.84	0.007	0.10	0.1	0.07	2.3	<0.1	<0.05	6	<0.5	<0.2
ROS 141769	Soil	7	18	0.53	133	0.071	<1	1.59	0.008	0.11	0.2	0.01	2.2	0.1	0.07	7	<0.5	<0.2
ROS 141772	Soil	19	25	0.43	191	0.050	<1	1.59	0.015	0.09	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 141768	Soil	10	22	0.54	201	0.059	<1	1.78	0.009	0.13	0.3	0.02	2.5	<0.1	<0.05	7	<0.5	0.3
ROS 141763	Soil	25	20	0.53	101	0.025	<1	1.56	0.007	0.11	0.1	0.01	4.0	<0.1	<0.05	9	<0.5	<0.2
ROS 159141	Soil	19	22	0.49	192	0.070	<1	1.48	0.016	0.10	1.0	0.01	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 159138	Soil	22	24	0.54	226	0.090	<1	1.46	0.013	0.13	0.1	0.02	4.4	0.1	<0.05	5	<0.5	<0.2
ROS 164820	Soil	31	23	0.50	185	0.082	1	1.58	0.016	0.10	0.2	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 164834	Soil	21	23	0.55	190	0.083	<1	1.56	0.015	0.15	0.1	0.03	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164833	Soil	24	19	0.65	160	0.108	<1	1.46	0.015	0.42	0.2	0.03	4.3	0.3	<0.05	6	<0.5	<0.2
ROS 164225	Soil	28	26	0.55	186	0.081	<1	1.58	0.015	0.13	0.1	0.05	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 164224	Soil	21	28	0.78	160	0.115	1	2.04	0.012	0.31	0.3	0.02	4.1	0.3	<0.05	8	<0.5	<0.2
ROS 164223	Soil	8	24	0.66	181	0.122	<1	1.63	0.012	0.25	0.2	<0.01	2.6	0.2	<0.05	6	<0.5	<0.2
ROS 163643	Soil	9	14	0.59	206	0.124	<1	1.87	0.010	0.36	0.2	0.02	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 164712	Soil	100	21	1.23	187	0.147	1	2.60	0.011	0.59	0.2	0.02	4.7	0.4	<0.05	10	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164710	Soil	1.4	40.5	20.7	96	<0.1	16.3	10.4	463	3.38	8.9	2.7	2.0	23.5	22	<0.1	0.5	0.5	52	0.31	0.048
ROS 164709	Soil	1.1	43.1	11.2	74	<0.1	19.2	11.8	397	3.20	5.6	1.5	1.7	16.7	22	<0.1	0.3	0.2	57	0.35	0.044
ROS 163645	Soil	2.2	14.2	6.9	98	<0.1	10.3	11.1	1822	3.34	4.1	0.9	<0.5	8.6	18	0.1	0.2	0.4	52	0.27	0.112
ROS 164708	Soil	1.8	17.5	13.9	98	<0.1	14.0	14.4	639	3.53	6.0	1.3	2.6	11.7	27	0.1	0.4	0.1	53	0.39	0.063
ROS 163646	Soil	1.3	14.4	5.9	57	<0.1	12.5	8.3	517	2.58	5.7	0.9	2.5	8.3	13	<0.1	0.4	0.1	40	0.14	0.044
ROS 163644	Soil	1.1	10.6	7.6	48	<0.1	11.3	7.6	395	2.29	5.2	0.8	1.1	6.7	17	<0.1	0.4	0.2	44	0.22	0.037
ROS 164711	Soil	0.7	25.0	11.0	105	<0.1	17.9	15.1	744	3.92	3.7	2.0	2.0	24.6	29	<0.1	0.3	0.1	63	0.37	0.060
ROS 164706	Soil	0.6	15.1	5.0	39	<0.1	7.4	6.4	319	2.03	2.1	0.9	1.0	7.9	17	<0.1	0.2	0.1	41	0.20	0.015
ROS 164713	Soil	1.2	32.6	13.5	79	<0.1	21.3	11.1	545	3.36	6.6	2.3	1.9	25.4	19	<0.1	0.7	0.2	48	0.27	0.049
ROS 141766	Soil	0.7	14.3	12.2	87	<0.1	25.3	12.6	1138	2.80	4.8	0.6	0.7	5.6	21	0.1	1.2	0.2	64	0.23	0.024
ROS 141757	Soil	0.6	17.7	8.0	68	<0.1	21.1	8.4	278	2.74	9.0	0.5	1.4	4.9	56	<0.1	0.6	0.1	65	0.29	0.022
ROS 141764	Soil	0.6	14.3	6.8	82	<0.1	16.6	13.1	1025	2.86	4.9	0.3	4.1	2.2	39	0.1	0.6	0.1	63	0.38	0.046
ROS 141773	Soil	0.6	16.9	7.1	44	<0.1	18.9	7.4	207	2.36	6.7	0.5	1.9	4.5	16	<0.1	0.5	0.1	55	0.16	0.012
ROS 141767	Soil	0.6	17.7	9.2	75	<0.1	14.3	9.0	670	2.92	5.8	0.9	4.0	7.6	21	0.1	0.9	0.2	58	0.21	0.028
ROS 159391	Soil	0.8	25.7	7.6	63	<0.1	20.8	9.7	352	2.38	8.7	0.7	3.4	3.9	33	0.4	0.7	0.1	50	0.47	0.071
ROS 159389	Soil	0.8	15.7	7.0	56	<0.1	15.2	7.6	259	2.40	6.7	1.4	1.9	5.8	28	0.1	0.4	0.1	51	0.32	0.057
ROS 159388	Soil	0.7	19.7	8.2	70	<0.1	13.4	9.9	480	2.87	6.2	1.1	3.8	5.9	25	<0.1	0.5	0.2	58	0.35	0.084
ROS 159384	Soil	0.6	17.4	8.7	56	0.1	15.0	8.1	478	2.18	5.2	1.3	5.6	4.0	24	0.2	0.5	0.2	47	0.30	0.056
ROS 165670	Soil	0.6	20.0	8.9	75	<0.1	16.8	8.1	284	2.81	7.6	1.2	2.7	16.5	25	<0.1	0.5	0.1	53	0.19	0.030
ROS 147087	Soil	1.2	19.8	11.2	47	0.5	30.6	9.8	273	3.05	9.7	0.4	1.4	2.9	14	0.2	2.4	0.2	67	0.15	0.034
ROS 165652	Soil	0.6	35.5	11.7	58	<0.1	47.5	8.6	316	2.14	11.3	0.6	4.0	3.0	36	0.1	1.1	0.1	47	4.40	0.032
ROS 165653	Soil	0.3	28.2	9.1	41	<0.1	24.2	9.1	621	2.10	9.5	0.6	1.9	1.6	34	0.3	0.8	0.1	44	2.87	0.040
ROS 165651	Soil	0.6	28.6	25.0	76	<0.1	81.2	9.5	734	2.32	14.6	1.1	2.6	4.3	21	0.5	2.1	0.2	52	1.77	0.081
ROS 165675	Soil	0.7	36.6	12.9	62	<0.1	29.6	8.9	209	3.24	10.5	1.3	3.7	17.6	27	<0.1	1.3	0.2	73	0.31	0.030
ROS 165666	Soil	0.6	18.8	8.9	62	<0.1	19.4	9.3	253	2.67	5.3	0.9	1.9	6.1	41	<0.1	0.5	0.2	70	0.36	0.016
ROS 165671	Soil	0.6	25.0	8.3	58	<0.1	22.1	9.3	260	2.92	7.7	0.7	5.1	5.5	30	<0.1	0.7	0.1	65	0.34	0.037
ROS 165674	Soil	0.5	82.6	12.7	89	<0.1	88.0	17.3	396	4.14	10.3	2.5	3.9	9.3	59	<0.1	1.8	0.1	87	0.85	0.158
ROS 165665	Soil	1.4	24.6	13.6	68	0.1	23.8	10.3	420	2.74	7.0	0.7	3.2	5.5	42	0.1	0.7	0.2	60	0.54	0.051
ROS 165667	Soil	0.8	12.2	9.6	65	<0.1	19.7	11.1	533	2.62	5.3	0.6	2.3	3.7	50	<0.1	0.5	0.2	59	0.43	0.062
ROS 165664	Soil	0.6	17.4	8.7	58	<0.1	20.7	10.1	301	2.77	9.6	1.1	1.4	5.6	33	<0.1	0.6	0.2	65	0.44	0.035

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Project: ROS
 Report Date: November 06, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164710	Soil	33	25	0.65	174	0.110	<1	1.68	0.009	0.37	0.3	0.03	5.5	0.4	<0.05	8	<0.5	<0.2
ROS 164709	Soil	39	29	0.95	132	0.148	1	1.88	0.011	0.49	0.6	0.02	4.1	0.5	<0.05	6	<0.5	<0.2
ROS 163645	Soil	13	18	0.60	178	0.128	<1	1.55	0.009	0.52	0.3	<0.01	4.1	0.3	<0.05	8	<0.5	<0.2
ROS 164708	Soil	19	32	0.79	165	0.123	<1	1.97	0.010	0.44	0.2	0.01	3.3	0.4	<0.05	9	<0.5	<0.2
ROS 163646	Soil	9	21	0.46	103	0.068	<1	1.39	0.009	0.15	0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 163644	Soil	25	21	0.45	226	0.069	<1	1.43	0.010	0.10	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164711	Soil	45	25	1.21	165	0.182	<1	2.08	0.011	0.76	0.3	0.03	4.0	0.6	<0.05	9	<0.5	<0.2
ROS 164706	Soil	12	17	0.44	120	0.100	<1	1.34	0.010	0.28	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
ROS 164713	Soil	63	35	0.66	150	0.058	<1	1.85	0.010	0.22	0.2	0.03	5.6	0.2	<0.05	6	<0.5	<0.2
ROS 141766	Soil	12	59	0.76	355	0.048	<1	2.01	0.009	0.08	0.1	0.02	3.9	0.1	<0.05	8	<0.5	<0.2
ROS 141757	Soil	9	36	0.65	141	0.110	<1	2.01	0.012	0.08	0.1	0.02	3.0	<0.1	<0.05	7	<0.5	<0.2
ROS 141764	Soil	8	27	0.85	337	0.112	1	2.01	0.015	0.09	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 141773	Soil	16	30	0.48	138	0.065	<1	1.37	0.011	0.04	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 141767	Soil	19	21	0.61	232	0.082	<1	1.62	0.008	0.30	0.1	0.02	4.8	0.2	<0.05	6	<0.5	<0.2
ROS 159391	Soil	14	25	0.50	285	0.071	<1	1.27	0.025	0.05	0.2	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
ROS 159389	Soil	23	25	0.48	216	0.076	<1	1.45	0.017	0.07	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 159388	Soil	23	22	0.62	225	0.076	<1	1.73	0.014	0.16	0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
ROS 159384	Soil	25	24	0.49	225	0.051	<1	1.48	0.013	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	0.2
ROS 165670	Soil	21	29	0.57	146	0.119	<1	1.89	0.009	0.24	<0.1	0.02	3.3	0.1	<0.05	7	<0.5	<0.2
ROS 147087	Soil	9	41	0.42	314	0.049	<1	1.93	0.009	0.06	0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165652	Soil	20	32	0.93	177	0.035	<1	1.48	0.013	0.03	0.2	0.16	4.6	0.1	0.06	4	<0.5	<0.2
ROS 165653	Soil	16	25	0.90	242	0.025	<1	1.37	0.013	0.03	0.2	0.13	3.2	<0.1	0.06	4	<0.5	<0.2
ROS 165651	Soil	28	35	0.29	158	0.036	1	1.41	0.007	0.03	0.4	0.15	7.9	0.1	<0.05	4	1.0	<0.2
ROS 165675	Soil	43	47	0.53	205	0.078	<1	2.04	0.016	0.08	0.2	0.04	6.7	<0.1	<0.05	7	<0.5	<0.2
ROS 165666	Soil	20	38	0.64	268	0.093	<1	1.93	0.017	0.05	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165671	Soil	16	37	0.58	209	0.085	2	1.64	0.017	0.07	0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
ROS 165674	Soil	31	149	1.41	186	0.051	2	2.43	0.015	0.07	0.2	0.09	8.3	<0.1	<0.05	10	<0.5	<0.2
ROS 165665	Soil	15	38	0.62	267	0.097	2	1.79	0.021	0.19	0.2	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165667	Soil	12	35	0.52	284	0.069	<1	1.87	0.013	0.12	0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 165664	Soil	14	35	0.58	266	0.085	<1	1.82	0.023	0.07	0.2	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 141737	Soil	0.7	32.9	10.0	55	0.3	20.6	8.7	621	2.34	5.4	2.4	2.1	4.0	53	0.2	0.8	0.2	48	1.39	0.047
ROS 141730	Soil	1.0	25.2	10.2	67	0.1	33.4	13.9	417	3.39	11.8	0.5	1.7	5.4	34	<0.1	0.7	0.2	74	0.51	0.015
ROS 141735	Soil	1.4	18.5	10.6	51	0.1	16.0	7.4	348	2.37	6.7	0.8	2.4	4.6	24	<0.1	0.7	0.2	51	0.36	0.031
ROS 141732	Soil	2.9	14.7	15.6	68	<0.1	14.9	6.6	435	2.88	5.8	1.0	1.1	13.7	21	0.1	0.7	0.2	45	0.43	0.023
ROS 141734	Soil	1.6	25.2	15.7	62	0.2	18.4	9.1	343	2.76	8.0	1.1	2.3	6.2	30	<0.1	1.4	0.2	59	0.54	0.034
ROS 141738	Soil	0.7	30.7	14.0	80	0.1	21.1	9.5	447	2.91	9.6	1.0	4.7	8.8	34	0.1	1.3	0.2	58	1.04	0.062
ROS 141736	Soil	1.5	21.1	13.3	62	<0.1	16.2	7.0	343	2.50	6.5	1.1	3.2	14.6	21	<0.1	0.9	0.2	50	0.36	0.033
ROS 141731	Soil	1.9	39.6	14.4	94	0.1	23.9	11.5	705	3.44	8.3	1.3	0.9	11.3	24	<0.1	1.2	0.3	54	0.41	0.020
ROS 159396	Soil	0.9	22.6	10.4	79	<0.1	14.8	8.8	307	2.93	6.5	2.6	2.3	17.2	32	0.1	0.4	0.2	52	0.41	0.072
ROS 159395	Soil	1.1	16.9	8.9	60	<0.1	15.4	8.9	346	2.61	6.0	2.0	7.3	7.5	40	0.1	0.4	0.2	54	0.44	0.056
ROS 159394	Soil	0.7	22.1	8.1	66	<0.1	16.5	7.4	283	2.41	6.1	1.8	2.4	7.3	32	0.1	0.5	0.2	52	0.40	0.060
ROS 159393	Soil	0.7	24.2	7.9	61	0.1	19.8	9.0	412	2.45	6.7	1.5	2.8	5.0	35	0.1	0.5	0.2	57	0.45	0.063
ROS 159392	Soil	0.7	27.5	8.2	58	0.1	22.0	9.4	317	2.41	7.3	1.1	2.9	4.7	33	0.2	0.6	0.2	53	0.42	0.061
ROS 159390	Soil	1.1	17.7	8.9	68	0.1	14.3	8.1	265	2.88	7.7	2.1	6.1	7.9	31	0.2	0.5	0.2	59	0.38	0.068
ROS 159387	Soil	0.9	12.9	7.3	56	<0.1	12.8	7.5	247	2.46	5.6	1.1	7.6	5.4	23	0.1	0.4	0.2	54	0.27	0.044
ROS 159386	Soil	1.0	12.4	9.3	81	<0.1	11.0	10.7	844	3.18	5.2	2.0	8.1	8.1	25	0.1	0.5	0.5	61	0.33	0.069
ROS 147313	Soil	0.6	33.1	10.5	118	<0.1	29.3	16.4	580	4.09	6.7	2.5	14.8	15.1	65	<0.1	1.2	0.2	78	0.70	0.074
ROS 147314	Soil	0.8	28.5	12.2	69	<0.1	21.2	8.6	407	2.79	7.5	1.3	12.3	11.1	31	<0.1	0.7	0.3	58	0.43	0.040
ROS 147288	Soil	1.1	28.0	15.7	68	0.4	22.8	9.3	360	2.79	10.3	1.2	9.6	8.6	30	0.2	2.0	0.2	59	0.57	0.026
ROS 147287	Soil	1.2	16.6	32.1	110	0.2	9.8	8.8	329	3.42	5.8	1.7	<0.5	7.7	17	0.3	3.2	0.2	54	0.40	0.044
ROS 147312	Soil	0.8	18.7	11.7	84	0.1	22.4	10.2	436	3.19	9.4	1.8	1.9	22.9	25	<0.1	0.7	0.3	62	0.33	0.071
ROS 147311	Soil	0.5	14.3	7.0	83	<0.1	8.8	5.9	279	2.76	3.5	1.0	1.3	7.1	42	<0.1	0.5	0.1	49	0.44	0.080
ROS 147284	Soil	1.3	26.1	22.7	187	0.1	20.0	16.1	1400	5.41	15.9	0.7	0.9	8.7	27	0.5	3.0	<0.1	98	0.98	0.075
ROS 147289	Soil	1.5	29.6	19.9	79	0.5	24.0	10.3	544	3.25	6.7	1.1	6.7	7.7	32	0.4	2.7	0.2	53	0.79	0.024
ROS 147286	Soil	0.8	28.0	14.6	227	<0.1	14.5	20.1	710	5.51	19.4	0.8	<0.5	5.1	43	0.3	5.3	<0.1	129	0.91	0.182
ROS 147285	Soil	0.5	29.5	22.5	137	0.2	16.5	14.1	1069	4.37	5.3	0.6	1.8	7.2	40	0.3	5.2	<0.1	107	1.12	0.110
ROS 147283	Soil	0.6	23.7	14.9	133	0.1	20.1	12.1	927	4.46	4.8	0.8	1.5	4.2	66	0.4	2.3	<0.1	71	4.00	0.061
ROS 147290	Soil	1.2	33.2	18.7	89	1.1	12.9	7.4	518	2.27	23.2	0.8	25.9	4.8	32	0.4	3.5	0.2	34	2.66	0.051
ROS 141739	Soil	0.7	35.8	13.4	76	<0.1	17.8	10.9	492	3.31	5.0	1.8	5.1	22.8	23	<0.1	1.0	0.1	52	0.69	0.043
ROS 141740	Soil	0.6	35.7	13.0	74	<0.1	13.8	10.6	479	3.28	4.0	1.7	5.8	23.2	25	<0.1	0.9	0.1	51	1.02	0.050

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 141737	Soil	21	24	0.48	435	0.051	2	1.45	0.022	0.12	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 141730	Soil	18	57	0.93	288	0.125	1	2.28	0.021	0.12	0.2	0.05	6.2	<0.1	<0.05	6	<0.5	<0.2
ROS 141735	Soil	22	24	0.40	293	0.049	1	1.64	0.011	0.10	0.2	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 141732	Soil	14	27	0.30	234	0.042	1	1.72	0.010	0.14	0.2	0.03	4.3	0.1	<0.05	5	<0.5	<0.2
ROS 141734	Soil	21	31	0.53	319	0.065	1	1.65	0.016	0.12	0.2	0.09	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 141738	Soil	33	29	0.57	267	0.059	2	1.40	0.020	0.12	0.4	0.06	5.4	<0.1	<0.05	5	0.5	<0.2
ROS 141736	Soil	37	23	0.41	273	0.060	1	1.50	0.013	0.15	0.2	0.03	4.7	0.1	<0.05	5	<0.5	<0.2
ROS 141731	Soil	36	42	0.88	279	0.107	1	1.83	0.010	0.38	0.2	0.04	5.9	0.2	<0.05	7	0.6	<0.2
ROS 159396	Soil	32	23	0.57	210	0.104	1	1.74	0.018	0.29	0.1	0.03	4.5	0.2	<0.05	6	<0.5	<0.2
ROS 159395	Soil	32	26	0.45	267	0.084	<1	1.94	0.014	0.08	0.2	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 159394	Soil	23	27	0.46	275	0.089	<1	1.68	0.018	0.08	0.2	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159393	Soil	18	30	0.47	292	0.085	<1	1.60	0.021	0.06	0.2	0.04	4.5	<0.1	<0.05	5	0.6	<0.2
ROS 159392	Soil	18	27	0.46	297	0.078	2	1.55	0.020	0.06	0.2	0.04	4.2	<0.1	<0.05	5	0.5	<0.2
ROS 159390	Soil	31	26	0.48	266	0.080	1	1.91	0.015	0.12	0.2	0.04	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 159387	Soil	20	24	0.43	196	0.081	1	1.63	0.015	0.08	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 159386	Soil	33	21	0.64	230	0.071	2	1.98	0.013	0.12	0.2	0.04	5.2	0.1	<0.05	8	<0.5	<0.2
ROS 147313	Soil	31	53	1.10	196	0.148	1	2.89	0.011	0.53	0.2	0.06	8.0	0.3	<0.05	10	<0.5	<0.2
ROS 147314	Soil	25	35	0.61	242	0.102	2	1.71	0.022	0.12	0.2	0.06	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 147288	Soil	46	30	0.49	471	0.071	2	1.44	0.023	0.09	0.2	0.12	5.8	<0.1	<0.05	4	0.6	<0.2
ROS 147287	Soil	10	16	0.24	217	0.012	1	1.17	0.007	0.13	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147312	Soil	38	33	0.60	210	0.099	2	1.89	0.011	0.42	0.2	0.04	5.3	0.3	<0.05	7	<0.5	<0.2
ROS 147311	Soil	20	12	0.70	114	0.096	<1	1.77	0.009	0.41	0.1	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 147284	Soil	58	18	0.44	295	0.012	<1	1.30	0.006	0.08	<0.1	0.15	10.2	<0.1	<0.05	7	0.6	<0.2
ROS 147289	Soil	34	35	0.41	467	0.044	3	1.48	0.018	0.14	0.2	0.11	5.6	<0.1	<0.05	4	0.6	<0.2
ROS 147286	Soil	8	30	1.43	295	0.036	1	2.48	0.015	0.09	0.1	0.11	10.2	<0.1	<0.05	16	<0.5	<0.2
ROS 147285	Soil	27	22	0.70	190	0.005	1	1.78	0.008	0.05	0.1	0.07	12.3	<0.1	<0.05	10	<0.5	<0.2
ROS 147283	Soil	27	18	1.09	361	0.017	1	1.13	0.011	0.05	0.2	0.11	7.1	<0.1	<0.05	4	0.8	<0.2
ROS 147290	Soil	18	12	0.29	324	0.005	3	0.83	0.008	0.14	0.2	0.31	3.0	<0.1	<0.05	3	0.5	<0.2
ROS 141739	Soil	59	20	0.72	230	0.084	<1	1.61	0.013	0.20	0.3	0.04	5.3	0.3	<0.05	6	<0.5	<0.2
ROS 141740	Soil	61	18	0.71	223	0.085	<1	1.65	0.011	0.22	0.3	0.04	5.7	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 141729	Soil		1.0	37.4	9.0	54	0.1	23.2	9.5	393	2.30	10.8	0.7	4.4	4.4	92	0.2	0.6	0.1	53	4.12	0.074
ROS 141733	Soil		0.8	31.5	9.0	50	<0.1	25.7	10.1	350	2.44	9.8	0.5	4.8	4.2	33	<0.1	0.7	0.1	58	0.73	0.038
ROS 147335	Soil		0.9	13.4	10.4	52	0.1	21.5	8.9	435	2.57	5.7	0.5	0.9	3.7	23	0.1	0.5	0.2	66	0.29	0.037
ROS 147437	Soil		0.8	33.9	7.0	64	<0.1	22.1	9.5	396	2.67	6.0	0.7	4.0	9.8	22	<0.1	0.7	0.2	55	0.39	0.031
ROS 147441	Soil		0.6	36.8	11.5	60	<0.1	26.8	10.1	402	2.59	7.6	0.8	2.9	5.9	36	<0.1	0.8	0.2	56	0.71	0.056
ROS 147447	Soil		1.0	44.6	9.8	62	0.2	33.5	12.5	436	2.73	9.4	0.7	4.7	4.8	59	0.1	0.9	0.2	67	2.80	0.059
ROS 147334	Soil		0.9	39.8	11.0	74	0.3	23.5	10.0	294	2.99	7.9	0.6	2.5	5.3	28	<0.1	0.7	0.2	73	0.30	0.051
ROS 147438	Soil		0.5	20.5	6.4	35	<0.1	15.0	6.4	239	1.60	4.8	0.6	3.0	5.9	20	<0.1	0.5	0.1	37	0.31	0.021
ROS 147442	Soil		0.8	35.2	11.6	61	0.2	26.5	10.2	437	2.60	8.0	0.9	2.5	6.5	39	0.1	1.1	0.2	55	0.89	0.059
ROS 147444	Soil		0.8	24.6	8.9	49	<0.1	21.6	8.1	293	2.46	6.5	1.0	3.3	5.1	34	<0.1	0.6	0.1	57	0.52	0.032
ROS 147336	Soil		1.4	13.2	12.1	49	0.1	17.4	10.3	446	2.49	5.0	0.4	<0.5	3.3	22	0.1	0.4	0.1	65	0.33	0.036
ROS 173291	Soil		0.9	37.9	13.7	82	0.2	91.5	18.0	1027	3.83	5.3	1.0	0.9	9.1	32	0.1	0.8	0.4	68	0.53	0.030
ROS 147439	Soil		0.5	27.7	9.6	50	0.1	22.5	8.5	314	2.33	7.2	1.0	3.3	5.0	41	<0.1	0.7	0.2	52	0.74	0.049
ROS 147445	Soil		1.1	41.7	13.4	75	0.3	24.2	10.6	440	2.84	6.8	1.1	6.8	6.7	38	<0.1	2.1	0.3	58	0.62	0.054
ROS 147333	Soil		0.9	14.7	9.9	53	0.2	22.9	10.6	481	2.53	6.3	0.6	<0.5	4.8	24	<0.1	0.6	0.1	65	0.28	0.023
ROS 173290	Soil		0.9	36.8	7.9	57	0.3	26.4	11.0	717	2.37	4.4	1.1	2.8	5.0	63	0.2	0.6	0.2	49	1.23	0.069
ROS 147440	Soil		0.6	37.8	9.2	50	0.1	28.2	9.1	350	2.56	8.4	0.5	6.1	4.8	37	<0.1	0.8	0.2	61	0.73	0.052
ROS 147446	Soil		0.9	34.4	9.0	54	0.1	27.2	10.5	382	2.47	8.8	0.6	2.5	4.8	53	<0.1	0.8	0.1	60	1.82	0.055
ROS 147337	Soil		0.8	29.6	10.6	46	0.2	21.6	9.4	378	2.73	6.8	1.3	4.1	5.3	29	<0.1	0.6	0.2	60	0.51	0.035
ROS 147329	Soil		1.1	26.4	16.2	62	0.1	20.0	8.1	407	2.15	7.6	0.9	22.5	4.7	29	0.1	0.8	0.1	45	1.83	0.031
ROS 147325	Soil		0.7	24.2	11.6	51	<0.1	25.3	10.1	312	2.73	9.0	0.9	4.7	4.9	23	<0.1	0.6	0.2	66	0.84	0.016
ROS 147331	Soil		0.9	26.9	10.4	114	<0.1	22.8	11.4	637	3.10	4.8	0.9	2.9	12.1	38	0.1	0.7	0.2	68	0.36	0.053
ROS 147332	Soil		0.9	14.4	9.5	58	0.3	22.2	11.8	1240	2.48	4.1	0.4	<0.5	3.7	30	<0.1	0.5	0.1	66	0.32	0.043
ROS 147327	Soil		0.6	22.2	12.8	65	0.2	23.0	7.9	299	2.16	5.6	0.7	17.2	2.5	36	0.2	0.5	0.2	57	2.11	0.038
ROS 147328	Soil		1.4	23.8	10.0	47	0.1	41.0	6.1	202	1.90	3.4	0.4	5.8	4.4	11	<0.1	0.3	0.1	39	0.21	0.015
ROS 147326	Soil		0.8	15.8	12.1	43	<0.1	16.1	7.4	199	2.55	6.9	0.6	6.1	5.3	17	<0.1	0.6	0.2	60	0.21	0.014
ROS 165543	Soil		0.9	18.9	6.8	58	<0.1	13.4	9.8	385	2.20	3.5	1.4	2.1	4.1	31	0.2	0.3	<0.1	49	0.43	0.066
ROS 165540	Soil		0.8	28.4	8.9	53	0.1	22.5	8.7	350	2.22	5.8	2.1	15.4	4.9	44	0.2	0.9	0.2	51	0.75	0.051
ROS 165539	Soil		2.0	35.8	9.4	52	0.1	28.5	10.7	975	2.22	6.6	3.7	<0.5	3.0	98	0.1	1.0	0.1	50	1.39	0.070
ROS 165575	Soil		0.9	21.6	9.5	58	<0.1	23.5	9.3	313	2.90	9.3	0.5	1.4	4.1	23	<0.1	0.6	0.1	71	0.25	0.037

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Project: ROS
 Report Date: November 06, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 141729	Soil	15	28	0.84	248	0.075	2	1.13	0.029	0.09	0.2	0.06	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 141733	Soil	16	30	0.55	240	0.062	1	1.31	0.023	0.06	0.3	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 147335	Soil	9	36	0.47	276	0.058	<1	1.82	0.010	0.09	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 147437	Soil	15	25	0.92	176	0.083	<1	1.59	0.023	0.10	<0.1	0.04	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 147441	Soil	16	32	0.63	263	0.078	1	1.55	0.030	0.08	0.1	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147447	Soil	18	36	0.73	294	0.082	2	1.55	0.026	0.08	0.2	0.09	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 147334	Soil	12	45	0.72	250	0.092	1	2.05	0.011	0.12	0.1	0.03	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 147438	Soil	12	23	0.33	138	0.058	<1	1.03	0.015	0.06	0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
ROS 147442	Soil	21	31	0.59	334	0.070	1	1.58	0.028	0.09	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 147444	Soil	15	32	0.57	289	0.077	<1	1.53	0.024	0.05	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 147336	Soil	9	34	0.39	442	0.059	2	1.79	0.012	0.06	0.2	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173291	Soil	36	97	1.46	338	0.094	1	2.41	0.016	0.26	0.3	0.04	5.8	0.1	<0.05	9	<0.5	<0.2
ROS 147439	Soil	16	28	0.52	262	0.065	2	1.47	0.029	0.06	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 147445	Soil	22	32	0.73	266	0.071	1	1.77	0.025	0.14	0.2	0.12	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147333	Soil	13	38	0.46	263	0.070	1	1.79	0.013	0.07	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173290	Soil	28	38	0.68	381	0.085	3	1.46	0.024	0.17	0.2	0.04	3.2	<0.1	<0.05	5	0.6	<0.2
ROS 147440	Soil	16	32	0.59	263	0.084	1	1.54	0.032	0.07	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 147446	Soil	16	31	0.66	276	0.085	2	1.32	0.029	0.07	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 147337	Soil	18	33	0.53	337	0.078	<1	1.53	0.024	0.07	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 147329	Soil	19	23	0.35	206	0.027	<1	1.24	0.012	0.08	0.2	0.18	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 147325	Soil	19	39	0.71	226	0.064	<1	1.90	0.018	0.05	0.1	0.11	5.5	<0.1	<0.05	5	0.6	<0.2
ROS 147331	Soil	12	42	0.67	274	0.078	<1	2.30	0.013	0.09	0.2	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2
ROS 147332	Soil	11	37	0.45	349	0.058	<1	1.82	0.013	0.07	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 147327	Soil	13	34	1.16	305	0.030	1	1.94	0.013	0.06	0.3	0.49	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 147328	Soil	8	48	0.55	208	0.025	<1	1.38	0.008	0.13	0.7	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
ROS 147326	Soil	12	35	0.45	223	0.047	<1	1.72	0.009	0.05	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165543	Soil	16	22	0.53	191	0.085	<1	1.20	0.015	0.17	0.3	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 165540	Soil	16	28	0.47	258	0.075	1	1.31	0.023	0.08	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 165539	Soil	15	29	0.53	392	0.058	2	1.38	0.023	0.07	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165575	Soil	9	46	0.65	242	0.111	<1	1.88	0.010	0.13	0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 147122	Soil	0.5	21.8	5.1	78	<0.1	14.0	8.1	367	2.03	5.0	0.5	1.5	2.7	22	<0.1	0.3	<0.1	44	0.25	0.045
ROS 165574	Soil	0.5	13.5	4.9	53	<0.1	12.3	6.6	417	2.03	4.1	0.6	<0.5	5.1	24	<0.1	0.3	<0.1	43	0.23	0.039
ROS 147120	Soil	0.4	9.9	4.1	35	<0.1	12.3	7.6	396	1.80	2.0	0.6	<0.5	7.1	14	<0.1	0.3	<0.1	32	0.25	0.049
ROS 147121	Soil	0.5	17.8	6.6	81	<0.1	17.8	8.6	290	2.58	4.3	0.4	<0.5	2.6	27	<0.1	0.3	<0.1	61	0.23	0.053
ROS 147118	Soil	0.4	16.3	6.6	110	<0.1	19.8	11.7	454	3.11	7.2	0.8	2.6	4.5	37	<0.1	0.4	<0.1	68	0.66	0.134
ROS 147119	Soil	0.2	18.4	3.1	56	<0.1	12.7	11.2	737	2.45	2.7	0.5	2.2	3.2	17	<0.1	0.4	<0.1	58	0.49	0.070
ROS 147117	Soil	0.6	19.7	4.6	92	<0.1	16.9	14.3	1014	4.26	6.6	0.6	1.4	2.8	46	<0.1	0.3	<0.1	84	0.58	0.072
ROS 147116	Soil	0.7	9.9	5.5	42	<0.1	14.3	7.2	572	2.10	5.6	0.4	1.3	5.6	16	<0.1	0.3	<0.1	46	0.22	0.031
ROS 147115	Soil	1.0	40.7	16.0	75	0.2	30.8	12.0	390	3.17	10.5	1.0	9.7	12.8	31	<0.1	1.0	0.2	70	0.38	0.019
ROS 147306	Soil	1.8	22.7	43.4	112	0.5	10.0	4.9	172	1.86	10.9	0.6	1.9	5.4	16	0.3	1.7	2.6	31	0.14	0.021
ROS 141743	Soil	0.7	20.5	10.6	51	<0.1	25.1	11.2	462	2.75	9.7	0.6	2.5	6.0	25	<0.1	0.6	0.2	63	0.48	0.017
ROS 141744	Soil	1.0	15.6	12.6	76	<0.1	19.6	9.7	403	3.09	8.5	0.9	1.4	8.6	19	0.1	0.9	0.2	70	0.40	0.061
ROS 147315	Soil	0.6	24.7	12.5	127	<0.1	21.9	17.6	609	4.36	10.2	1.4	9.2	19.8	58	0.1	2.4	<0.1	95	0.75	0.053
ROS 141742	Soil	0.8	26.9	11.0	105	0.1	13.4	14.4	799	4.35	4.3	1.0	4.6	7.2	18	<0.1	1.6	0.1	97	0.59	0.063
ROS 141741	Soil	0.9	26.3	11.9	104	0.1	12.9	13.5	754	4.18	4.3	1.0	4.5	7.4	18	<0.1	1.6	0.1	90	0.62	0.061
ROS 141745	Soil	1.0	27.0	10.7	98	<0.1	21.8	14.6	679	3.99	7.1	1.2	1.5	16.8	30	<0.1	1.3	0.1	81	0.64	0.071
ROS 141748	Soil	1.0	17.8	10.8	61	<0.1	25.3	10.2	248	3.12	9.6	0.8	1.6	11.0	20	<0.1	0.6	0.2	72	0.27	0.023
ROS 141749	Soil	0.9	69.6	6.5	73	<0.1	23.8	23.9	837	4.34	6.5	0.8	2.9	9.6	32	<0.1	0.8	0.1	122	0.61	0.029
ROS 141747	Soil	0.5	25.8	8.3	80	<0.1	23.7	11.6	580	2.91	7.1	0.8	3.2	5.8	122	0.2	0.9	0.1	69	3.28	0.090
ROS 141746	Soil	0.6	25.0	8.2	74	<0.1	24.1	11.0	542	2.84	7.4	0.8	2.8	5.8	115	0.1	0.9	0.1	68	3.38	0.079



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Project: ROS
 Report Date: November 06, 2010

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CERTIFICATE OF ANALYSIS

WHI10000592.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 147122	Soil	9	20	0.48	174	0.110	<1	1.22	0.011	0.30	<0.1	0.02	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 165574	Soil	9	22	0.59	157	0.112	<1	1.29	0.009	0.33	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 147120	Soil	17	23	0.64	135	0.063	<1	1.30	0.007	0.34	<0.1	0.01	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 147121	Soil	7	28	0.70	226	0.123	<1	1.72	0.010	0.40	0.1	<0.01	2.0	0.2	<0.05	6	<0.5	<0.2
ROS 147118	Soil	20	27	0.98	152	0.084	1	1.64	0.015	0.23	0.1	0.06	3.1	<0.1	<0.05	8	<0.5	<0.2
ROS 147119	Soil	15	26	1.37	681	0.105	<1	1.83	0.005	0.27	<0.1	0.04	5.7	0.1	<0.05	7	<0.5	<0.2
ROS 147117	Soil	13	20	1.73	342	0.176	1	2.85	0.010	1.05	<0.1	0.02	4.3	0.3	<0.05	9	<0.5	<0.2
ROS 147116	Soil	13	25	0.41	283	0.049	<1	1.49	0.008	0.16	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147115	Soil	30	40	0.67	237	0.087	<1	2.08	0.013	0.11	0.2	0.09	5.7	<0.1	<0.05	7	<0.5	<0.2
ROS 147306	Soil	9	17	0.19	251	0.012	1	1.14	0.004	0.09	0.2	0.04	1.3	0.1	<0.05	3	<0.5	<0.2
ROS 141743	Soil	19	34	0.49	293	0.072	<1	1.62	0.017	0.09	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 141744	Soil	23	33	0.53	222	0.042	1	1.80	0.008	0.12	0.2	0.03	5.3	<0.1	<0.05	7	<0.5	<0.2
ROS 147315	Soil	37	34	1.39	233	0.119	<1	2.90	0.007	0.28	0.2	0.15	5.0	0.2	<0.05	12	<0.5	<0.2
ROS 141742	Soil	26	15	1.06	265	0.089	<1	1.81	0.007	0.30	0.2	0.03	8.4	0.2	<0.05	8	<0.5	<0.2
ROS 141741	Soil	31	15	1.00	258	0.082	1	1.73	0.007	0.28	0.2	0.04	8.0	0.2	<0.05	7	<0.5	<0.2
ROS 141745	Soil	23	34	0.59	168	0.030	<1	2.19	0.007	0.20	0.3	0.03	7.3	<0.1	<0.05	9	<0.5	<0.2
ROS 141748	Soil	16	40	0.59	196	0.073	<1	2.06	0.010	0.10	0.2	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 141749	Soil	43	31	1.38	285	0.137	<1	2.57	0.015	0.39	0.1	0.04	9.4	0.2	<0.05	7	<0.5	<0.2
ROS 141747	Soil	20	28	0.89	238	0.065	2	1.44	0.021	0.12	0.3	0.03	4.8	0.1	<0.05	6	<0.5	<0.2
ROS 141746	Soil	19	30	0.82	235	0.065	2	1.46	0.020	0.11	0.2	0.04	4.7	<0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI10000592.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 159111	Soil	0.5	13.9	7.3	62	0.1	10.0	4.0	140	2.20	4.9	1.2	2.7	2.0	22	0.2	0.2	0.3	39	0.16	0.048
REP ROS 159111	QC	0.6	13.8	7.5	68	0.1	10.2	4.5	140	2.12	5.2	1.2	2.9	2.0	23	0.1	0.2	0.2	39	0.16	0.047
ROS 147177	Soil	0.6	29.6	7.9	54	0.1	23.0	10.0	379	2.36	7.5	0.9	6.1	5.0	35	0.1	0.5	0.1	48	0.53	0.060
REP ROS 147177	QC	0.6	29.6	7.7	52	0.1	23.3	9.4	367	2.25	7.4	0.9	3.7	4.8	34	0.1	0.5	0.1	47	0.54	0.059
ROS 147176	Soil	0.3	19.7	8.7	56	0.2	15.1	6.9	369	1.75	3.6	2.0	7.4	4.0	43	0.1	0.7	0.2	36	1.24	0.057
REP ROS 147176	QC	0.3	19.9	8.6	54	0.2	15.0	6.8	355	1.70	3.5	1.9	6.7	4.1	41	0.1	0.7	0.1	35	1.22	0.057
ROS 163685	Soil	3.8	64.0	15.1	154	0.3	26.3	8.1	345	4.30	3.5	4.7	1.4	8.7	67	0.5	0.2	0.3	98	0.26	0.072
REP ROS 163685	QC	4.2	66.1	15.5	156	0.3	26.3	8.2	347	4.40	3.4	5.0	1.0	8.9	69	0.5	0.2	0.3	100	0.26	0.074
ROS 147211	Soil	0.9	46.3	4.6	113	<0.1	15.9	15.0	498	3.90	7.9	0.4	<0.5	2.0	58	<0.1	0.4	<0.1	123	0.61	0.096
REP ROS 147211	QC	1.0	44.6	4.6	114	<0.1	15.9	15.8	489	3.89	8.0	0.5	<0.5	2.0	58	<0.1	0.5	<0.1	121	0.59	0.098
ROS 173499	Soil	1.0	20.0	8.6	54	<0.1	23.8	11.8	573	2.91	7.3	1.1	0.6	5.5	24	<0.1	0.5	0.1	63	0.37	0.026
REP ROS 173499	QC	1.0	21.6	9.1	57	0.1	22.7	12.6	590	2.94	7.2	1.0	1.2	5.2	23	0.1	0.6	0.1	63	0.36	0.027
ROS 147212	Soil	0.3	39.4	4.2	137	<0.1	74.8	15.4	575	3.47	4.7	0.5	1.3	3.5	56	<0.1	0.2	<0.1	93	0.80	0.090
REP ROS 147212	QC	0.3	38.8	4.3	137	<0.1	77.1	15.5	549	3.32	4.8	0.5	1.1	3.3	54	<0.1	0.2	<0.1	91	0.80	0.085
ROS 173166	Soil	0.8	24.7	9.2	53	<0.1	17.9	7.8	438	2.57	6.2	1.7	3.5	8.3	26	<0.1	0.4	0.2	58	0.45	0.045
REP ROS 173166	QC	0.6	25.1	9.0	58	<0.1	18.8	8.1	441	2.55	6.3	1.7	1.3	8.4	27	0.1	0.4	0.2	59	0.43	0.046
ROS 163680	Soil	1.0	143.5	8.4	82	0.4	9.5	5.5	241	3.67	3.8	0.7	5.1	4.1	29	<0.1	0.2	0.9	61	0.21	0.037
REP ROS 163680	QC	1.0	147.9	8.5	83	0.3	9.3	5.7	249	3.87	3.8	0.7	4.5	4.2	29	<0.1	0.2	0.9	62	0.22	0.038
ROS 147151	Soil	1.4	52.3	7.0	117	<0.1	8.4	8.8	397	2.92	2.0	0.8	1.4	7.6	17	<0.1	0.4	0.2	45	0.32	0.031
REP ROS 147151	QC	1.6	52.5	7.0	121	<0.1	8.6	8.9	397	2.98	2.2	0.8	1.5	7.6	18	<0.1	0.4	0.2	47	0.32	0.030
ROS 141771	Soil	0.7	30.7	11.5	60	<0.1	19.1	8.1	261	2.77	6.5	1.1	3.8	13.4	22	<0.1	0.7	0.2	54	0.31	0.024
REP ROS 141771	QC	0.7	29.3	11.4	61	<0.1	17.7	7.8	257	2.68	5.9	1.2	5.2	12.5	22	<0.1	0.7	0.1	53	0.30	0.022
ROS 164833	Soil	0.6	20.9	10.2	82	<0.1	10.9	8.7	439	2.77	3.9	1.5	1.7	7.9	28	0.1	0.4	0.3	54	0.47	0.070
REP ROS 164833	QC	0.7	20.7	10.1	81	<0.1	11.5	8.6	445	2.83	3.6	1.4	1.7	7.6	28	0.1	0.4	0.3	53	0.45	0.071
ROS 159388	Soil	0.7	19.7	8.2	70	<0.1	13.4	9.9	480	2.87	6.2	1.1	3.8	5.9	25	<0.1	0.5	0.2	58	0.35	0.084
REP ROS 159388	QC	0.8	19.4	8.0	67	<0.1	13.0	9.8	468	2.87	6.2	1.2	4.4	6.1	25	<0.1	0.4	0.2	56	0.34	0.086
ROS 141737	Soil	0.7	32.9	10.0	55	0.3	20.6	8.7	621	2.34	5.4	2.4	2.1	4.0	53	0.2	0.8	0.2	48	1.39	0.047
REP ROS 141737	QC	0.8	34.5	10.0	58	0.3	21.6	9.5	637	2.46	5.8	2.7	2.5	4.0	56	0.1	0.8	0.2	50	1.48	0.049

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 159111	Soil	12	19	0.38	126	0.063	<1	1.36	0.010	0.06	0.2	0.04	2.0	<0.1	<0.05	5	0.6	<0.2
REP ROS 159111	QC	12	20	0.36	127	0.062	<1	1.40	0.014	0.07	0.1	0.04	2.2	<0.1	<0.05	5	0.5	<0.2
ROS 147177	Soil	19	27	0.52	310	0.070	1	1.47	0.021	0.06	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
REP ROS 147177	QC	19	26	0.49	313	0.061	<1	1.40	0.021	0.07	0.2	0.03	3.3	<0.1	<0.05	4	0.5	<0.2
ROS 147176	Soil	18	22	0.43	309	0.046	3	1.07	0.017	0.07	0.2	0.09	2.9	<0.1	0.09	4	0.9	<0.2
REP ROS 147176	QC	19	22	0.42	321	0.046	3	1.08	0.016	0.07	0.2	0.08	2.8	<0.1	0.09	4	0.7	<0.2
ROS 163685	Soil	26	79	1.35	348	0.131	1	2.41	0.061	0.62	<0.1	0.01	5.6	0.5	0.50	8	2.1	<0.2
REP ROS 163685	QC	28	80	1.36	343	0.131	<1	2.48	0.064	0.65	<0.1	0.01	5.6	0.5	0.53	8	1.8	<0.2
ROS 147211	Soil	7	28	1.41	225	0.233	<1	2.75	0.015	0.35	<0.1	0.02	4.3	0.2	<0.05	11	<0.5	<0.2
REP ROS 147211	QC	7	28	1.40	225	0.224	<1	2.75	0.014	0.35	0.1	0.02	4.2	0.1	<0.05	11	0.9	<0.2
ROS 173499	Soil	19	31	0.67	295	0.098	2	1.65	0.014	0.13	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 173499	QC	18	33	0.66	297	0.095	<1	1.64	0.013	0.14	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 147212	Soil	16	125	1.97	185	0.191	<1	2.44	0.019	0.23	<0.1	0.03	3.9	0.1	<0.05	10	<0.5	<0.2
REP ROS 147212	QC	16	123	1.95	184	0.188	<1	2.44	0.018	0.23	<0.1	0.04	3.5	0.1	<0.05	10	<0.5	<0.2
ROS 173166	Soil	29	30	0.48	164	0.082	1	1.57	0.015	0.09	0.1	0.05	4.0	<0.1	<0.05	6	<0.5	<0.2
REP ROS 173166	QC	30	28	0.48	166	0.085	1	1.59	0.011	0.10	0.1	0.05	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 163680	Soil	17	15	0.83	295	0.078	<1	1.79	0.045	0.51	<0.1	0.02	4.5	0.3	0.43	6	<0.5	<0.2
REP ROS 163680	QC	17	16	0.84	294	0.082	<1	1.82	0.043	0.53	<0.1	0.01	4.8	0.3	0.46	6	0.7	0.3
ROS 147151	Soil	9	20	1.01	134	0.073	<1	1.69	0.009	0.33	<0.1	0.02	3.4	0.2	<0.05	9	<0.5	<0.2
REP ROS 147151	QC	10	20	1.03	145	0.075	<1	1.67	0.012	0.34	<0.1	0.03	3.5	0.2	<0.05	8	<0.5	<0.2
ROS 141771	Soil	29	30	0.45	173	0.083	<1	1.46	0.013	0.09	0.1	0.05	4.6	<0.1	<0.05	5	<0.5	0.2
REP ROS 141771	QC	28	29	0.42	168	0.078	<1	1.38	0.011	0.09	0.1	0.07	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164833	Soil	24	19	0.65	160	0.108	<1	1.46	0.015	0.42	0.2	0.03	4.3	0.3	<0.05	6	<0.5	<0.2
REP ROS 164833	QC	24	19	0.64	151	0.102	<1	1.48	0.014	0.40	0.2	0.03	4.2	0.2	<0.05	5	<0.5	0.2
ROS 159388	Soil	23	22	0.62	225	0.076	<1	1.73	0.014	0.16	0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
REP ROS 159388	QC	22	22	0.63	221	0.072	<1	1.70	0.013	0.16	0.2	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
ROS 141737	Soil	21	24	0.48	435	0.051	2	1.45	0.022	0.12	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 141737	QC	22	26	0.51	452	0.059	3	1.54	0.024	0.13	0.2	0.04	3.8	<0.1	<0.05	5	0.6	<0.2

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Project: ROS
 Report Date: November 06, 2010

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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 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 147283	Soil	0.6	23.7	14.9	133	0.1	20.1	12.1	927	4.46	4.8	0.8	1.5	4.2	66	0.4	2.3	<0.1	71	4.00	0.061
REP ROS 147283	QC	0.6	23.3	14.5	129	0.1	20.0	11.4	895	4.28	4.5	0.8	2.0	4.0	64	0.4	2.3	<0.1	70	3.91	0.060
ROS 147333	Soil	0.9	14.7	9.9	53	0.2	22.9	10.6	481	2.53	6.3	0.6	<0.5	4.8	24	<0.1	0.6	0.1	65	0.28	0.023
REP ROS 147333	QC	0.8	14.9	9.5	52	0.2	23.1	10.8	487	2.48	6.0	0.5	<0.5	4.9	23	<0.1	0.6	0.1	62	0.27	0.024
ROS 165574	Soil	0.5	13.5	4.9	53	<0.1	12.3	6.6	417	2.03	4.1	0.6	<0.5	5.1	24	<0.1	0.3	<0.1	43	0.23	0.039
REP ROS 165574	QC	0.4	13.7	4.8	54	<0.1	12.1	6.7	413	2.00	4.4	0.6	<0.5	5.0	24	<0.1	0.3	<0.1	43	0.24	0.039
ROS 147119	Soil	0.2	18.4	3.1	56	<0.1	12.7	11.2	737	2.45	2.7	0.5	2.2	3.2	17	<0.1	0.4	<0.1	58	0.49	0.070
REP ROS 147119	QC	0.2	18.8	3.1	55	<0.1	12.7	11.3	755	2.49	2.9	0.5	1.3	3.3	17	<0.1	0.4	<0.1	59	0.49	0.071
Reference Materials																					
STD DS7	Standard	18.7	99.3	59.7	379	0.9	50.7	8.6	579	2.28	49.2	4.1	72.7	3.9	64	5.3	5.2	4.2	75	0.88	0.074
STD DS7	Standard	18.7	107.3	61.7	389	0.9	54.6	9.2	613	2.35	50.3	4.7	68.9	3.8	70	6.5	5.7	4.5	79	0.90	0.077
STD DS7	Standard	22.4	119.4	70.7	399	1.0	62.1	10.1	629	2.37	46.3	5.3	165.6	5.0	66	5.8	5.4	4.1	91	0.89	0.067
STD DS7	Standard	21.2	97.5	65.4	390	1.0	56.2	9.7	632	2.38	51.5	4.5	63.4	4.4	66	6.2	5.6	4.6	85	0.96	0.075
STD DS7	Standard	22.4	116.0	69.2	372	1.0	60.7	10.2	609	2.32	41.9	4.8	163.6	4.9	67	5.4	5.0	4.0	86	0.91	0.064
STD DS7	Standard	20.6	102.2	63.9	389	1.0	56.6	9.3	639	2.44	49.1	4.4	68.7	4.5	65	6.0	4.4	4.5	86	0.95	0.073
STD DS7	Standard	18.2	106.6	55.9	373	1.0	52.2	8.6	596	2.27	51.4	3.9	60.9	3.6	56	6.0	4.7	4.0	78	0.87	0.079
STD DS7	Standard	20.0	108.3	64.9	356	0.9	56.3	9.7	574	2.26	41.8	4.6	69.7	4.3	61	4.9	4.9	4.0	80	0.86	0.065
STD DS7	Standard	21.7	112.2	69.3	407	1.0	58.1	9.8	651	2.49	56.0	5.1	81.3	4.9	82	6.7	6.4	5.0	88	1.02	0.080
STD DS7	Standard	22.7	114.3	74.9	383	0.9	58.5	10.0	627	2.38	47.6	5.2	65.0	4.8	74	5.9	5.9	5.0	90	0.94	0.073
STD DS7	Standard	20.1	100.5	65.7	378	0.9	52.1	8.9	609	2.30	48.2	4.7	56.4	4.7	76	6.1	6.1	4.7	79	0.91	0.072
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 06, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000592.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 147283	Soil	27	18	1.09	361	0.017	1	1.13	0.011	0.05	0.2	0.11	7.1	<0.1	<0.05	4	0.8	<0.2
REP ROS 147283	QC	26	18	1.09	348	0.020	2	1.15	0.012	0.05	0.2	0.10	7.2	<0.1	<0.05	4	0.9	<0.2
ROS 147333	Soil	13	38	0.46	263	0.070	1	1.79	0.013	0.07	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
REP ROS 147333	QC	13	37	0.43	266	0.070	1	1.77	0.013	0.07	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165574	Soil	9	22	0.59	157	0.112	<1	1.29	0.009	0.33	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2
REP ROS 165574	QC	9	22	0.58	151	0.117	<1	1.30	0.009	0.33	<0.1	<0.01	3.0	0.1	<0.05	5	<0.5	<0.2
ROS 147119	Soil	15	26	1.37	681	0.105	<1	1.83	0.005	0.27	<0.1	0.04	5.7	0.1	<0.05	7	<0.5	<0.2
REP ROS 147119	QC	16	27	1.41	692	0.107	<1	1.87	0.006	0.28	<0.1	0.04	5.9	0.1	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	12	172	1.02	400	0.102	37	0.95	0.091	0.47	3.4	0.20	2.3	3.9	0.16	5	3.2	1.5
STD DS7	Standard	13	180	1.03	384	0.121	39	0.97	0.091	0.45	3.7	0.18	2.5	4.0	0.21	5	2.7	1.0
STD DS7	Standard	13	215	1.01	368	0.134	35	0.98	0.089	0.45	3.4	0.21	2.5	4.2	0.22	5	3.1	1.9
STD DS7	Standard	13	195	1.04	417	0.110	36	1.04	0.094	0.48	3.8	0.23	2.2	4.3	0.20	5	3.1	0.9
STD DS7	Standard	13	214	0.99	355	0.132	37	1.00	0.086	0.44	3.3	0.23	2.5	4.2	0.30	5	3.3	1.8
STD DS7	Standard	12	195	1.04	365	0.102	39	1.04	0.101	0.46	3.2	0.23	2.5	4.2	0.17	5	3.0	0.6
STD DS7	Standard	11	182	1.03	366	0.091	41	0.97	0.094	0.46	3.6	0.23	2.3	4.0	0.21	5	3.7	0.7
STD DS7	Standard	11	197	0.96	340	0.119	31	0.92	0.079	0.41	3.3	0.19	2.0	3.7	0.23	4	3.0	1.5
STD DS7	Standard	15	202	1.10	416	0.132	40	1.10	0.105	0.53	3.9	0.25	2.9	4.3	0.18	5	3.3	1.5
STD DS7	Standard	14	211	1.06	376	0.129	36	1.00	0.092	0.47	3.8	0.20	2.3	4.3	0.19	5	2.7	1.0
STD DS7	Standard	13	187	1.03	385	0.124	38	1.03	0.089	0.46	3.6	0.19	2.3	3.9	0.19	5	2.7	1.5
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: ROS

Report Date: November 06, 2010

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QUALITY CONTROL REPORT

WHI10000592.1

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



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000592.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 02, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000593.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

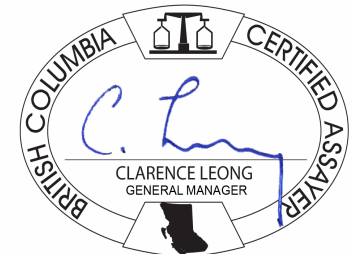
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 02, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000593.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 141718	Soil		0.9	31.7	8.7	92	0.7	22.2	13.1	1290	3.81	7.5	0.7	157.0	2.8	30	0.2	1.1	0.2	73	2.49	0.076
ROS 141722	Soil		1.1	27.0	19.1	85	0.5	19.9	12.8	517	3.41	6.7	0.7	25.0	8.9	19	0.1	2.6	0.1	67	0.48	0.036
ROS 141726	Soil		0.9	24.9	9.9	54	0.4	20.3	7.8	308	2.52	8.7	0.8	10.1	5.0	23	0.1	1.5	0.1	50	0.77	0.027
ROS 165966	Soil		0.6	11.1	9.9	97	0.1	13.0	7.2	391	2.54	5.7	0.4	<0.5	3.1	17	<0.1	0.9	0.2	43	0.20	0.043
ROS 141717	Soil		1.2	50.4	6.9	93	0.4	19.7	12.6	577	3.38	9.5	0.5	126.8	4.4	16	0.2	1.2	0.1	66	0.82	0.102
ROS 141723	Soil		0.5	22.4	11.1	45	0.4	20.1	8.5	395	2.44	8.3	0.4	12.2	3.3	23	<0.1	0.7	0.1	51	0.66	0.033
ROS 141728	Soil		2.6	54.2	10.2	117	<0.1	41.1	12.4	580	3.27	76.6	0.8	1.8	4.9	22	<0.1	0.8	0.1	76	0.51	0.043
ROS 165984	Soil		0.7	29.8	8.0	74	<0.1	22.3	12.0	535	3.16	12.0	1.1	2.5	7.0	22	0.1	0.8	0.3	51	0.48	0.038
ROS 141721	Soil		0.9	18.2	19.4	94	0.4	13.1	10.4	355	3.02	5.6	0.4	8.1	3.9	18	0.1	2.0	0.1	58	0.39	0.069
ROS 141724	Soil		1.3	35.3	11.3	69	0.3	26.6	10.4	510	2.82	6.7	0.7	13.6	7.3	34	0.1	1.1	0.1	56	1.01	0.043
ROS 141725	Soil		1.5	25.9	17.1	68	0.5	23.6	9.6	318	3.03	8.1	1.0	7.2	10.5	23	<0.1	1.8	0.2	61	0.46	0.022
ROS 165987	Soil		0.9	33.3	8.6	47	0.1	25.2	8.6	375	2.33	7.4	0.9	6.6	4.7	35	<0.1	0.8	0.2	50	0.54	0.058
ROS 141719	Soil		1.5	91.2	58.3	160	<0.1	17.9	14.3	692	4.28	5.7	0.5	5.1	4.7	21	0.3	4.2	<0.1	101	0.30	0.069
ROS 141720	Soil		0.5	20.6	12.7	67	0.2	13.7	9.8	589	2.76	4.6	0.3	1.2	3.4	25	0.3	1.0	0.1	60	0.34	0.040
ROS 141727	Soil		1.0	38.6	11.7	59	0.3	24.9	10.7	447	2.80	8.4	0.6	6.5	5.1	57	0.1	1.8	0.1	54	1.99	0.035
ROS 165982	Soil		0.8	41.1	8.8	49	0.1	27.6	10.4	346	2.68	11.7	0.5	5.2	4.8	33	<0.1	0.8	0.2	60	0.66	0.019
ROS 160267	Soil		0.7	24.4	19.7	59	<0.1	27.2	10.4	497	2.35	2.5	0.4	0.6	3.2	18	0.1	0.2	<0.1	51	0.33	0.032
ROS 164985	Soil		0.6	33.9	9.5	63	0.1	24.8	10.0	485	2.57	8.1	0.8	2.9	3.8	38	0.3	0.6	0.1	51	0.71	0.060
ROS 164980	Soil		1.5	104.4	5.6	129	0.1	7.3	14.2	830	5.97	2.0	1.9	0.8	11.7	67	<0.1	0.2	0.2	115	0.21	0.039
ROS 159030	Soil		1.4	18.6	11.8	118	<0.1	10.8	8.8	1227	3.32	3.7	1.1	<0.5	6.5	28	0.2	0.3	0.2	59	0.15	0.075
ROS 160266	Soil		1.1	76.2	376.6	399	0.3	44.3	17.2	1226	4.84	2.7	0.7	<0.5	6.2	25	0.4	0.2	0.9	46	0.36	0.045
ROS 160250	Soil		1.1	17.8	9.1	58	0.1	19.1	8.1	273	2.95	6.1	1.2	2.2	6.6	19	0.1	0.4	1.7	60	0.17	0.029
ROS 164982	Soil		1.6	48.6	23.9	151	0.1	21.3	11.0	395	3.20	9.0	1.0	2.2	4.6	27	0.3	0.4	0.3	67	0.23	0.033
ROS 159027	Soil		2.0	51.8	9.9	88	<0.1	26.7	12.0	531	3.50	5.1	2.4	1.6	7.0	31	<0.1	0.4	0.2	85	0.31	0.054
ROS 159001	Soil		0.8	25.1	15.5	55	<0.1	19.7	10.1	355	2.88	4.2	0.9	2.9	6.4	24	<0.1	0.3	0.1	61	0.31	0.028
ROS 164984	Soil		0.7	41.3	15.4	136	<0.1	11.1	6.9	748	3.06	5.0	1.3	<0.5	13.0	26	0.4	0.2	<0.1	54	0.45	0.050
ROS 164981	Soil		5.6	249.0	85.2	213	1.3	15.9	5.2	1174	4.73	4.2	5.2	26.7	14.9	115	0.3	0.1	0.7	63	1.12	0.039
ROS 159029	Soil		1.6	42.1	10.6	141	<0.1	18.8	12.4	790	4.94	2.5	0.8	1.1	4.6	62	<0.1	0.1	<0.1	141	0.23	0.076
ROS 160284	Soil		0.8	24.8	10.7	160	<0.1	23.7	9.9	369	3.22	3.5	1.7	0.6	14.3	40	0.2	0.2	0.2	41	0.19	0.040
ROS 164983	Soil		1.1	30.6	8.6	89	<0.1	14.0	7.3	434	2.54	5.5	0.7	0.6	6.6	21	0.3	0.3	0.1	61	0.22	0.033

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 141718	Soil	20	36	0.75	419	0.011	<1	1.81	0.009	0.06	0.2	0.16	7.4	<0.1	<0.05	6	0.7	0.3
ROS 141722	Soil	15	37	0.86	465	0.025	<1	1.84	0.009	0.09	0.2	0.09	5.0	<0.1	<0.05	7	<0.5	<0.2
ROS 141726	Soil	28	29	0.41	401	0.038	2	1.37	0.011	0.08	0.2	0.09	3.9	<0.1	<0.05	4	0.6	<0.2
ROS 165966	Soil	5	23	0.88	183	0.017	<1	1.68	0.011	0.07	0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2
ROS 141717	Soil	26	28	0.99	165	0.018	1	1.68	0.006	0.10	0.3	0.39	6.0	<0.1	<0.05	6	<0.5	0.3
ROS 141723	Soil	13	27	0.48	461	0.043	1	1.31	0.023	0.06	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 141728	Soil	18	51	1.70	284	0.108	<1	2.35	0.006	0.63	0.2	0.06	2.8	0.4	<0.05	9	<0.5	<0.2
ROS 165984	Soil	19	52	1.15	194	0.072	<1	1.90	0.010	0.13	0.2	0.03	4.9	0.1	<0.05	8	<0.5	<0.2
ROS 141721	Soil	6	24	0.68	205	0.017	1	1.58	0.007	0.17	0.2	0.03	3.2	<0.1	<0.05	7	<0.5	<0.2
ROS 141724	Soil	24	31	0.65	415	0.061	2	1.51	0.025	0.08	0.2	0.06	4.4	<0.1	0.07	5	<0.5	<0.2
ROS 141725	Soil	19	37	0.57	354	0.054	2	1.82	0.013	0.12	0.2	0.05	5.3	<0.1	<0.05	6	<0.5	<0.2
ROS 165987	Soil	15	26	0.54	294	0.066	2	1.40	0.025	0.07	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 141719	Soil	12	25	0.77	286	0.012	<1	2.22	0.010	0.05	0.5	0.09	7.0	<0.1	<0.05	11	0.5	<0.2
ROS 141720	Soil	7	23	0.73	311	0.083	2	1.75	0.015	0.20	0.2	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 141727	Soil	17	29	0.61	306	0.059	2	1.33	0.023	0.07	0.2	0.10	4.2	<0.1	0.05	4	<0.5	<0.2
ROS 165982	Soil	15	32	0.64	252	0.077	2	1.60	0.020	0.08	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160267	Soil	7	33	0.58	166	0.117	2	1.33	0.011	0.28	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164985	Soil	14	26	0.59	323	0.075	2	1.50	0.029	0.07	0.3	0.03	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 164980	Soil	23	12	1.65	271	0.278	<1	4.14	0.030	1.40	<0.1	<0.01	5.7	0.6	0.20	14	0.8	<0.2
ROS 159030	Soil	15	19	0.61	399	0.137	<1	1.83	0.017	0.47	0.1	<0.01	2.7	0.3	<0.05	9	<0.5	<0.2
ROS 160266	Soil	21	52	1.65	236	0.216	<1	2.45	0.011	0.64	<0.1	0.02	3.3	0.5	<0.05	9	<0.5	<0.2
ROS 160250	Soil	21	34	0.67	254	0.140	2	1.81	0.012	0.27	0.1	0.02	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 164982	Soil	11	36	0.95	219	0.122	1	2.60	0.012	0.11	0.1	0.02	3.7	0.1	<0.05	8	<0.5	<0.2
ROS 159027	Soil	26	39	0.92	614	0.143	<1	1.97	0.016	0.29	<0.1	0.03	6.3	0.2	0.06	7	0.6	<0.2
ROS 159001	Soil	19	34	0.78	248	0.148	1	1.61	0.016	0.33	<0.1	0.01	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 164984	Soil	24	14	1.54	118	0.178	<1	2.20	0.014	0.84	0.1	<0.01	4.9	0.4	<0.05	9	<0.5	<0.2
ROS 164981	Soil	42	56	2.66	218	0.158	<1	3.25	0.012	0.25	<0.1	0.05	10.2	0.2	0.32	12	1.4	0.2
ROS 159029	Soil	20	40	1.74	977	0.302	<1	3.04	0.020	1.41	0.1	<0.01	3.6	0.4	0.14	10	<0.5	<0.2
ROS 160284	Soil	28	32	1.01	335	0.154	<1	2.07	0.014	0.71	<0.1	0.01	2.8	0.4	<0.05	7	<0.5	<0.2
ROS 164983	Soil	13	23	1.20	144	0.128	1	2.07	0.013	0.24	<0.1	<0.01	4.2	0.1	<0.05	8	<0.5	<0.2

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 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164979	Soil	0.9	28.5	6.3	93	<0.1	11.8	12.3	470	3.80	4.9	0.8	2.6	3.9	32	0.1	0.3	<0.1	82	0.18	0.020
ROS 159031	Soil	1.2	13.2	7.7	68	0.1	9.2	8.4	530	3.41	3.6	1.2	0.8	7.9	27	<0.1	0.3	0.2	66	0.13	0.027
ROS 160415	Soil	0.8	87.5	11.7	78	0.5	25.5	12.3	270	2.41	0.7	2.9	0.7	3.7	23	0.4	0.1	0.1	44	0.23	0.052
ROS 163769	Soil	1.1	21.5	7.1	74	<0.1	16.9	9.6	325	2.91	4.8	0.9	3.2	3.8	24	0.2	0.2	0.1	63	0.33	0.074
ROS 160110	Soil	2.0	16.2	7.0	74	<0.1	14.1	12.3	579	3.08	3.5	1.3	1.4	8.3	31	0.1	0.2	<0.1	57	0.35	0.081
ROS 160105	Soil	1.1	31.1	8.3	73	<0.1	19.8	10.9	377	3.10	3.3	1.4	2.0	6.6	27	0.1	0.2	0.1	66	0.24	0.046
ROS 163773	Soil	0.9	37.7	7.5	71	0.1	27.3	11.7	386	2.76	6.3	1.0	3.1	3.4	31	0.3	0.4	0.1	60	0.51	0.080
ROS 163768	Soil	1.8	78.0	8.4	73	0.2	15.4	13.9	502	3.01	3.5	1.3	3.4	6.8	21	0.2	0.2	0.1	61	0.23	0.036
ROS 160111	Soil	1.4	18.0	8.4	87	<0.1	19.3	9.5	561	2.67	5.8	1.4	2.9	6.1	39	0.3	0.5	0.1	54	0.70	0.090
ROS 160104	Soil	1.2	39.2	8.9	72	0.2	22.8	11.2	282	3.44	3.8	1.7	1.6	6.2	30	0.1	0.2	<0.1	87	0.22	0.041
ROS 163771	Soil	1.4	20.0	7.5	78	<0.1	17.4	12.3	525	3.23	5.9	0.9	3.3	6.1	25	0.2	0.3	0.1	62	0.35	0.084
ROS 163766	Soil	1.7	122.4	8.8	76	0.3	19.7	11.4	318	2.86	2.3	1.2	7.1	4.9	21	0.2	0.2	0.2	61	0.19	0.042
ROS 160107	Soil	0.9	19.3	6.5	79	<0.1	12.3	8.7	392	2.87	2.5	1.7	1.9	11.2	42	<0.1	0.2	<0.1	52	0.47	0.041
ROS 160106	Soil	0.9	19.9	7.0	77	<0.1	13.5	8.4	351	2.97	2.8	1.3	1.4	8.6	34	0.1	0.2	<0.1	55	0.40	0.046
ROS 163767	Soil	1.6	91.6	8.3	76	0.2	17.3	12.7	465	2.92	3.1	1.2	4.2	6.3	22	0.1	0.2	0.2	60	0.21	0.037
ROS 163765	Soil	1.8	122.8	8.1	76	0.3	18.7	10.1	296	2.84	2.0	1.1	5.2	5.8	22	0.2	0.1	0.2	59	0.21	0.043
ROS 160109	Soil	1.5	21.3	8.2	69	<0.1	18.9	10.8	355	3.00	5.7	1.6	1.7	7.4	31	<0.1	0.3	0.1	66	0.37	0.043
ROS 160108	Soil	1.0	19.4	7.3	81	<0.1	12.2	9.4	435	3.07	2.4	1.7	<0.5	12.9	46	<0.1	0.2	<0.1	54	0.50	0.048
ROS 160100	Soil	0.7	45.6	6.8	73	0.1	29.2	14.3	492	4.16	1.1	1.3	1.9	6.0	29	0.1	0.1	6.0	82	0.65	0.101
ROS 160297	Soil	1.5	31.4	9.1	107	0.2	21.0	10.1	205	3.01	3.6	1.5	1.0	4.1	32	0.3	0.2	0.3	74	0.23	0.045
ROS 160290	Soil	1.1	36.6	12.5	75	0.2	25.2	10.2	260	3.26	6.0	1.7	0.5	4.2	41	0.2	0.4	0.4	63	0.25	0.062
ROS 160287	Soil	1.3	26.8	7.4	85	<0.1	21.2	11.4	407	3.78	1.1	2.0	<0.5	14.7	17	0.1	0.1	0.2	41	0.09	0.066
ROS 160103	Soil	1.0	95.2	8.3	128	0.2	30.3	22.2	750	5.28	2.3	2.6	<0.5	7.4	53	0.3	0.1	<0.1	165	0.56	0.161
ROS 160296	Soil	2.3	20.3	8.4	105	<0.1	18.2	8.5	285	3.49	2.4	1.1	<0.5	7.9	35	0.1	0.2	0.4	65	0.10	0.049
ROS 160293	Soil	0.6	14.7	6.7	64	<0.1	14.8	6.7	172	2.05	4.3	0.4	<0.5	1.6	22	0.2	0.4	0.1	55	0.16	0.029
ROS 160286	Soil	1.1	30.2	10.2	61	0.1	20.8	9.4	292	3.23	5.0	1.8	<0.5	6.8	29	0.1	0.3	0.2	82	0.18	0.049
ROS 160101	Soil	0.6	39.0	5.1	99	<0.1	51.4	19.4	358	4.06	<0.5	2.5	<0.5	20.7	13	<0.1	<0.1	0.1	51	0.31	0.111
ROS 160295	Soil	1.4	30.2	6.1	110	<0.1	25.6	10.1	350	3.04	1.1	1.4	1.7	11.5	24	0.2	0.2	0.3	47	0.09	0.038
ROS 160292	Soil	0.8	19.1	5.9	50	<0.1	23.5	9.6	302	2.67	2.5	0.9	0.9	4.3	44	<0.1	0.2	0.2	64	0.12	0.030
ROS 160289	Soil	1.6	23.8	7.5	129	<0.1	23.1	12.0	494	3.91	5.2	1.2	1.5	8.1	19	0.2	0.3	0.2	70	0.15	0.036

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164979	Soil	11	18	1.03	187	0.180	<1	2.62	0.019	0.61	0.1	0.01	3.2	0.2	<0.05	8	<0.5	<0.2
ROS 159031	Soil	9	19	0.69	269	0.162	<1	2.15	0.016	0.72	0.1	<0.01	3.0	0.4	<0.05	8	<0.5	<0.2
ROS 160415	Soil	27	30	0.69	252	0.119	1	1.70	0.015	0.33	<0.1	0.05	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 163769	Soil	14	28	0.75	195	0.114	<1	1.74	0.022	0.24	0.2	0.03	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 160110	Soil	25	21	0.64	166	0.143	1	2.22	0.015	0.48	0.1	0.02	2.6	0.2	<0.05	7	<0.5	<0.2
ROS 160105	Soil	19	27	0.72	179	0.124	<1	2.03	0.018	0.36	<0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 163773	Soil	13	36	0.68	328	0.101	1	1.62	0.023	0.19	0.2	0.03	4.1	<0.1	<0.05	5	0.8	<0.2
ROS 163768	Soil	26	24	0.66	155	0.135	1	1.93	0.018	0.32	<0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 160111	Soil	19	25	0.67	183	0.091	2	1.43	0.028	0.23	0.3	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
ROS 160104	Soil	24	29	0.89	203	0.132	1	2.25	0.017	0.29	<0.1	0.02	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 163771	Soil	14	29	0.66	207	0.094	<1	1.68	0.019	0.17	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 163766	Soil	22	29	0.68	161	0.136	1	1.88	0.015	0.34	0.1	0.02	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 160107	Soil	30	19	0.65	209	0.128	<1	2.04	0.024	0.43	<0.1	0.01	3.4	0.3	<0.05	7	<0.5	<0.2
ROS 160106	Soil	22	21	0.64	162	0.128	1	2.08	0.017	0.37	<0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 163767	Soil	27	26	0.68	155	0.136	1	1.88	0.015	0.33	<0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 163765	Soil	23	27	0.69	180	0.134	1	1.83	0.014	0.36	<0.1	0.02	3.2	0.3	0.06	6	<0.5	<0.2
ROS 160109	Soil	22	31	0.65	212	0.124	<1	1.94	0.019	0.20	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 160108	Soil	32	20	0.70	215	0.137	<1	2.19	0.024	0.46	0.1	0.02	3.7	0.3	<0.05	7	<0.5	<0.2
ROS 160100	Soil	25	32	0.93	291	0.187	<1	2.35	0.019	0.67	<0.1	0.02	6.0	0.3	<0.05	8	<0.5	0.2
ROS 160297	Soil	24	29	0.64	270	0.116	1	2.05	0.012	0.25	<0.1	0.03	3.8	0.2	<0.05	7	<0.5	<0.2
ROS 160290	Soil	30	43	0.66	333	0.104	<1	2.88	0.012	0.17	0.1	0.06	4.3	0.1	<0.05	10	<0.5	<0.2
ROS 160287	Soil	40	29	0.97	210	0.190	<1	2.17	0.011	0.77	<0.1	<0.01	2.4	0.5	<0.05	8	<0.5	<0.2
ROS 160103	Soil	44	31	1.76	515	0.224	<1	3.60	0.024	1.51	<0.1	<0.01	7.0	0.5	0.06	12	<0.5	<0.2
ROS 160296	Soil	32	31	0.81	323	0.201	<1	2.10	0.011	0.60	<0.1	<0.01	3.3	0.3	0.08	8	<0.5	<0.2
ROS 160293	Soil	9	23	0.42	154	0.077	1	1.38	0.012	0.05	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160286	Soil	28	37	0.85	690	0.168	<1	2.21	0.011	0.24	<0.1	0.01	4.0	0.2	<0.05	9	<0.5	<0.2
ROS 160101	Soil	82	38	1.11	212	0.186	<1	2.33	0.012	1.06	<0.1	<0.01	3.3	0.6	<0.05	7	<0.5	<0.2
ROS 160295	Soil	31	36	0.88	273	0.208	<1	1.95	0.010	0.78	<0.1	<0.01	3.3	0.4	<0.05	7	<0.5	<0.2
ROS 160292	Soil	20	35	0.67	276	0.186	<1	1.96	0.009	0.43	<0.1	0.02	3.6	0.3	<0.05	8	<0.5	<0.2
ROS 160289	Soil	24	36	0.90	294	0.178	<1	2.44	0.011	0.53	<0.1	0.01	3.5	0.3	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160102	Soil	0.9	43.7	9.2	100	<0.1	26.5	14.6	371	3.79	2.9	1.2	<0.5	5.7	44	<0.1	0.2	0.1	84	0.39	0.079
ROS 160294	Soil	0.5	17.2	6.4	68	<0.1	14.8	7.4	207	2.03	3.6	0.7	1.5	3.5	26	0.1	0.3	0.1	46	0.24	0.036
ROS 160291	Soil	0.7	15.5	7.1	47	<0.1	13.8	6.0	204	1.95	3.2	0.6	<0.5	1.6	27	<0.1	0.3	0.1	47	0.16	0.024
ROS 160288	Soil	0.9	13.0	5.2	65	<0.1	22.7	10.2	355	3.06	2.6	1.0	<0.5	7.9	13	<0.1	0.2	0.2	52	0.13	0.042
ROS 165599	Soil	0.8	25.5	7.1	54	0.1	23.8	6.8	612	1.55	10.0	1.2	0.9	0.7	65	0.7	0.6	<0.1	32	4.44	0.077
ROS 165595	Soil	0.7	29.2	7.6	55	<0.1	25.1	9.3	444	2.65	11.8	0.5	1.5	3.3	27	<0.1	0.5	0.1	52	0.50	0.054
ROS 165591	Soil	0.8	23.6	5.2	104	<0.1	15.4	15.2	818	4.21	4.2	0.3	<0.5	1.8	47	<0.1	0.2	<0.1	106	0.44	0.079
ROS 163774	Soil	0.9	35.9	5.9	81	<0.1	32.7	12.1	359	3.25	3.7	0.7	1.4	3.4	28	0.1	0.2	0.1	79	0.41	0.082
ROS 165576	Soil	0.2	36.6	5.6	86	<0.1	12.5	11.4	540	3.02	3.0	0.6	<0.5	2.8	31	<0.1	0.2	<0.1	55	0.55	0.105
ROS 165596	Soil	0.5	28.6	11.6	58	<0.1	23.6	10.3	530	2.59	11.5	0.7	2.7	3.1	35	0.2	0.5	0.2	56	0.85	0.056
ROS 165592	Soil	0.3	24.0	2.5	101	<0.1	9.4	13.8	754	2.57	1.8	0.3	<0.5	2.8	12	0.1	0.1	<0.1	38	0.31	0.071
ROS 163775	Soil	1.4	33.7	6.0	87	<0.1	23.2	12.9	467	3.21	3.7	0.8	3.4	4.5	27	0.2	0.2	0.1	69	0.40	0.078
ROS 165597	Soil	0.5	28.6	12.7	61	<0.1	23.9	8.9	482	2.32	10.4	1.0	3.4	2.2	48	0.3	0.5	0.1	48	1.64	0.057
ROS 165593	Soil	0.4	22.0	4.7	111	<0.1	13.3	13.2	574	3.36	3.4	0.4	2.4	3.7	18	<0.1	0.3	0.1	72	0.33	0.056
ROS 165578	Soil	0.6	9.2	5.7	53	<0.1	14.1	8.8	223	2.06	5.3	0.4	1.5	2.6	22	<0.1	0.3	<0.1	44	0.33	0.025
ROS 163772	Soil	0.8	33.0	7.9	78	0.1	24.2	9.6	334	2.56	6.0	1.0	2.2	5.3	36	0.3	0.4	0.1	61	0.51	0.084
ROS 165598	Soil	0.3	16.7	6.1	37	<0.1	14.9	5.1	290	1.31	5.3	1.3	2.0	0.9	83	0.4	0.3	<0.1	30	8.12	0.057
ROS 165594	Soil	0.5	19.1	5.7	84	<0.1	13.0	8.9	590	3.08	3.3	0.5	1.4	4.4	15	<0.1	0.3	<0.1	55	0.30	0.046
ROS 165579	Soil	0.3	11.5	6.0	70	<0.1	13.6	10.7	743	2.26	6.8	0.4	1.0	5.5	17	<0.1	0.4	<0.1	45	0.49	0.042
ROS 163770	Soil	0.9	21.9	7.0	68	<0.1	18.9	8.8	256	2.61	5.5	0.8	1.3	3.1	22	0.2	0.2	0.2	62	0.33	0.063
ROS 173361	Soil	1.0	25.8	18.0	114	0.1	16.8	19.9	867	4.06	5.9	1.4	0.8	8.4	69	0.4	1.4	0.1	71	0.68	0.051
ROS 173357	Soil	0.5	6.8	4.5	31	<0.1	5.1	4.1	163	1.13	1.8	0.4	<0.5	4.7	12	<0.1	0.4	<0.1	17	0.20	0.050
ROS 173362	Soil	1.0	29.7	11.3	61	0.2	23.8	9.1	416	2.41	7.9	1.1	6.9	4.7	41	0.2	1.0	0.2	46	0.66	0.055
ROS 173356	Soil	0.6	7.6	5.2	35	<0.1	5.7	4.6	174	1.20	1.8	0.4	3.3	5.3	12	<0.1	0.4	<0.1	19	0.21	0.052
ROS 164336	Soil	0.7	7.9	5.6	51	<0.1	11.6	5.7	170	1.98	5.0	0.3	<0.5	1.1	13	0.1	0.3	0.1	45	0.19	0.048
ROS 165988	Soil	0.6	23.3	8.2	51	0.1	19.2	7.3	277	2.31	8.0	1.1	6.3	3.4	36	0.1	0.8	0.2	46	0.66	0.050
ROS 165969	Soil	1.0	18.5	9.7	59	0.2	21.6	9.9	524	2.77	7.8	0.6	1.7	6.2	27	<0.1	0.7	0.2	55	0.45	0.049
ROS 165992	Soil	0.8	32.4	9.9	55	0.1	28.1	10.5	428	2.67	10.3	0.5	3.4	4.2	36	0.1	0.8	0.2	57	0.93	0.029
ROS 165968	Soil	1.4	16.0	13.0	74	0.1	20.5	10.6	626	2.98	6.4	0.9	1.0	10.1	24	<0.1	0.8	0.1	53	0.36	0.057
ROS 165986	Soil	0.8	15.5	7.6	61	0.1	16.4	8.4	452	2.25	6.3	1.3	9.4	3.3	31	0.2	0.7	0.2	44	0.54	0.060



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 Report Date: November 02, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.2
ROS 160102	Soil	24	31	0.94	277	0.149	<1	2.54	0.023	0.63	<0.1	0.01	4.5	0.4	<0.05	8	<0.5	<0.2
ROS 160294	Soil	14	24	0.47	205	0.092	<1	1.44	0.012	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 160291	Soil	12	23	0.35	173	0.082	<1	1.57	0.010	0.07	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
ROS 160288	Soil	15	32	0.99	268	0.199	1	2.03	0.012	0.52	<0.1	<0.01	2.7	0.3	<0.05	8	<0.5	<0.2
ROS 165599	Soil	12	21	1.87	213	0.031	3	0.96	0.016	0.06	0.2	0.12	2.1	<0.1	0.11	3	0.8	<0.2
ROS 165595	Soil	18	28	0.60	279	0.075	1	1.36	0.021	0.11	0.2	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165591	Soil	7	25	1.63	291	0.302	1	2.65	0.010	1.09	<0.1	0.01	4.4	0.3	<0.05	9	<0.5	<0.2
ROS 163774	Soil	14	50	0.97	380	0.157	<1	2.20	0.022	0.46	<0.1	0.02	4.7	0.2	<0.05	7	<0.5	<0.2
ROS 165576	Soil	7	29	1.16	236	0.204	<1	2.07	0.011	0.62	0.1	<0.01	3.7	0.2	<0.05	8	<0.5	<0.2
ROS 165596	Soil	16	28	0.60	345	0.077	2	1.58	0.024	0.08	0.1	0.05	4.8	<0.1	<0.05	5	0.7	<0.2
ROS 165592	Soil	14	10	1.38	170	0.141	<1	1.76	0.008	0.44	<0.1	<0.01	7.8	0.3	<0.05	8	<0.5	<0.2
ROS 163775	Soil	15	33	0.81	307	0.144	<1	1.90	0.020	0.35	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 165597	Soil	15	24	0.62	311	0.060	2	1.44	0.020	0.07	0.1	0.08	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 165593	Soil	10	25	1.34	276	0.161	1	2.23	0.008	0.79	0.1	<0.01	8.3	0.3	<0.05	8	<0.5	<0.2
ROS 165578	Soil	9	22	1.18	124	0.063	1	1.89	0.010	0.12	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163772	Soil	20	31	0.69	297	0.102	2	1.64	0.026	0.17	0.2	0.03	3.8	0.1	<0.05	5	0.5	<0.2
ROS 165598	Soil	7	20	1.44	181	0.037	2	0.93	0.014	0.04	<0.1	0.04	2.0	<0.1	0.10	2	<0.5	<0.2
ROS 165594	Soil	17	19	0.89	318	0.133	1	1.78	0.010	0.54	<0.1	0.02	9.1	0.2	<0.05	7	<0.5	<0.2
ROS 165579	Soil	15	19	1.19	194	0.112	1	1.85	0.011	0.20	<0.1	<0.01	5.8	0.1	<0.05	6	<0.5	<0.2
ROS 163770	Soil	13	30	0.62	208	0.093	1	1.77	0.016	0.10	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173361	Soil	31	32	1.20	325	0.155	2	2.44	0.017	0.37	0.4	0.03	5.1	0.1	<0.05	8	<0.5	<0.2
ROS 173357	Soil	8	8	0.26	72	0.035	<1	0.73	0.009	0.16	0.2	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
ROS 173362	Soil	18	27	0.60	304	0.059	1	1.45	0.032	0.14	0.2	0.10	3.2	<0.1	<0.05	4	0.7	<0.2
ROS 173356	Soil	8	9	0.28	78	0.039	<1	0.77	0.008	0.19	0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
ROS 164336	Soil	8	19	0.39	130	0.039	<1	1.17	0.009	0.04	0.3	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
ROS 165988	Soil	14	25	0.55	299	0.049	1	1.46	0.025	0.06	0.3	0.07	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165969	Soil	24	36	0.49	285	0.053	2	1.76	0.009	0.12	0.2	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165992	Soil	18	31	0.67	238	0.063	2	1.48	0.019	0.10	0.2	0.07	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 165968	Soil	27	34	0.51	329	0.036	<1	1.85	0.009	0.14	0.2	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
ROS 165986	Soil	11	24	0.47	258	0.053	1	1.28	0.017	0.10	0.2	0.03	2.7	<0.1	<0.05	4	0.6	<0.2

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 Report Date: November 02, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173260	Soil		0.6	28.7	6.6	53	<0.1	20.8	7.8	281	2.56	9.0	0.7	8.3	4.6	23	<0.1	0.8	0.1	54	0.35	0.058
ROS 173264	Soil		0.5	16.4	6.9	47	0.2	13.9	7.9	391	2.21	6.6	0.7	9.1	4.2	25	<0.1	0.6	0.2	48	0.41	0.054
ROS 173263	Soil		0.9	22.9	9.7	87	<0.1	12.3	9.1	348	2.74	5.7	0.6	0.8	6.8	42	0.2	0.6	<0.1	43	0.33	0.036
ROS 173267	Soil		0.9	20.7	13.9	69	<0.1	18.1	8.5	252	2.76	6.6	1.1	4.9	11.2	24	<0.1	0.6	0.2	48	0.25	0.046
ROS 173261	Soil		0.9	44.5	14.2	147	0.1	33.5	15.8	846	4.10	8.7	1.8	6.3	13.4	38	0.2	1.4	0.1	74	0.62	0.091
ROS 173262	Soil		0.8	27.2	7.6	63	<0.1	21.8	9.9	392	2.76	9.1	0.9	8.7	5.5	25	<0.1	0.8	0.2	63	0.37	0.059
ROS 165983	Soil		0.8	29.1	9.0	65	<0.1	24.6	9.5	447	2.71	9.3	0.7	7.7	4.3	31	0.2	0.9	0.2	53	0.61	0.054
ROS 165977	Soil		0.7	21.8	8.9	56	0.1	16.9	7.7	504	2.23	4.4	0.6	1.0	9.6	17	<0.1	0.5	0.2	36	0.26	0.028
ROS 165995	Soil		0.8	44.2	24.0	112	0.1	18.4	10.5	741	3.42	7.0	2.0	3.4	11.2	28	0.1	1.3	9.5	46	0.47	0.054
ROS 165991	Soil		0.9	18.0	7.4	46	0.1	18.1	7.5	291	2.29	7.4	1.1	6.3	4.7	23	<0.1	0.9	0.2	46	0.41	0.049
ROS 165967	Soil		3.8	22.1	13.5	74	0.1	19.0	8.2	349	3.04	131.3	0.9	1.4	8.7	18	<0.1	4.6	0.2	51	0.28	0.035
ROS 165993	Soil		1.3	32.9	11.4	91	0.2	31.7	14.0	833	3.60	7.3	1.3	7.7	7.9	27	<0.1	1.1	0.2	59	0.49	0.045
ROS 165989	Soil		0.9	31.0	8.9	60	0.2	24.8	9.4	443	2.48	8.7	0.7	4.8	4.1	35	0.2	1.1	0.2	47	0.67	0.058
ROS 165974	Soil		0.7	24.7	6.6	43	<0.1	22.4	7.5	245	2.35	9.6	0.7	3.7	4.4	24	<0.1	0.7	0.1	49	0.37	0.045
ROS 173493	Soil		0.9	21.7	11.2	78	0.1	18.6	11.6	708	3.40	7.4	1.3	1.7	12.6	26	<0.1	1.1	0.2	47	0.45	0.061
ROS 173488	Soil		0.5	34.2	12.7	126	<0.1	21.8	13.5	648	4.09	7.8	1.6	2.4	16.8	33	<0.1	2.6	0.2	82	0.43	0.079
ROS 173489	Soil		0.5	24.0	11.8	108	<0.1	20.0	12.0	550	3.62	8.5	1.0	5.8	8.2	29	<0.1	2.0	0.1	75	0.48	0.076
ROS 173483	Soil		1.7	21.9	9.5	57	0.1	20.6	9.0	365	2.76	8.7	0.7	2.5	8.0	26	<0.1	1.2	0.2	50	0.42	0.024
ROS 173482	Soil		1.6	13.1	10.5	54	0.3	14.8	8.0	388	2.58	7.2	0.6	2.4	4.4	18	0.2	1.4	0.2	44	0.28	0.025
ROS 173484	Soil		2.1	15.8	8.4	45	0.2	17.4	8.5	341	2.58	9.1	0.6	1.8	5.6	25	<0.1	1.0	0.2	50	0.46	0.039
ROS 173359	Soil		1.2	19.7	9.5	102	0.1	18.0	17.0	752	4.17	8.6	1.4	<0.5	9.3	56	0.1	1.1	<0.1	69	0.67	0.080
ROS 173358	Soil		1.2	17.8	5.5	48	<0.1	9.8	5.7	268	1.81	4.5	0.9	2.6	6.9	16	<0.1	0.8	<0.1	35	0.30	0.060
ROS 159046	Soil		1.5	38.7	12.0	136	<0.1	15.3	11.4	730	4.63	3.1	0.8	<0.5	3.6	41	<0.1	<0.1	<0.1	134	0.24	0.069
ROS 159038	Soil		1.2	26.3	38.6	232	0.5	8.9	9.0	382	2.73	3.3	2.3	3.3	9.6	28	0.5	0.2	0.2	51	0.29	0.024
ROS 164382	Soil		0.9	9.9	8.3	62	<0.1	10.7	6.6	686	2.51	6.2	0.8	1.2	2.7	10	<0.1	0.5	0.1	48	0.12	0.050
ROS 164384	Soil		1.0	17.2	12.2	109	<0.1	10.5	9.0	598	3.36	3.2	1.0	<0.5	5.6	12	<0.1	0.3	0.2	47	0.22	0.036
ROS 159035	Soil		1.6	35.1	5.6	121	<0.1	5.8	6.4	642	4.31	3.8	3.0	<0.5	18.1	33	<0.1	0.2	0.2	73	0.17	0.025
ROS 159040	Soil		1.6	17.7	13.9	76	0.1	10.0	6.1	267	2.45	4.6	1.2	0.7	6.1	29	0.2	0.3	0.2	51	0.20	0.023
ROS 163899	Soil		0.5	12.3	12.2	211	<0.1	13.3	9.1	755	3.93	3.7	1.2	0.9	3.1	18	<0.1	0.4	0.2	79	0.35	0.084
ROS 164388	Soil		0.5	25.6	9.8	95	<0.1	10.6	7.4	499	3.05	2.6	1.0	1.3	9.7	16	<0.1	0.3	0.1	45	0.22	0.023

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Project: ROS
 Report Date: November 02, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173260	Soil	16	32	0.57	244	0.065	1	1.37	0.019	0.07	0.2	0.10	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173264	Soil	15	24	0.51	320	0.058	<1	1.26	0.015	0.08	0.5	0.06	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 173263	Soil	10	18	0.66	129	0.116	<1	1.57	0.006	0.08	0.4	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
ROS 173267	Soil	24	29	0.51	155	0.063	<1	1.69	0.009	0.13	0.4	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 173261	Soil	34	72	1.02	283	0.064	<1	2.13	0.013	0.21	0.3	0.11	6.5	0.1	<0.05	11	0.6	<0.2
ROS 173262	Soil	20	34	0.63	204	0.069	<1	1.42	0.013	0.10	0.3	0.05	4.0	<0.1	<0.05	6	0.6	<0.2
ROS 165983	Soil	16	29	0.67	334	0.061	1	1.56	0.022	0.08	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165977	Soil	18	26	0.48	266	0.047	<1	1.43	0.007	0.18	0.3	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165995	Soil	50	26	0.82	252	0.036	<1	1.93	0.013	0.19	0.4	0.08	4.3	<0.1	<0.05	8	0.6	<0.2
ROS 165991	Soil	17	27	0.52	210	0.055	<1	1.32	0.014	0.08	0.3	0.10	3.2	<0.1	<0.05	4	0.5	<0.2
ROS 165967	Soil	18	31	0.51	294	0.033	<1	1.71	0.009	0.13	0.2	0.09	4.8	0.1	<0.05	6	<0.5	<0.2
ROS 165993	Soil	30	75	1.13	245	0.074	<1	2.28	0.011	0.23	0.3	0.08	5.7	0.1	<0.05	9	0.5	<0.2
ROS 165989	Soil	16	27	0.55	326	0.059	2	1.43	0.026	0.08	0.3	0.08	3.2	<0.1	<0.05	4	<0.5	0.3
ROS 165974	Soil	16	30	0.48	229	0.053	<1	1.20	0.022	0.05	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 173493	Soil	45	28	0.66	378	0.034	2	1.80	0.010	0.16	0.3	0.07	3.8	<0.1	<0.05	7	<0.5	<0.2
ROS 173488	Soil	65	61	1.23	126	0.034	<1	2.12	0.007	0.14	0.5	0.10	5.5	<0.1	<0.05	11	<0.5	<0.2
ROS 173489	Soil	33	32	1.08	190	0.027	<1	2.11	0.008	0.10	0.3	0.07	5.7	<0.1	<0.05	10	<0.5	<0.2
ROS 173483	Soil	19	30	0.49	292	0.044	2	1.56	0.012	0.12	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173482	Soil	13	23	0.43	345	0.042	1	1.34	0.008	0.15	0.2	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173484	Soil	16	30	0.40	336	0.039	1	1.69	0.009	0.11	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173359	Soil	20	52	1.15	352	0.183	2	2.28	0.009	0.71	0.2	0.01	3.9	0.1	<0.05	10	<0.5	<0.2
ROS 173358	Soil	15	11	0.45	116	0.060	<1	1.10	0.010	0.26	0.2	0.02	2.6	0.1	<0.05	5	<0.5	0.3
ROS 159046	Soil	18	31	1.74	945	0.312	<1	2.93	0.017	1.38	<0.1	<0.01	2.6	0.4	0.15	9	0.6	<0.2
ROS 159038	Soil	34	16	0.71	177	0.117	<1	1.79	0.015	0.50	<0.1	0.01	3.4	0.3	<0.05	7	<0.5	<0.2
ROS 164382	Soil	5	20	0.29	125	0.028	<1	1.43	0.011	0.09	0.2	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164384	Soil	15	22	0.81	202	0.120	<1	1.91	0.006	0.44	0.2	0.01	2.8	0.2	<0.05	8	<0.5	<0.2
ROS 159035	Soil	37	11	1.07	161	0.206	<1	2.90	0.012	1.14	<0.1	<0.01	5.5	0.7	<0.05	11	<0.5	<0.2
ROS 159040	Soil	17	20	0.58	167	0.101	1	1.52	0.014	0.17	<0.1	0.02	3.1	0.1	0.07	5	<0.5	<0.2
ROS 163899	Soil	10	16	1.01	248	0.101	2	1.79	0.008	0.74	0.1	0.01	3.2	0.2	<0.05	11	<0.5	<0.2
ROS 164388	Soil	35	18	0.90	171	0.159	1	1.78	0.012	0.54	0.1	0.02	5.0	0.3	<0.05	8	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159032	Soil	2.8	22.6	6.2	92	<0.1	8.3	9.6	614	4.36	3.2	2.2	<0.5	16.7	57	<0.1	0.2	0.2	72	0.10	0.032
ROS 159037	Soil	1.6	19.1	8.9	172	<0.1	7.2	9.5	599	2.95	3.2	1.6	<0.5	10.1	24	0.3	0.2	0.2	56	0.13	0.030
ROS 163898	Soil	0.5	11.8	13.3	194	<0.1	13.0	8.9	760	3.75	3.2	1.3	<0.5	3.7	16	<0.1	0.3	0.2	70	0.32	0.083
ROS 164391	Soil	0.6	26.4	10.7	89	<0.1	15.6	12.7	767	3.84	2.5	1.6	1.2	12.3	16	<0.1	0.4	0.3	56	0.31	0.053
ROS 159034	Soil	2.6	32.6	6.4	130	0.1	7.6	6.7	509	3.37	2.3	1.8	<0.5	11.5	41	0.1	0.2	0.5	51	0.16	0.025
ROS 159039	Soil	1.2	15.5	15.2	88	0.1	7.1	6.2	237	1.95	2.5	1.0	0.9	5.5	25	0.4	0.2	0.2	41	0.15	0.025
ROS 164390	Soil	0.7	24.2	11.3	87	<0.1	15.3	11.8	685	3.51	3.0	1.6	0.6	11.7	17	<0.1	0.4	0.3	56	0.31	0.048
ROS 164389	Soil	1.0	13.3	7.5	62	<0.1	11.4	6.9	522	2.46	3.3	0.7	<0.5	8.3	18	<0.1	0.4	0.3	41	0.26	0.037
ROS 164386	Soil	0.5	24.6	7.6	91	<0.1	13.6	9.8	518	3.28	4.0	1.0	<0.5	10.1	25	<0.1	0.3	0.1	50	0.43	0.018
ROS 165780	Soil	0.7	23.3	9.5	60	<0.1	18.5	7.9	311	2.59	7.0	1.1	15.0	9.5	31	<0.1	0.8	0.2	57	0.28	0.027
ROS 165788	Soil	0.6	33.0	23.0	147	0.1	31.0	18.2	652	4.09	5.4	0.9	<0.5	10.4	22	0.2	5.2	0.6	73	0.30	0.048
ROS 165784	Soil	1.0	34.4	14.0	86	<0.1	26.2	9.7	336	3.23	11.1	1.8	4.2	14.3	31	0.1	1.0	0.2	70	0.23	0.035
ROS 164383	Soil	2.1	32.4	8.6	102	<0.1	9.8	8.5	617	3.57	2.6	1.5	<0.5	10.2	9	<0.1	0.6	0.5	44	0.11	0.027
ROS 165786	Soil	0.8	22.5	14.8	109	<0.1	13.7	9.8	445	3.06	7.3	1.3	<0.5	13.0	49	<0.1	0.7	0.2	57	0.33	0.043
ROS 165789	Soil	0.6	18.1	10.0	50	<0.1	9.2	7.7	396	2.25	5.1	1.2	0.7	11.6	14	<0.1	0.6	0.2	38	0.20	0.033
ROS 165791	Soil	1.0	18.5	11.4	52	<0.1	18.0	7.2	386	2.42	6.3	0.7	<0.5	9.7	24	<0.1	0.8	0.2	46	0.33	0.016
ROS 164387	Soil	0.8	16.4	8.9	80	<0.1	13.9	8.4	554	3.00	4.3	0.9	<0.5	9.6	17	<0.1	0.4	0.1	48	0.25	0.031
ROS 165781	Soil	0.6	13.5	23.5	114	<0.1	13.1	9.9	485	3.11	3.4	1.1	<0.5	12.5	26	0.2	1.2	0.1	61	0.41	0.104
ROS 165790	Soil	0.6	33.6	8.7	53	<0.1	22.8	8.5	275	2.71	9.2	0.9	2.1	5.8	26	<0.1	0.8	0.2	58	0.31	0.035
ROS 165785	Soil	0.9	21.3	10.1	67	<0.1	25.9	10.0	384	2.96	10.3	0.8	3.6	6.7	24	0.1	0.7	0.2	66	0.23	0.031
ROS 164385	Soil	0.7	22.3	9.0	89	<0.1	11.6	10.9	520	3.09	3.8	0.9	<0.5	4.8	28	<0.1	0.3	0.2	62	0.34	0.038
ROS 165783	Soil	0.8	19.8	15.3	117	0.1	19.0	11.5	512	3.31	6.9	1.3	46.6	13.7	56	0.1	1.1	0.2	67	0.42	0.063
ROS 165787	Soil	0.8	21.9	12.5	84	0.1	18.5	10.1	431	3.15	8.9	0.7	<0.5	5.5	29	0.1	0.8	0.7	66	0.30	0.043
ROS 165782	Soil	0.6	27.6	11.6	92	<0.1	21.7	10.8	404	3.06	8.9	1.4	3.5	14.9	50	<0.1	1.1	0.3	63	0.35	0.042
ROS 165793	Soil	0.9	19.6	11.8	65	0.1	16.2	8.1	432	2.46	6.1	1.0	1.4	7.5	25	<0.1	1.2	0.2	48	0.35	0.032
ROS 141776	Soil	1.2	28.1	10.2	67	0.2	20.0	9.6	532	2.69	7.9	1.0	2.1	4.2	37	<0.1	0.4	0.2	54	0.60	0.045
ROS 141775	Soil	0.8	16.6	9.1	56	<0.1	17.6	7.5	293	2.69	6.5	0.6	0.7	4.0	25	<0.1	0.5	0.2	62	0.30	0.022
ROS 147323	Soil	0.9	20.8	9.9	59	<0.1	18.6	7.7	289	2.53	7.1	1.0	0.6	5.6	22	<0.1	0.6	0.2	59	0.27	0.024
ROS 165799	Soil	0.6	18.4	6.9	68	<0.1	11.3	6.9	445	2.87	4.7	0.9	<0.5	12.6	29	<0.1	0.5	<0.1	48	0.31	0.033
ROS 141780	Soil	0.8	33.0	9.5	72	0.1	24.8	10.8	545	3.24	8.1	0.7	2.2	8.0	28	<0.1	0.6	0.3	61	0.34	0.023

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159032	Soil	40	15	0.98	395	0.217	<1	2.74	0.013	1.04	0.2	<0.01	4.8	0.6	0.11	10	0.6	<0.2
ROS 159037	Soil	15	16	0.74	148	0.133	1	1.70	0.010	0.66	<0.1	<0.01	3.7	0.4	<0.05	7	<0.5	<0.2
ROS 163898	Soil	12	14	0.79	231	0.078	<1	1.56	0.007	0.57	0.1	0.02	3.6	0.2	<0.05	10	<0.5	<0.2
ROS 164391	Soil	45	23	1.07	214	0.140	2	2.07	0.009	0.93	0.1	0.03	7.6	0.3	<0.05	8	<0.5	<0.2
ROS 159034	Soil	36	13	0.80	320	0.175	1	2.29	0.015	0.72	0.1	0.02	2.8	0.5	<0.05	7	<0.5	0.5
ROS 159039	Soil	16	16	0.47	125	0.105	1	1.23	0.011	0.26	0.1	0.02	2.5	0.2	<0.05	5	<0.5	<0.2
ROS 164390	Soil	40	25	0.95	202	0.135	1	1.93	0.009	0.84	0.1	0.03	7.3	0.3	<0.05	8	<0.5	<0.2
ROS 164389	Soil	18	22	0.51	167	0.079	1	1.41	0.011	0.36	0.1	0.02	4.1	0.2	<0.05	5	<0.5	<0.2
ROS 164386	Soil	58	25	1.52	186	0.149	<1	2.18	0.014	0.24	0.1	0.01	6.0	0.2	<0.05	9	<0.5	<0.2
ROS 165780	Soil	31	33	0.64	188	0.073	1	1.72	0.014	0.06	0.1	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 165788	Soil	16	67	1.46	225	0.010	1	2.43	0.006	0.11	<0.1	0.17	5.7	<0.1	<0.05	10	<0.5	<0.2
ROS 165784	Soil	28	45	0.75	170	0.095	<1	2.21	0.019	0.11	0.1	0.02	7.4	<0.1	<0.05	7	<0.5	<0.2
ROS 164383	Soil	11	27	0.74	167	0.100	1	1.80	0.006	0.51	0.4	0.01	5.3	0.3	<0.05	8	<0.5	<0.2
ROS 165786	Soil	16	28	0.59	142	0.066	<1	2.12	0.013	0.39	<0.1	0.02	4.7	<0.1	<0.05	9	<0.5	<0.2
ROS 165789	Soil	12	17	0.40	148	0.037	1	1.12	0.006	0.19	0.1	0.03	3.6	0.1	<0.05	4	<0.5	<0.2
ROS 165791	Soil	18	29	0.44	226	0.047	<1	1.60	0.011	0.07	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164387	Soil	18	27	0.81	183	0.117	<1	1.83	0.009	0.55	0.2	0.02	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 165781	Soil	17	25	0.74	229	0.046	2	2.03	0.009	0.35	0.1	0.01	3.7	0.1	<0.05	9	<0.5	<0.2
ROS 165790	Soil	22	34	0.57	185	0.075	1	1.48	0.022	0.09	0.1	0.04	6.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165785	Soil	19	43	0.54	232	0.076	<1	1.91	0.012	0.07	0.2	0.02	5.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164385	Soil	27	29	0.91	200	0.078	<1	1.71	0.010	0.19	0.3	0.01	4.4	0.1	<0.05	8	<0.5	<0.2
ROS 165783	Soil	16	38	0.86	253	0.095	2	2.29	0.016	0.24	0.7	0.02	4.4	0.1	<0.05	9	<0.5	0.3
ROS 165787	Soil	13	30	0.62	198	0.048	1	2.09	0.009	0.10	0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
ROS 165782	Soil	29	36	0.82	180	0.115	1	1.95	0.013	0.12	0.2	0.02	4.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165793	Soil	23	22	0.50	222	0.041	<1	1.52	0.011	0.08	0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 141776	Soil	22	32	0.60	239	0.085	2	1.74	0.015	0.15	0.2	0.05	4.0	<0.1	<0.05	6	0.6	<0.2
ROS 141775	Soil	12	30	0.56	194	0.079	1	1.86	0.013	0.08	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 147323	Soil	18	34	0.51	220	0.079	2	1.80	0.018	0.06	<0.1	0.04	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 165799	Soil	26	17	0.88	93	0.119	<1	1.78	0.008	0.32	0.1	0.01	4.1	0.1	<0.05	8	<0.5	<0.2
ROS 141780	Soil	17	33	0.71	259	0.121	<1	2.09	0.015	0.22	0.1	0.04	4.8	0.1	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 141778	Soil	0.8	15.1	7.9	49	<0.1	16.0	9.8	569	2.25	4.8	0.6	<0.5	2.9	25	0.2	0.5	0.1	54	0.35	0.030
ROS 147320	Soil	1.9	60.6	19.4	115	<0.1	30.2	13.2	592	3.72	3.9	0.7	<0.5	7.8	27	<0.1	0.4	<0.1	64	0.23	0.029
ROS 165797	Soil	0.6	19.7	8.3	47	<0.1	17.6	8.4	383	2.39	6.2	0.9	1.7	4.5	25	<0.1	0.5	0.1	53	0.35	0.027
ROS 141779	Soil	0.9	19.2	7.8	46	<0.1	19.2	7.5	250	2.45	7.8	0.5	5.7	4.1	20	<0.1	0.5	0.2	60	0.22	0.022
ROS 141777	Soil	0.6	23.2	8.1	62	<0.1	19.5	10.4	481	2.68	4.8	0.9	1.2	4.9	30	<0.1	0.3	0.2	52	0.46	0.034
ROS 147322	Soil	0.9	24.2	12.0	78	<0.1	19.5	10.3	323	3.13	6.3	0.8	1.4	8.1	20	<0.1	0.6	0.3	63	0.23	0.017
ROS 165798	Soil	0.8	18.8	7.0	64	<0.1	12.5	6.9	410	2.63	4.0	0.8	<0.5	11.7	26	<0.1	0.4	<0.1	47	0.29	0.032
ROS 141781	Soil	0.9	21.6	9.1	55	<0.1	25.7	9.3	293	2.75	8.4	0.7	2.9	4.6	23	<0.1	0.7	0.1	59	0.29	0.025
ROS 141774	Soil	1.1	33.4	10.4	82	<0.1	23.9	9.5	377	3.09	5.8	0.8	2.7	7.4	23	<0.1	0.5	0.3	60	0.26	0.025
ROS 147324	Soil	1.0	17.1	13.3	67	<0.1	17.7	7.8	362	2.78	6.2	0.6	3.0	3.5	14	0.1	0.6	0.2	65	0.15	0.039
ROS 165934	Soil	0.8	25.5	7.1	43	<0.1	20.5	9.1	301	2.44	8.2	0.6	3.3	5.9	19	<0.1	0.6	0.1	51	0.26	0.035
ROS 165928	Soil	2.1	22.2	10.8	65	0.5	24.2	11.4	547	3.46	7.3	1.3	51.6	9.4	21	<0.1	1.2	0.1	59	0.36	0.051
ROS 147092	Soil	0.7	39.9	11.0	71	0.5	22.6	10.5	598	2.63	5.7	1.9	6.5	6.1	38	0.2	3.5	0.2	50	1.19	0.049
ROS 147001	Soil	0.9	44.0	27.4	80	0.2	19.2	10.4	639	2.56	3.3	1.2	3.9	6.4	24	<0.1	0.9	0.5	60	0.50	0.048
ROS 165933	Soil	0.7	30.4	8.2	49	0.1	24.4	8.8	334	2.51	8.2	0.9	5.8	4.4	34	<0.1	0.6	0.1	56	0.56	0.051
ROS 165929	Soil	1.4	31.7	10.8	71	0.4	27.2	12.1	480	3.48	8.5	1.1	81.1	8.3	28	<0.1	1.0	0.1	69	0.44	0.045
ROS 147090	Soil	0.8	54.3	14.2	137	1.1	19.7	16.5	753	4.40	5.2	1.4	7.3	12.7	38	0.2	4.5	0.1	105	0.96	0.079
ROS 147008	Soil	0.7	24.1	13.9	65	<0.1	16.9	8.2	331	2.31	5.6	1.5	3.2	7.3	27	0.1	0.6	0.2	54	0.40	0.043
ROS 165932	Soil	1.2	29.4	10.4	56	0.1	23.0	9.1	415	2.65	7.1	1.3	9.4	5.2	36	<0.1	0.9	0.2	55	0.57	0.043
ROS 165927	Soil	1.8	20.5	9.9	64	0.4	22.7	10.7	547	3.27	6.5	1.0	51.9	8.2	22	<0.1	1.0	0.1	60	0.36	0.045
ROS 147002	Soil	0.6	29.7	10.7	78	0.1	20.5	10.9	339	2.37	6.2	1.5	2.1	5.9	25	0.3	0.8	0.2	56	0.52	0.049
ROS 147091	Soil	0.9	18.2	13.4	87	0.3	16.0	9.4	307	3.03	5.6	0.9	3.7	8.0	25	0.1	3.7	0.1	66	0.47	0.041
ROS 165931	Soil	0.7	28.4	8.9	55	0.1	22.2	8.2	319	2.43	7.6	1.3	11.1	4.0	39	<0.1	0.8	0.1	55	0.62	0.047
ROS 165930	Soil	0.6	25.5	8.4	62	0.1	22.3	8.0	334	2.52	8.6	0.5	10.1	4.3	40	0.1	0.8	0.2	53	0.64	0.050
ROS 147089	Soil	0.9	15.5	13.3	52	1.1	12.6	6.3	362	2.21	4.0	1.0	7.0	13.6	29	<0.1	2.4	<0.1	31	0.40	0.024
ROS 147321	Soil	0.9	42.6	14.9	155	<0.1	33.5	17.4	629	4.28	4.6	1.0	<0.5	9.3	25	<0.1	0.6	0.2	91	0.34	0.023
ROS 165792	Soil	0.8	31.4	9.3	98	<0.1	24.3	10.1	384	3.15	5.6	0.7	2.3	5.2	30	<0.1	0.7	0.1	72	0.44	0.039
ROS 147353	Soil	2.0	24.5	10.8	69	<0.1	16.5	11.3	660	3.00	6.3	1.5	3.3	14.4	27	0.1	0.8	0.2	55	0.34	0.024
ROS 147349	Soil	1.5	21.4	7.9	83	<0.1	15.0	10.1	753	3.25	5.1	2.1	3.4	8.6	36	0.1	0.8	0.2	56	0.56	0.067
ROS 160344	Soil	1.3	27.5	5.6	80	<0.1	13.5	10.8	314	3.25	2.3	0.4	1.4	2.0	21	<0.1	0.2	0.1	85	0.34	0.039

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 141778	Soil	11	26	0.47	219	0.081	<1	1.31	0.019	0.12	0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 147320	Soil	5	47	1.38	113	0.092	<1	2.94	0.007	0.19	<0.1	0.02	3.5	0.2	<0.05	10	<0.5	<0.2
ROS 165797	Soil	15	29	0.54	227	0.084	<1	1.33	0.018	0.08	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 141779	Soil	10	32	0.47	162	0.074	1	1.57	0.011	0.07	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 141777	Soil	15	34	0.83	216	0.119	1	1.69	0.016	0.21	0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
ROS 147322	Soil	15	37	0.66	182	0.064	<1	2.42	0.012	0.06	0.1	0.03	4.5	0.1	<0.05	7	<0.5	<0.2
ROS 165798	Soil	22	18	0.82	89	0.111	<1	1.80	0.008	0.28	0.1	0.02	3.6	0.1	<0.05	8	<0.5	0.2
ROS 141781	Soil	16	40	0.57	152	0.087	<1	1.68	0.012	0.10	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 141774	Soil	18	41	0.79	161	0.109	1	2.10	0.011	0.32	<0.1	0.02	4.5	0.2	<0.05	7	<0.5	<0.2
ROS 147324	Soil	12	32	0.48	127	0.063	1	2.04	0.010	0.06	0.2	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
ROS 165934	Soil	9	35	0.44	187	0.070	1	1.82	0.011	0.11	0.2	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165928	Soil	27	35	0.75	288	0.073	1	2.01	0.013	0.38	2.2	0.06	5.6	0.1	<0.05	7	<0.5	<0.2
ROS 147092	Soil	35	32	0.57	599	0.036	3	1.54	0.018	0.12	0.2	0.35	4.6	<0.1	<0.05	5	0.9	0.3
ROS 147001	Soil	32	46	0.66	162	0.059	1	1.81	0.013	0.05	0.1	0.05	5.8	<0.1	<0.05	6	<0.5	<0.2
ROS 165933	Soil	15	30	0.56	262	0.079	2	1.65	0.024	0.06	0.3	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 165929	Soil	25	35	0.73	282	0.092	2	2.33	0.012	0.23	1.7	0.05	6.5	0.1	<0.05	8	<0.5	<0.2
ROS 147090	Soil	31	33	0.85	826	0.034	2	2.00	0.017	0.09	0.2	0.25	10.9	<0.1	<0.05	8	<0.5	<0.2
ROS 147008	Soil	23	30	0.47	253	0.074	2	1.66	0.014	0.06	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165932	Soil	19	32	0.60	295	0.082	1	1.87	0.029	0.08	0.4	0.04	4.5	<0.1	<0.05	6	0.5	<0.2
ROS 165927	Soil	24	32	0.70	299	0.075	2	2.06	0.014	0.35	1.8	0.05	5.5	0.1	<0.05	7	<0.5	<0.2
ROS 147002	Soil	26	31	0.51	250	0.064	1	1.72	0.018	0.06	0.1	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 147091	Soil	18	28	0.62	389	0.050	2	1.70	0.018	0.11	0.2	0.16	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 165931	Soil	16	28	0.59	290	0.064	<1	1.69	0.027	0.06	0.6	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165930	Soil	16	27	0.59	267	0.074	1	1.56	0.028	0.08	0.7	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 147089	Soil	33	17	0.20	912	0.006	2	1.31	0.008	0.10	0.2	0.21	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 147321	Soil	130	97	1.99	255	0.072	1	3.27	0.010	0.27	<0.1	0.02	7.7	0.2	<0.05	10	<0.5	<0.2
ROS 165792	Soil	23	44	0.89	159	0.108	<1	2.01	0.017	0.18	0.1	0.03	4.4	0.1	<0.05	7	<0.5	<0.2
ROS 147353	Soil	38	29	0.60	253	0.074	1	2.07	0.013	0.19	0.2	0.06	4.7	0.1	<0.05	7	<0.5	<0.2
ROS 147349	Soil	27	23	0.83	408	0.093	<1	1.94	0.016	0.37	0.2	0.04	6.3	<0.1	<0.05	7	0.7	<0.2
ROS 160344	Soil	8	26	0.83	156	0.109	<1	1.87	0.024	0.14	0.4	0.02	5.3	<0.1	<0.05	7	<0.5	0.3

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165794	Soil	0.8	38.7	12.0	147	0.1	19.4	18.1	827	3.76	4.6	1.1	1.7	6.4	53	0.1	0.9	0.2	69	0.77	0.033
ROS 147350	Soil	1.4	32.1	10.9	58	<0.1	17.5	8.1	420	2.68	6.6	2.0	9.1	8.0	29	<0.1	0.9	0.1	51	0.42	0.044
ROS 147356	Soil	1.0	31.7	8.4	64	<0.1	24.3	9.8	374	2.78	8.3	0.8	2.9	6.0	34	<0.1	0.7	0.2	66	0.46	0.049
ROS 160343	Soil	0.9	28.7	4.4	53	<0.1	15.3	10.6	247	2.68	2.8	0.5	1.4	1.7	20	<0.1	0.2	<0.1	66	0.36	0.040
ROS 165796	Soil	0.4	39.5	5.5	86	<0.1	32.0	14.5	715	3.53	4.8	1.3	3.6	14.3	29	<0.1	0.5	<0.1	60	0.45	0.034
ROS 147355	Soil	0.4	33.3	8.9	62	0.1	22.3	10.8	299	2.63	6.6	2.7	4.5	5.6	37	0.2	0.8	0.2	60	0.60	0.074
ROS 147354	Soil	1.9	23.8	14.8	73	<0.1	17.8	10.4	719	3.32	5.3	1.1	1.8	13.7	26	0.1	0.8	0.2	62	0.55	0.035
ROS 147088	Soil	1.4	52.4	15.1	71	1.8	33.6	11.1	407	3.12	10.1	1.0	8.4	11.4	36	<0.1	4.2	0.2	61	0.48	0.025
ROS 165795	Soil	0.9	36.5	10.2	98	<0.1	55.2	18.7	696	3.78	4.3	1.0	<0.5	5.1	59	<0.1	0.4	<0.1	86	0.62	0.072
ROS 147351	Soil	1.2	24.3	9.3	55	0.1	14.3	7.8	470	2.51	4.9	2.7	3.8	8.0	37	<0.1	0.8	0.1	44	0.53	0.060
ROS 147352	Soil	1.5	18.9	10.4	73	<0.1	12.8	9.1	512	3.02	4.7	1.5	1.8	18.6	24	<0.1	0.9	0.3	43	0.37	0.032
ROS 147330	Soil	1.0	28.0	31.3	73	<0.1	19.3	7.2	238	2.49	6.3	0.7	17.3	5.4	17	<0.1	0.7	0.3	47	0.37	0.016
ROS 160348	Soil	0.8	21.2	4.3	43	0.1	19.0	11.1	261	2.42	3.5	0.3	4.0	1.9	17	<0.1	0.3	<0.1	61	0.30	0.039
ROS 164017	Soil	0.7	13.2	4.4	30	<0.1	11.7	5.4	117	1.52	3.2	0.4	5.3	0.9	12	<0.1	0.2	<0.1	39	0.26	0.045
ROS 164014	Soil	0.4	8.3	4.1	32	<0.1	9.1	4.2	104	1.46	2.3	0.4	2.6	0.7	12	<0.1	0.1	<0.1	31	0.19	0.033
ROS 164690	Soil	2.6	18.5	6.6	68	<0.1	7.3	8.0	505	3.36	2.6	3.4	0.6	15.7	32	<0.1	0.1	0.1	50	0.29	0.038
ROS 160347	Soil	1.0	26.0	4.7	54	0.1	17.6	12.6	341	2.83	4.3	0.9	1.5	1.8	25	0.2	0.3	<0.1	64	0.46	0.052
ROS 164018	Soil	0.9	19.8	5.1	35	<0.1	13.9	7.2	143	1.89	3.7	0.6	8.5	1.2	14	<0.1	0.2	0.1	48	0.30	0.044
ROS 164015	Soil	0.4	9.9	4.5	37	<0.1	12.3	5.4	109	1.73	3.0	0.4	1.2	0.8	13	<0.1	0.2	<0.1	37	0.23	0.046
ROS 164692	Soil	0.4	5.2	4.1	106	<0.1	6.0	10.0	959	3.90	0.8	1.4	<0.5	16.6	27	<0.1	<0.1	0.1	53	0.50	0.056
ROS 160346	Soil	0.9	25.8	4.5	56	0.1	17.8	12.4	332	2.78	4.0	0.8	2.0	1.8	24	<0.1	0.2	<0.1	64	0.45	0.052
ROS 164019	Soil	1.6	25.2	3.3	40	<0.1	21.7	12.9	281	2.33	3.3	0.4	2.0	1.9	18	<0.1	0.2	<0.1	61	0.38	0.059
ROS 164016	Soil	0.5	10.8	4.3	33	<0.1	11.2	5.7	109	1.60	3.3	0.3	2.2	0.8	11	<0.1	0.2	<0.1	41	0.24	0.042
ROS 164691	Soil	1.3	17.6	5.0	85	<0.1	6.4	9.4	838	3.73	1.8	2.5	0.7	20.6	32	<0.1	0.1	0.4	50	0.35	0.043
ROS 160345	Soil	1.2	25.1	6.1	74	<0.1	14.0	10.4	298	3.18	2.6	0.4	1.7	2.0	19	<0.1	0.2	0.1	80	0.33	0.038
ROS 164020	Soil	1.1	21.4	5.8	38	<0.1	15.9	9.5	179	2.27	4.5	0.6	3.8	2.2	15	<0.1	0.2	0.1	59	0.34	0.043
ROS 164013	Soil	0.6	10.5	5.5	45	<0.1	12.8	6.5	161	2.01	3.8	0.5	4.8	1.4	16	0.1	0.2	0.1	42	0.26	0.048
ROS 164693	Soil	0.7	5.6	4.5	48	<0.1	6.2	8.0	472	2.11	1.0	2.9	0.8	14.8	68	<0.1	<0.1	0.1	29	1.25	0.036
ROS 164688	Soil	0.9	15.2	4.1	298	<0.1	6.1	12.2	1403	4.39	1.4	4.7	<0.5	33.7	26	0.3	0.1	0.2	44	0.49	0.063
ROS 164684	Soil	0.6	9.6	5.3	74	<0.1	7.7	8.4	731	3.64	2.4	1.6	0.7	17.3	31	<0.1	0.1	<0.1	47	0.56	0.060

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 165794	Soil	22	29	1.40	161	0.194	1	2.62	0.014	0.24	0.2	0.06	4.0	0.2	<0.05	9	<0.5	0.3
ROS 147350	Soil	31	28	0.51	258	0.057	<1	1.65	0.014	0.11	0.2	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147356	Soil	17	37	0.58	272	0.103	1	1.58	0.026	0.10	0.2	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 160343	Soil	9	27	0.70	162	0.103	<1	1.83	0.024	0.09	0.6	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165796	Soil	26	61	1.23	201	0.188	<1	2.00	0.018	0.36	0.1	0.04	7.9	0.1	<0.05	9	0.7	<0.2
ROS 147355	Soil	18	32	0.49	310	0.080	1	1.56	0.022	0.08	0.3	0.05	4.5	<0.1	<0.05	5	0.5	<0.2
ROS 147354	Soil	28	32	0.39	400	0.050	<1	1.95	0.011	0.14	0.2	0.03	5.8	0.1	<0.05	7	<0.5	<0.2
ROS 147088	Soil	31	35	0.54	557	0.055	1	2.10	0.025	0.09	0.2	0.33	5.6	<0.1	<0.05	6	0.7	<0.2
ROS 165795	Soil	14	170	1.71	248	0.212	2	2.28	0.012	0.59	0.2	0.02	4.8	0.2	<0.05	10	<0.5	<0.2
ROS 147351	Soil	31	21	0.48	332	0.034	1	1.43	0.012	0.10	0.2	0.05	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147352	Soil	37	22	0.70	236	0.048	<1	1.99	0.009	0.28	0.1	0.11	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 147330	Soil	15	33	0.55	275	0.025	<1	1.76	0.008	0.09	0.2	0.18	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 160348	Soil	7	33	0.69	153	0.099	<1	1.58	0.016	0.12	0.7	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 164017	Soil	7	19	0.39	110	0.055	1	1.00	0.016	0.05	0.2	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164014	Soil	7	19	0.37	90	0.055	<1	1.02	0.012	0.04	0.4	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
ROS 164690	Soil	39	13	0.71	122	0.155	<1	2.23	0.008	0.71	<0.1	<0.01	2.9	0.4	<0.05	8	<0.5	<0.2
ROS 160347	Soil	17	29	0.78	252	0.095	<1	1.90	0.018	0.13	0.5	0.04	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 164018	Soil	8	23	0.50	134	0.063	<1	1.34	0.017	0.05	0.3	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 164015	Soil	7	26	0.44	117	0.055	<1	1.17	0.012	0.04	0.2	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 164692	Soil	27	9	1.25	206	0.195	<1	2.62	0.011	1.10	<0.1	<0.01	6.0	0.5	<0.05	10	<0.5	<0.2
ROS 160346	Soil	17	30	0.79	235	0.094	1	1.86	0.019	0.13	0.5	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
ROS 164019	Soil	7	34	0.84	155	0.101	<1	1.50	0.018	0.18	0.4	0.02	3.0	0.1	<0.05	4	<0.5	<0.2
ROS 164016	Soil	6	20	0.42	90	0.055	<1	1.10	0.016	0.04	0.2	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 164691	Soil	38	12	0.92	197	0.167	<1	2.24	0.011	1.04	0.1	<0.01	5.1	0.4	<0.05	9	<0.5	0.3
ROS 160345	Soil	8	26	0.85	154	0.100	<1	1.92	0.021	0.13	0.5	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
ROS 164020	Soil	9	25	0.55	146	0.077	1	1.62	0.017	0.06	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164013	Soil	9	23	0.44	143	0.075	1	1.39	0.013	0.06	0.3	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 164693	Soil	73	5	0.42	131	0.110	<1	2.82	0.007	0.26	<0.1	<0.01	3.2	<0.1	<0.05	10	<0.5	<0.2
ROS 164688	Soil	65	7	1.15	223	0.063	<1	2.54	0.010	0.69	<0.1	0.01	3.8	0.3	<0.05	10	<0.5	<0.2
ROS 164684	Soil	26	12	1.10	177	0.130	<1	2.45	0.012	0.77	0.1	<0.01	4.1	0.4	<0.05	9	<0.5	<0.2

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164143	Soil	1.4	14.9	10.4	98	<0.1	12.5	9.7	645	3.36	4.4	1.5	0.9	9.4	20	<0.1	0.3	0.2	61	0.26	0.039
ROS 164137	Soil	0.7	15.8	6.1	83	0.1	5.9	5.4	224	2.13	1.9	0.7	10.7	1.2	25	<0.1	<0.1	0.1	48	0.17	0.036
ROS 164686	Soil	1.0	5.1	6.4	134	<0.1	4.3	8.4	1139	3.49	1.8	2.2	0.9	24.0	19	<0.1	<0.1	0.1	39	0.55	0.075
ROS 164682	Soil	1.4	27.9	9.1	62	0.1	21.7	9.4	418	2.55	7.9	1.6	2.6	4.8	31	0.2	0.4	0.2	56	0.47	0.053
ROS 164142	Soil	2.0	14.5	8.6	72	0.1	13.0	7.3	385	2.43	5.0	1.8	2.2	4.7	22	0.3	0.2	0.2	49	0.32	0.042
ROS 164136	Soil	1.5	24.7	33.4	98	0.1	13.1	8.9	506	2.70	4.8	1.6	1.5	7.3	27	0.3	0.3	0.3	55	0.22	0.028
ROS 164685	Soil	1.1	5.2	6.2	124	<0.1	4.4	7.9	1092	3.29	1.9	2.3	0.6	23.8	20	0.1	<0.1	0.1	37	0.56	0.082
ROS 164683	Soil	0.6	9.0	5.0	74	<0.1	7.1	8.1	746	3.65	1.9	1.5	0.6	17.0	31	<0.1	0.1	<0.1	47	0.56	0.062
ROS 164141	Soil	1.7	19.7	7.7	85	<0.1	12.9	11.2	537	3.12	5.1	1.1	2.0	6.3	21	0.2	0.2	0.2	65	0.31	0.037
ROS 164139	Soil	1.0	24.6	6.8	108	0.2	9.5	10.6	472	2.93	2.4	0.9	1.2	2.7	28	0.1	0.1	0.1	70	0.26	0.046
ROS 164687	Soil	0.5	39.8	6.7	347	<0.1	3.9	8.2	959	3.65	0.8	2.1	0.6	19.8	25	0.2	<0.1	0.2	41	0.55	0.058
ROS 164689	Soil	2.1	15.5	6.9	86	<0.1	10.2	12.9	858	4.34	3.9	3.2	<0.5	17.0	27	<0.1	0.2	0.1	66	0.21	0.037
ROS 164140	Soil	1.5	26.1	7.1	107	0.2	13.6	12.7	728	3.64	3.5	1.4	2.4	5.2	34	0.1	0.2	0.2	89	0.61	0.043
ROS 164138	Soil	0.7	22.9	6.9	94	0.2	6.8	6.0	243	2.21	2.2	0.8	2.1	1.4	22	0.1	<0.1	0.2	48	0.16	0.039
ROS 164135	Soil	2.9	26.7	97.3	145	0.4	11.0	15.5	1186	2.77	2.8	2.7	1.3	6.7	24	0.9	0.2	0.5	58	0.19	0.047
ROS 160093	Soil	2.9	46.0	5.4	130	<0.1	18.0	12.4	328	4.37	1.9	1.6	<0.5	8.0	19	0.2	0.1	0.3	111	0.19	0.062
ROS 160087	Soil	0.9	17.7	9.0	53	<0.1	21.7	10.3	291	2.63	8.8	0.8	2.1	3.8	17	<0.1	0.4	0.2	58	0.15	0.036
ROS 160086	Soil	0.4	29.4	4.7	47	<0.1	32.4	12.1	295	3.29	3.5	0.8	<0.5	7.0	35	<0.1	0.2	0.4	68	0.17	0.029
ROS 164132	Soil	2.0	37.8	25.8	284	0.4	10.9	17.9	1098	3.45	4.2	3.6	1.5	13.0	45	0.6	0.2	0.2	62	0.28	0.053
ROS 160092	Soil	1.6	117.4	9.1	143	0.5	28.0	12.7	367	3.17	7.0	1.5	5.2	6.1	20	0.1	0.4	0.4	64	0.14	0.027
ROS 160090	Soil	3.1	89.3	11.2	261	<0.1	37.1	26.8	470	6.24	5.1	0.8	2.3	5.0	42	0.2	0.3	0.8	158	0.20	0.054
ROS 160085	Soil	1.6	43.0	58.4	671	0.5	34.4	11.2	697	3.89	7.4	0.6	<0.5	5.3	31	0.3	0.3	0.7	102	0.15	0.028
ROS 164133	Soil	2.1	45.0	65.6	250	0.1	8.8	12.3	504	3.93	3.7	3.3	0.8	18.3	57	0.5	0.2	0.3	65	0.23	0.039
ROS 160095	Soil	1.4	50.2	5.4	191	<0.1	36.1	16.0	398	3.40	2.2	1.8	1.0	10.3	22	0.4	0.1	0.1	81	0.30	0.075
ROS 160091	Soil	0.5	33.4	6.8	107	<0.1	18.2	13.2	459	4.02	1.6	1.6	<0.5	14.6	31	0.4	0.1	0.3	39	0.08	0.047
ROS 160084	Soil	1.4	16.2	13.4	211	<0.1	25.7	9.6	524	3.77	3.1	1.1	<0.5	13.1	39	0.3	0.1	0.2	51	0.16	0.030
ROS 164134	Soil	1.7	23.2	29.5	126	<0.1	11.7	8.2	411	3.40	6.5	1.8	1.4	8.7	26	0.3	0.3	0.2	70	0.20	0.022
ROS 160094	Soil	1.6	34.7	5.6	122	<0.1	27.0	13.4	387	3.57	3.7	1.5	1.3	9.2	28	0.4	0.2	0.2	84	0.19	0.042
ROS 160089	Soil	1.4	26.6	8.0	82	<0.1	26.2	11.9	281	3.81	1.7	1.8	2.6	17.1	21	<0.1	<0.1	0.2	39	0.12	0.069
ROS 160088	Soil	0.4	17.4	5.7	103	<0.1	24.9	13.3	318	2.96	3.0	0.7	<0.5	5.3	24	<0.1	0.2	<0.1	58	0.12	0.030

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164143	Soil	20	21	1.10	171	0.146	<1	2.47	0.012	0.55	<0.1	0.02	3.6	0.4	<0.05	9	<0.5	<0.2
ROS 164137	Soil	7	14	0.56	108	0.098	<1	1.44	0.009	0.30	0.1	0.04	1.7	0.2	<0.05	6	<0.5	<0.2
ROS 164686	Soil	57	8	1.76	173	0.149	<1	2.56	0.011	1.01	<0.1	<0.01	4.2	0.5	<0.05	9	<0.5	<0.2
ROS 164682	Soil	16	31	0.59	267	0.081	1	1.57	0.016	0.07	0.1	0.03	3.8	<0.1	<0.05	5	0.6	<0.2
ROS 164142	Soil	24	19	0.60	210	0.090	2	1.79	0.009	0.13	<0.1	0.04	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 164136	Soil	19	23	0.62	192	0.113	<1	1.76	0.014	0.22	<0.1	0.02	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 164685	Soil	57	7	1.62	167	0.138	<1	2.45	0.011	0.90	<0.1	<0.01	3.8	0.4	<0.05	9	<0.5	<0.2
ROS 164683	Soil	26	11	1.10	170	0.131	<1	2.39	0.011	0.83	<0.1	<0.01	4.0	0.5	<0.05	9	<0.5	<0.2
ROS 164141	Soil	14	23	0.79	161	0.111	<1	1.96	0.011	0.24	0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 164139	Soil	10	23	0.97	156	0.129	<1	2.01	0.011	0.56	<0.1	0.03	2.7	0.3	<0.05	7	<0.5	<0.2
ROS 164687	Soil	50	9	1.25	153	0.112	<1	2.72	0.010	1.16	<0.1	0.01	3.4	0.5	<0.05	11	<0.5	<0.2
ROS 164689	Soil	45	17	0.90	196	0.178	<1	2.48	0.012	1.14	<0.1	0.01	4.6	0.6	<0.05	10	<0.5	<0.2
ROS 164140	Soil	13	25	1.22	211	0.147	<1	2.41	0.014	0.49	<0.1	0.02	4.0	0.3	<0.05	9	<0.5	<0.2
ROS 164138	Soil	7	17	0.64	118	0.086	1	1.46	0.008	0.33	<0.1	0.03	1.7	0.2	<0.05	6	<0.5	<0.2
ROS 164135	Soil	27	20	0.55	282	0.092	<1	1.82	0.010	0.28	<0.1	0.03	2.7	0.2	<0.05	7	<0.5	<0.2
ROS 160093	Soil	30	25	1.03	359	0.318	3	2.32	0.015	1.03	<0.1	<0.01	4.3	0.5	0.07	9	<0.5	<0.2
ROS 160087	Soil	13	31	0.48	211	0.070	2	2.05	0.013	0.05	0.1	0.03	3.6	0.1	<0.05	5	1.1	<0.2
ROS 160086	Soil	24	57	1.11	174	0.235	1	2.52	0.015	0.70	0.1	<0.01	5.3	0.4	<0.05	9	<0.5	<0.2
ROS 164132	Soil	49	17	0.83	327	0.198	<1	2.18	0.017	0.84	<0.1	0.02	4.6	0.5	<0.05	9	0.6	<0.2
ROS 160092	Soil	16	32	0.78	198	0.120	1	2.31	0.014	0.33	0.1	0.06	4.3	0.3	<0.05	6	0.8	<0.2
ROS 160090	Soil	10	36	1.77	605	0.242	2	4.34	0.025	0.88	0.3	0.03	8.1	0.5	<0.05	13	1.1	<0.2
ROS 160085	Soil	11	47	1.64	521	0.254	2	3.37	0.013	0.70	0.2	0.03	5.2	0.4	<0.05	11	0.6	0.4
ROS 164133	Soil	45	15	0.93	288	0.205	<1	2.42	0.015	0.87	<0.1	0.02	4.9	0.6	<0.05	9	0.7	<0.2
ROS 160095	Soil	40	39	1.02	530	0.248	<1	2.15	0.016	0.75	<0.1	0.01	6.6	0.4	<0.05	8	0.7	<0.2
ROS 160091	Soil	43	34	0.95	291	0.224	<1	2.26	0.017	1.12	<0.1	<0.01	3.6	0.7	0.12	7	0.7	<0.2
ROS 160084	Soil	23	38	1.46	1902	0.262	<1	2.62	0.010	0.91	<0.1	<0.01	4.3	0.7	<0.05	10	0.8	<0.2
ROS 164134	Soil	17	21	0.80	231	0.183	2	1.92	0.018	0.57	0.1	0.02	5.1	0.3	<0.05	8	0.8	<0.2
ROS 160094	Soil	25	51	1.17	1033	0.257	1	2.22	0.016	0.74	<0.1	0.01	6.4	0.4	<0.05	9	<0.5	<0.2
ROS 160089	Soil	37	43	0.78	212	0.139	<1	2.00	0.012	0.70	<0.1	0.01	3.3	0.6	<0.05	6	<0.5	<0.2
ROS 160088	Soil	16	27	0.84	173	0.180	<1	2.10	0.016	0.62	<0.1	0.02	2.9	0.5	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 02, 2010

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CERTIFICATE OF ANALYSIS

WHI10000593.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 166012	Soil		0.5	29.5	16.8	73	0.1	20.8	9.9	454	2.61	6.8	0.4	3.2	3.4	31	0.2	0.5	0.1	60	0.90	0.050
ROS 147074	Soil		0.6	23.0	16.9	35	0.3	17.7	7.9	276	1.74	9.0	0.8	2.1	0.9	78	0.2	1.2	0.1	37	5.60	0.058
ROS 147076	Soil		0.4	27.3	8.0	47	<0.1	23.5	8.7	370	2.35	9.2	0.4	2.2	2.2	50	<0.1	0.5	0.1	52	2.86	0.034
ROS 165669	Soil		0.8	19.6	8.0	53	<0.1	21.9	7.9	270	2.58	8.7	0.5	1.4	4.4	29	<0.1	0.5	0.1	59	0.27	0.029
ROS 173388	Soil		0.6	39.3	9.2	47	<0.1	30.8	10.1	336	2.68	8.4	0.5	2.7	4.3	65	0.1	0.6	0.1	59	2.84	0.038
ROS 173402	Soil		1.3	22.2	13.9	78	0.2	16.7	8.1	460	2.62	6.0	1.2	10.2	11.9	24	<0.1	1.4	0.2	46	0.35	0.036
ROS 147080	Soil		0.6	32.3	8.5	50	<0.1	25.9	10.0	376	2.40	10.4	0.3	3.8	3.1	44	<0.1	0.6	0.2	54	2.49	0.021
ROS 165655	Soil		0.6	22.0	10.3	44	<0.1	26.8	9.9	425	2.60	11.1	0.4	4.2	3.8	24	<0.1	0.6	0.2	61	1.08	0.015
ROS 173386	Soil		0.3	22.7	4.8	156	<0.1	11.6	8.8	833	3.49	4.1	0.4	2.0	3.8	27	0.1	0.4	<0.1	53	0.53	0.078
ROS 147075	Soil		0.5	30.3	8.1	42	0.1	23.3	8.3	298	2.15	9.5	0.4	1.9	1.4	54	0.1	0.4	0.1	50	3.28	0.045
ROS 147079	Soil		0.5	31.6	8.5	51	<0.1	25.5	9.6	391	2.49	10.1	0.3	2.3	3.2	40	<0.1	0.5	0.2	57	2.09	0.023
ROS 165672	Soil		0.9	12.3	9.1	53	<0.1	15.4	7.2	294	2.24	6.1	0.5	<0.5	3.3	23	<0.1	0.4	0.1	54	0.20	0.022
ROS 173384	Soil		0.4	38.3	7.0	110	<0.1	15.5	12.2	566	3.22	4.2	0.4	1.3	1.6	44	<0.1	0.3	<0.1	64	0.49	0.093
ROS 147078	Soil		0.5	44.7	7.3	47	0.1	27.0	8.5	337	1.99	10.7	0.5	11.3	2.0	101	0.1	0.6	0.1	49	7.06	0.045
ROS 147077	Soil		0.4	27.2	8.4	47	<0.1	23.4	9.0	369	2.35	9.3	0.5	2.8	2.4	53	0.1	0.5	0.1	53	2.90	0.037
ROS 165673	Soil		0.6	10.7	8.9	50	<0.1	12.5	6.8	242	2.02	5.0	0.6	0.6	3.3	24	<0.1	0.3	0.1	45	0.25	0.024
ROS 165656	Soil		0.6	30.0	9.2	48	<0.1	26.1	9.1	353	2.35	10.7	0.4	2.7	3.1	30	<0.1	0.5	0.2	57	1.37	0.030
ROS 165661	Soil		1.8	22.1	12.2	70	0.1	27.7	10.4	506	3.10	8.5	0.8	2.2	5.5	30	<0.1	0.8	0.2	58	0.40	0.036
ROS 165775	Soil		0.5	27.7	6.9	47	<0.1	21.7	7.4	221	2.40	8.9	0.9	1.6	5.4	26	<0.1	0.6	0.1	58	0.27	0.037
ROS 165769	Soil		0.6	47.0	37.8	208	<0.1	11.2	8.8	378	2.30	6.4	0.5	<0.5	5.5	41	0.6	1.0	0.7	46	0.20	0.039
ROS 165668	Soil		0.9	19.5	9.8	73	<0.1	21.0	9.2	406	2.72	8.8	0.6	0.7	7.2	43	<0.1	0.5	0.1	61	0.27	0.035
ROS 165654	Soil		0.3	29.7	9.3	44	0.1	26.9	10.3	523	2.62	9.5	0.5	3.9	3.2	23	<0.1	0.4	0.2	55	0.63	0.043
ROS 165777	Soil		0.6	16.2	15.9	141	<0.1	13.1	11.3	516	3.58	5.1	0.7	1.7	5.8	74	0.2	1.3	<0.1	68	0.60	0.105
ROS 165772	Soil		1.5	64.7	7.9	105	<0.1	24.5	13.8	547	3.89	26.7	0.9	7.8	3.1	38	0.1	1.0	<0.1	100	0.56	0.073
ROS 165657	Soil		0.6	28.4	9.3	46	0.1	24.8	9.4	357	2.14	12.9	0.4	9.2	2.9	38	0.2	0.8	0.2	51	2.87	0.029
ROS 165660	Soil		0.7	27.0	19.6	92	<0.1	16.2	12.0	615	3.20	4.2	1.2	2.1	12.0	68	0.1	1.0	<0.1	52	0.57	0.058
ROS 165776	Soil		0.6	13.8	16.2	129	<0.1	16.1	11.0	557	3.46	8.5	0.7	0.7	8.1	67	0.2	1.6	<0.1	69	0.46	0.074
ROS 165768	Soil		0.5	34.6	6.3	97	0.1	12.2	9.5	303	2.59	5.0	0.5	6.8	3.0	30	<0.1	0.8	<0.1	63	0.33	0.050
ROS 165659	Soil		0.7	34.8	10.3	76	<0.1	29.1	12.1	500	3.02	8.4	1.1	3.6	10.7	29	0.1	0.8	0.1	56	0.41	0.042
ROS 165658	Soil		0.9	23.8	11.5	66	0.1	17.7	8.0	265	2.77	8.2	0.8	8.2	5.6	27	0.1	1.1	0.3	53	0.96	0.033

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 166012	Soil	15	30	0.88	228	0.100	1	1.83	0.024	0.16	0.1	0.06	6.0	0.1	<0.05	6	<0.5	<0.2
ROS 147074	Soil	9	18	0.42	218	0.019	6	1.05	0.015	0.06	0.2	0.06	2.0	<0.1	<0.05	3	<0.5	<0.2
ROS 147076	Soil	12	26	0.48	249	0.055	1	1.46	0.023	0.04	0.2	0.04	3.5	<0.1	<0.05	4	0.5	<0.2
ROS 165669	Soil	10	35	0.50	182	0.079	<1	1.66	0.012	0.11	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	0.3
ROS 173388	Soil	15	29	0.73	278	0.122	2	2.02	0.034	0.08	0.2	0.05	5.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173402	Soil	56	29	0.51	169	0.016	<1	1.82	0.011	0.16	0.1	0.08	3.8	<0.1	<0.05	8	<0.5	<0.2
ROS 147080	Soil	14	28	0.52	255	0.063	1	1.50	0.021	0.05	0.2	0.05	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 165655	Soil	15	35	0.55	228	0.067	1	1.71	0.022	0.05	0.2	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173386	Soil	21	13	1.41	377	0.174	<1	1.96	0.023	0.55	0.1	0.03	13.2	0.3	<0.05	9	<0.5	<0.2
ROS 147075	Soil	11	24	0.46	254	0.050	2	1.45	0.022	0.05	0.2	0.06	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 147079	Soil	13	28	0.48	290	0.061	1	1.60	0.022	0.05	0.2	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 165672	Soil	9	27	0.46	181	0.068	<1	1.38	0.011	0.07	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173384	Soil	7	24	1.33	176	0.213	<1	1.96	0.010	0.61	0.2	0.02	3.2	0.3	<0.05	8	<0.5	<0.2
ROS 147078	Soil	11	25	0.55	309	0.055	2	1.27	0.028	0.05	0.2	0.08	3.0	<0.1	<0.05	3	<0.5	<0.2
ROS 147077	Soil	12	28	0.53	252	0.059	2	1.56	0.024	0.04	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165673	Soil	10	24	0.46	148	0.058	<1	1.26	0.013	0.06	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 165656	Soil	14	32	0.64	233	0.061	1	1.56	0.022	0.06	0.2	0.05	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165661	Soil	15	47	0.55	264	0.096	<1	1.99	0.012	0.21	0.2	0.04	5.6	<0.1	<0.05	7	<0.5	0.2
ROS 165775	Soil	20	36	0.51	164	0.089	<1	1.37	0.016	0.06	0.2	0.02	5.3	<0.1	<0.05	4	<0.5	<0.2
ROS 165769	Soil	5	25	0.81	155	0.106	<1	1.81	0.008	0.07	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
ROS 165668	Soil	10	38	0.60	190	0.101	<1	1.88	0.011	0.11	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 165654	Soil	13	30	0.60	418	0.056	2	1.65	0.022	0.05	0.2	0.04	4.4	<0.1	0.05	4	0.7	<0.2
ROS 165777	Soil	12	26	0.94	170	0.046	2	2.35	0.010	0.20	0.2	0.03	3.7	<0.1	<0.05	11	<0.5	<0.2
ROS 165772	Soil	13	37	1.36	185	0.127	1	2.24	0.014	0.11	0.2	0.03	6.0	<0.1	<0.05	9	<0.5	<0.2
ROS 165657	Soil	13	25	0.54	202	0.044	2	1.27	0.017	0.06	0.3	0.15	3.5	<0.1	<0.05	4	0.6	<0.2
ROS 165660	Soil	38	22	1.06	176	0.128	<1	2.25	0.009	0.35	0.2	0.04	3.0	0.2	<0.05	8	<0.5	<0.2
ROS 165776	Soil	16	31	0.76	191	0.073	2	2.18	0.018	0.10	0.2	<0.01	4.1	<0.1	<0.05	10	<0.5	<0.2
ROS 165768	Soil	9	22	0.90	187	0.109	1	1.81	0.012	0.19	<0.1	0.11	2.2	0.1	<0.05	7	0.7	<0.2
ROS 165659	Soil	27	31	0.74	230	0.096	2	1.71	0.016	0.14	0.2	0.03	4.5	0.1	<0.05	6	0.6	<0.2
ROS 165658	Soil	14	28	0.54	209	0.037	<1	1.65	0.012	0.11	0.3	0.04	4.1	<0.1	<0.05	5	0.7	<0.2

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 Report Date: November 02, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 165778	Soil	0.6	29.5	11.8	79	<0.1	19.5	10.5	457	2.80	7.1	1.1	6.7	8.1	49	0.2	1.5	0.2	53	0.54	0.078
ROS 165779	Soil	0.7	20.4	7.9	97	<0.1	16.0	10.9	440	3.23	7.3	0.7	1.5	4.8	30	<0.1	1.1	0.2	63	0.37	0.065
ROS 165774	Soil	0.7	23.4	8.4	65	<0.1	20.5	8.7	325	2.45	6.3	1.1	2.0	7.4	39	<0.1	0.6	0.1	55	0.36	0.028
ROS 165773	Soil	0.6	27.6	7.3	56	<0.1	23.9	10.2	388	2.55	10.3	0.7	3.7	3.5	33	0.2	0.6	0.1	53	0.68	0.057
ROS 151804	Soil	0.9	37.8	10.9	70	<0.1	29.1	10.4	463	2.65	8.2	0.6	3.9	4.8	36	<0.1	0.9	0.2	57	0.70	0.035
ROS 151793	Soil	1.5	26.5	11.6	59	0.2	27.1	9.8	396	2.72	8.8	0.8	5.1	6.5	23	0.1	1.0	0.2	53	0.33	0.021
ROS 165528	Soil	0.9	20.0	7.5	56	<0.1	18.8	9.9	600	2.82	6.2	0.4	2.4	4.1	23	<0.1	0.5	0.1	56	0.42	0.031
ROS 165529	Soil	0.4	25.8	8.4	55	0.2	15.6	7.4	344	2.11	3.9	1.7	23.0	4.5	40	0.1	0.6	0.2	40	0.92	0.065
ROS 151795	Soil	1.2	35.2	12.7	63	0.3	26.0	10.7	502	2.65	9.3	0.5	4.4	5.3	33	0.1	1.2	0.2	53	0.63	0.042
ROS 151801	Soil	1.1	28.2	13.2	73	<0.1	24.5	11.3	450	3.05	7.1	1.4	4.1	14.7	22	<0.1	0.9	0.2	50	0.54	0.037
ROS 165771	Soil	0.4	41.7	10.4	122	0.1	12.5	13.1	503	3.06	5.6	0.6	0.7	4.1	47	0.2	1.4	<0.1	49	0.41	0.069
ROS 165530	Soil	1.3	26.4	10.5	57	<0.1	26.4	11.2	466	2.68	7.1	0.6	2.8	4.5	31	<0.1	0.6	0.2	61	0.34	0.019
ROS 165514	Soil	1.3	27.6	16.9	56	1.0	19.5	8.2	341	2.38	6.8	2.0	5.9	5.8	35	<0.1	2.0	0.3	43	0.58	0.034
ROS 151796	Soil	1.8	32.3	17.1	98	<0.1	22.6	12.1	886	3.27	8.0	0.7	2.6	8.2	28	<0.1	0.8	0.3	50	0.47	0.038
ROS 165770	Soil	1.6	22.8	37.3	261	0.4	13.5	7.3	320	2.20	6.2	0.4	1.8	3.8	20	0.9	1.4	0.4	41	0.14	0.035
ROS 165526	Soil	1.1	21.9	8.0	71	<0.1	11.8	10.8	437	3.21	2.6	0.8	2.7	4.6	20	<0.1	0.4	<0.1	63	0.40	0.030
ROS 151805	Soil	0.6	34.8	17.2	122	<0.1	19.2	14.4	745	3.97	5.4	1.5	3.1	12.7	42	0.1	2.4	0.3	70	0.60	0.103
ROS 165512	Soil	1.5	43.1	15.3	61	1.8	30.4	13.2	972	2.99	8.2	0.7	7.2	5.1	31	0.1	2.0	0.2	63	0.44	0.026
ROS 166026	Soil	0.5	32.8	9.1	47	<0.1	26.4	9.3	376	2.57	9.9	0.4	2.8	3.3	37	<0.1	0.6	0.2	56	1.47	0.023
ROS 166020	Soil	0.4	26.9	8.8	51	0.2	19.8	8.8	400	2.15	8.0	0.8	3.4	1.2	53	0.2	0.8	0.1	39	2.06	0.050
ROS 166027	Soil	0.5	34.7	8.9	47	0.1	23.4	9.2	321	2.17	9.9	0.4	7.9	2.2	63	0.1	0.5	0.1	46	4.49	0.040
ROS 160193	Soil	0.5	33.9	8.7	47	<0.1	24.1	8.9	335	2.14	9.4	0.4	7.3	2.2	62	0.2	0.5	0.1	45	4.45	0.039
ROS 166029	Soil	0.9	20.5	10.7	86	<0.1	13.1	6.3	430	2.17	4.5	0.8	3.4	10.1	18	<0.1	0.4	0.1	32	0.27	0.047
ROS 166028	Soil	1.0	18.9	15.2	76	0.2	19.5	9.0	454	2.83	7.7	0.9	1.5	5.3	18	<0.1	1.0	0.2	60	0.32	0.053
ROS 166021	Soil	0.4	30.4	9.1	52	0.1	23.0	8.9	377	2.24	9.6	0.5	2.8	1.9	48	0.2	0.6	0.1	45	2.53	0.052
ROS 160192	Soil	3.6	110.2	9.6	111	0.2	20.9	15.9	442	5.15	4.1	2.7	3.3	5.5	41	0.3	0.2	0.4	119	0.16	0.062
ROS 166031	Soil	0.5	32.7	54.6	186	0.2	18.0	11.0	606	4.00	9.2	2.5	2.9	23.8	45	0.3	2.3	0.1	60	0.54	0.076
ROS 166023	Soil	0.4	30.3	8.6	51	0.1	24.3	9.5	418	2.37	9.4	0.4	4.2	2.6	35	<0.1	0.6	0.2	52	1.37	0.036
ROS 166030	Soil	0.8	19.0	10.6	82	<0.1	12.4	6.3	427	2.09	3.9	0.7	4.2	8.4	17	<0.1	0.3	0.1	32	0.26	0.046
ROS 160197	Soil	0.8	28.0	6.0	73	<0.1	32.3	12.7	393	3.42	2.3	0.9	0.7	6.9	18	<0.1	0.2	0.1	58	0.26	0.076

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Project: ROS
 Report Date: November 02, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165778	Soil	18	27	0.65	196	0.073	2	1.58	0.017	0.08	0.3	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 165779	Soil	10	22	0.89	163	0.089	1	1.88	0.010	0.19	0.1	<0.01	4.0	0.1	<0.05	8	<0.5	<0.2
ROS 165774	Soil	18	37	0.60	226	0.090	1	1.54	0.019	0.05	0.2	0.03	4.4	<0.1	<0.05	5	0.7	<0.2
ROS 165773	Soil	12	27	0.58	299	0.079	2	1.37	0.020	0.08	0.2	0.02	3.8	<0.1	<0.05	4	0.8	<0.2
ROS 151804	Soil	15	35	0.73	265	0.086	2	1.60	0.043	0.08	0.2	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 151793	Soil	18	36	0.51	284	0.065	2	1.50	0.017	0.08	0.1	0.07	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 165528	Soil	15	29	0.56	270	0.106	2	1.62	0.012	0.31	0.2	0.02	5.0	0.2	<0.05	5	0.7	<0.2
ROS 165529	Soil	21	25	0.55	238	0.063	2	1.37	0.015	0.12	0.2	0.09	3.4	<0.1	<0.05	4	0.6	<0.2
ROS 151795	Soil	18	31	0.57	367	0.077	2	1.56	0.029	0.09	0.2	0.10	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 151801	Soil	57	31	0.61	224	0.067	1	1.49	0.017	0.17	0.3	0.04	5.0	0.1	<0.05	5	0.7	<0.2
ROS 165771	Soil	10	22	1.15	131	0.109	<1	1.97	0.007	0.34	0.2	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
ROS 165530	Soil	16	42	0.52	263	0.085	2	1.96	0.019	0.09	0.1	0.03	5.0	<0.1	<0.05	6	0.6	<0.2
ROS 165514	Soil	23	31	0.46	461	0.056	2	1.47	0.017	0.09	0.2	0.21	3.9	<0.1	<0.05	4	0.9	<0.2
ROS 151796	Soil	19	28	0.89	307	0.122	1	1.94	0.015	0.46	0.1	0.04	4.5	0.3	<0.05	7	0.7	<0.2
ROS 165770	Soil	9	23	0.44	263	0.032	<1	1.49	0.012	0.06	0.1	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
ROS 165526	Soil	22	17	0.73	230	0.075	1	1.72	0.011	0.36	0.1	0.02	6.1	0.2	<0.05	6	<0.5	<0.2
ROS 151805	Soil	34	28	1.10	177	0.076	2	1.80	0.010	0.20	0.3	0.08	5.6	0.1	<0.05	8	0.8	<0.2
ROS 165512	Soil	20	34	0.49	723	0.117	2	2.33	0.025	0.08	0.1	0.29	4.8	0.1	<0.05	7	0.9	<0.2
ROS 166026	Soil	13	29	0.50	288	0.066	2	1.59	0.022	0.05	0.2	0.05	3.9	<0.1	<0.05	5	0.6	<0.2
ROS 166020	Soil	11	21	0.49	328	0.041	3	1.25	0.019	0.07	0.1	0.06	2.3	<0.1	<0.05	4	0.6	<0.2
ROS 166027	Soil	11	25	0.49	280	0.052	2	1.38	0.020	0.05	0.2	0.06	3.0	<0.1	0.05	4	0.5	<0.2
ROS 160193	Soil	11	24	0.49	278	0.050	3	1.33	0.021	0.05	0.1	0.06	3.2	<0.1	0.08	4	0.6	<0.2
ROS 166029	Soil	20	22	0.59	293	0.015	1	1.49	0.007	0.15	0.2	0.01	2.7	<0.1	<0.05	6	0.6	<0.2
ROS 166028	Soil	12	35	0.51	218	0.036	2	1.59	0.011	0.14	0.2	<0.01	4.8	<0.1	<0.05	7	0.9	<0.2
ROS 166021	Soil	12	24	0.73	246	0.056	3	1.28	0.022	0.07	0.2	0.06	2.7	<0.1	<0.05	4	0.6	<0.2
ROS 160192	Soil	21	37	1.02	328	0.214	<1	2.50	0.033	0.53	<0.1	<0.01	5.8	0.4	0.34	9	1.2	<0.2
ROS 166031	Soil	52	29	0.93	221	0.100	2	1.96	0.010	0.15	0.1	0.05	4.5	<0.1	<0.05	12	0.5	<0.2
ROS 166023	Soil	13	26	0.61	296	0.063	2	1.50	0.025	0.05	0.2	0.04	3.6	<0.1	0.07	4	<0.5	<0.2
ROS 166030	Soil	17	20	0.55	265	0.012	2	1.39	0.007	0.14	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 160197	Soil	25	40	0.98	195	0.211	1	2.20	0.012	0.72	0.1	0.01	3.6	0.5	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 166025	Soil	0.4	26.5	8.3	48	<0.1	22.8	9.5	350	2.33	8.5	0.4	2.5	2.3	33	0.1	0.5	0.1	51	1.47	0.034
ROS 166024	Soil	0.5	25.7	8.7	48	<0.1	26.1	10.3	452	2.57	9.7	0.4	1.7	3.1	29	<0.1	0.5	0.2	53	0.84	0.026
ROS 166022	Soil	0.5	27.2	7.8	46	<0.1	20.6	8.3	376	2.11	8.6	0.4	2.9	1.1	48	0.3	0.4	0.1	43	2.26	0.052
ROS 160196	Soil	0.9	31.6	6.3	65	<0.1	23.3	10.9	357	3.25	3.4	1.4	2.1	7.4	25	<0.1	0.2	0.1	63	0.28	0.038
ROS 160195	Soil	1.1	24.4	5.0	55	<0.1	27.7	11.5	381	3.34	1.2	1.3	<0.5	9.5	42	<0.1	<0.1	0.1	53	0.34	0.044
ROS 160202	Soil	1.4	31.0	31.9	96	0.2	19.7	15.1	770	3.12	5.1	1.5	1.8	7.8	27	0.2	0.2	0.5	65	0.32	0.050
ROS 165740	Soil	0.7	12.1	8.9	50	<0.1	13.9	8.5	338	2.11	4.6	0.6	2.6	6.4	21	<0.1	0.6	0.1	47	0.21	0.034
ROS 165747	Soil	0.8	23.4	11.1	77	<0.1	19.3	8.7	325	2.80	7.4	1.1	5.9	9.7	26	<0.1	0.9	0.1	52	0.32	0.018
ROS 160200	Soil	1.4	36.6	45.2	101	0.7	20.2	9.4	407	2.81	5.4	1.9	1.8	8.5	25	0.2	0.3	0.3	57	0.34	0.038
ROS 160204	Soil	1.0	33.1	6.3	73	<0.1	40.0	14.2	380	3.28	2.1	1.6	1.3	14.4	19	<0.1	0.1	0.1	50	0.38	0.079
ROS 165744	Soil	0.8	23.1	10.1	60	<0.1	18.8	8.3	290	2.52	6.9	0.8	1.3	9.1	25	<0.1	0.7	0.1	51	0.26	0.020
ROS 165743	Soil	0.6	57.2	9.0	104	0.1	32.2	19.1	580	4.57	5.6	0.7	9.2	6.8	35	<0.1	1.8	<0.1	112	0.75	0.070
ROS 160198	Soil	1.0	32.3	7.2	81	<0.1	30.8	12.6	395	3.39	3.5	1.6	1.7	11.5	19	<0.1	0.2	0.1	59	0.30	0.060
ROS 160201	Soil	1.9	20.2	32.4	96	0.3	16.7	7.5	364	2.79	7.0	0.7	<0.5	5.2	22	0.2	0.3	0.4	60	0.22	0.042
ROS 165737	Soil	0.7	13.8	9.4	73	<0.1	22.3	11.0	472	2.75	7.8	0.7	0.8	7.6	36	<0.1	0.7	0.1	54	0.37	0.088
ROS 165736	Soil	0.7	16.8	15.0	88	<0.1	14.1	9.1	373	2.76	6.3	0.9	1.1	14.5	32	<0.1	0.9	0.1	53	0.35	0.076
ROS 160199	Soil	1.1	32.1	6.7	75	0.3	29.2	11.3	348	3.34	3.0	1.7	1.5	10.0	23	0.1	0.2	0.2	64	0.32	0.059
ROS 160203	Soil	1.6	27.5	10.0	115	0.3	16.6	13.8	937	3.41	5.2	2.1	0.5	9.8	39	0.2	0.3	0.2	60	0.44	0.073
ROS 165749	Soil	1.3	16.6	14.6	71	<0.1	10.8	7.6	362	2.70	5.5	2.0	4.3	17.7	21	<0.1	3.0	0.2	29	0.25	0.037
ROS 165735	Soil	0.4	22.3	8.9	131	<0.1	20.0	12.8	443	3.66	10.5	1.2	3.1	12.9	52	<0.1	1.0	<0.1	77	0.57	0.066



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 166025	Soil	13	25	0.50	268	0.053	2	1.47	0.022	0.04	0.2	0.04	3.2	<0.1	0.05	4	<0.5	<0.2
ROS 166024	Soil	14	29	0.53	287	0.066	2	1.59	0.024	0.05	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 166022	Soil	11	23	0.55	216	0.042	3	1.34	0.020	0.04	0.2	0.06	2.3	<0.1	0.09	4	<0.5	<0.2
ROS 160196	Soil	26	34	0.89	254	0.202	1	2.03	0.014	0.47	<0.1	0.01	4.4	0.3	<0.05	7	<0.5	<0.2
ROS 160195	Soil	32	42	1.08	245	0.279	<1	2.50	0.019	1.02	<0.1	<0.01	4.1	0.6	<0.05	10	<0.5	<0.2
ROS 160202	Soil	30	28	0.75	246	0.146	2	1.94	0.016	0.33	0.1	0.03	3.8	0.2	<0.05	6	<0.5	<0.2
ROS 165740	Soil	15	23	0.45	227	0.044	1	1.53	0.011	0.08	0.2	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
ROS 165747	Soil	14	45	0.82	199	0.069	1	1.86	0.013	0.12	0.2	0.02	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 160200	Soil	35	27	0.68	222	0.131	1	1.82	0.016	0.19	0.1	0.03	4.3	0.2	<0.05	6	<0.5	0.5
ROS 160204	Soil	61	35	0.91	189	0.183	1	2.09	0.014	0.74	<0.1	0.03	3.5	0.5	<0.05	7	<0.5	0.2
ROS 165744	Soil	14	30	0.58	174	0.098	1	1.92	0.011	0.14	0.2	0.04	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 165743	Soil	27	51	1.96	227	0.186	<1	2.85	0.039	0.14	0.1	0.13	8.4	0.2	<0.05	11	<0.5	<0.2
ROS 160198	Soil	42	34	0.90	203	0.196	2	2.20	0.015	0.59	0.1	0.02	3.9	0.4	<0.05	7	<0.5	<0.2
ROS 160201	Soil	12	25	0.60	146	0.128	1	1.87	0.014	0.21	0.1	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 165737	Soil	17	47	0.56	203	0.088	2	1.77	0.012	0.15	0.2	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165736	Soil	23	28	0.54	224	0.070	<1	1.70	0.010	0.25	0.2	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 160199	Soil	43	34	0.94	245	0.200	2	2.20	0.014	0.55	<0.1	0.03	4.4	0.4	<0.05	8	<0.5	<0.2
ROS 160203	Soil	41	24	0.63	245	0.144	2	2.28	0.018	0.35	<0.1	0.03	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 165749	Soil	19	14	0.34	255	0.018	4	1.22	0.008	0.20	0.3	0.06	3.5	0.1	<0.05	4	0.7	<0.2
ROS 165735	Soil	37	48	1.05	219	0.096	<1	2.08	0.014	0.09	0.2	0.04	5.4	<0.1	<0.05	10	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI10000593.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 141723	Soil	0.5	22.4	11.1	45	0.4	20.1	8.5	395	2.44	8.3	0.4	12.2	3.3	23	<0.1	0.7	0.1	51	0.66	0.033
REP ROS 141723	QC	0.5	23.2	11.0	47	0.4	20.7	8.6	391	2.44	8.6	0.4	4.6	3.2	24	<0.1	0.8	0.1	51	0.69	0.034
ROS 159027	Soil	2.0	51.8	9.9	88	<0.1	26.7	12.0	531	3.50	5.1	2.4	1.6	7.0	31	<0.1	0.4	0.2	85	0.31	0.054
REP ROS 159027	QC	2.1	52.1	10.1	90	<0.1	26.0	12.4	552	3.55	4.9	2.4	2.1	6.7	30	<0.1	0.4	0.2	83	0.32	0.054
ROS 163768	Soil	1.8	78.0	8.4	73	0.2	15.4	13.9	502	3.01	3.5	1.3	3.4	6.8	21	0.2	0.2	0.1	61	0.23	0.036
REP ROS 163768	QC	1.6	81.1	8.0	77	0.2	16.7	14.5	524	3.13	3.5	1.3	3.2	6.9	22	0.1	0.2	0.1	64	0.24	0.037
ROS 160101	Soil	0.6	39.0	5.1	99	<0.1	51.4	19.4	358	4.06	<0.5	2.5	<0.5	20.7	13	<0.1	<0.1	0.1	51	0.31	0.111
REP ROS 160101	QC	0.7	40.5	4.9	99	<0.1	51.9	20.0	358	4.15	<0.5	2.5	<0.5	20.6	13	<0.1	<0.1	0.1	51	0.32	0.110
ROS 165578	Soil	0.6	9.2	5.7	53	<0.1	14.1	8.8	223	2.06	5.3	0.4	1.5	2.6	22	<0.1	0.3	<0.1	44	0.33	0.025
REP ROS 165578	QC	0.5	8.8	5.5	53	<0.1	12.4	8.4	218	1.95	5.5	0.4	<0.5	2.6	21	<0.1	0.3	<0.1	41	0.33	0.024
ROS 173356	Soil	0.6	7.6	5.2	35	<0.1	5.7	4.6	174	1.20	1.8	0.4	3.3	5.3	12	<0.1	0.4	<0.1	19	0.21	0.052
REP ROS 173356	QC	0.6	7.4	5.1	33	<0.1	5.5	4.3	174	1.18	1.8	0.4	0.6	5.2	12	<0.1	0.4	<0.1	19	0.22	0.053
ROS 173484	Soil	2.1	15.8	8.4	45	0.2	17.4	8.5	341	2.58	9.1	0.6	1.8	5.6	25	<0.1	1.0	0.2	50	0.46	0.039
REP ROS 173484	QC	1.9	16.3	8.3	43	0.2	16.7	8.2	333	2.54	8.8	0.5	1.0	5.6	24	<0.1	1.1	0.2	52	0.46	0.038
ROS 164391	Soil	0.6	26.4	10.7	89	<0.1	15.6	12.7	767	3.84	2.5	1.6	1.2	12.3	16	<0.1	0.4	0.3	56	0.31	0.053
REP ROS 164391	QC	0.7	25.3	11.0	87	<0.1	15.7	12.5	762	3.76	2.4	1.6	<0.5	12.2	16	<0.1	0.4	0.3	56	0.33	0.056
ROS 147323	Soil	0.9	20.8	9.9	59	<0.1	18.6	7.7	289	2.53	7.1	1.0	0.6	5.6	22	<0.1	0.6	0.2	59	0.27	0.024
REP ROS 147323	QC	0.8	20.0	9.6	57	<0.1	17.5	7.4	283	2.48	6.4	0.9	1.2	5.6	21	<0.1	0.6	0.2	56	0.26	0.024
ROS 147324	Soil	1.0	17.1	13.3	67	<0.1	17.7	7.8	362	2.78	6.2	0.6	3.0	3.5	14	0.1	0.6	0.2	65	0.15	0.039
REP ROS 147324	QC	1.0	16.9	13.2	65	<0.1	18.2	8.1	350	2.71	6.0	0.6	1.0	3.5	13	0.1	0.6	0.2	63	0.15	0.038
ROS 165930	Soil	0.6	25.5	8.4	62	0.1	22.3	8.0	334	2.52	8.6	0.5	10.1	4.3	40	0.1	0.8	0.2	53	0.64	0.050
REP ROS 165930	QC	0.6	28.3	8.9	62	0.1	22.6	8.6	346	2.60	8.9	0.6	9.2	4.4	41	0.1	0.8	0.1	56	0.66	0.050
ROS 164013	Soil	0.6	10.5	5.5	45	<0.1	12.8	6.5	161	2.01	3.8	0.5	4.8	1.4	16	0.1	0.2	0.1	42	0.26	0.048
REP ROS 164013	QC	0.6	10.2	5.5	45	<0.1	12.1	6.2	155	1.93	3.8	0.5	2.2	1.4	15	<0.1	0.2	<0.1	40	0.24	0.047
ROS 164138	Soil	0.7	22.9	6.9	94	0.2	6.8	6.0	243	2.21	2.2	0.8	2.1	1.4	22	0.1	<0.1	0.2	48	0.16	0.039
REP ROS 164138	QC	0.7	23.2	7.1	98	0.2	7.1	6.5	246	2.22	2.1	0.9	0.9	1.4	22	0.2	0.1	0.1	49	0.16	0.040
ROS 160093	Soil	2.9	46.0	5.4	130	<0.1	18.0	12.4	328	4.37	1.9	1.6	<0.5	8.0	19	0.2	0.1	0.3	111	0.19	0.062
REP ROS 160093	QC	2.8	46.4	5.5	131	<0.1	17.3	12.6	342	4.41	2.0	1.8	<0.5	8.3	20	0.3	<0.1	0.3	111	0.20	0.064

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Project: ROS
Report Date: November 02, 2010

Page: 1 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000593.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 141723	Soil	13	27	0.48	461	0.043	1	1.31	0.023	0.06	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	<0.2
REP ROS 141723	QC	14	27	0.50	465	0.045	1	1.34	0.023	0.06	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159027	Soil	26	39	0.92	614	0.143	<1	1.97	0.016	0.29	<0.1	0.03	6.3	0.2	0.06	7	0.6	<0.2
REP ROS 159027	QC	26	41	0.95	595	0.147	1	1.97	0.013	0.32	<0.1	0.03	6.3	0.2	0.06	7	<0.5	<0.2
ROS 163768	Soil	26	24	0.66	155	0.135	1	1.93	0.018	0.32	<0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
REP ROS 163768	QC	26	25	0.69	149	0.138	<1	1.91	0.017	0.30	0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 160101	Soil	82	38	1.11	212	0.186	<1	2.33	0.012	1.06	<0.1	<0.01	3.3	0.6	<0.05	7	<0.5	<0.2
REP ROS 160101	QC	84	39	1.08	215	0.182	<1	2.31	0.013	1.05	<0.1	<0.01	3.6	0.6	<0.05	7	<0.5	<0.2
ROS 165578	Soil	9	22	1.18	124	0.063	1	1.89	0.010	0.12	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
REP ROS 165578	QC	9	20	1.15	122	0.063	<1	1.86	0.011	0.12	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173356	Soil	8	9	0.28	78	0.039	<1	0.77	0.008	0.19	0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
REP ROS 173356	QC	8	9	0.27	74	0.038	<1	0.77	0.009	0.18	0.2	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
ROS 173484	Soil	16	30	0.40	336	0.039	1	1.69	0.009	0.11	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
REP ROS 173484	QC	16	30	0.39	334	0.038	1	1.65	0.009	0.11	0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164391	Soil	45	23	1.07	214	0.140	2	2.07	0.009	0.93	0.1	0.03	7.6	0.3	<0.05	8	<0.5	<0.2
REP ROS 164391	QC	45	24	1.09	216	0.139	2	2.10	0.009	0.93	0.1	0.03	7.5	0.3	<0.05	8	<0.5	<0.2
ROS 147323	Soil	18	34	0.51	220	0.079	2	1.80	0.018	0.06	<0.1	0.04	4.7	<0.1	<0.05	6	<0.5	<0.2
REP ROS 147323	QC	18	34	0.52	215	0.075	1	1.69	0.017	0.06	0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 147324	Soil	12	32	0.48	127	0.063	1	2.04	0.010	0.06	0.2	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
REP ROS 147324	QC	12	33	0.48	127	0.062	<1	2.10	0.011	0.06	0.2	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
ROS 165930	Soil	16	27	0.59	267	0.074	1	1.56	0.028	0.08	0.7	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
REP ROS 165930	QC	17	28	0.58	288	0.077	1	1.56	0.029	0.08	0.8	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164013	Soil	9	23	0.44	143	0.075	1	1.39	0.013	0.06	0.3	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
REP ROS 164013	QC	9	22	0.43	135	0.070	<1	1.34	0.012	0.06	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164138	Soil	7	17	0.64	118	0.086	1	1.46	0.008	0.33	<0.1	0.03	1.7	0.2	<0.05	6	<0.5	<0.2
REP ROS 164138	QC	7	17	0.63	118	0.085	<1	1.50	0.009	0.33	0.1	0.03	1.7	0.2	<0.05	6	<0.5	<0.2
ROS 160093	Soil	30	25	1.03	359	0.318	3	2.32	0.015	1.03	<0.1	<0.01	4.3	0.5	0.07	9	<0.5	<0.2
REP ROS 160093	QC	30	26	1.06	356	0.316	1	2.36	0.015	1.04	<0.1	<0.01	4.1	0.5	0.07	9	<0.5	<0.2

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Project: ROS
 Report Date: November 02, 2010

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QUALITY CONTROL REPORT

WHI10000593.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 173402	Soil	1.3	22.2	13.9	78	0.2	16.7	8.1	460	2.62	6.0	1.2	10.2	11.9	24	<0.1	1.4	0.2	46	0.35	0.036
REP ROS 173402	QC	0.9	20.9	13.3	75	0.1	15.0	7.8	467	2.49	6.0	1.2	0.9	11.8	23	<0.1	1.3	0.2	43	0.31	0.036
ROS 165657	Soil	0.6	28.4	9.3	46	0.1	24.8	9.4	357	2.14	12.9	0.4	9.2	2.9	38	0.2	0.8	0.2	51	2.87	0.029
REP ROS 165657	QC	0.5	27.4	8.7	43	<0.1	22.6	8.6	348	1.99	12.0	0.4	6.4	2.8	37	<0.1	0.8	0.1	46	2.69	0.029
ROS 165512	Soil	1.5	43.1	15.3	61	1.8	30.4	13.2	972	2.99	8.2	0.7	7.2	5.1	31	0.1	2.0	0.2	63	0.44	0.026
REP ROS 165512	QC	1.4	42.7	14.5	60	1.8	29.5	12.7	990	2.91	7.7	0.7	4.8	5.2	31	<0.1	1.9	0.2	63	0.44	0.025
ROS 165740	Soil	0.7	12.1	8.9	50	<0.1	13.9	8.5	338	2.11	4.6	0.6	2.6	6.4	21	<0.1	0.6	0.1	47	0.21	0.034
REP ROS 165740	QC	0.7	11.8	9.0	51	<0.1	13.0	8.0	346	2.17	4.5	0.5	1.5	6.8	20	<0.1	0.5	0.1	47	0.20	0.035
ROS 160200	Soil	1.4	36.6	45.2	101	0.7	20.2	9.4	407	2.81	5.4	1.9	1.8	8.5	25	0.2	0.3	0.3	57	0.34	0.038
REP ROS 160200	QC	1.5	35.7	47.4	105	0.7	19.7	9.8	405	2.85	5.8	2.1	2.5	9.0	25	0.2	0.3	0.3	60	0.35	0.040
Reference Materials																					
STD DS7	Standard	20.2	89.4	60.6	373	1.4	52.7	9.0	618	2.36	52.0	4.1	69.0	3.9	63	6.2	5.6	4.4	82	0.93	0.080
STD DS7	Standard	20.9	110.5	65.0	395	1.0	55.4	9.1	612	2.34	51.0	4.4	70.6	4.2	70	6.1	5.7	4.6	81	0.93	0.079
STD DS7	Standard	19.4	106.7	64.3	384	0.9	51.8	9.2	591	2.28	50.4	4.7	68.4	4.0	72	6.0	5.7	4.4	80	0.91	0.073
STD DS7	Standard	20.2	115.0	64.8	402	1.0	56.4	9.6	653	2.37	53.4	4.5	61.2	4.4	77	6.4	5.9	4.5	87	0.96	0.074
STD DS7	Standard	21.8	111.7	60.8	398	0.9	56.0	8.9	631	2.38	51.0	4.6	62.4	4.4	74	6.1	5.8	4.3	87	0.97	0.076
STD DS7	Standard	20.8	104.0	62.3	381	0.9	51.6	8.7	621	2.33	49.1	4.4	64.7	4.1	73	6.0	5.6	4.3	81	0.91	0.076
STD DS7	Standard	18.1	104.5	61.9	373	0.9	51.7	8.8	602	2.26	48.0	4.3	62.0	3.6	72	6.0	5.5	4.2	78	0.92	0.071
STD DS7	Standard	20.1	104.4	63.4	390	0.9	52.4	8.7	610	2.32	51.2	4.3	67.2	3.7	75	5.8	5.7	4.3	81	0.88	0.074
STD DS7	Standard	18.6	95.0	63.9	379	1.0	54.5	9.3	622	2.36	49.5	4.4	65.8	4.4	63	6.2	5.0	4.5	83	0.93	0.074
STD DS7	Standard	18.2	106.6	55.9	373	1.0	52.2	8.6	596	2.27	51.4	3.9	60.9	3.6	56	6.0	4.7	4.0	78	0.87	0.079
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: ROS
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Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000593.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 173402	Soil	56	29	0.51	169	0.016	<1	1.82	0.011	0.16	0.1	0.08	3.8	<0.1	<0.05	8	<0.5	<0.2
REP ROS 173402	QC	53	26	0.48	164	0.015	<1	1.72	0.009	0.14	0.1	0.08	3.5	<0.1	<0.05	8	0.7	<0.2
ROS 165657	Soil	13	25	0.54	202	0.044	2	1.27	0.017	0.06	0.3	0.15	3.5	<0.1	<0.05	4	0.6	<0.2
REP ROS 165657	QC	12	22	0.52	184	0.042	<1	1.17	0.016	0.06	0.3	0.15	3.4	<0.1	<0.05	3	<0.5	<0.2
ROS 165512	Soil	20	34	0.49	723	0.117	2	2.33	0.025	0.08	0.1	0.29	4.8	0.1	<0.05	7	0.9	<0.2
REP ROS 165512	QC	20	34	0.47	747	0.107	2	2.16	0.034	0.07	0.2	0.28	5.0	<0.1	<0.05	7	1.1	<0.2
ROS 165740	Soil	15	23	0.45	227	0.044	1	1.53	0.011	0.08	0.2	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
REP ROS 165740	QC	15	23	0.44	226	0.042	1	1.48	0.011	0.08	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
ROS 160200	Soil	35	27	0.68	222	0.131	1	1.82	0.016	0.19	0.1	0.03	4.3	0.2	<0.05	6	<0.5	0.5
REP ROS 160200	QC	36	28	0.70	231	0.137	1	1.91	0.016	0.21	0.1	0.04	4.3	0.2	<0.05	6	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	12	189	1.04	408	0.102	40	1.01	0.102	0.49	3.4	0.22	2.2	4.0	0.21	5	3.6	1.8
STD DS7	Standard	12	192	1.09	398	0.112	43	1.06	0.107	0.49	3.6	0.22	2.5	4.1	0.26	5	4.1	0.7
STD DS7	Standard	12	177	1.02	399	0.124	35	1.00	0.103	0.46	3.7	0.20	2.3	4.1	0.17	5	3.5	0.6
STD DS7	Standard	14	209	1.04	409	0.124	37	1.08	0.095	0.48	3.4	0.21	2.6	4.0	0.21	5	3.2	1.6
STD DS7	Standard	13	198	1.06	382	0.123	37	1.04	0.102	0.47	3.5	0.20	2.7	3.8	0.21	5	3.2	1.6
STD DS7	Standard	12	192	1.02	385	0.114	37	0.99	0.105	0.46	3.4	0.22	2.4	3.7	0.18	5	3.0	1.3
STD DS7	Standard	12	185	0.97	386	0.122	34	0.96	0.092	0.46	3.6	0.19	2.2	4.1	0.21	4	3.4	1.1
STD DS7	Standard	13	181	0.98	400	0.128	37	1.01	0.098	0.46	3.8	0.20	2.6	4.0	0.15	5	3.5	0.6
STD DS7	Standard	12	191	1.04	388	0.102	37	0.99	0.090	0.48	3.3	0.23	2.2	4.3	0.17	5	3.4	0.4
STD DS7	Standard	11	182	1.03	366	0.091	41	0.97	0.094	0.46	3.6	0.23	2.3	4.0	0.21	5	3.7	0.7
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Val D'Or QC J9P 1S5 Canada

Project: ROS

Report Date: November 02, 2010

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI10000593.1

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



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Project: ROS

Report Date: November 02, 2010

Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000593.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Taku Gold Corp**
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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 05, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000594.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 05, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 148083	Soil	1.3	167.6	7.0	101	0.3	15.3	10.4	325	4.09	3.8	0.9	4.3	2.9	25	<0.1	0.3	0.3	91	0.36	0.056
ROS 165980	Soil	0.7	31.6	13.6	86	0.2	28.2	12.5	581	3.55	6.1	1.1	7.4	13.9	24	0.1	1.2	0.7	48	0.40	0.029
ROS 165739	Soil	0.2	19.6	6.4	86	<0.1	8.6	9.5	346	2.36	3.9	0.8	2.5	9.5	60	<0.1	0.6	<0.1	39	0.50	0.076
ROS 165734	Soil	0.5	33.2	7.2	86	<0.1	22.4	9.3	318	3.01	18.6	0.7	6.1	3.7	40	<0.1	1.0	0.1	70	0.56	0.088
ROS 173426	Soil	0.2	23.9	6.5	77	<0.1	11.1	10.9	620	2.76	4.8	0.6	<0.5	3.3	16	<0.1	0.3	0.1	51	0.52	0.074
ROS 173418	Soil	0.2	29.5	36.1	34	<0.1	7.7	5.3	393	1.72	3.6	0.5	1.9	6.6	13	<0.1	0.3	<0.1	25	0.20	0.023
ROS 165738	Soil	0.5	17.5	8.0	82	<0.1	25.5	10.5	311	2.57	6.6	0.6	1.7	4.2	26	<0.1	0.6	0.1	51	0.37	0.034
ROS 165733	Soil	0.7	79.2	5.9	211	<0.1	17.2	14.5	388	4.19	14.5	0.7	1.9	3.2	30	0.5	0.8	<0.1	118	0.53	0.061
ROS 173420	Soil	0.6	19.4	6.2	57	<0.1	16.3	7.4	493	2.40	7.8	0.4	0.8	3.4	25	<0.1	0.4	0.1	51	0.26	0.037
ROS 173419	Soil	0.2	38.7	7.1	137	<0.1	19.1	11.4	464	3.25	4.1	0.3	<0.5	1.6	98	<0.1	0.2	<0.1	72	0.63	0.140
ROS 165881	Soil	2.0	44.5	2.3	47	<0.1	11.2	9.5	920	4.17	2.3	0.6	<0.5	1.4	15	<0.1	0.1	<0.1	130	0.28	0.068
ROS 173422	Soil	0.3	63.5	3.8	102	<0.1	11.8	11.3	480	3.23	3.9	0.3	<0.5	1.2	32	<0.1	0.2	<0.1	77	0.32	0.076
ROS 173424	Soil	0.3	35.8	6.1	65	<0.1	24.5	11.4	534	2.87	4.4	0.5	2.5	3.0	38	<0.1	0.2	<0.1	71	1.91	0.073
ROS 173417	Soil	0.1	8.4	1.9	46	<0.1	24.9	16.2	855	3.37	3.1	0.2	<0.5	1.8	27	<0.1	0.4	<0.1	102	0.42	0.036
ROS 173425	Soil	0.2	15.0	4.4	85	<0.1	14.9	11.2	997	2.04	6.5	0.3	3.4	4.0	16	<0.1	0.3	<0.1	36	0.53	0.050
ROS 173421	Soil	0.6	14.2	7.4	46	<0.1	14.1	6.9	336	2.29	7.5	0.3	<0.5	2.7	19	<0.1	0.5	0.1	49	0.21	0.023
ROS 164402	Soil	0.3	62.5	7.4	105	<0.1	17.2	5.5	553	4.67	0.8	3.6	0.5	24.7	90	0.3	<0.1	0.6	29	0.28	0.142
ROS 164398	Soil	0.7	23.0	6.3	79	<0.1	21.0	11.6	367	2.88	3.6	2.1	1.4	10.4	28	0.2	0.1	0.2	44	0.24	0.062
ROS 160182	Soil	0.7	25.1	4.9	81	<0.1	36.7	16.8	546	4.22	3.9	2.1	0.9	15.8	14	0.2	0.2	0.2	48	0.16	0.066
ROS 160180	Soil	1.6	44.6	10.9	203	0.2	44.0	16.9	488	3.65	6.3	1.6	1.6	7.7	26	0.6	0.3	0.2	62	0.23	0.069
ROS 164815	Soil	1.1	19.1	6.8	55	<0.1	15.5	7.6	382	2.84	8.6	1.2	4.5	12.6	18	<0.1	0.4	0.4	51	0.27	0.034
ROS 164805	Soil	0.7	31.7	7.6	54	<0.1	20.3	8.9	477	2.94	9.0	1.8	2.6	8.2	29	<0.1	0.5	0.2	59	0.36	0.039
ROS 160183	Soil	0.9	22.2	6.5	69	<0.1	24.7	12.7	460	3.76	5.4	1.6	1.5	9.6	14	0.1	0.3	0.2	55	0.16	0.041
ROS 164400	Soil	1.3	26.5	8.8	68	<0.1	19.6	8.3	314	3.10	7.9	1.3	1.6	7.4	26	0.2	0.3	0.4	64	0.19	0.050
ROS 164806	Soil	0.3	14.4	5.2	83	<0.1	9.0	7.2	682	2.65	3.3	1.2	<0.5	11.1	23	<0.1	0.4	0.2	45	0.35	0.057
ROS 164811	Soil	1.1	21.7	9.1	56	<0.1	19.9	9.7	304	2.96	7.5	1.0	4.1	7.7	22	<0.1	0.6	0.2	61	0.29	0.022
ROS 164813	Soil	1.4	34.4	4.2	63	<0.1	6.8	9.0	790	2.90	3.5	1.2	<0.5	13.3	9	<0.1	0.3	1.6	32	0.16	0.049
ROS 164808	Soil	1.0	12.0	7.8	82	<0.1	11.4	9.4	568	3.70	7.4	1.2	0.7	10.0	10	<0.1	0.5	0.2	61	0.12	0.040
ROS 164804	Soil	2.4	10.4	8.6	62	<0.1	8.8	6.3	522	2.46	4.8	1.0	<0.5	8.2	16	<0.1	0.4	0.2	41	0.27	0.064
ROS 164810	Soil	0.9	31.5	7.7	59	0.1	20.5	11.3	554	2.97	8.3	1.4	3.1	7.8	29	<0.1	0.4	0.2	63	0.43	0.041

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 148083	Soil	14	27	0.91	378	0.140	1	2.11	0.030	0.32	0.1	0.01	6.0	0.2	0.09	7	1.0	<0.2
ROS 165980	Soil	45	57	1.41	188	0.053	2	2.18	0.008	0.20	0.4	0.19	5.1	0.2	<0.05	8	<0.5	<0.2
ROS 165739	Soil	20	12	0.71	159	0.122	<1	1.61	0.011	0.25	<0.1	0.01	2.4	0.2	<0.05	6	<0.5	<0.2
ROS 165734	Soil	15	32	0.74	200	0.086	1	1.64	0.019	0.08	0.3	0.05	5.3	<0.1	<0.05	6	<0.5	<0.2
ROS 173426	Soil	11	21	1.22	206	0.096	2	1.80	0.009	0.30	<0.1	<0.01	5.9	0.2	<0.05	7	<0.5	<0.2
ROS 173418	Soil	26	11	0.84	126	0.058	1	1.44	0.006	0.11	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 165738	Soil	15	72	0.83	239	0.056	1	1.95	0.011	0.11	0.1	0.03	4.5	0.1	<0.05	6	<0.5	<0.2
ROS 165733	Soil	9	37	1.10	200	0.078	<1	2.03	0.012	0.08	0.2	0.10	9.1	<0.1	<0.05	9	1.0	<0.2
ROS 173420	Soil	8	25	0.61	234	0.083	2	1.68	0.009	0.16	0.1	0.01	3.3	0.1	<0.05	6	0.6	<0.2
ROS 173419	Soil	11	26	1.65	218	0.193	<1	2.74	0.008	0.70	<0.1	<0.01	1.6	0.3	<0.05	10	<0.5	<0.2
ROS 165881	Soil	6	29	1.81	287	0.218	<1	2.71	0.009	1.61	0.1	0.02	6.0	0.2	<0.05	9	0.7	<0.2
ROS 173422	Soil	4	21	1.45	267	0.210	<1	2.35	0.010	0.96	0.1	<0.01	3.6	0.4	<0.05	9	<0.5	0.3
ROS 173424	Soil	13	50	2.59	196	0.126	1	2.53	0.011	0.19	<0.1	0.03	6.7	0.2	<0.05	8	<0.5	<0.2
ROS 173417	Soil	9	56	2.32	313	0.215	<1	2.81	0.008	0.86	<0.1	0.01	3.6	0.2	<0.05	8	<0.5	<0.2
ROS 173425	Soil	9	14	1.41	229	0.125	<1	1.54	0.015	0.18	<0.1	0.01	5.7	0.2	<0.05	5	<0.5	<0.2
ROS 173421	Soil	6	26	0.46	148	0.065	<1	1.67	0.011	0.18	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164402	Soil	88	27	0.85	344	0.194	<1	1.79	0.022	1.55	<0.1	<0.01	2.5	0.7	0.81	5	0.7	0.3
ROS 164398	Soil	53	32	1.06	670	0.157	<1	2.23	0.012	0.70	<0.1	0.01	2.8	0.4	<0.05	7	<0.5	<0.2
ROS 160182	Soil	56	39	1.20	282	0.203	<1	2.60	0.015	1.03	0.3	0.01	2.8	0.6	<0.05	8	<0.5	<0.2
ROS 160180	Soil	20	56	1.08	525	0.158	1	2.59	0.018	0.54	<0.1	0.02	3.9	0.4	<0.05	7	0.6	<0.2
ROS 164815	Soil	40	28	0.52	260	0.072	<1	1.81	0.012	0.09	0.1	0.03	4.5	0.1	<0.05	6	0.8	<0.2
ROS 164805	Soil	27	33	0.56	315	0.100	<1	2.07	0.019	0.10	0.2	0.05	7.0	0.1	<0.05	6	0.8	<0.2
ROS 160183	Soil	32	38	0.92	400	0.196	<1	2.39	0.011	0.64	<0.1	0.01	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 164400	Soil	20	39	0.80	222	0.129	2	2.01	0.015	0.26	<0.1	0.01	3.6	0.2	0.06	7	0.9	<0.2
ROS 164806	Soil	21	15	0.68	206	0.116	<1	1.51	0.012	0.39	0.2	0.01	4.0	0.3	<0.05	7	0.6	<0.2
ROS 164811	Soil	30	40	0.58	262	0.068	1	1.97	0.021	0.08	0.1	0.02	4.6	<0.1	<0.05	6	0.6	<0.2
ROS 164813	Soil	19	14	0.55	198	0.089	2	1.52	0.009	0.39	0.3	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 164808	Soil	10	23	0.59	130	0.091	1	2.15	0.011	0.32	0.2	0.01	4.2	0.3	<0.05	8	<0.5	<0.2
ROS 164804	Soil	24	17	0.34	185	0.046	1	1.47	0.014	0.13	0.3	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 164810	Soil	34	34	0.61	300	0.079	<1	1.74	0.019	0.09	0.1	0.03	6.1	<0.1	<0.05	6	0.7	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164809	Soil	0.4	14.1	9.6	67	<0.1	7.6	5.5	660	2.77	2.8	1.7	<0.5	15.6	11	<0.1	0.3	0.2	32	0.30	0.034
ROS 164807	Soil	1.0	28.2	8.8	53	<0.1	20.3	9.0	364	2.91	9.2	1.3	2.3	8.5	22	<0.1	0.7	0.2	64	0.22	0.013
ROS 164417	Soil	0.7	14.7	7.8	117	<0.1	8.1	10.4	525	3.10	5.2	0.6	1.1	3.0	22	0.2	0.2	0.1	73	0.24	0.050
ROS 164416	Soil	0.8	23.0	8.0	82	<0.1	14.7	12.8	615	3.88	6.4	1.5	1.5	6.7	27	<0.1	0.4	0.1	85	0.33	0.049
ROS 164409	Soil	1.0	21.7	6.9	88	<0.1	14.6	8.8	476	2.92	5.9	2.0	2.1	10.7	62	0.1	0.3	0.1	54	0.56	0.035
ROS 164410	Soil	0.8	14.8	6.1	80	<0.1	14.7	7.6	341	2.94	6.6	0.9	<0.5	6.6	35	0.1	0.3	0.1	60	0.26	0.043
ROS 164419	Soil	0.5	137.8	6.7	148	<0.1	11.9	21.2	1000	5.36	1.4	0.7	1.4	5.9	28	<0.1	<0.1	<0.1	138	0.21	0.033
ROS 164413	Soil	2.9	27.9	6.8	123	<0.1	6.6	8.0	602	3.90	4.7	2.9	1.0	16.9	76	0.2	0.2	0.3	46	0.26	0.056
ROS 164412	Soil	1.0	14.0	4.5	90	<0.1	7.0	10.6	597	3.59	2.5	1.7	<0.5	11.4	36	0.1	0.1	0.1	51	0.35	0.069
ROS 164411	Soil	1.3	22.4	5.2	112	<0.1	6.6	10.4	624	3.77	3.1	1.5	<0.5	15.7	59	0.2	0.2	<0.1	60	0.25	0.036
ROS 164414	Soil	1.7	14.5	4.7	59	<0.1	6.8	7.2	378	2.85	3.6	1.2	1.2	6.4	36	0.1	0.2	0.2	60	0.24	0.023
ROS 164415	Soil	1.2	38.3	8.0	55	0.1	88.7	16.2	444	3.25	5.4	2.0	1.8	8.8	54	<0.1	0.3	0.1	79	0.51	0.095
ROS 164403	Soil	0.6	26.5	7.6	94	<0.1	20.3	8.0	345	2.95	5.3	1.5	1.1	10.4	31	0.2	0.3	0.2	46	0.19	0.058
ROS 164399	Soil	1.7	84.2	13.2	215	0.1	31.9	14.3	716	4.19	2.1	1.9	<0.5	14.3	63	0.3	0.1	0.4	46	0.34	0.090
ROS 160181	Soil	2.0	29.6	11.8	94	<0.1	24.6	9.6	332	3.10	5.9	1.4	1.3	6.1	23	0.2	0.3	0.2	63	0.15	0.063
ROS 164401	Soil	0.5	26.6	7.9	93	<0.1	18.9	8.6	471	3.19	5.3	0.9	1.1	5.1	42	0.2	0.3	0.1	73	0.20	0.032
ROS 160179	Soil	0.8	50.7	8.8	162	<0.1	46.8	13.4	351	3.56	0.9	2.5	1.4	14.5	63	0.4	<0.1	0.3	56	0.26	0.068
ROS 164397	Soil	0.8	19.8	5.1	49	<0.1	25.1	13.2	379	3.34	3.6	2.1	0.7	10.3	21	0.1	0.2	0.3	50	0.18	0.050
ROS 160170	Soil	0.6	12.6	12.6	69	0.1	4.6	4.4	243	2.19	3.0	1.2	1.8	2.1	28	0.1	0.1	0.1	37	0.15	0.051
ROS 160168	Soil	1.2	21.7	5.5	80	<0.1	14.8	13.2	626	3.81	4.9	0.6	0.7	3.4	28	<0.1	0.3	0.1	81	0.30	0.024
ROS 173423	Soil	0.4	14.9	4.7	56	<0.1	12.5	7.4	327	2.32	6.7	0.3	3.4	2.5	17	<0.1	0.3	<0.1	39	0.14	0.024
ROS 165882	Soil	0.3	17.3	3.2	21	<0.1	5.9	3.3	151	1.14	3.8	0.3	0.6	3.4	11	<0.1	0.2	<0.1	22	0.14	0.008
ROS 160171	Soil	0.6	13.0	5.6	53	0.1	5.2	5.7	254	2.02	2.0	1.1	1.2	2.1	32	0.1	0.1	0.1	38	0.16	0.046
ROS 160164	Soil	0.9	26.6	6.7	77	<0.1	17.1	9.8	486	2.49	6.1	0.7	3.6	3.8	41	0.3	0.4	0.1	53	0.69	0.068
ROS 160165	Soil	0.6	11.3	5.4	48	<0.1	12.7	5.4	161	1.60	6.0	0.4	2.0	1.7	29	<0.1	0.3	0.1	33	0.45	0.057
ROS 160173	Soil	0.9	13.4	5.3	78	<0.1	6.1	6.3	299	2.44	2.4	1.3	1.8	4.4	39	0.1	0.1	<0.1	55	0.18	0.051
ROS 160167	Soil	1.4	21.9	5.6	73	<0.1	15.0	12.8	466	3.76	4.9	0.8	1.0	3.0	36	0.1	0.3	<0.1	81	0.46	0.047
ROS 160169	Soil	1.1	25.9	4.9	62	0.1	7.2	8.4	308	2.67	2.6	1.1	1.9	2.4	28	0.1	0.1	<0.1	59	0.18	0.048
ROS 160172	Soil	0.9	12.7	5.9	61	<0.1	5.6	4.3	225	1.99	2.5	1.1	1.2	2.4	38	0.1	0.1	<0.1	38	0.17	0.043
ROS 160174	Soil	0.7	12.6	4.6	63	<0.1	5.4	5.5	321	2.20	1.8	0.7	1.0	1.8	47	<0.1	<0.1	<0.1	51	0.18	0.040

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164809	Soil	84	10	0.30	198	0.022	1	1.13	0.007	0.22	0.2	0.02	6.7	0.1	<0.05	5	0.9	<0.2
ROS 164807	Soil	37	38	0.59	247	0.078	1	2.12	0.019	0.06	0.2	0.03	5.2	0.1	<0.05	6	0.8	<0.2
ROS 164417	Soil	11	17	0.87	210	0.139	<1	2.33	0.016	0.51	0.1	0.02	2.9	0.2	<0.05	8	<0.5	<0.2
ROS 164416	Soil	20	27	0.96	228	0.138	<1	2.71	0.020	0.60	0.1	0.02	4.6	0.3	<0.05	9	0.6	<0.2
ROS 164409	Soil	28	32	0.72	252	0.118	<1	2.21	0.029	0.34	0.1	<0.01	4.3	0.2	<0.05	7	0.7	<0.2
ROS 164410	Soil	19	23	0.74	152	0.118	<1	2.17	0.016	0.38	0.2	0.01	3.0	0.2	<0.05	8	<0.5	<0.2
ROS 164419	Soil	15	29	2.19	428	0.281	1	3.28	0.019	1.93	<0.1	<0.01	4.5	0.5	0.05	10	<0.5	<0.2
ROS 164413	Soil	58	11	0.79	182	0.125	1	1.99	0.015	0.59	<0.1	<0.01	2.5	0.5	<0.05	7	<0.5	0.2
ROS 164412	Soil	38	11	0.82	187	0.190	1	2.55	0.019	0.79	0.1	<0.01	2.1	0.5	<0.05	9	<0.5	<0.2
ROS 164411	Soil	27	12	0.96	186	0.220	<1	2.30	0.021	1.08	0.1	<0.01	3.4	0.7	<0.05	9	<0.5	<0.2
ROS 164414	Soil	21	12	0.79	155	0.152	1	1.80	0.015	0.47	0.1	<0.01	2.4	0.3	<0.05	7	<0.5	<0.2
ROS 164415	Soil	29	98	1.56	309	0.139	1	1.99	0.015	0.13	0.1	0.01	2.7	0.1	<0.05	6	<0.5	<0.2
ROS 164403	Soil	25	26	0.72	324	0.155	<1	1.75	0.016	0.50	<0.1	<0.01	2.8	0.3	0.12	6	<0.5	<0.2
ROS 164399	Soil	46	47	1.31	357	0.256	<1	2.94	0.012	1.19	<0.1	0.01	3.0	0.7	0.08	8	0.7	<0.2
ROS 160181	Soil	19	34	0.86	226	0.145	1	2.01	0.010	0.30	<0.1	<0.01	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 164401	Soil	14	33	1.05	419	0.162	1	2.09	0.015	0.41	0.1	0.01	3.6	0.2	0.16	7	0.6	<0.2
ROS 160179	Soil	39	46	1.14	357	0.161	1	2.71	0.028	1.03	<0.1	<0.01	4.1	0.5	<0.05	7	<0.5	<0.2
ROS 164397	Soil	60	37	1.06	434	0.210	<1	2.27	0.011	0.84	<0.1	0.01	3.8	0.5	<0.05	8	<0.5	<0.2
ROS 160170	Soil	11	13	0.55	126	0.096	<1	1.40	0.016	0.33	<0.1	0.05	2.1	0.2	0.08	5	<0.5	<0.2
ROS 160168	Soil	9	22	1.19	229	0.224	1	2.29	0.017	0.92	0.1	0.01	2.9	0.3	<0.05	7	<0.5	<0.2
ROS 173423	Soil	6	16	0.77	135	0.128	<1	1.52	0.008	0.25	<0.1	0.01	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 165882	Soil	8	12	0.32	108	0.017	<1	1.01	0.006	0.12	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
ROS 160171	Soil	9	11	0.67	150	0.110	2	1.53	0.013	0.43	<0.1	0.03	2.1	0.2	0.07	6	0.5	<0.2
ROS 160164	Soil	11	23	0.67	230	0.102	2	1.45	0.022	0.28	0.2	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 160165	Soil	8	19	0.41	132	0.061	1	0.94	0.020	0.06	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
ROS 160173	Soil	15	12	0.72	192	0.127	<1	1.60	0.014	0.52	0.1	0.03	3.1	0.2	0.12	5	<0.5	<0.2
ROS 160167	Soil	10	24	1.07	151	0.185	<1	2.65	0.014	0.86	<0.1	0.02	2.5	0.2	<0.05	7	<0.5	<0.2
ROS 160169	Soil	10	13	0.78	157	0.142	1	1.76	0.011	0.45	0.1	0.03	2.1	0.2	<0.05	6	0.6	<0.2
ROS 160172	Soil	11	11	0.53	120	0.099	4	1.35	0.011	0.27	<0.1	0.03	2.3	0.1	0.08	5	0.5	<0.2
ROS 160174	Soil	8	12	0.74	155	0.144	<1	1.61	0.011	0.58	<0.1	0.03	2.6	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160166	Soil		1.0	15.1	6.2	57	<0.1	13.1	7.2	242	1.97	6.2	0.5	2.9	1.8	23	0.2	0.3	0.1	45	0.34	0.059
ROS 160175	Soil		0.6	11.8	4.8	58	0.1	5.3	5.0	230	1.90	2.1	0.7	1.0	2.0	34	<0.1	<0.1	<0.1	34	0.21	0.041
ROS 164418	Soil		0.5	36.5	3.7	101	<0.1	13.1	20.3	729	4.66	2.8	0.5	0.9	3.0	28	0.1	<0.1	<0.1	104	0.30	0.077
ROS 164420	Soil		0.7	137.5	6.9	139	<0.1	11.4	20.9	938	5.13	1.6	0.8	1.1	5.9	30	<0.1	0.1	<0.1	134	0.21	0.033
ROS 160523	Soil		0.5	22.5	7.7	123	<0.1	10.2	13.1	632	3.98	6.4	1.0	<0.5	5.3	37	<0.1	0.6	<0.1	58	0.76	0.177
ROS 164945	Soil		1.4	31.6	9.4	54	0.3	22.9	9.4	374	2.56	4.3	1.1	2.1	4.5	24	0.2	0.2	0.1	61	0.26	0.045
ROS 164944	Soil		1.1	23.8	10.0	61	0.2	19.2	15.0	435	2.54	4.7	0.9	1.8	3.8	23	0.3	0.2	0.1	53	0.21	0.044
ROS 164937	Soil		0.6	28.9	7.2	89	<0.1	25.5	11.7	528	4.09	3.2	1.7	1.1	15.1	53	<0.1	0.2	0.1	52	0.23	0.049
ROS 160521	Soil		1.3	21.7	20.7	78	<0.1	17.3	11.6	1186	3.20	8.5	1.1	1.2	24.9	22	0.1	0.6	0.2	61	0.29	0.032
ROS 164946	Soil		1.1	27.1	6.8	76	<0.1	13.3	7.7	342	2.94	4.7	1.5	5.9	7.7	53	0.2	0.3	0.1	55	0.22	0.034
ROS 164940	Soil		1.3	51.7	17.9	104	0.1	59.3	25.8	626	3.32	2.6	0.9	1.2	4.6	19	0.1	0.1	0.1	80	0.24	0.067
ROS 164939	Soil		1.3	58.2	3.4	42	<0.1	20.1	9.7	301	3.93	0.9	1.7	1.0	3.0	27	<0.1	<0.1	<0.1	134	0.34	0.065
ROS 160519	Soil		0.5	22.4	8.3	54	<0.1	21.2	9.8	371	2.85	8.9	0.5	3.6	5.1	23	<0.1	0.6	0.1	56	0.53	0.065
ROS 164947	Soil		1.0	22.5	13.1	54	0.2	14.6	5.8	212	2.12	4.7	1.4	2.1	4.9	24	0.1	0.2	0.2	48	0.25	0.032
ROS 164941	Soil		1.2	37.7	8.5	70	0.2	38.3	15.3	416	3.32	3.7	1.1	1.0	5.5	27	<0.1	0.2	0.1	82	0.31	0.060
ROS 164938	Soil		0.9	25.0	27.2	101	<0.1	23.7	11.7	471	3.26	4.3	1.3	5.1	8.5	28	<0.1	0.2	0.2	52	0.23	0.035
ROS 160520	Soil		0.5	28.7	9.0	50	<0.1	22.1	10.4	442	2.81	8.9	1.2	3.2	6.1	25	<0.1	0.5	0.2	56	0.57	0.066
ROS 164948	Soil		1.4	30.4	15.1	59	0.1	16.6	10.4	334	2.64	6.5	2.2	2.4	7.0	28	0.1	0.3	0.1	51	0.29	0.048
ROS 164943	Soil		1.6	25.0	12.6	71	0.2	20.5	43.9	1382	3.30	5.8	1.1	2.7	6.7	28	0.2	0.2	0.2	68	0.28	0.077
ROS 164942	Soil		1.3	35.4	12.9	68	0.3	27.6	12.3	428	3.23	3.6	1.1	1.6	5.8	20	0.1	0.2	0.2	73	0.28	0.050
ROS 163641	Soil		1.4	10.6	8.4	63	<0.1	5.1	4.5	263	2.15	2.3	1.3	3.9	9.2	11	<0.1	2.4	0.2	19	0.16	0.035
ROS 163640	Soil		1.8	14.0	6.8	62	<0.1	12.4	8.2	465	2.87	5.5	0.8	0.8	8.3	12	<0.1	0.3	0.1	53	0.17	0.039
ROS 163637	Soil		0.6	6.5	4.5	73	<0.1	7.2	8.6	810	3.50	4.3	1.3	<0.5	7.4	8	<0.1	0.3	<0.1	45	0.12	0.046
ROS 160177	Soil		1.0	18.4	5.5	66	0.1	7.8	7.2	325	2.74	3.1	0.7	3.3	2.2	28	<0.1	0.1	<0.1	69	0.20	0.037
ROS 163639	Soil		1.3	19.6	9.2	52	0.1	17.9	8.9	303	2.97	8.4	0.8	2.4	6.7	15	<0.1	0.4	0.3	62	0.16	0.030
ROS 163642	Soil		2.0	18.1	7.7	71	<0.1	11.8	7.6	455	2.61	4.5	0.9	2.3	10.2	12	<0.1	0.9	0.2	42	0.16	0.031
ROS 163636	Soil		0.3	10.0	4.8	90	<0.1	5.1	6.5	641	3.04	3.0	1.8	<0.5	21.6	6	<0.1	0.3	0.2	36	0.07	0.026
ROS 163598	Soil		2.4	23.8	5.9	91	0.2	7.8	9.5	527	3.46	4.4	1.1	1.7	5.2	47	<0.1	0.2	0.1	87	0.33	0.040
ROS 163638	Soil		0.6	19.4	8.5	99	<0.1	11.1	13.3	699	3.66	2.8	0.9	0.8	9.1	16	<0.1	0.2	<0.1	54	0.25	0.038
ROS 163635	Soil		0.4	10.5	4.7	83	<0.1	5.2	6.4	569	2.95	2.7	1.6	0.6	19.6	6	<0.1	0.3	0.2	35	0.06	0.025

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Project: ROS
 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160166	Soil	9	21	0.42	161	0.063	2	1.11	0.016	0.06	0.2	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 160175	Soil	10	12	0.55	98	0.115	<1	1.46	0.012	0.38	<0.1	0.03	1.9	0.2	<0.05	6	<0.5	<0.2
ROS 164418	Soil	8	25	1.65	240	0.253	<1	2.88	0.016	1.30	<0.1	<0.01	2.1	0.3	<0.05	9	<0.5	<0.2
ROS 164420	Soil	15	29	2.06	419	0.274	<1	3.18	0.017	1.81	<0.1	<0.01	4.6	0.5	<0.05	10	0.5	<0.2
ROS 160523	Soil	18	14	1.26	315	0.149	2	2.21	0.012	0.60	<0.1	<0.01	2.8	0.2	<0.05	9	<0.5	<0.2
ROS 164945	Soil	18	29	0.65	517	0.150	<1	1.40	0.016	0.24	<0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 164944	Soil	15	26	0.61	465	0.132	<1	1.41	0.014	0.26	0.1	0.02	2.9	0.2	<0.05	5	<0.5	<0.2
ROS 164937	Soil	43	44	1.33	1138	0.273	<1	2.43	0.019	1.20	<0.1	<0.01	4.4	0.6	0.07	8	<0.5	<0.2
ROS 160521	Soil	19	32	0.41	273	0.051	5	1.64	0.009	0.19	<0.1	0.01	5.8	0.2	<0.05	6	<0.5	<0.2
ROS 164946	Soil	27	18	0.66	771	0.147	<1	1.59	0.019	0.41	<0.1	0.01	3.8	0.3	0.05	6	0.5	<0.2
ROS 164940	Soil	16	72	1.32	353	0.212	<1	1.97	0.014	0.80	<0.1	<0.01	3.8	0.4	0.06	7	0.6	<0.2
ROS 164939	Soil	10	22	1.01	524	0.270	<1	1.71	0.041	1.03	<0.1	<0.01	4.9	0.3	0.37	7	0.6	<0.2
ROS 160519	Soil	16	29	0.65	204	0.052	2	1.50	0.015	0.08	0.2	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164947	Soil	21	21	0.50	568	0.090	<1	1.39	0.009	0.17	0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 164941	Soil	16	44	1.00	709	0.169	<1	1.80	0.015	0.55	<0.1	0.02	4.1	0.3	<0.05	7	0.6	<0.2
ROS 164938	Soil	31	38	1.13	766	0.173	<1	2.07	0.009	0.60	0.1	<0.01	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 160520	Soil	16	26	0.58	265	0.056	1	1.38	0.023	0.07	0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
ROS 164948	Soil	29	24	0.57	606	0.091	1	1.49	0.014	0.15	0.1	0.03	3.7	0.1	<0.05	5	0.7	<0.2
ROS 164943	Soil	16	32	0.72	734	0.133	1	1.68	0.011	0.37	0.2	0.03	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 164942	Soil	16	36	0.93	563	0.171	<1	1.77	0.012	0.51	<0.1	0.03	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 163641	Soil	13	8	0.12	122	0.007	2	0.73	0.005	0.08	0.1	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
ROS 163640	Soil	11	19	0.52	162	0.088	<1	1.80	0.008	0.24	0.2	0.01	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 163637	Soil	7	11	0.60	173	0.110	1	2.04	0.009	0.36	0.1	<0.01	3.6	0.3	<0.05	9	<0.5	<0.2
ROS 160177	Soil	9	18	0.87	151	0.124	<1	1.78	0.011	0.51	<0.1	0.03	2.4	0.2	<0.05	7	0.6	<0.2
ROS 163639	Soil	17	32	0.46	210	0.053	1	2.14	0.012	0.06	0.1	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 163642	Soil	10	18	0.40	162	0.051	<1	1.31	0.008	0.16	0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 163636	Soil	47	9	0.42	119	0.065	<1	1.25	0.007	0.24	0.2	<0.01	4.6	0.2	<0.05	6	0.5	<0.2
ROS 163598	Soil	17	14	1.00	161	0.161	<1	2.25	0.012	0.68	0.1	0.02	3.1	0.3	<0.05	9	<0.5	0.2
ROS 163638	Soil	60	21	1.03	199	0.117	<1	2.12	0.010	0.45	0.1	<0.01	5.5	0.3	<0.05	9	<0.5	<0.2
ROS 163635	Soil	38	9	0.40	108	0.060	<1	1.31	0.008	0.22	0.2	0.02	4.4	0.2	<0.05	7	0.6	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163634	Soil	0.8	8.0	7.2	72	<0.1	12.6	7.3	444	2.93	6.5	0.7	0.7	7.1	7	<0.1	0.4	0.1	46	0.08	0.029
ROS 163631	Soil	0.9	26.3	8.3	52	<0.1	21.8	9.1	275	2.96	10.4	0.8	3.7	7.4	17	<0.1	0.6	0.2	66	0.18	0.015
ROS 164814	Soil	1.3	13.8	8.8	47	<0.1	18.3	6.7	274	2.74	7.7	0.9	1.2	5.7	17	<0.1	0.5	0.2	59	0.29	0.029
ROS 164812	Soil	1.3	17.6	9.0	43	<0.1	16.6	8.9	388	2.53	6.8	1.4	4.3	6.3	19	<0.1	0.6	0.2	56	0.26	0.016
ROS 163632	Soil	1.0	11.6	9.6	58	<0.1	13.3	9.9	755	3.43	7.9	0.6	2.7	8.1	13	<0.1	0.4	0.2	59	0.17	0.065
ROS 163633	Soil	1.4	12.5	9.2	68	<0.1	17.9	8.6	474	3.14	8.2	0.6	1.5	7.1	11	<0.1	0.4	0.1	61	0.12	0.030
ROS 160479	Soil	1.0	32.0	7.5	66	0.1	28.3	10.7	443	2.57	8.2	0.5	4.6	3.9	42	0.3	0.6	0.1	57	1.00	0.074
ROS 163581	Soil	1.0	17.9	21.8	67	0.1	14.6	6.1	187	2.33	5.9	0.9	1.9	2.2	18	0.1	0.3	0.2	56	0.22	0.050
ROS 163596	Soil	2.0	18.7	6.3	76	<0.1	5.6	7.0	372	2.69	3.6	0.9	1.4	4.1	70	<0.1	0.1	<0.1	77	0.25	0.025
ROS 164780	Soil	3.1	55.0	10.9	187	0.1	16.6	12.6	545	3.29	4.8	1.9	1.6	11.1	53	0.3	0.3	0.6	61	0.22	0.027
ROS 160477	Soil	1.2	26.5	36.0	81	0.2	19.0	9.6	331	2.78	6.1	1.7	3.5	5.5	25	0.2	0.3	0.3	58	0.33	0.063
ROS 163583	Soil	0.7	30.3	6.8	59	0.1	25.2	10.0	373	2.35	8.1	0.5	2.7	3.9	36	0.3	0.6	0.1	53	0.85	0.077
ROS 163599	Soil	0.5	31.6	4.9	63	0.4	7.4	6.5	276	2.26	2.0	0.6	2.9	1.2	31	<0.1	<0.1	<0.1	52	0.18	0.046
ROS 164778	Soil	3.0	44.8	7.0	101	<0.1	17.5	11.1	452	3.21	5.6	0.7	1.2	7.9	19	0.2	0.4	0.1	52	0.25	0.030
ROS 160162	Soil	1.0	16.3	8.6	60	0.1	13.0	6.8	224	2.12	5.1	0.7	2.9	2.5	20	0.1	0.3	0.1	52	0.26	0.048
ROS 163582	Soil	0.9	32.1	7.1	66	<0.1	27.6	10.5	427	2.52	8.3	0.6	2.2	3.6	34	0.3	0.6	0.1	57	0.70	0.072
ROS 164781	Soil	0.6	17.3	11.8	65	0.1	11.8	5.3	138	2.17	4.3	0.8	1.2	1.9	18	0.2	0.2	0.2	53	0.19	0.047
ROS 160464	Soil	0.9	30.0	41.5	118	0.1	19.6	11.0	371	3.09	5.8	1.2	1.8	6.6	22	0.5	0.3	0.1	67	0.25	0.026
ROS 163580	Soil	1.1	21.5	8.1	60	0.1	14.7	7.4	264	2.40	6.1	0.8	9.2	3.1	24	0.2	0.4	0.1	57	0.32	0.061
ROS 163597	Soil	2.5	26.0	6.3	94	0.2	8.0	9.8	545	3.44	4.0	1.1	1.3	5.7	50	<0.1	0.2	0.1	92	0.36	0.038
ROS 164775	Soil	1.0	56.6	6.6	289	0.2	25.0	15.0	603	4.62	2.3	2.0	1.3	10.1	28	1.5	0.2	0.1	106	0.41	0.081
ROS 164777	Soil	1.1	35.5	7.6	104	0.1	21.8	10.9	345	3.36	4.3	1.3	1.5	8.8	36	0.2	0.3	0.1	68	0.25	0.034
ROS 164782	Soil	0.8	11.3	6.6	57	<0.1	10.0	4.0	142	1.74	3.2	0.9	2.7	2.3	23	0.2	0.2	0.2	36	0.18	0.041
ROS 164779	Soil	2.0	26.5	9.4	101	0.2	13.3	9.3	413	2.98	4.9	0.9	2.8	4.8	23	0.3	0.4	0.2	70	0.18	0.032
ROS 164773	Soil	1.2	30.9	8.2	175	0.1	23.0	13.5	474	3.78	3.0	1.2	0.8	8.1	19	0.5	0.2	0.1	84	0.35	0.056
ROS 163742	Soil	1.0	16.1	16.6	85	<0.1	10.2	10.7	853	4.32	7.6	2.5	<0.5	20.5	19	<0.1	2.3	0.1	50	0.49	0.046
ROS 164783	Soil	0.8	12.3	6.6	57	<0.1	9.5	4.9	153	2.04	3.8	1.1	2.6	2.6	24	0.1	0.2	0.2	45	0.21	0.054
ROS 164776	Soil	1.4	42.2	18.3	223	0.1	17.5	25.8	1284	5.63	3.8	1.2	1.2	6.4	29	0.6	0.2	0.1	139	0.38	0.115
ROS 164774	Soil	1.2	31.7	8.2	180	0.1	24.4	13.2	481	3.82	3.4	1.3	2.4	8.4	20	0.5	0.2	0.1	83	0.37	0.063
ROS 163953	Soil	1.1	21.5	10.4	70	0.2	16.3	8.0	487	3.18	11.3	1.8	2.2	8.4	33	0.3	1.3	0.1	42	0.68	0.065

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 163634	Soil	5	18	0.58	154	0.084	<1	2.11	0.011	0.22	0.1	0.01	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 163631	Soil	21	39	0.53	168	0.079	<1	1.98	0.011	0.06	0.1	0.01	4.1	<0.1	<0.05	6	0.7	<0.2
ROS 164814	Soil	28	31	0.47	281	0.062	<1	1.71	0.008	0.08	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 164812	Soil	27	33	0.40	284	0.042	2	1.77	0.009	0.06	<0.1	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 163632	Soil	18	25	0.42	143	0.059	<1	1.69	0.009	0.16	0.2	<0.01	3.2	0.1	<0.05	7	<0.5	<0.2
ROS 163633	Soil	6	29	0.69	200	0.108	<1	2.20	0.011	0.14	0.1	0.02	3.6	0.2	<0.05	8	<0.5	<0.2
ROS 160479	Soil	13	30	0.69	279	0.084	1	1.34	0.027	0.11	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 163581	Soil	14	27	0.51	148	0.086	<1	1.55	0.011	0.10	0.1	0.04	2.4	0.1	<0.05	6	0.6	<0.2
ROS 163596	Soil	11	11	0.71	150	0.154	<1	1.78	0.012	0.53	0.1	0.02	2.2	0.3	<0.05	8	<0.5	<0.2
ROS 164780	Soil	34	26	1.01	240	0.147	1	2.31	0.020	0.62	<0.1	0.02	5.3	0.4	<0.05	8	<0.5	<0.2
ROS 160477	Soil	22	29	0.67	192	0.109	<1	1.77	0.014	0.23	0.2	0.04	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 163583	Soil	13	26	0.60	279	0.072	2	1.17	0.025	0.09	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 163599	Soil	6	21	0.83	201	0.112	<1	1.66	0.011	0.62	<0.1	0.08	2.1	0.2	0.07	6	0.5	<0.2
ROS 164778	Soil	22	25	0.75	144	0.110	<1	1.89	0.012	0.32	0.1	0.02	2.4	0.2	<0.05	7	0.6	<0.2
ROS 160162	Soil	12	23	0.51	142	0.076	1	1.36	0.011	0.09	0.2	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163582	Soil	13	29	0.61	292	0.075	2	1.30	0.029	0.08	0.2	0.02	3.5	<0.1	<0.05	4	0.5	<0.2
ROS 164781	Soil	12	24	0.44	115	0.083	<1	1.31	0.009	0.07	0.1	0.03	2.1	0.1	<0.05	6	<0.5	0.2
ROS 160464	Soil	18	32	0.82	282	0.151	1	1.79	0.012	0.30	<0.1	0.02	3.5	0.2	<0.05	6	0.6	<0.2
ROS 163580	Soil	13	25	0.48	186	0.071	1	1.27	0.017	0.07	0.3	0.02	2.6	<0.1	0.08	4	<0.5	<0.2
ROS 163597	Soil	18	15	1.05	167	0.181	2	2.39	0.014	0.70	0.1	0.02	3.0	0.3	0.10	9	<0.5	<0.2
ROS 164775	Soil	41	33	1.40	711	0.262	<1	2.66	0.022	1.12	<0.1	0.01	5.9	0.4	0.06	10	<0.5	<0.2
ROS 164777	Soil	26	42	0.92	203	0.186	<1	2.25	0.014	0.49	<0.1	<0.01	4.3	0.3	<0.05	8	<0.5	<0.2
ROS 164782	Soil	11	19	0.39	114	0.073	1	1.26	0.011	0.08	0.2	0.03	2.2	0.1	0.06	5	<0.5	<0.2
ROS 164779	Soil	18	27	0.71	164	0.169	1	1.86	0.011	0.43	0.1	0.01	3.5	0.3	<0.05	9	<0.5	<0.2
ROS 164773	Soil	25	32	1.09	275	0.221	<1	2.47	0.020	0.80	0.1	<0.01	4.0	0.3	<0.05	8	<0.5	<0.2
ROS 163742	Soil	50	15	0.46	378	0.009	4	1.85	0.012	0.20	<0.1	0.03	6.7	<0.1	<0.05	7	<0.5	<0.2
ROS 164783	Soil	17	21	0.40	124	0.086	<1	1.49	0.010	0.11	0.2	0.04	2.3	0.1	<0.05	5	<0.5	<0.2
ROS 164776	Soil	24	24	1.76	472	0.313	<1	2.99	0.024	1.38	<0.1	<0.01	5.4	0.5	0.07	10	<0.5	<0.2
ROS 164774	Soil	26	32	1.11	283	0.228	<1	2.51	0.024	0.85	<0.1	<0.01	3.9	0.3	<0.05	8	<0.5	<0.2
ROS 163953	Soil	29	21	0.38	326	0.040	4	1.15	0.020	0.14	0.2	0.04	4.2	<0.1	<0.05	3	0.7	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160522	Soil		2.0	19.1	14.1	59	<0.1	18.8	13.1	670	3.24	8.1	1.8	1.6	18.9	19	<0.1	0.5	0.2	74	0.29	0.039
ROS 160518	Soil		0.9	32.0	14.1	67	<0.1	23.9	11.0	682	2.91	8.3	1.0	2.3	15.2	28	<0.1	0.6	0.2	56	0.55	0.044
ROS 160516	Soil		0.8	32.2	10.1	64	<0.1	22.4	12.1	603	3.33	7.5	0.8	2.9	12.0	36	<0.1	0.8	0.2	70	1.24	0.069
ROS 160513	Soil		2.1	114.0	19.1	71	<0.1	8.8	6.4	241	3.30	6.0	0.9	1.3	8.1	7	0.1	0.3	3.5	33	0.13	0.031
ROS 160524	Soil		1.3	19.2	11.0	79	<0.1	22.6	13.5	484	3.24	9.0	1.1	3.0	13.4	25	<0.1	0.6	0.2	71	0.32	0.034
ROS 160517	Soil		1.6	43.9	19.7	122	0.1	24.0	19.5	1268	5.09	4.9	1.3	2.7	15.1	34	0.1	0.5	0.3	102	2.18	0.064
ROS 160515	Soil		2.3	30.8	271.0	121	0.3	20.3	9.7	652	3.70	9.7	2.1	2.6	32.9	13	0.3	0.9	0.7	59	0.12	0.032
ROS 160514	Soil		3.0	21.3	16.8	62	<0.1	12.7	9.0	474	2.50	3.5	1.2	2.2	37.3	9	<0.1	0.3	0.3	21	0.18	0.022
ROS 164303	Soil		0.8	35.2	5.0	48	<0.1	16.7	12.9	352	3.47	6.2	0.5	1.1	3.1	22	<0.1	0.5	0.1	95	0.42	0.085
ROS 164297	Soil		1.2	28.0	8.7	50	<0.1	19.8	9.5	293	2.69	8.4	0.8	2.0	4.2	18	<0.1	0.6	0.2	70	0.17	0.018
ROS 163958	Soil		1.1	33.3	7.8	64	0.1	26.9	9.7	764	2.39	9.5	0.6	3.0	3.9	36	0.3	0.7	0.1	52	0.63	0.081
ROS 163740	Soil		0.8	16.2	11.7	80	<0.1	17.4	11.0	899	3.48	6.9	1.3	<0.5	13.2	25	0.1	1.0	0.2	68	0.50	0.065
ROS 164301	Soil		0.9	29.3	2.3	39	<0.1	22.3	18.0	383	2.82	3.3	0.2	1.6	1.8	17	<0.1	0.2	<0.1	72	0.33	0.032
ROS 164307	Soil		0.6	25.1	4.7	44	<0.1	21.8	13.0	430	2.60	5.1	0.5	3.5	3.3	23	<0.1	0.3	<0.1	63	0.39	0.036
ROS 163952	Soil		0.9	33.4	9.1	72	0.1	24.0	10.5	591	2.86	8.9	0.9	3.8	7.0	98	0.3	1.2	0.1	60	3.97	0.079
ROS 163956	Soil		0.9	19.9	7.8	64	0.1	17.7	11.8	988	3.14	10.4	2.5	2.7	5.2	45	0.1	0.4	0.2	51	0.66	0.082
ROS 164300	Soil		0.7	52.3	3.7	39	<0.1	20.3	13.3	364	2.98	5.1	1.0	1.3	3.9	20	<0.1	0.3	<0.1	66	0.37	0.040
ROS 164305	Soil		0.5	29.2	1.6	41	<0.1	25.2	16.4	412	2.95	2.0	0.2	0.7	1.1	21	<0.1	0.2	<0.1	82	0.50	0.020
ROS 164302	Soil		0.9	54.1	4.8	39	<0.1	22.0	16.0	253	2.81	5.7	0.4	1.4	1.9	17	<0.1	0.4	0.1	85	0.26	0.024
ROS 164306	Soil		0.3	52.8	1.2	52	<0.1	53.2	20.3	439	3.34	1.5	0.2	0.7	1.3	22	<0.1	0.1	<0.1	85	0.42	0.043
ROS 164304	Soil		0.8	48.4	4.0	40	<0.1	17.7	15.7	304	2.95	5.7	0.4	1.3	2.4	17	<0.1	0.4	<0.1	118	0.38	0.019
ROS 164308	Soil		0.5	26.4	4.9	51	<0.1	20.2	11.2	431	2.81	5.5	0.6	1.1	3.3	28	<0.1	0.3	<0.1	61	0.46	0.035
ROS 164298	Soil		0.7	37.9	2.9	28	<0.1	16.1	12.4	216	2.26	3.8	0.6	1.8	1.9	13	<0.1	0.3	<0.1	64	0.34	0.045
ROS 164299	Soil		0.7	27.1	3.6	29	<0.1	18.7	11.1	220	2.56	4.9	0.3	<0.5	1.7	10	<0.1	0.2	<0.1	68	0.28	0.042
ROS 160525	Soil		0.8	32.6	10.6	78	<0.1	18.4	10.8	439	3.39	6.6	2.8	2.4	34.3	24	<0.1	0.5	0.2	63	0.39	0.056
ROS 163743	Soil		0.9	17.5	19.6	59	0.1	20.4	11.2	616	3.41	8.4	0.9	0.5	12.2	23	0.2	1.2	0.2	60	0.46	0.036
ROS 163957	Soil		0.6	27.0	7.1	63	<0.1	24.1	10.1	378	2.31	6.9	0.6	1.6	3.4	35	0.3	0.6	0.1	50	0.68	0.076
ROS 163959	Soil		0.6	23.6	7.2	62	0.1	22.8	8.9	418	2.04	6.3	1.1	2.2	3.2	41	0.2	0.5	0.2	49	0.75	0.067
ROS 160529	Soil		1.4	24.1	11.8	73	0.1	19.2	10.8	453	3.14	6.8	1.8	0.7	11.1	26	<0.1	0.3	0.2	61	0.40	0.053
ROS 163955	Soil		1.5	20.1	9.1	72	0.2	17.4	15.1	1417	2.75	10.5	4.2	2.2	5.1	56	0.3	0.5	0.2	51	0.81	0.084

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 160522	Soil			32	34	0.44	208	0.062	1	2.04	0.010	0.09	0.1	0.01	4.6	0.1	<0.05	7	<0.5	<0.2
ROS 160518	Soil			45	28	0.53	199	0.072	1	1.51	0.023	0.10	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160516	Soil			60	29	0.50	236	0.046	1	1.65	0.019	0.09	0.1	0.07	6.8	<0.1	<0.05	6	0.6	<0.2
ROS 160513	Soil			14	14	0.14	69	0.018	<1	1.04	0.006	0.05	0.2	<0.01	4.6	<0.1	<0.05	4	0.8	<0.2
ROS 160524	Soil			16	40	0.64	225	0.084	2	2.12	0.011	0.22	0.1	0.02	5.0	0.1	<0.05	7	<0.5	<0.2
ROS 160517	Soil			59	38	1.05	232	0.132	1	2.17	0.013	0.49	0.1	0.06	13.2	0.4	<0.05	9	<0.5	<0.2
ROS 160515	Soil			18	35	0.33	128	0.054	<1	1.95	0.011	0.09	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160514	Soil			22	9	0.17	66	0.008	<1	0.95	0.006	0.08	<0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
ROS 164303	Soil			10	28	0.89	168	0.128	2	2.30	0.029	0.17	0.3	0.01	5.1	0.1	<0.05	7	<0.5	<0.2
ROS 164297	Soil			15	39	0.50	181	0.086	<1	2.19	0.013	0.06	0.1	0.03	5.3	0.1	<0.05	6	<0.5	<0.2
ROS 163958	Soil			15	27	0.57	319	0.075	3	1.32	0.033	0.09	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 163740	Soil			58	27	0.58	233	0.046	2	2.24	0.012	0.25	0.2	0.02	7.6	<0.1	<0.05	8	<0.5	<0.2
ROS 164301	Soil			5	32	1.20	186	0.151	<1	2.43	0.024	0.21	0.4	0.01	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 164307	Soil			13	39	0.76	239	0.120	<1	1.75	0.022	0.12	0.2	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 163952	Soil			26	26	0.82	328	0.077	3	1.64	0.029	0.14	0.1	0.05	4.5	<0.1	0.06	5	<0.5	<0.2
ROS 163956	Soil			33	27	0.53	327	0.066	2	1.62	0.022	0.09	0.1	0.05	4.3	<0.1	0.07	5	0.6	<0.2
ROS 164300	Soil			29	33	0.79	220	0.113	<1	2.09	0.023	0.15	0.2	0.02	5.6	0.1	<0.05	6	<0.5	<0.2
ROS 164305	Soil			6	50	1.26	251	0.190	<1	2.42	0.031	0.52	1.0	<0.01	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 164302	Soil			7	27	0.71	160	0.114	<1	2.11	0.022	0.07	0.5	0.01	3.4	0.1	<0.05	6	<0.5	<0.2
ROS 164306	Soil			8	112	1.68	334	0.218	<1	2.56	0.019	0.81	1.6	<0.01	2.7	0.3	<0.05	6	<0.5	<0.2
ROS 164304	Soil			9	27	0.68	154	0.129	<1	1.83	0.043	0.13	0.3	0.01	4.6	<0.1	<0.05	5	0.5	<0.2
ROS 164308	Soil			14	32	0.72	282	0.117	<1	1.81	0.026	0.16	0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164298	Soil			10	23	0.51	123	0.100	<1	1.55	0.031	0.06	0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164299	Soil			8	28	0.55	95	0.100	<1	1.63	0.027	0.04	0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160525	Soil			61	26	0.80	164	0.104	2	2.10	0.012	0.31	0.2	0.03	5.8	0.3	0.06	8	0.5	<0.2
ROS 163743	Soil			25	30	0.49	359	0.044	3	1.97	0.015	0.16	0.2	0.04	6.1	<0.1	<0.05	6	<0.5	<0.2
ROS 163957	Soil			12	25	0.49	271	0.066	2	1.23	0.022	0.06	0.2	0.03	3.2	<0.1	0.06	4	<0.5	<0.2
ROS 163959	Soil			13	24	0.53	282	0.063	3	1.42	0.021	0.06	0.2	0.03	3.3	<0.1	0.07	5	<0.5	<0.2
ROS 160529	Soil			28	30	0.76	200	0.111	2	1.73	0.013	0.26	0.1	0.03	3.8	0.3	<0.05	6	<0.5	<0.2
ROS 163955	Soil			48	25	0.57	373	0.053	3	1.59	0.019	0.08	0.1	0.06	4.1	<0.1	0.10	5	0.6	<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	U	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163954	Soil		0.9	12.4	6.9	48	0.1	11.7	5.9	374	1.99	4.3	13.0	0.7	4.7	93	0.1	0.8	0.1	33	1.67	0.058
ROS 163741	Soil		1.2	16.6	9.4	53	<0.1	12.4	11.3	620	3.47	6.6	1.1	<0.5	10.9	25	<0.1	1.2	0.1	72	0.50	0.026
ROS 160527	Soil		1.2	27.9	9.2	59	<0.1	20.9	11.1	535	2.61	7.9	1.9	2.2	6.7	32	0.1	0.3	0.2	56	0.53	0.073
ROS 163919	Soil		0.6	10.9	6.9	46	<0.1	13.2	5.1	147	1.69	3.6	0.9	1.6	4.9	34	0.1	0.3	0.1	42	0.56	0.080
ROS 163918	Soil		1.0	26.6	29.0	109	<0.1	11.8	12.4	695	4.17	4.2	1.8	<0.5	23.4	20	0.2	0.3	0.4	51	0.35	0.093
ROS 160528	Soil		1.2	22.0	13.0	76	<0.1	14.0	12.8	471	3.42	9.3	1.5	<0.5	7.1	27	<0.1	0.2	0.2	67	0.37	0.042
ROS 163917	Soil		0.9	34.0	16.0	65	<0.1	24.4	10.5	385	3.05	10.3	1.3	4.5	13.7	27	0.1	0.6	0.2	60	0.31	0.037
ROS 163912	Soil		1.4	44.0	38.5	134	0.2	12.5	10.1	541	3.38	6.9	1.7	3.8	24.3	32	0.1	0.4	3.9	51	0.38	0.042
ROS 163914	Soil		0.9	42.7	10.2	65	0.1	28.5	11.4	449	2.83	10.8	0.8	5.2	7.9	53	0.1	0.9	0.2	60	1.57	0.044
ROS 163916	Soil		1.0	22.5	179.6	108	0.2	21.0	9.8	342	3.09	10.5	1.6	2.2	23.5	34	<0.1	0.7	0.4	59	0.35	0.040
ROS 147168	Soil		1.1	22.7	10.6	69	<0.1	18.6	9.6	610	3.14	6.8	1.4	2.6	9.3	25	<0.1	1.2	0.2	61	0.43	0.052
ROS 147166	Soil		0.9	31.5	13.8	92	0.5	28.6	18.4	1043	4.13	9.2	1.6	65.5	10.6	45	0.2	2.8	0.2	71	0.67	0.071
ROS 164907	Soil		1.7	44.5	14.1	166	0.6	20.1	11.1	414	3.19	4.1	2.4	1.4	8.2	39	0.6	0.2	0.5	74	0.47	0.073
ROS 164903	Soil		1.0	24.3	10.8	82	<0.1	19.3	8.9	316	2.85	8.5	0.8	3.3	5.2	17	0.3	0.5	0.2	67	0.16	0.020
ROS 147167	Soil		0.8	38.7	19.0	126	<0.1	24.0	23.4	1062	4.92	8.8	1.2	6.8	8.5	86	0.2	1.5	0.2	80	1.12	0.114
ROS 147164	Soil		0.8	27.0	10.5	59	<0.1	23.0	9.9	430	2.92	9.1	1.0	2.6	7.6	32	0.1	0.9	0.2	61	0.50	0.039
ROS 147159	Soil		1.1	29.9	11.1	65	<0.1	21.7	9.4	322	2.88	8.2	1.0	4.4	7.1	30	<0.1	0.8	0.2	66	0.43	0.015
ROS 147158	Soil		0.8	22.5	8.4	63	<0.1	21.1	10.3	341	2.78	8.3	0.7	9.6	5.0	30	<0.1	0.7	0.1	66	0.34	0.020
ROS 147163	Soil		1.6	24.5	13.3	67	0.1	20.1	11.0	625	3.26	8.0	1.3	5.1	8.7	32	<0.1	1.4	0.2	66	0.61	0.032
ROS 147165	Soil		1.0	36.9	26.7	182	<0.1	14.6	9.8	1242	3.92	4.2	1.4	4.7	13.8	24	0.5	1.3	0.4	48	0.51	0.068
ROS 147162	Soil		1.1	20.6	17.1	58	0.1	18.7	9.7	332	2.84	8.5	0.8	3.4	5.8	27	0.1	1.8	0.2	57	0.40	0.034
ROS 147160	Soil		1.3	25.5	11.3	80	<0.1	21.6	9.7	282	3.52	10.7	0.6	1.7	4.5	23	<0.1	0.9	0.2	71	0.30	0.024
ROS 165715	Soil		0.8	26.3	9.8	86	<0.1	25.0	11.6	363	3.12	7.2	0.9	3.6	7.8	45	<0.1	0.7	0.2	75	0.38	0.034
ROS 165714	Soil		0.7	19.8	11.9	82	<0.1	20.4	9.0	474	3.10	9.7	0.8	6.2	7.7	38	<0.1	0.5	0.1	64	0.51	0.075
ROS 147161	Soil		1.3	34.8	13.2	53	0.6	28.1	10.4	514	2.73	11.5	2.1	5.7	5.9	31	0.1	1.2	0.2	59	0.49	0.037
ROS 147157	Soil		0.8	42.1	23.7	91	<0.1	12.2	11.5	570	2.70	3.2	1.1	0.9	4.7	41	0.1	0.4	0.2	46	0.44	0.039
ROS 164905	Soil		1.6	46.0	14.1	224	0.7	26.1	12.3	489	3.47	3.6	2.2	1.9	7.7	35	1.0	0.1	0.7	93	0.50	0.086
ROS 163730	Soil		1.1	17.0	9.9	55	<0.1	20.4	8.7	400	3.06	10.0	1.0	0.7	5.8	22	<0.1	0.6	0.3	66	0.20	0.018
ROS 163733	Soil		1.2	45.1	8.8	72	<0.1	39.0	11.4	427	3.48	14.3	1.1	2.5	6.8	19	<0.1	0.3	0.2	70	0.32	0.063
ROS 163736	Soil		1.0	17.3	7.5	62	<0.1	17.7	8.6	275	2.77	6.4	0.8	0.6	6.1	19	<0.1	0.5	0.2	60	0.29	0.039

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Project: ROS
 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 163954	Soil	18	17	0.43	333	0.032	5	0.84	0.023	0.10	0.2	0.03	2.4	<0.1	0.11	3	<0.5	<0.2
ROS 163741	Soil	17	24	0.49	429	0.031	2	1.82	0.012	0.14	0.2	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2
ROS 160527	Soil	21	30	0.58	253	0.080	2	1.54	0.017	0.15	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 163919	Soil	17	23	0.47	149	0.076	2	1.20	0.022	0.07	0.3	0.04	2.7	<0.1	0.06	4	<0.5	<0.2
ROS 163918	Soil	33	17	1.12	166	0.184	2	2.19	0.011	0.89	0.2	0.01	4.8	0.7	<0.05	10	<0.5	<0.2
ROS 160528	Soil	24	24	0.93	217	0.153	1	1.85	0.014	0.37	0.1	0.02	3.7	0.3	<0.05	6	<0.5	<0.2
ROS 163917	Soil	42	34	0.56	204	0.087	1	1.64	0.016	0.12	0.2	0.06	5.3	0.1	<0.05	5	0.6	<0.2
ROS 163912	Soil	28	23	0.67	179	0.047	<1	2.15	0.008	0.21	0.1	0.03	3.5	0.2	<0.05	9	<0.5	<0.2
ROS 163914	Soil	25	33	0.72	251	0.084	3	1.68	0.028	0.08	0.2	0.07	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 163916	Soil	40	32	0.58	178	0.071	2	2.05	0.012	0.13	<0.1	0.09	4.8	<0.1	<0.05	8	<0.5	<0.2
ROS 147168	Soil	27	25	0.57	256	0.053	1	1.74	0.015	0.08	0.6	0.04	5.9	<0.1	<0.05	7	0.7	<0.2
ROS 147166	Soil	25	47	0.95	309	0.041	2	2.15	0.016	0.08	4.8	0.16	6.0	<0.1	<0.05	9	<0.5	<0.2
ROS 164907	Soil	33	28	0.88	379	0.145	<1	2.26	0.016	0.40	<0.1	0.06	5.7	0.3	<0.05	8	<0.5	<0.2
ROS 164903	Soil	11	31	0.57	174	0.107	1	1.70	0.011	0.14	<0.1	0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 147167	Soil	41	19	1.37	412	0.097	2	2.92	0.011	0.18	0.5	0.07	5.5	<0.1	<0.05	10	0.6	<0.2
ROS 147164	Soil	20	32	0.56	331	0.082	2	1.75	0.026	0.09	0.2	0.04	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 147159	Soil	18	33	0.63	267	0.091	1	1.92	0.017	0.09	0.1	0.05	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 147158	Soil	17	40	0.62	232	0.101	1	1.69	0.020	0.08	0.2	0.03	5.2	<0.1	<0.05	6	0.5	<0.2
ROS 147163	Soil	19	33	0.62	344	0.068	2	2.10	0.022	0.10	0.1	0.05	5.1	<0.1	<0.05	7	0.7	<0.2
ROS 147165	Soil	38	10	1.04	383	0.079	1	2.54	0.015	0.38	0.1	0.17	5.0	0.2	<0.05	10	<0.5	<0.2
ROS 147162	Soil	12	29	0.53	257	0.066	2	1.67	0.016	0.10	0.2	0.06	3.3	<0.1	<0.05	6	<0.5	0.2
ROS 147160	Soil	8	31	0.64	212	0.084	2	2.14	0.011	0.14	0.2	0.02	4.0	<0.1	<0.05	8	<0.5	<0.2
ROS 165715	Soil	26	52	0.80	208	0.126	1	2.33	0.016	0.15	0.1	0.03	5.0	0.1	<0.05	8	<0.5	<0.2
ROS 165714	Soil	15	38	0.63	218	0.044	2	2.12	0.010	0.15	0.1	0.02	6.3	<0.1	<0.05	8	<0.5	<0.2
ROS 147161	Soil	25	36	0.52	411	0.074	2	1.69	0.023	0.09	0.1	0.13	5.8	<0.1	<0.05	5	<0.5	<0.2
ROS 147157	Soil	10	19	0.77	249	0.139	<1	1.79	0.011	0.29	0.1	0.02	1.6	0.2	<0.05	6	<0.5	<0.2
ROS 164905	Soil	30	32	1.08	563	0.176	<1	2.41	0.019	0.61	<0.1	0.05	5.7	0.3	<0.05	8	<0.5	<0.2
ROS 163730	Soil	22	40	0.53	183	0.091	<1	2.03	0.015	0.09	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 163733	Soil	23	42	1.19	182	0.179	1	2.49	0.011	0.35	0.1	0.01	2.9	0.3	<0.05	9	<0.5	0.2
ROS 163736	Soil	15	27	0.55	165	0.086	2	1.68	0.013	0.23	0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164900	Soil	2.9	51.9	7.2	205	0.3	36.8	18.8	705	5.49	3.9	2.1	<0.5	16.0	16	0.6	0.1	0.2	74	0.20	0.037
ROS 163729	Soil	0.7	8.7	7.1	66	<0.1	5.6	6.4	624	2.76	2.9	1.4	0.8	13.9	7	<0.1	0.2	0.2	36	0.09	0.026
ROS 163738	Soil	1.1	12.2	8.6	74	0.2	10.9	8.8	743	3.24	4.8	1.0	<0.5	12.0	21	0.1	0.7	0.1	49	0.47	0.040
ROS 163735	Soil	0.9	17.5	7.2	50	0.2	15.8	8.3	490	2.47	4.7	1.4	0.7	5.6	23	<0.1	0.4	0.2	48	0.33	0.029
ROS 163731	Soil	0.7	17.7	8.6	79	<0.1	15.5	9.0	450	3.20	6.8	0.6	0.8	2.6	24	<0.1	0.4	0.1	55	0.23	0.031
ROS 163732	Soil	0.7	15.7	6.9	51	<0.1	25.5	10.1	317	2.84	7.8	0.5	1.6	3.3	21	<0.1	0.3	0.1	54	0.24	0.025
ROS 163734	Soil	0.6	20.0	7.8	74	<0.1	26.3	14.0	430	3.45	7.7	0.9	1.2	5.7	23	<0.1	0.4	0.1	73	0.25	0.024
ROS 163737	Soil	0.9	21.0	7.5	50	<0.1	20.2	8.8	301	2.73	9.6	0.8	1.5	4.9	21	<0.1	0.6	0.2	56	0.32	0.023
ROS 163923	Soil	0.8	24.3	8.0	41	<0.1	17.5	6.5	209	2.49	7.6	1.3	4.4	6.8	20	<0.1	0.5	0.1	55	0.25	0.025
ROS 163739	Soil	0.7	16.6	11.5	80	<0.1	12.2	9.6	895	3.42	5.6	1.3	<0.5	9.6	28	<0.1	1.0	0.2	57	0.52	0.080
ROS 163913	Soil	1.3	34.6	116.5	106	0.2	12.6	10.4	557	3.78	6.4	3.4	1.1	35.1	28	0.2	0.5	3.5	49	0.44	0.061
ROS 163915	Soil	1.8	25.2	13.6	69	0.1	15.0	8.7	611	2.79	7.3	1.6	5.1	17.0	19	<0.1	3.1	0.2	35	0.26	0.053
ROS 163811	Soil	2.1	19.0	7.3	80	<0.1	4.6	5.3	538	3.56	3.3	1.9	0.9	9.6	87	0.1	0.1	0.1	67	0.12	0.055
ROS 163808	Soil	1.3	13.6	6.8	61	<0.1	9.9	8.0	330	2.95	4.7	1.9	1.0	8.8	39	0.2	0.2	0.1	54	0.20	0.048
ROS 163810	Soil	1.4	13.1	8.2	60	<0.1	12.4	8.9	320	2.90	6.9	1.5	4.2	6.4	32	<0.1	0.3	0.1	60	0.21	0.037
ROS 163805	Soil	0.8	9.4	5.8	32	0.1	7.7	2.9	97	1.82	3.9	1.2	1.8	1.7	21	0.1	0.2	0.1	25	0.16	0.054
ROS 164902	Soil	1.0	51.7	8.4	181	0.2	17.4	15.7	627	5.17	2.9	1.8	0.9	7.4	31	0.5	0.1	<0.1	137	0.36	0.072
ROS 163809	Soil	1.3	13.2	7.0	60	<0.1	8.4	7.7	365	3.05	3.7	2.0	1.3	8.7	50	0.1	0.2	0.1	56	0.24	0.047
ROS 163807	Soil	1.4	14.9	12.1	61	0.1	8.6	5.3	220	2.27	4.2	1.6	1.3	5.6	31	<0.1	0.2	0.2	47	0.22	0.043
ROS 163803	Soil	0.7	9.1	8.0	42	0.1	7.7	3.4	110	1.51	3.2	1.2	1.7	2.4	28	0.1	0.2	0.2	24	0.18	0.046
ROS 164911	Soil	3.0	51.8	19.7	130	0.9	19.5	12.0	530	2.84	3.0	4.1	2.2	10.0	51	0.9	0.2	0.4	57	0.46	0.074
ROS 164910	Soil	3.7	33.8	14.8	93	<0.1	12.8	11.9	519	3.60	5.7	2.0	1.1	8.9	38	0.4	0.3	0.2	88	0.25	0.030
ROS 164904	Soil	1.4	37.0	16.5	169	0.4	20.5	12.3	612	2.61	5.3	1.7	2.0	6.1	28	1.6	0.3	0.1	62	0.34	0.032
ROS 163806	Soil	0.7	8.3	5.8	28	<0.1	7.9	2.4	80	1.40	3.5	1.0	1.7	1.4	19	<0.1	0.2	0.1	21	0.15	0.044
ROS 164909	Soil	0.9	28.8	11.0	142	<0.1	11.2	8.5	417	3.73	5.1	1.5	<0.5	10.7	78	0.4	0.2	0.1	71	0.32	0.030
ROS 164908	Soil	1.4	231.4	332.5	487	0.6	14.8	11.7	769	3.73	2.6	1.8	2.3	9.7	47	0.4	0.1	2.9	58	0.34	0.049
ROS 164901	Soil	2.9	45.2	9.8	223	0.9	22.9	14.4	549	3.89	4.2	1.8	1.2	7.8	40	1.2	0.2	1.0	95	0.40	0.049
ROS 164906	Soil	3.0	37.0	8.7	112	0.2	27.1	13.2	523	3.09	2.8	1.6	1.8	8.3	35	0.4	0.1	0.2	59	0.43	0.091
ROS 164092	Soil	1.9	39.9	82.7	206	0.2	15.7	11.0	1106	2.96	3.7	1.2	1.9	7.3	25	0.7	0.2	0.3	57	0.17	0.048
ROS 164091	Soil	0.9	31.2	11.3	198	0.2	20.4	9.8	354	2.62	4.7	1.1	2.2	5.0	25	0.4	0.2	0.1	66	0.32	0.067

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.2
ROS 164900	Soil	17	41	1.63	449	0.339	<1	3.03	0.011	1.78	<0.1	0.02	4.1	0.9	<0.05	11	<0.5	<0.2
ROS 163729	Soil	27	10	0.53	100	0.125	<1	1.48	0.008	0.52	0.2	0.01	3.1	0.3	<0.05	7	<0.5	0.4
ROS 163738	Soil	42	20	0.44	245	0.023	1	1.57	0.010	0.20	0.2	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
ROS 163735	Soil	35	25	0.48	206	0.079	2	1.31	0.015	0.17	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163731	Soil	7	25	0.82	147	0.165	1	1.79	0.010	0.50	0.2	<0.01	2.3	0.2	<0.05	8	<0.5	<0.2
ROS 163732	Soil	11	47	0.81	147	0.116	<1	1.64	0.011	0.16	0.2	0.01	2.3	<0.1	<0.05	5	0.7	<0.2
ROS 163734	Soil	21	64	1.11	199	0.174	<1	2.16	0.014	0.57	0.1	0.02	5.0	0.3	<0.05	7	<0.5	<0.2
ROS 163737	Soil	17	34	0.47	185	0.072	1	1.49	0.013	0.12	0.1	0.02	5.0	<0.1	<0.05	4	<0.5	<0.2
ROS 163923	Soil	42	29	0.52	259	0.065	2	1.66	0.014	0.06	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163739	Soil	40	19	0.52	254	0.030	3	1.70	0.010	0.24	0.2	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
ROS 163913	Soil	68	20	0.75	97	0.020	2	1.79	0.009	0.12	0.1	0.03	4.8	<0.1	<0.05	8	<0.5	<0.2
ROS 163915	Soil	34	19	0.25	186	0.022	2	1.03	0.008	0.13	0.2	0.50	4.4	<0.1	<0.05	3	<0.5	<0.2
ROS 163811	Soil	46	13	0.75	152	0.146	<1	2.01	0.022	0.76	<0.1	0.01	4.2	0.4	0.11	11	0.5	<0.2
ROS 163808	Soil	31	18	0.58	119	0.105	<1	1.92	0.014	0.28	<0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 163810	Soil	19	22	0.53	128	0.091	1	1.82	0.015	0.16	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 163805	Soil	12	17	0.31	85	0.059	<1	0.99	0.014	0.11	0.1	0.04	1.7	0.1	0.08	4	<0.5	<0.2
ROS 164902	Soil	28	28	1.44	589	0.318	<1	2.64	0.027	1.30	<0.1	0.01	6.0	0.4	<0.05	10	<0.5	<0.2
ROS 163809	Soil	27	15	0.62	129	0.115	<1	1.83	0.015	0.39	<0.1	<0.01	3.2	0.3	0.05	8	<0.5	<0.2
ROS 163807	Soil	20	17	0.55	99	0.103	<1	1.68	0.016	0.23	0.1	0.03	2.4	0.2	<0.05	6	0.6	<0.2
ROS 163803	Soil	16	16	0.29	97	0.063	<1	1.04	0.013	0.08	0.1	0.03	1.9	0.1	<0.05	4	0.5	<0.2
ROS 164911	Soil	59	23	0.56	307	0.114	1	2.11	0.013	0.43	<0.1	0.10	5.2	0.2	<0.05	8	<0.5	<0.2
ROS 164910	Soil	21	20	0.77	208	0.209	1	2.07	0.013	0.78	<0.1	0.01	3.0	0.5	<0.05	9	<0.5	<0.2
ROS 164904	Soil	29	31	0.68	341	0.114	<1	1.74	0.013	0.30	0.1	0.03	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 163806	Soil	10	17	0.25	73	0.052	<1	0.89	0.011	0.07	<0.1	0.04	1.6	0.1	0.06	5	0.6	<0.2
ROS 164909	Soil	15	17	0.93	299	0.223	<1	2.71	0.020	0.92	0.1	0.02	2.7	0.5	<0.05	10	0.5	<0.2
ROS 164908	Soil	49	25	1.03	295	0.211	<1	2.53	0.012	1.03	<0.1	0.04	3.8	0.5	<0.05	10	1.4	<0.2
ROS 164901	Soil	27	30	1.07	621	0.211	1	2.35	0.016	0.72	<0.1	0.04	4.6	0.3	<0.05	8	<0.5	<0.2
ROS 164906	Soil	31	31	0.89	331	0.167	1	1.78	0.015	0.65	<0.1	0.02	3.4	0.4	<0.05	6	0.5	<0.2
ROS 164092	Soil	26	25	0.79	202	0.170	<1	1.73	0.013	0.57	<0.1	0.02	3.4	0.3	<0.05	8	<0.5	0.3
ROS 164091	Soil	19	32	0.77	172	0.141	1	1.55	0.013	0.23	0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164085	Soil	0.8	31.2	9.8	255	0.1	23.5	10.1	499	3.31	2.2	1.4	0.5	9.6	35	0.4	0.1	0.3	59	0.25	0.043
ROS 164083	Soil	0.7	27.1	7.6	158	<0.1	30.4	11.1	544	3.78	2.0	1.3	1.1	8.3	57	0.2	0.1	0.3	68	0.33	0.060
ROS 164095	Soil	2.6	35.6	23.9	182	0.2	24.3	17.9	1097	3.41	4.2	1.2	1.4	6.7	28	0.9	0.2	0.2	71	0.30	0.048
ROS 164089	Soil	1.1	51.2	7.1	74	0.2	17.9	12.0	493	3.62	4.8	1.5	1.2	7.5	28	0.3	0.3	0.2	61	0.30	0.037
ROS 164084	Soil	0.9	31.8	9.1	238	0.1	23.8	9.7	506	3.42	2.3	1.5	1.8	10.1	37	0.2	0.1	0.3	60	0.25	0.044
ROS 164086	Soil	0.9	23.7	8.7	125	0.2	21.4	9.2	346	3.07	3.0	1.7	1.6	9.9	30	0.3	0.2	0.2	48	0.20	0.036
ROS 164093	Soil	1.5	42.8	25.6	164	<0.1	25.0	13.4	571	3.34	2.9	1.6	3.2	10.3	28	0.4	0.2	0.1	72	0.28	0.045
ROS 164088	Soil	0.9	25.4	6.7	112	0.2	19.6	9.8	379	3.14	1.9	2.0	1.0	11.1	29	0.3	0.1	0.2	50	0.18	0.046
ROS 163812	Soil	1.8	13.7	6.9	56	<0.1	6.9	7.3	533	3.75	5.3	1.0	0.9	9.8	26	<0.1	0.3	0.1	79	0.11	0.033
ROS 163804	Soil	0.9	11.0	19.8	52	0.1	7.7	3.8	129	1.78	3.1	1.3	1.2	3.3	25	0.1	0.2	0.2	33	0.15	0.048
ROS 164090	Soil	1.0	29.7	12.6	168	0.2	21.6	9.8	355	2.53	4.4	1.0	1.9	5.4	21	0.4	0.2	0.1	63	0.31	0.064
ROS 164094	Soil	1.4	40.4	24.5	166	0.1	24.5	13.3	553	3.26	3.2	1.5	1.7	10.1	27	0.5	0.2	0.1	67	0.27	0.042
ROS 163813	Soil	2.3	51.1	5.1	89	<0.1	2.5	7.3	849	5.85	0.6	1.4	<0.5	11.0	120	<0.1	<0.1	0.4	114	0.12	0.053
ROS 163802	Soil	0.7	8.6	6.1	30	<0.1	7.7	2.6	72	1.32	2.7	0.9	2.4	1.3	22	<0.1	0.2	0.3	18	0.15	0.041
ROS 165708	Soil	0.7	22.5	8.8	56	<0.1	19.6	9.4	366	2.39	6.7	0.8	5.3	5.8	32	<0.1	0.7	0.1	54	0.40	0.026
ROS 165704	Soil	1.2	31.9	25.5	108	<0.1	25.1	8.5	877	2.40	7.3	1.0	2.0	9.7	31	0.2	0.9	0.1	45	0.46	0.034
ROS 163865	Soil	0.6	45.1	5.4	34	0.2	10.7	3.7	96	1.84	1.9	0.7	7.0	1.3	19	<0.1	0.1	0.2	29	0.17	0.044
ROS 163869	Soil	1.2	54.7	7.5	76	0.1	21.8	11.3	301	2.99	5.6	1.2	7.0	6.9	18	0.1	0.3	0.1	60	0.24	0.053
ROS 165706	Soil	0.4	31.2	7.0	58	0.1	25.9	9.2	443	2.29	7.3	0.7	6.5	2.8	39	0.1	0.6	0.1	50	1.01	0.069
ROS 165710	Soil	0.9	23.0	8.6	67	<0.1	26.6	11.4	414	3.04	9.1	0.9	5.1	4.9	31	<0.1	0.7	0.1	70	0.30	0.039
ROS 163867	Soil	1.6	84.8	11.2	104	0.3	23.9	12.8	330	2.88	4.5	1.6	2.8	5.3	23	0.4	0.3	0.2	60	0.24	0.049
ROS 163868	Soil	1.3	76.7	7.6	90	0.1	22.8	13.1	343	3.06	3.8	1.2	2.2	6.0	23	0.2	0.2	0.1	68	0.26	0.053
ROS 165707	Soil	0.9	26.7	9.9	70	<0.1	28.0	9.9	272	3.04	11.1	0.7	1.3	6.9	33	<0.1	0.7	0.2	69	0.34	0.034
ROS 165703	Soil	0.9	27.9	15.4	71	<0.1	19.8	9.0	260	2.29	8.9	0.9	2.8	9.4	24	<0.1	1.7	0.2	41	0.31	0.017
ROS 165702	Soil	0.7	10.9	7.7	41	<0.1	12.8	9.2	821	1.94	4.6	0.4	0.9	3.4	22	<0.1	0.4	0.1	43	0.23	0.016
ROS 164209	Soil	0.7	31.6	10.6	66	0.2	22.9	11.1	563	2.74	6.9	1.3	2.9	3.8	39	0.2	0.6	0.2	57	0.89	0.068
ROS 165716	Soil	0.6	15.0	8.2	94	<0.1	18.5	10.9	392	2.91	7.9	0.6	0.6	7.2	58	<0.1	0.6	0.1	72	0.44	0.054
ROS 165705	Soil	0.6	33.7	10.0	50	0.1	21.6	6.8	304	2.30	7.9	0.9	3.4	4.3	24	0.1	1.4	0.2	52	0.42	0.058
ROS 165701	Soil	0.8	31.2	10.5	56	<0.1	23.5	9.6	230	2.86	10.0	0.8	4.7	5.9	24	<0.1	0.9	0.2	67	0.26	0.014
ROS 164213	Soil	1.5	41.5	16.0	53	<0.1	4.2	5.7	599	2.20	2.4	0.9	<0.5	26.2	9	<0.1	0.2	0.2	26	0.23	0.043

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 Report Date: November 05, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.2
ROS 164085	Soil	30	35	1.20	250	0.223	<1	2.12	0.012	0.86	<0.1	<0.01	3.1	0.5	<0.05	8	0.5	0.3
ROS 164083	Soil	32	47	1.32	686	0.252	<1	2.51	0.018	1.07	<0.1	<0.01	4.6	0.6	<0.05	12	<0.5	0.5
ROS 164095	Soil	21	36	0.84	249	0.168	<1	1.90	0.013	0.39	<0.1	0.02	3.4	0.3	<0.05	7	<0.5	<0.2
ROS 164089	Soil	25	32	0.74	183	0.158	<1	1.67	0.016	0.30	<0.1	0.01	3.3	0.2	<0.05	6	0.7	<0.2
ROS 164084	Soil	29	37	1.23	253	0.236	<1	2.16	0.014	0.89	<0.1	<0.01	3.2	0.5	<0.05	9	<0.5	<0.2
ROS 164086	Soil	34	30	0.88	192	0.176	<1	1.87	0.011	0.57	<0.1	0.02	2.7	0.4	<0.05	7	<0.5	<0.2
ROS 164093	Soil	32	34	1.13	314	0.177	1	1.97	0.012	0.78	0.1	0.02	3.8	0.4	<0.05	7	<0.5	<0.2
ROS 164088	Soil	40	32	1.00	211	0.166	<1	1.80	0.009	0.71	<0.1	0.01	3.1	0.4	<0.05	7	<0.5	<0.2
ROS 163812	Soil	7	13	0.80	83	0.160	<1	2.02	0.008	0.43	0.1	0.01	3.2	0.3	<0.05	10	<0.5	<0.2
ROS 163804	Soil	14	15	0.41	88	0.064	<1	1.20	0.010	0.13	<0.1	0.03	2.2	0.1	<0.05	4	0.5	<0.2
ROS 164090	Soil	17	33	0.77	171	0.116	1	1.46	0.010	0.22	0.2	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 164094	Soil	29	33	1.10	281	0.172	<1	1.95	0.011	0.71	<0.1	0.02	3.7	0.4	<0.05	7	<0.5	<0.2
ROS 163813	Soil	24	4	1.58	310	0.177	<1	3.47	0.020	1.61	<0.1	<0.01	6.2	0.6	0.68	10	<0.5	<0.2
ROS 163802	Soil	11	18	0.19	84	0.044	<1	0.89	0.011	0.06	0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165708	Soil	19	31	0.51	231	0.070	<1	1.53	0.017	0.06	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 165704	Soil	15	25	0.74	154	0.036	<1	1.76	0.005	0.07	0.2	0.10	4.8	<0.1	<0.05	7	<0.5	<0.2
ROS 163865	Soil	11	20	0.29	128	0.062	<1	1.02	0.012	0.11	<0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
ROS 163869	Soil	22	26	0.62	145	0.109	<1	1.83	0.011	0.20	0.1	0.03	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 165706	Soil	13	27	0.55	327	0.060	1	1.27	0.019	0.06	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165710	Soil	15	40	0.62	195	0.091	1	1.86	0.011	0.12	0.2	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
ROS 163867	Soil	30	29	0.63	190	0.098	<1	1.86	0.012	0.23	0.1	0.03	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 163868	Soil	22	26	0.69	181	0.120	<1	1.95	0.014	0.32	<0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 165707	Soil	15	38	0.65	192	0.083	1	1.97	0.010	0.10	0.2	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
ROS 165703	Soil	16	35	0.61	157	0.028	<1	1.78	0.007	0.12	0.1	0.15	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165702	Soil	7	25	0.37	495	0.036	<1	1.38	0.008	0.09	0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164209	Soil	23	25	0.63	334	0.052	1	1.56	0.016	0.07	0.1	0.06	5.0	<0.1	<0.05	5	0.7	<0.2
ROS 165716	Soil	11	31	0.72	249	0.115	<1	2.20	0.014	0.26	0.1	<0.01	3.6	0.1	<0.05	8	<0.5	<0.2
ROS 165705	Soil	19	30	0.47	183	0.060	1	1.32	0.016	0.05	0.1	0.12	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 165701	Soil	19	42	0.58	211	0.087	<1	2.16	0.010	0.06	0.2	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
ROS 164213	Soil	18	8	0.20	90	0.022	<1	0.88	0.005	0.16	0.1	0.02	2.1	0.2	<0.05	3	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163866	Soil	1.4	72.9	9.7	87	0.2	21.0	10.6	291	2.78	3.7	1.4	1.4	5.4	26	0.3	0.2	0.2	61	0.29	0.059
ROS 163861	Soil	1.3	94.2	7.4	101	<0.1	30.9	19.6	550	4.30	2.1	1.9	1.0	10.3	19	0.3	0.1	0.1	94	0.22	0.065
ROS 164218	Soil	1.0	13.3	8.5	50	<0.1	48.9	10.5	283	2.54	4.3	0.6	1.0	8.3	21	<0.1	0.3	0.1	58	0.33	0.015
ROS 164210	Soil	1.2	26.5	17.0	120	<0.1	22.1	20.3	984	4.79	6.9	1.4	2.3	9.9	42	0.4	3.3	0.1	76	2.45	0.157
ROS 148056	Soil	2.0	32.2	6.1	75	<0.1	30.9	14.3	415	3.72	3.8	1.4	1.2	11.3	14	0.2	0.2	0.2	92	0.21	0.059
ROS 163862	Soil	1.1	129.0	6.8	87	0.2	31.8	17.5	491	3.41	1.7	2.5	0.8	7.1	20	0.3	0.1	0.1	63	0.20	0.059
ROS 164211	Soil	3.1	18.9	57.1	98	0.2	11.9	7.8	426	3.23	4.0	1.5	<0.5	26.7	6	0.2	0.6	0.8	52	0.08	0.027
ROS 164217	Soil	1.3	15.3	10.1	53	<0.1	19.2	10.6	522	2.71	7.4	0.8	<0.5	8.7	20	<0.1	0.4	0.2	57	0.39	0.034
ROS 148060	Soil	1.3	37.4	5.1	61	<0.1	23.8	13.2	354	3.76	2.9	1.4	0.9	8.8	22	<0.1	0.2	0.1	72	0.34	0.058
ROS 163863	Soil	0.6	53.6	7.2	82	0.1	28.0	13.0	273	2.86	2.9	1.7	2.5	7.5	18	0.2	0.2	0.3	56	0.26	0.052
ROS 164207	Soil	1.3	24.0	7.2	120	<0.1	7.8	5.6	551	2.43	1.6	2.1	2.7	16.0	71	0.2	0.1	0.1	35	0.82	0.029
ROS 164212	Soil	1.5	34.4	14.7	101	<0.1	28.3	20.5	1351	4.52	4.7	1.6	1.7	23.1	25	0.2	0.6	0.3	88	1.37	0.070
ROS 163860	Soil	1.0	82.3	15.8	113	<0.1	31.4	18.6	459	4.03	0.9	2.0	1.7	11.6	24	0.2	0.1	0.2	85	0.19	0.060
ROS 163864	Soil	0.8	37.5	7.6	81	0.1	25.6	12.5	305	3.37	2.6	1.6	2.2	6.0	16	0.2	0.2	0.3	65	0.19	0.050
ROS 164215	Soil	1.2	16.5	9.5	43	<0.1	22.6	9.1	233	2.46	5.7	0.9	2.6	10.3	17	<0.1	0.4	0.2	53	0.24	0.016
ROS 164214	Soil	0.5	27.9	7.7	54	<0.1	19.0	11.7	399	2.84	6.6	0.8	125.4	3.9	26	<0.1	0.3	0.1	61	0.61	0.090
ROS 159082	Soil	1.1	21.8	12.4	80	0.1	19.5	12.5	514	2.84	5.3	3.8	2.3	8.1	38	0.2	0.4	0.2	58	0.80	0.075
ROS 159066	Soil	0.5	10.9	5.5	62	<0.1	9.1	8.9	450	2.79	3.5	1.0	<0.5	12.7	22	<0.1	0.2	0.1	42	0.21	0.014
ROS 159058	Soil	0.9	14.6	6.2	80	<0.1	6.2	8.1	679	3.43	2.1	1.9	1.6	17.9	15	<0.1	0.1	<0.1	48	0.31	0.041
ROS 159060	Soil	0.8	14.7	7.8	63	<0.1	10.6	7.9	457	2.77	3.4	1.6	0.6	13.4	40	<0.1	0.4	0.1	41	0.71	0.042
ROS 159080	Soil	1.5	24.5	368.4	240	2.8	16.0	11.2	524	3.71	6.0	2.6	5.4	19.4	18	0.1	0.5	0.4	50	0.29	0.050
ROS 159084	Soil	1.0	38.8	17.0	83	0.1	24.9	13.2	631	3.07	9.5	2.5	2.8	5.8	43	0.2	0.7	0.4	61	0.88	0.072
ROS 159057	Soil	1.2	18.7	9.1	60	<0.1	16.0	10.2	460	3.04	7.6	1.2	5.1	7.1	27	0.1	0.5	0.2	58	0.45	0.036
ROS 159062	Soil	0.6	14.0	5.5	78	<0.1	9.9	9.4	587	3.83	3.4	1.7	1.5	12.7	33	<0.1	0.2	<0.1	66	0.41	0.032
ROS 159064	Soil	1.0	15.7	7.3	58	<0.1	11.8	9.5	493	2.93	4.7	1.0	2.2	9.7	32	<0.1	0.2	0.2	52	0.26	0.026
ROS 159083	Soil	1.1	27.9	10.0	73	0.1	24.3	10.9	466	2.57	7.4	1.0	1.1	4.5	31	0.2	0.6	0.2	55	0.58	0.074
ROS 159059	Soil	1.1	22.6	9.2	59	0.1	16.7	8.1	486	2.57	5.7	1.4	4.1	6.5	26	<0.1	0.4	0.1	50	0.45	0.046
ROS 163594	Soil	1.0	20.4	12.1	125	0.1	5.3	6.3	351	2.21	1.0	1.3	0.7	3.0	30	0.1	<0.1	0.1	46	0.16	0.044
ROS 164216	Soil	1.3	34.3	13.7	68	<0.1	28.5	13.2	674	3.42	8.6	1.6	3.2	21.5	23	<0.1	0.6	0.2	69	0.47	0.029
ROS 164208	Soil	0.6	47.1	16.5	64	0.2	34.4	13.1	767	2.96	8.7	1.5	2.3	4.4	34	0.2	0.6	0.2	63	0.92	0.049

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 Report Date: November 05, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 163866	Soil	26	26	0.65	183	0.105	<1	1.85	0.016	0.29	0.2	0.03	3.3	0.2	<0.05	6	<0.5	<0.2
ROS 163861	Soil	37	38	1.19	381	0.250	<1	2.49	0.012	1.02	<0.1	<0.01	4.6	0.5	<0.05	9	<0.5	<0.2
ROS 164218	Soil	18	89	0.76	205	0.076	<1	1.85	0.009	0.14	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 164210	Soil	28	30	0.21	265	0.012	11	1.06	0.009	0.19	<0.1	0.04	9.6	0.1	<0.05	4	<0.5	<0.2
ROS 148056	Soil	25	60	1.36	259	0.246	<1	2.57	0.010	0.81	0.1	<0.01	7.7	0.6	<0.05	11	<0.5	<0.2
ROS 163862	Soil	37	40	1.03	250	0.228	<1	2.28	0.011	0.77	<0.1	0.03	3.9	0.4	<0.05	8	<0.5	<0.2
ROS 164211	Soil	16	37	0.23	110	0.034	<1	1.42	0.005	0.11	0.2	0.01	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 164217	Soil	17	34	0.50	193	0.075	<1	1.63	0.012	0.16	0.1	0.01	3.8	0.1	<0.05	5	0.7	<0.2
ROS 148060	Soil	28	34	0.96	361	0.191	<1	2.35	0.016	0.63	<0.1	<0.01	4.7	0.3	<0.05	8	<0.5	<0.2
ROS 163863	Soil	30	33	0.85	205	0.160	<1	2.03	0.014	0.53	<0.1	0.04	3.8	0.3	<0.05	7	0.5	<0.2
ROS 164207	Soil	35	9	0.69	82	0.064	<1	2.34	0.012	0.19	<0.1	0.02	3.9	0.1	<0.05	10	<0.5	0.2
ROS 164212	Soil	55	55	0.87	238	0.081	<1	1.78	0.012	0.49	0.1	0.03	11.7	0.3	<0.05	8	<0.5	<0.2
ROS 163860	Soil	43	40	1.16	259	0.284	<1	2.27	0.013	1.02	<0.1	<0.01	4.0	0.5	<0.05	10	<0.5	0.2
ROS 163864	Soil	23	32	0.86	208	0.181	2	1.98	0.012	0.56	<0.1	0.03	2.9	0.4	<0.05	7	<0.5	<0.2
ROS 164215	Soil	16	43	0.52	170	0.061	<1	1.41	0.009	0.11	0.1	<0.01	2.9	0.1	<0.05	5	0.6	<0.2
ROS 164214	Soil	10	24	0.67	273	0.072	2	1.39	0.020	0.11	0.1	0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
ROS 159082	Soil	31	34	0.73	182	0.089	2	1.51	0.015	0.24	0.1	0.04	4.1	0.2	0.06	5	0.7	<0.2
ROS 159066	Soil	14	12	0.80	109	0.177	<1	1.81	0.009	0.77	<0.1	<0.01	2.1	0.4	<0.05	7	<0.5	<0.2
ROS 159058	Soil	29	10	1.24	152	0.150	<1	2.05	0.011	0.96	<0.1	<0.01	5.1	0.5	<0.05	9	<0.5	<0.2
ROS 159060	Soil	29	16	0.73	121	0.083	<1	2.07	0.019	0.15	<0.1	0.02	3.7	0.2	<0.05	7	<0.5	<0.2
ROS 159080	Soil	41	21	0.67	107	0.133	<1	1.74	0.010	0.45	0.1	0.05	3.9	0.5	<0.05	9	<0.5	<0.2
ROS 159084	Soil	22	29	0.79	270	0.087	2	1.59	0.017	0.23	0.2	0.04	4.1	0.2	<0.05	5	<0.5	<0.2
ROS 159057	Soil	13	24	0.69	220	0.111	<1	1.60	0.014	0.22	0.1	0.02	4.2	0.2	<0.05	6	<0.5	<0.2
ROS 159062	Soil	27	15	0.95	160	0.196	<1	2.28	0.015	0.83	<0.1	<0.01	5.6	0.5	<0.05	10	<0.5	<0.2
ROS 159064	Soil	17	21	0.71	153	0.152	<1	1.69	0.011	0.56	0.2	<0.01	3.1	0.3	<0.05	7	<0.5	<0.2
ROS 159083	Soil	18	32	0.63	228	0.076	2	1.38	0.019	0.12	0.3	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 159059	Soil	23	23	0.61	213	0.084	<1	1.48	0.013	0.12	0.1	0.03	3.4	0.1	<0.05	6	0.5	<0.2
ROS 163594	Soil	13	11	0.78	200	0.124	1	1.57	0.011	0.60	<0.1	0.03	1.9	0.3	0.09	6	<0.5	<0.2
ROS 164216	Soil	29	39	0.62	307	0.097	1	1.83	0.022	0.15	0.1	0.03	6.5	0.2	<0.05	6	0.6	<0.2
ROS 164208	Soil	29	33	0.59	361	0.053	3	1.76	0.018	0.06	0.2	0.08	5.2	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159065	Soil	3.8	18.2	7.0	57	<0.1	7.8	10.9	496	4.00	6.6	7.9	2.9	18.2	27	<0.1	0.4	0.3	50	0.27	0.034
ROS 163584	Soil	1.0	34.3	9.4	73	0.1	28.1	11.0	475	2.57	8.7	0.6	3.6	3.7	40	0.4	0.8	0.2	54	0.90	0.074
ROS 163595	Soil	1.5	16.0	6.7	67	0.1	4.2	7.2	282	2.16	1.2	0.6	<0.5	1.2	28	0.1	0.1	<0.1	55	0.17	0.045
ROS 163588	Soil	1.9	48.0	6.1	94	0.1	10.4	17.7	750	3.75	3.0	0.9	0.5	3.8	24	<0.1	0.1	<0.1	101	0.20	0.043
ROS 163587	Soil	0.9	25.0	8.3	56	<0.1	22.3	10.3	371	2.35	7.8	0.8	2.8	3.3	39	0.2	0.6	0.2	51	0.70	0.055
ROS 159002	Soil	0.6	43.9	19.1	86	0.2	38.1	15.3	552	3.46	3.6	1.8	0.6	7.7	28	<0.1	0.2	0.6	64	0.59	0.093
ROS 163593	Soil	1.5	14.5	9.9	88	0.1	7.3	5.1	299	2.84	3.2	1.6	<0.5	6.2	53	0.1	0.1	0.2	61	0.18	0.045
ROS 163589	Soil	1.3	56.3	6.3	77	0.1	7.5	12.2	464	3.37	1.9	1.0	2.0	4.2	28	<0.1	0.1	0.1	92	0.22	0.038
ROS 163585	Soil	0.9	38.1	9.1	72	0.1	29.1	11.2	395	2.66	8.9	0.6	2.5	3.7	41	0.2	0.8	0.2	55	0.79	0.070
ROS 159004	Soil	1.5	36.3	24.6	184	0.1	15.0	17.6	1386	3.50	2.5	1.2	0.7	8.7	34	0.2	0.2	0.4	67	0.33	0.047
ROS 163592	Soil	1.3	20.0	8.4	87	0.2	9.0	9.0	382	3.21	3.0	1.4	0.6	5.4	49	0.1	0.2	0.1	79	0.23	0.045
ROS 163590	Soil	1.6	22.1	6.9	87	<0.1	10.3	15.3	648	3.91	4.6	0.8	<0.5	4.1	29	<0.1	0.3	0.2	107	0.16	0.028
ROS 159007	Soil	1.3	25.9	13.0	83	<0.1	14.3	10.0	415	2.74	5.4	1.3	1.2	7.4	30	0.1	0.3	0.2	54	0.43	0.039
ROS 159006	Soil	1.1	54.2	32.7	100	0.3	23.9	10.8	512	2.59	4.8	1.8	0.7	5.7	30	0.6	0.3	0.2	56	0.57	0.056
ROS 163591	Soil	1.6	22.8	5.5	75	<0.1	5.4	12.2	573	3.49	2.3	1.0	<0.5	3.6	29	<0.1	0.1	0.1	106	0.17	0.032
ROS 163586	Soil	1.1	33.4	8.5	65	<0.1	28.2	10.2	420	2.43	8.1	0.6	2.2	3.5	43	0.2	0.8	0.2	50	0.87	0.072
ROS 159003	Soil	1.0	47.6	17.5	103	0.2	23.0	11.6	451	3.86	4.5	1.2	1.5	4.7	25	<0.1	0.2	0.2	111	0.48	0.053
ROS 159008	Soil	1.0	28.2	11.7	102	<0.1	11.6	11.3	507	3.42	3.8	2.1	<0.5	11.7	34	0.1	0.2	0.1	61	0.50	0.045
ROS 159465	Soil	0.8	28.1	10.5	104	<0.1	25.6	19.0	615	4.47	4.4	1.2	<0.5	6.7	30	0.1	0.4	0.2	101	0.46	0.062
ROS 159468	Soil	1.0	24.6	6.7	72	<0.1	18.1	10.0	460	2.27	4.0	1.6	<0.5	3.5	46	0.1	0.3	0.1	50	0.73	0.062
ROS 159467	Soil	0.8	24.7	7.2	70	0.1	20.0	11.2	479	2.39	4.8	1.7	<0.5	3.5	49	0.2	0.3	0.1	53	0.79	0.066
ROS 159462	Soil	1.1	13.1	9.8	57	<0.1	15.4	7.6	340	2.48	5.1	1.6	1.1	39.3	16	<0.1	0.5	0.2	43	0.19	0.044
ROS 159464	Soil	0.9	32.7	20.7	84	<0.1	11.5	7.8	554	3.30	4.8	5.0	<0.5	28.3	22	<0.1	0.6	0.4	43	0.39	0.031
ROS 159460	Soil	0.4	69.3	14.2	53	<0.1	19.3	16.4	385	3.51	4.9	0.8	<0.5	2.9	40	<0.1	0.4	<0.1	95	0.96	0.206
ROS 159466	Soil	0.9	29.8	23.6	89	0.1	22.7	14.6	619	3.51	8.0	1.1	0.6	11.8	33	0.2	0.6	0.2	70	0.54	0.047
ROS 159461	Soil	0.7	26.7	9.0	54	<0.1	23.6	10.5	442	2.83	8.2	1.6	2.4	18.1	26	0.1	0.7	0.1	59	0.34	0.044
ROS 159463	Soil	0.8	43.8	21.6	86	<0.1	12.4	9.3	589	3.41	4.9	5.1	<0.5	30.1	22	0.1	0.6	0.3	46	0.40	0.034
ROS 164485	Soil	1.4	16.3	10.2	54	0.1	16.8	9.5	701	2.56	7.3	1.1	<0.5	6.9	27	0.1	0.5	0.2	55	0.36	0.048
ROS 159005	Soil	1.0	47.4	20.0	85	0.2	25.7	10.7	431	2.78	4.5	1.7	0.8	6.7	32	0.3	0.3	0.2	62	0.53	0.059
ROS 159012	Soil	1.5	44.3	15.1	166	0.1	7.1	7.2	358	3.37	3.0	3.7	<0.5	14.4	42	0.3	0.2	0.1	63	0.54	0.061

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
ROS 159065	Soil	54	15	0.64	162	0.110	<1	1.80	0.010	0.58	0.1	<0.01	3.2	0.3	<0.05	7	0.6	0.4
ROS 163584	Soil	13	29	0.70	320	0.079	2	1.25	0.025	0.07	0.3	0.02	3.1	0.1	<0.05	4	<0.5	<0.2
ROS 163595	Soil	8	9	0.65	135	0.142	<1	1.36	0.010	0.53	0.1	0.05	1.2	0.2	0.09	6	0.5	<0.2
ROS 163588	Soil	14	18	1.18	190	0.210	1	2.24	0.012	0.74	0.1	0.01	2.5	0.3	<0.05	8	<0.5	<0.2
ROS 163587	Soil	11	26	0.51	243	0.067	2	1.16	0.019	0.06	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 159002	Soil	28	42	1.10	330	0.205	<1	1.91	0.013	0.59	0.1	0.01	4.1	0.3	<0.05	7	<0.5	<0.2
ROS 163593	Soil	20	16	0.73	222	0.133	<1	1.69	0.024	0.47	<0.1	0.02	3.0	0.3	0.23	7	1.1	<0.2
ROS 163589	Soil	13	13	1.11	204	0.219	<1	2.21	0.012	0.71	0.1	0.01	2.3	0.3	<0.05	8	<0.5	<0.2
ROS 163585	Soil	14	30	0.63	316	0.076	2	1.33	0.026	0.07	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159004	Soil	25	29	1.00	277	0.208	<1	1.85	0.010	1.00	0.2	<0.01	5.1	0.5	<0.05	9	<0.5	<0.2
ROS 163592	Soil	17	16	0.99	217	0.164	1	2.10	0.015	0.62	<0.1	0.03	3.2	0.3	0.09	7	<0.5	<0.2
ROS 163590	Soil	11	16	1.13	171	0.208	<1	2.24	0.011	0.51	<0.1	<0.01	2.3	0.2	<0.05	8	<0.5	<0.2
ROS 159007	Soil	19	22	0.58	252	0.122	<1	1.47	0.015	0.24	<0.1	<0.01	2.6	0.2	<0.05	6	<0.5	<0.2
ROS 159006	Soil	22	28	0.59	322	0.111	<1	1.43	0.013	0.19	0.1	0.05	4.0	0.2	<0.05	5	<0.5	<0.2
ROS 163591	Soil	9	9	1.25	203	0.211	<1	2.23	0.012	0.87	0.1	0.01	2.6	0.4	<0.05	8	<0.5	<0.2
ROS 163586	Soil	13	26	0.64	294	0.068	2	1.17	0.026	0.07	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 159003	Soil	15	33	1.06	342	0.209	<1	2.00	0.015	0.61	0.2	<0.01	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 159008	Soil	46	17	0.81	298	0.183	<1	2.11	0.026	0.76	0.1	0.02	3.6	0.5	<0.05	8	<0.5	<0.2
ROS 159465	Soil	11	31	1.54	162	0.186	<1	2.69	0.010	0.69	0.2	0.01	4.8	0.4	<0.05	9	<0.5	<0.2
ROS 159468	Soil	14	23	0.63	167	0.079	2	1.34	0.019	0.13	0.2	0.04	2.9	<0.1	0.08	4	0.6	<0.2
ROS 159467	Soil	14	26	0.67	172	0.087	2	1.40	0.021	0.14	0.2	0.04	3.1	<0.1	0.09	5	0.7	<0.2
ROS 159462	Soil	25	25	0.34	152	0.045	<1	1.47	0.009	0.12	0.2	0.02	2.6	0.2	<0.05	5	<0.5	<0.2
ROS 159464	Soil	71	20	0.49	127	0.035	2	1.90	0.008	0.34	0.1	0.04	5.5	0.2	<0.05	7	0.6	<0.2
ROS 159460	Soil	18	22	1.52	173	0.155	2	2.14	0.046	0.22	<0.1	0.02	6.3	<0.1	<0.05	6	0.7	<0.2
ROS 159466	Soil	29	30	1.07	163	0.133	1	2.02	0.016	0.28	0.2	0.05	4.3	0.3	<0.05	7	<0.5	<0.2
ROS 159461	Soil	27	41	0.71	210	0.092	<1	1.62	0.020	0.20	0.1	0.03	5.4	0.2	<0.05	5	0.7	<0.2
ROS 159463	Soil	71	21	0.54	131	0.036	2	2.03	0.007	0.36	0.2	0.05	5.8	0.2	<0.05	8	<0.5	<0.2
ROS 164485	Soil	15	29	0.50	240	0.084	1	1.63	0.018	0.08	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	0.2
ROS 159005	Soil	22	31	0.75	316	0.143	<1	1.66	0.018	0.28	0.2	0.03	4.3	0.2	<0.05	6	<0.5	<0.2
ROS 159012	Soil	27	11	0.93	229	0.191	<1	2.40	0.017	0.82	<0.1	0.02	4.5	0.5	<0.05	9	0.6	<0.2

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.



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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159011	Soil			1.0	17.0	19.1	114	<0.1	9.8	7.8	354	2.67	3.6	1.3	<0.5	9.7	33	0.2	0.2	<0.1	54	0.37	0.043
ROS 159009	Soil			1.1	19.1	12.4	87	<0.1	10.8	7.8	384	2.69	4.2	1.6	<0.5	9.4	34	0.2	0.3	0.1	54	0.40	0.033
ROS 159019	Soil			1.1	48.3	6.6	147	0.2	6.9	9.7	588	3.83	2.7	0.9	<0.5	4.6	61	0.2	0.2	0.2	109	0.22	0.036
ROS 159013	Soil			0.9	15.1	5.7	41	0.2	4.6	4.0	201	1.81	2.0	2.0	0.8	3.9	24	<0.1	0.2	0.1	31	0.12	0.044
ROS 160509	Soil			5.4	10.3	5.7	16	0.2	4.5	2.4	71	4.30	2.1	1.6	1.8	12.2	17	<0.1	0.2	3.2	14	0.05	0.043
ROS 160504	Soil			1.2	10.7	7.8	53	<0.1	8.5	7.6	366	2.65	4.8	1.1	<0.5	8.7	21	<0.1	0.3	0.1	51	0.26	0.026
ROS 160501	Soil			1.0	15.5	11.0	167	<0.1	8.1	7.8	965	3.86	4.8	1.3	<0.5	11.2	14	<0.1	0.2	0.2	62	0.17	0.016
ROS 160503	Soil			0.9	11.4	7.5	58	<0.1	12.2	7.9	372	3.01	7.0	1.0	<0.5	8.4	20	<0.1	0.3	0.1	60	0.23	0.037
ROS 160511	Soil			0.2	8.2	6.8	65	<0.1	4.8	2.5	123	1.00	2.0	0.6	<0.5	2.6	138	<0.1	<0.1	<0.1	19	1.51	0.029
ROS 160505	Soil			1.4	25.7	7.1	56	0.2	16.0	13.1	785	2.48	5.0	3.0	0.8	8.2	37	0.3	0.4	0.1	44	0.49	0.069
ROS 160502	Soil			0.7	15.3	7.7	66	<0.1	11.2	8.1	519	3.12	4.3	1.6	1.2	12.6	21	<0.1	0.2	0.1	52	0.25	0.034
ROS 160135	Soil			2.2	120.1	8.4	89	0.4	21.7	8.2	207	2.77	3.1	1.5	1.2	3.1	27	0.3	0.1	0.2	61	0.22	0.054
ROS 160508	Soil			0.6	14.5	5.3	77	<0.1	4.7	7.6	451	2.74	1.9	2.2	<0.5	14.4	26	<0.1	0.1	0.2	40	0.37	0.043
ROS 160507	Soil			1.9	14.7	6.5	75	0.1	3.3	6.3	448	2.98	1.2	4.8	<0.5	18.1	92	<0.1	0.1	0.3	36	1.24	0.043
ROS 160506	Soil			0.8	14.9	6.4	58	<0.1	10.0	7.1	329	2.50	3.8	2.2	<0.5	10.5	53	<0.1	0.3	0.1	41	0.74	0.051
ROS 160128	Soil			1.6	35.5	9.4	125	<0.1	28.6	14.8	384	3.61	4.9	0.9	<0.5	4.0	29	0.2	0.3	0.2	89	0.16	0.042
ROS 160510	Soil			1.8	25.7	10.6	95	<0.1	10.9	10.8	637	3.17	6.8	1.4	<0.5	10.5	22	0.1	0.4	0.2	65	0.25	0.048
ROS 160512	Soil			<0.1	15.4	2.0	69	<0.1	8.7	23.7	535	4.57	1.3	0.2	<0.5	0.7	123	<0.1	<0.1	<0.1	141	0.76	0.116
ROS 164484	Soil			0.8	15.1	6.3	52	<0.1	11.2	8.2	305	2.46	5.9	0.8	<0.5	10.1	22	<0.1	0.4	0.1	43	0.32	0.040
ROS 159140	Soil			1.0	21.5	8.9	52	<0.1	16.1	9.9	431	2.60	7.1	1.4	<0.5	6.1	31	<0.1	0.5	0.1	57	0.39	0.044



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Project: ROS
 Report Date: November 05, 2010

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CERTIFICATE OF ANALYSIS

WHI10000594.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
ROS 159011	Soil	20	15	0.74	221	0.157	<1	1.85	0.020	0.52	<0.1	<0.01	3.2	0.3	<0.05	6	<0.5	<0.2
ROS 159009	Soil	24	17	0.69	260	0.153	<1	1.86	0.018	0.43	<0.1	0.02	3.0	0.3	<0.05	6	0.8	<0.2
ROS 159019	Soil	12	22	1.35	174	0.218	<1	2.53	0.019	0.99	<0.1	0.02	4.5	0.4	0.10	10	0.7	<0.2
ROS 159013	Soil	20	11	0.41	89	0.098	<1	1.23	0.011	0.30	<0.1	0.04	2.6	0.2	<0.05	6	1.1	<0.2
ROS 160509	Soil	23	8	0.11	154	0.030	<1	0.62	0.026	0.15	<0.1	0.02	1.8	<0.1	0.24	3	1.9	1.5
ROS 160504	Soil	15	17	0.68	139	0.103	<1	1.83	0.009	0.22	0.1	0.01	2.6	0.1	<0.05	7	<0.5	<0.2
ROS 160501	Soil	13	10	1.54	101	0.195	<1	3.07	0.010	0.92	0.2	0.02	5.7	0.6	<0.05	12	<0.5	<0.2
ROS 160503	Soil	15	21	0.63	119	0.130	2	1.76	0.012	0.27	0.2	0.03	2.9	0.2	<0.05	7	0.8	<0.2
ROS 160511	Soil	7	6	0.25	96	0.022	<1	2.70	0.012	0.15	<0.1	0.01	1.2	<0.1	<0.05	9	<0.5	<0.2
ROS 160505	Soil	51	20	0.50	245	0.093	1	1.79	0.014	0.25	0.2	0.06	4.7	0.1	<0.05	6	0.7	0.2
ROS 160502	Soil	33	18	0.79	148	0.141	<1	1.89	0.012	0.52	0.1	0.02	4.2	0.3	<0.05	7	0.6	<0.2
ROS 160135	Soil	16	27	0.65	238	0.114	<1	1.68	0.016	0.27	<0.1	0.06	3.2	0.2	0.06	6	0.9	<0.2
ROS 160508	Soil	30	9	0.65	161	0.157	<1	1.89	0.013	0.66	<0.1	0.01	3.6	0.3	<0.05	7	<0.5	<0.2
ROS 160507	Soil	35	5	0.61	165	0.148	<1	3.36	0.017	0.77	<0.1	0.02	4.0	0.4	<0.05	11	<0.5	0.2
ROS 160506	Soil	35	16	0.55	144	0.106	1	2.24	0.013	0.31	<0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 160128	Soil	14	59	1.06	346	0.156	<1	2.41	0.019	0.46	<0.1	0.03	4.8	0.3	0.06	9	<0.5	<0.2
ROS 160510	Soil	22	21	0.64	158	0.130	<1	1.94	0.014	0.37	0.1	0.02	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 160512	Soil	5	22	2.58	293	0.142	<1	2.56	0.016	0.40	<0.1	<0.01	8.3	<0.1	<0.05	9	<0.5	<0.2
ROS 164484	Soil	13	17	0.45	144	0.095	<1	1.23	0.021	0.19	0.1	0.01	3.3	0.1	<0.05	4	<0.5	<0.2
ROS 159140	Soil	19	29	0.51	251	0.086	<1	1.60	0.017	0.06	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2



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Project: ROS
 Report Date: November 05, 2010

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QUALITY CONTROL REPORT

WHI10000594.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 164402	Soil	0.3	62.5	7.4	105	<0.1	17.2	5.5	553	4.67	0.8	3.6	0.5	24.7	90	0.3	<0.1	0.6	29	0.28	0.142
REP ROS 164402	QC	0.3	66.9	7.7	113	<0.1	16.9	5.7	596	5.10	0.9	3.7	<0.5	25.1	93	0.3	<0.1	0.6	29	0.29	0.146
ROS 164810	Soil	0.9	31.5	7.7	59	0.1	20.5	11.3	554	2.97	8.3	1.4	3.1	7.8	29	<0.1	0.4	0.2	63	0.43	0.041
REP ROS 164810	QC	0.9	29.4	8.2	57	0.1	19.0	11.4	554	3.03	7.7	1.4	5.5	7.7	29	<0.1	0.4	0.2	63	0.44	0.041
ROS 165882	Soil	0.3	17.3	3.2	21	<0.1	5.9	3.3	151	1.14	3.8	0.3	0.6	3.4	11	<0.1	0.2	<0.1	22	0.14	0.008
REP ROS 165882	QC	0.3	17.0	3.2	20	<0.1	5.8	3.1	148	1.10	3.8	0.3	1.5	3.5	11	<0.1	0.2	<0.1	22	0.13	0.008
ROS 160521	Soil	1.3	21.7	20.7	78	<0.1	17.3	11.6	1186	3.20	8.5	1.1	1.2	24.9	22	0.1	0.6	0.2	61	0.29	0.032
REP ROS 160521	QC	1.3	21.0	20.3	79	<0.1	16.3	10.9	1224	3.15	8.0	1.1	<0.5	25.1	23	0.1	0.6	0.2	60	0.28	0.032
ROS 163635	Soil	0.4	10.5	4.7	83	<0.1	5.2	6.4	569	2.95	2.7	1.6	0.6	19.6	6	<0.1	0.3	0.2	35	0.06	0.025
REP ROS 163635	QC	0.4	10.8	4.4	83	<0.1	5.1	6.3	560	2.95	2.8	1.7	0.6	18.4	6	<0.1	0.3	0.2	35	0.06	0.025
ROS 163581	Soil	1.0	17.9	21.8	67	0.1	14.6	6.1	187	2.33	5.9	0.9	1.9	2.2	18	0.1	0.3	0.2	56	0.22	0.050
REP ROS 163581	QC	0.8	17.5	21.6	65	0.1	15.1	6.2	186	2.27	5.6	0.9	1.2	2.1	18	0.2	0.3	0.2	54	0.21	0.049
ROS 160522	Soil	2.0	19.1	14.1	59	<0.1	18.8	13.1	670	3.24	8.1	1.8	1.6	18.9	19	<0.1	0.5	0.2	74	0.29	0.039
REP ROS 160522	QC	2.2	17.7	14.0	56	<0.1	18.7	13.7	685	3.20	7.8	1.8	1.1	18.2	19	<0.1	0.5	0.2	74	0.28	0.040
ROS 164300	Soil	0.7	52.3	3.7	39	<0.1	20.3	13.3	364	2.98	5.1	1.0	1.3	3.9	20	<0.1	0.3	<0.1	66	0.37	0.040
REP ROS 164300	QC	0.6	51.7	3.5	39	<0.1	19.2	13.5	358	2.99	4.9	0.9	2.1	3.6	21	<0.1	0.3	<0.1	64	0.36	0.036
ROS 147166	Soil	0.9	31.5	13.8	92	0.5	28.6	18.4	1043	4.13	9.2	1.6	65.5	10.6	45	0.2	2.8	0.2	71	0.67	0.071
REP ROS 147166	QC	0.9	31.1	14.3	96	0.6	29.0	19.0	1011	4.27	9.4	1.6	91.0	10.6	46	0.3	2.9	0.2	71	0.66	0.067
ROS 147163	Soil	1.6	24.5	13.3	67	0.1	20.1	11.0	625	3.26	8.0	1.3	5.1	8.7	32	<0.1	1.4	0.2	66	0.61	0.032
REP ROS 147163	QC	1.5	25.2	13.6	69	0.1	21.3	10.9	644	3.29	8.5	1.3	4.2	8.4	30	<0.1	1.3	0.2	66	0.63	0.030
ROS 163808	Soil	1.3	13.6	6.8	61	<0.1	9.9	8.0	330	2.95	4.7	1.9	1.0	8.8	39	0.2	0.2	0.1	54	0.20	0.048
REP ROS 163808	QC	1.4	12.8	6.7	60	<0.1	10.2	8.1	328	2.90	4.9	1.9	<0.5	8.7	40	0.2	0.3	0.2	53	0.20	0.047
ROS 164091	Soil	0.9	31.2	11.3	198	0.2	20.4	9.8	354	2.62	4.7	1.1	2.2	5.0	25	0.4	0.2	0.1	66	0.32	0.067
REP ROS 164091	QC	0.8	32.9	11.8	199	0.3	21.7	9.4	360	2.66	4.7	1.2	5.4	5.1	25	0.4	0.2	0.1	67	0.33	0.066
ROS 165710	Soil	0.9	23.0	8.6	67	<0.1	26.6	11.4	414	3.04	9.1	0.9	5.1	4.9	31	<0.1	0.7	0.1	70	0.30	0.039
REP ROS 165710	QC	0.9	23.4	9.0	67	<0.1	26.9	11.3	424	3.10	9.1	0.9	5.9	4.9	32	<0.1	0.7	0.1	70	0.30	0.039
ROS 165716	Soil	0.6	15.0	8.2	94	<0.1	18.5	10.9	392	2.91	7.9	0.6	0.6	7.2	58	<0.1	0.6	0.1	72	0.44	0.054
REP ROS 165716	QC	0.7	14.9	8.7	93	<0.1	17.5	11.3	389	2.89	8.2	0.6	1.3	7.6	55	<0.1	0.6	0.1	71	0.42	0.053

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000594.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 164402	Soil	88	27	0.85	344	0.194	<1	1.79	0.022	1.55	<0.1	<0.01	2.5	0.7	0.81	5	0.7	0.3
REP ROS 164402	QC	94	27	0.83	289	0.177	<1	1.84	0.024	1.56	<0.1	<0.01	2.6	0.7	0.89	6	1.0	0.3
ROS 164810	Soil	34	34	0.61	300	0.079	<1	1.74	0.019	0.09	0.1	0.03	6.1	<0.1	<0.05	6	0.7	<0.2
REP ROS 164810	QC	35	34	0.67	295	0.080	<1	1.79	0.016	0.08	0.2	0.03	6.0	<0.1	<0.05	6	0.5	<0.2
ROS 165882	Soil	8	12	0.32	108	0.017	<1	1.01	0.006	0.12	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
REP ROS 165882	QC	8	11	0.33	109	0.014	<1	1.00	0.005	0.12	<0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
ROS 160521	Soil	19	32	0.41	273	0.051	5	1.64	0.009	0.19	<0.1	0.01	5.8	0.2	<0.05	6	<0.5	<0.2
REP ROS 160521	QC	20	32	0.41	276	0.049	<1	1.63	0.011	0.19	0.1	0.01	5.5	0.2	<0.05	7	<0.5	<0.2
ROS 163635	Soil	38	9	0.40	108	0.060	<1	1.31	0.008	0.22	0.2	0.02	4.4	0.2	<0.05	7	0.6	<0.2
REP ROS 163635	QC	38	9	0.39	111	0.060	<1	1.31	0.007	0.21	0.2	0.02	4.2	0.2	<0.05	6	0.6	<0.2
ROS 163581	Soil	14	27	0.51	148	0.086	<1	1.55	0.011	0.10	0.1	0.04	2.4	0.1	<0.05	6	0.6	<0.2
REP ROS 163581	QC	14	26	0.50	155	0.084	1	1.53	0.011	0.10	0.1	0.04	2.5	<0.1	<0.05	6	0.7	<0.2
ROS 160522	Soil	32	34	0.44	208	0.062	1	2.04	0.010	0.09	0.1	0.01	4.6	0.1	<0.05	7	<0.5	<0.2
REP ROS 160522	QC	32	34	0.44	211	0.060	2	2.05	0.011	0.10	0.1	0.01	4.5	0.1	<0.05	7	<0.5	<0.2
ROS 164300	Soil	29	33	0.79	220	0.113	<1	2.09	0.023	0.15	0.2	0.02	5.6	0.1	<0.05	6	<0.5	<0.2
REP ROS 164300	QC	28	33	0.78	209	0.113	<1	2.06	0.023	0.14	0.1	<0.01	5.5	0.1	<0.05	6	<0.5	<0.2
ROS 147166	Soil	25	47	0.95	309	0.041	2	2.15	0.016	0.08	4.8	0.16	6.0	<0.1	<0.05	9	<0.5	<0.2
REP ROS 147166	QC	27	48	0.91	327	0.042	2	2.13	0.018	0.08	4.7	0.17	6.0	<0.1	<0.05	9	<0.5	0.5
ROS 147163	Soil	19	33	0.62	344	0.068	2	2.10	0.022	0.10	0.1	0.05	5.1	<0.1	<0.05	7	0.7	<0.2
REP ROS 147163	QC	19	33	0.64	333	0.068	2	2.07	0.022	0.11	0.1	0.04	5.4	<0.1	<0.05	7	<0.5	<0.2
ROS 163808	Soil	31	18	0.58	119	0.105	<1	1.92	0.014	0.28	<0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
REP ROS 163808	QC	31	18	0.58	122	0.104	<1	1.86	0.015	0.28	0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 164091	Soil	19	32	0.77	172	0.141	1	1.55	0.013	0.23	0.1	0.02	3.2	0.2	<0.05	6	<0.5	<0.2
REP ROS 164091	QC	19	34	0.78	174	0.144	<1	1.61	0.015	0.24	0.1	0.02	3.3	0.2	<0.05	7	<0.5	0.3
ROS 165710	Soil	15	40	0.62	195	0.091	1	1.86	0.011	0.12	0.2	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
REP ROS 165710	QC	15	40	0.65	190	0.094	<1	1.93	0.012	0.12	0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
ROS 165716	Soil	11	31	0.72	249	0.115	<1	2.20	0.014	0.26	0.1	<0.01	3.6	0.1	<0.05	8	<0.5	<0.2
REP ROS 165716	QC	11	31	0.73	250	0.111	<1	2.11	0.019	0.25	0.1	<0.01	3.5	0.1	<0.05	8	<0.5	<0.2

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI10000594.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 163594	Soil	1.0	20.4	12.1	125	0.1	5.3	6.3	351	2.21	1.0	1.3	0.7	3.0	30	0.1	<0.1	0.1	46	0.16	0.044
REP ROS 163594	QC	1.0	20.6	10.4	123	0.1	5.7	6.3	346	2.24	1.2	1.2	1.3	2.7	31	0.2	0.1	0.1	47	0.16	0.047
ROS 163585	Soil	0.9	38.1	9.1	72	0.1	29.1	11.2	395	2.66	8.9	0.6	2.5	3.7	41	0.2	0.8	0.2	55	0.79	0.070
REP ROS 163585	QC	0.8	39.8	8.7	70	0.1	30.0	11.0	393	2.67	8.9	0.5	<0.5	3.7	40	0.2	0.8	0.2	56	0.79	0.068
ROS 159009	Soil	1.1	19.1	12.4	87	<0.1	10.8	7.8	384	2.69	4.2	1.6	<0.5	9.4	34	0.2	0.3	0.1	54	0.40	0.033
REP ROS 159009	QC	1.0	19.0	12.8	91	<0.1	10.3	8.0	381	2.73	4.4	1.7	<0.5	9.4	34	0.2	0.2	0.1	53	0.42	0.032
ROS 160509	Soil	5.4	10.3	5.7	16	0.2	4.5	2.4	71	4.30	2.1	1.6	1.8	12.2	17	<0.1	0.2	3.2	14	0.05	0.043
REP ROS 160509	QC	5.1	10.0	5.7	17	0.2	4.2	2.7	76	4.31	2.4	1.7	1.1	13.1	17	<0.1	0.2	3.3	14	0.06	0.039
Reference Materials																					
STD DS7	Standard	21.1	104.0	60.7	391	1.0	50.3	9.3	628	2.42	53.5	4.6	67.5	4.5	71	6.2	5.6	4.5	77	0.93	0.077
STD DS7	Standard	18.3	97.9	57.6	357	0.9	48.9	8.2	588	2.23	48.1	4.1	56.5	3.9	69	6.2	5.6	4.2	75	0.85	0.071
STD DS7	Standard	21.6	112.8	71.4	395	0.9	54.4	9.6	611	2.39	51.4	5.0	66.1	4.8	74	5.5	6.0	4.9	83	0.94	0.076
STD DS7	Standard	21.7	112.2	62.6	401	0.9	55.3	9.4	656	2.44	52.1	4.6	70.1	4.7	79	5.9	5.9	4.4	87	0.97	0.077
STD DS7	Standard	20.9	111.0	65.2	403	0.9	55.5	9.2	641	2.41	51.7	4.8	69.1	4.0	77	6.3	6.1	4.4	84	0.95	0.076
STD DS7	Standard	20.8	107.8	65.2	387	0.9	54.0	9.5	642	2.40	51.4	4.8	60.8	4.5	69	5.8	5.6	4.6	85	0.94	0.079
STD DS7	Standard	22.3	120.0	75.2	396	1.0	59.1	9.7	633	2.47	50.7	5.1	69.8	4.4	71	5.7	6.4	5.2	90	0.94	0.074
STD DS7	Standard	20.5	103.4	64.3	370	0.9	54.5	9.1	608	2.29	48.8	4.5	69.9	4.4	63	6.1	5.3	4.4	81	0.88	0.072
STD DS7	Standard	19.8	116.4	65.7	388	1.0	55.8	9.5	636	2.42	51.9	4.5	61.9	4.4	67	6.3	5.4	4.5	83	0.95	0.076
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 05, 2010

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI10000594.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 163594	Soil	13	11	0.78	200	0.124	1	1.57	0.011	0.60	<0.1	0.03	1.9	0.3	0.09	6	<0.5	<0.2
REP ROS 163594	QC	13	12	0.75	195	0.128	<1	1.57	0.010	0.58	<0.1	0.03	2.0	0.3	0.09	6	<0.5	<0.2
ROS 163585	Soil	14	30	0.63	316	0.076	2	1.33	0.026	0.07	0.2	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
REP ROS 163585	QC	14	30	0.62	307	0.075	2	1.27	0.024	0.07	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159009	Soil	24	17	0.69	260	0.153	<1	1.86	0.018	0.43	<0.1	0.02	3.0	0.3	<0.05	6	0.8	<0.2
REP ROS 159009	QC	23	16	0.68	255	0.150	<1	1.79	0.017	0.44	<0.1	<0.01	2.9	0.3	<0.05	7	<0.5	<0.2
ROS 160509	Soil	23	8	0.11	154	0.030	<1	0.62	0.026	0.15	<0.1	0.02	1.8	<0.1	0.24	3	1.9	1.5
REP ROS 160509	QC	25	8	0.12	156	0.033	<1	0.66	0.026	0.14	<0.1	0.02	1.8	<0.1	0.23	3	1.5	1.9
Reference Materials																		
STD DS7	Standard	13	188	1.06	388	0.112	41	1.05	0.109	0.48	3.5	0.20	2.7	4.1	0.17	5	3.3	1.7
STD DS7	Standard	11	167	0.94	377	0.118	37	0.91	0.097	0.47	3.4	0.21	2.4	3.6	0.23	4	3.5	0.7
STD DS7	Standard	13	194	1.01	388	0.121	41	1.03	0.107	0.47	4.0	0.22	2.5	4.0	0.23	5	3.1	0.8
STD DS7	Standard	13	204	1.06	395	0.120	38	1.11	0.111	0.47	3.3	0.21	2.6	3.9	0.21	5	3.8	1.7
STD DS7	Standard	13	193	1.04	402	0.129	38	1.01	0.095	0.47	3.8	0.21	2.4	4.1	0.21	5	4.2	2.0
STD DS7	Standard	13	194	1.04	366	0.123	39	1.06	0.101	0.47	3.5	0.21	2.7	4.2	0.23	5	3.4	1.2
STD DS7	Standard	13	204	1.05	399	0.125	38	1.01	0.087	0.49	3.7	0.19	2.2	4.4	0.22	5	3.6	1.1
STD DS7	Standard	12	186	1.00	395	0.107	39	0.95	0.090	0.46	3.6	0.21	2.3	4.2	0.18	5	3.1	0.9
STD DS7	Standard	13	192	1.05	399	0.111	39	1.05	0.098	0.48	3.7	0.21	2.5	4.1	0.18	5	3.8	1.3
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 09, 2010
Report Date: November 03, 2010
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI10000595.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS3
P.O. Number
Number of Samples: 69

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	69	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	69	Dry at 60C			WHI
1DX2	69	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 03, 2010

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

WHI10000595.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160147	Soil	1.0	50.3	10.6	80	0.2	24.6	10.7	279	2.80	3.1	1.5	8.8	5.3	22	0.4	0.3	0.2	55	0.34	0.056
ROS 160444	Soil	1.3	23.3	12.2	88	<0.1	18.2	9.0	331	3.33	3.8	0.8	1.6	2.9	13	0.2	0.2	0.1	65	0.16	0.041
ROS 160176	Soil	0.8	22.7	5.6	61	0.3	7.4	6.8	260	2.17	1.7	0.8	0.7	1.5	23	<0.1	0.1	<0.1	48	0.18	0.038
ROS 160378	Soil	0.9	47.7	9.9	39	0.1	9.7	3.8	89	1.38	2.2	0.7	0.7	0.9	13	<0.1	0.2	0.1	26	0.13	0.040
ROS 160462	Soil	0.8	23.2	7.5	52	0.2	19.3	8.3	174	2.25	4.2	1.0	2.5	1.9	20	0.2	0.3	0.1	54	0.29	0.050
ROS 160460	Soil	1.1	21.0	9.4	66	0.2	18.2	9.4	235	2.63	4.3	0.8	3.0	2.2	19	0.2	0.2	0.1	65	0.30	0.060
ROS 160478	Soil	1.1	28.6	9.2	63	<0.1	23.6	11.2	325	2.74	6.0	1.0	2.2	5.1	25	0.2	0.6	0.1	59	0.39	0.049
ROS 160178	Soil	1.0	20.9	9.1	64	0.1	9.1	7.6	321	2.85	3.2	0.7	0.6	2.1	27	<0.1	0.1	<0.1	78	0.19	0.037
ROS 160129	Soil	2.7	42.1	9.8	111	0.3	27.5	10.7	213	3.18	4.8	1.8	1.8	3.2	23	0.2	0.3	0.2	83	0.13	0.043
ROS 160480	Soil	0.9	33.5	10.1	55	0.1	27.1	11.0	392	2.52	7.4	1.2	3.8	5.0	33	0.1	0.6	0.3	61	0.61	0.057
ROS 160442	Soil	2.7	152.0	9.8	88	0.2	11.7	9.5	302	3.58	3.9	0.7	6.8	3.0	13	0.1	0.2	0.2	88	0.17	0.037
ROS 160163	Soil	1.1	28.6	9.3	67	0.1	19.3	11.1	407	2.66	6.5	0.9	4.7	3.5	26	0.2	0.4	0.1	67	0.46	0.052
ROS 160459	Soil	1.2	53.2	8.2	97	0.1	24.4	12.4	367	3.25	3.3	1.1	2.1	4.8	22	0.2	0.2	0.2	77	0.39	0.073
ROS 160371	Soil	1.7	84.4	11.8	170	0.2	28.8	15.1	765	2.93	2.5	1.2	2.6	6.4	29	0.8	0.2	0.1	72	0.49	0.050
ROS 160458	Soil	1.3	38.5	12.5	98	0.2	23.9	11.4	309	2.95	4.1	1.0	1.4	4.8	20	0.2	0.2	0.2	67	0.35	0.058
ROS 160495	Soil	2.2	26.2	9.9	81	0.1	10.4	15.3	683	3.31	3.6	1.3	0.5	5.2	44	0.1	0.2	0.1	81	0.20	0.043
ROS 164818	Soil	1.8	31.6	7.5	62	<0.1	13.3	8.8	705	3.05	3.2	1.5	1.5	13.0	14	<0.1	0.3	0.3	43	0.26	0.049
ROS 159431	Soil	1.0	27.0	16.6	61	<0.1	27.0	10.9	431	3.02	7.8	1.3	0.7	13.1	25	<0.1	0.6	0.2	67	0.50	0.038
ROS 159427	Soil	1.1	14.4	15.9	62	<0.1	17.1	9.1	444	2.34	4.6	1.4	<0.5	17.2	15	<0.1	0.3	0.1	52	0.22	0.038
ROS 159428	Soil	1.7	13.1	21.7	76	<0.1	17.8	9.9	437	2.69	5.8	3.1	<0.5	32.0	19	<0.1	0.5	0.2	54	0.25	0.030
ROS 159433	Soil	1.2	31.4	13.8	63	0.1	24.3	11.8	370	2.77	7.1	4.1	2.6	14.5	32	0.1	0.6	0.1	62	0.83	0.048
ROS 164816	Soil	1.3	21.1	12.7	51	<0.1	19.6	8.3	350	2.95	6.9	1.2	1.9	13.1	15	<0.1	0.4	0.4	59	0.23	0.026
ROS 159434	Soil	1.0	20.4	7.0	57	<0.1	17.9	9.4	235	2.27	4.9	1.7	1.7	3.0	34	0.1	0.2	<0.1	54	0.77	0.055
ROS 159432	Soil	1.4	24.0	27.8	83	<0.1	23.9	12.4	768	3.60	6.6	2.7	0.9	52.4	22	0.2	0.7	0.2	67	0.56	0.048
ROS 160374	Soil	0.9	28.5	10.0	61	0.1	16.2	7.6	165	2.20	5.5	0.7	2.5	2.2	19	0.1	0.2	0.1	58	0.23	0.047
ROS 160377	Soil	1.0	36.4	12.2	48	<0.1	12.0	4.6	122	1.76	2.9	0.6	5.8	1.4	15	<0.1	0.1	0.1	42	0.18	0.034
ROS 164817	Soil	2.3	18.3	6.2	59	<0.1	14.2	8.6	537	2.72	3.3	1.3	<0.5	12.4	12	<0.1	0.3	0.3	44	0.22	0.046
ROS 164819	Soil	2.3	15.8	14.1	51	<0.1	17.4	8.8	325	3.02	5.8	0.9	4.4	7.1	14	<0.1	0.4	0.2	60	0.22	0.025
ROS 160161	Soil	1.0	16.3	7.1	58	<0.1	15.1	7.9	206	2.18	4.1	0.7	3.0	2.4	19	<0.1	0.3	0.1	63	0.25	0.044
ROS 160375	Soil	1.0	37.3	13.1	48	0.2	14.1	5.2	98	2.28	5.2	1.0	1.5	1.6	16	0.1	0.2	0.1	42	0.18	0.051

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Project: ROS
 Report Date: November 03, 2010

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

WHI10000595.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160147	Soil	19	38	0.60	258	0.110	<1	1.61	0.014	0.26	0.1	0.02	3.6	0.2	0.11	5	0.6	<0.2
ROS 160444	Soil	13	27	0.61	189	0.111	<1	1.67	0.011	0.19	<0.1	0.01	4.3	0.1	<0.05	9	0.7	<0.2
ROS 160176	Soil	8	15	0.58	110	0.119	1	1.58	0.010	0.41	0.1	0.04	1.6	0.2	0.10	6	<0.5	<0.2
ROS 160378	Soil	8	20	0.25	92	0.068	2	0.92	0.009	0.11	<0.1	0.03	1.6	0.1	0.11	4	<0.5	<0.2
ROS 160462	Soil	11	32	0.43	181	0.064	<1	1.45	0.011	0.05	0.2	0.03	3.1	<0.1	0.06	4	<0.5	<0.2
ROS 160460	Soil	10	30	0.53	212	0.083	<1	1.44	0.017	0.10	0.3	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 160478	Soil	16	31	0.58	250	0.120	2	1.59	0.017	0.13	0.2	0.04	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 160178	Soil	9	19	0.85	133	0.151	1	1.75	0.009	0.49	0.1	0.02	2.0	0.2	0.08	6	<0.5	<0.2
ROS 160129	Soil	12	54	0.78	272	0.127	<1	2.16	0.011	0.26	<0.1	0.03	3.8	0.2	0.08	8	0.9	<0.2
ROS 160480	Soil	13	32	0.51	252	0.088	2	1.35	0.023	0.07	0.3	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 160442	Soil	11	22	0.69	209	0.163	1	1.85	0.016	0.40	<0.1	0.01	3.3	0.2	0.11	7	0.8	<0.2
ROS 160163	Soil	13	28	0.55	194	0.102	<1	1.34	0.016	0.14	0.3	0.02	2.8	<0.1	0.06	4	<0.5	<0.2
ROS 160459	Soil	13	30	0.72	246	0.127	<1	1.52	0.017	0.32	0.2	0.01	3.5	0.2	<0.05	5	<0.5	<0.2
ROS 160371	Soil	23	34	0.73	267	0.154	<1	1.66	0.012	0.40	0.1	0.03	3.7	0.3	0.05	5	0.7	0.7
ROS 160458	Soil	16	34	0.70	200	0.115	1	1.65	0.014	0.24	0.2	0.02	3.5	0.1	<0.05	6	<0.5	<0.2
ROS 160495	Soil	15	17	1.02	151	0.193	<1	2.21	0.011	0.58	0.1	0.01	2.8	0.3	<0.05	8	<0.5	<0.2
ROS 164818	Soil	21	19	0.50	185	0.144	<1	1.45	0.013	0.42	0.6	<0.01	4.3	0.2	<0.05	5	<0.5	<0.2
ROS 159431	Soil	27	37	0.63	212	0.088	1	1.57	0.019	0.12	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 159427	Soil	15	31	0.35	190	0.064	2	1.33	0.013	0.14	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159428	Soil	30	34	0.39	212	0.071	1	1.50	0.012	0.21	0.1	0.01	3.5	0.1	<0.05	5	<0.5	<0.2
ROS 159433	Soil	33	37	0.60	175	0.082	2	1.51	0.017	0.15	0.2	0.03	4.1	0.1	0.06	5	<0.5	<0.2
ROS 164816	Soil	41	39	0.43	236	0.082	<1	1.61	0.009	0.07	0.2	0.03	4.0	<0.1	<0.05	5	0.8	<0.2
ROS 159434	Soil	13	26	0.53	151	0.085	1	1.25	0.015	0.09	0.2	0.02	2.8	<0.1	0.08	4	<0.5	<0.2
ROS 159432	Soil	49	42	0.73	173	0.081	2	1.52	0.012	0.36	0.3	0.01	5.2	0.3	<0.05	5	<0.5	<0.2
ROS 160374	Soil	12	27	0.47	134	0.110	<1	1.38	0.012	0.15	<0.1	0.04	2.5	0.1	0.07	5	<0.5	<0.2
ROS 160377	Soil	9	22	0.34	102	0.103	<1	1.06	0.018	0.13	0.2	0.04	2.2	0.1	0.10	4	<0.5	<0.2
ROS 164817	Soil	18	24	0.41	113	0.089	<1	1.20	0.010	0.20	0.2	<0.01	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 164819	Soil	18	30	0.43	143	0.089	<1	1.50	0.008	0.13	0.2	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160161	Soil	11	29	0.48	108	0.099	<1	1.30	0.011	0.09	0.3	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
ROS 160375	Soil	11	27	0.28	104	0.082	<1	1.04	0.009	0.09	0.1	0.05	1.9	0.1	0.10	3	0.7	0.3

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Project: ROS
 Report Date: November 03, 2010

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CERTIFICATE OF ANALYSIS

WHI10000595.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160376	Soil		1.0	29.7	8.9	46	<0.1	11.1	4.8	109	1.34	1.4	0.5	2.3	1.3	17	<0.1	0.1	0.1	35	0.17	0.029
ROS 160380	Soil		1.3	44.7	11.0	83	<0.1	20.5	10.6	272	2.84	4.8	1.0	3.7	3.7	19	0.2	0.3	0.1	74	0.26	0.049
ROS 160315	Soil		1.4	39.1	9.6	72	0.1	30.3	12.3	404	2.73	8.5	0.8	4.8	5.2	29	0.2	0.6	0.2	67	0.45	0.066
ROS 160311	Soil		1.8	32.4	13.2	80	0.2	23.8	14.5	438	3.22	4.2	1.9	3.4	7.8	20	0.1	0.2	0.1	71	0.27	0.055
ROS 160300	Soil		4.9	72.8	14.9	213	0.4	28.9	11.7	294	2.98	2.6	1.4	2.1	6.6	16	0.4	0.2	0.4	99	0.17	0.031
ROS 160409	Soil		1.4	36.0	10.9	82	<0.1	30.8	15.2	313	3.87	1.8	3.5	<0.5	20.5	16	0.2	0.1	0.2	66	0.22	0.063
ROS 160316	Soil		1.7	35.8	13.9	69	0.2	24.6	11.0	305	2.85	8.2	1.2	1.9	4.7	27	0.2	0.5	0.2	65	0.25	0.062
ROS 160305	Soil		1.0	28.7	9.1	90	0.1	23.9	13.3	495	3.31	3.1	1.4	0.5	7.2	17	0.1	0.4	0.2	60	0.21	0.053
ROS 160302	Soil		1.2	39.6	6.3	112	0.1	35.5	12.4	318	3.30	2.2	1.1	<0.5	6.7	23	0.2	0.2	0.2	60	0.25	0.060
ROS 160411	Soil		2.4	69.8	9.8	68	0.2	24.4	9.8	269	3.30	2.7	1.3	1.8	5.0	17	0.2	0.2	0.2	74	0.23	0.060
ROS 160314	Soil		1.6	38.3	12.7	74	0.2	24.2	10.6	370	2.82	9.1	1.7	1.8	7.2	34	0.2	0.6	0.2	60	0.43	0.078
ROS 160303	Soil		1.0	41.3	7.4	111	0.2	32.2	11.4	414	3.53	1.9	1.5	1.0	7.3	25	0.2	0.2	0.2	62	0.27	0.045
ROS 160407	Soil		1.6	69.9	11.7	74	<0.1	30.0	16.0	334	3.10	8.3	1.8	7.0	5.8	18	0.2	0.5	0.3	73	0.18	0.028
ROS 160412	Soil		1.5	66.0	7.3	43	0.3	29.4	9.5	198	1.88	2.1	2.8	<0.5	1.1	19	0.3	0.2	0.1	33	0.20	0.068
ROS 160308	Soil		1.1	34.8	10.4	83	0.2	25.3	12.4	365	3.28	5.2	1.6	1.8	5.9	24	0.1	0.3	0.2	71	0.25	0.055
ROS 160298	Soil		9.5	68.2	41.8	274	0.4	23.9	9.3	278	2.98	3.9	2.1	0.8	6.1	24	0.6	0.3	0.7	96	0.20	0.060
ROS 160405	Soil		0.9	28.6	9.1	51	<0.1	23.2	13.2	352	3.52	4.4	0.7	3.3	4.1	10	<0.1	0.2	0.2	84	0.17	0.044
ROS 160403	Soil		1.4	14.8	10.2	110	0.1	31.7	17.2	426	3.16	7.0	0.7	<0.5	5.0	37	0.2	0.5	0.2	73	0.19	0.031
ROS 160307	Soil		1.2	28.3	9.3	79	<0.1	25.3	10.6	297	3.10	4.1	1.3	0.6	6.5	19	<0.1	0.3	0.1	64	0.21	0.040
ROS 159430	Soil		0.9	33.2	13.0	128	<0.1	25.7	16.3	671	4.35	6.1	4.2	1.9	29.6	25	<0.1	0.5	0.2	86	0.50	0.058
ROS 147346	Soil		1.3	35.5	18.7	61	0.1	26.2	11.7	480	2.77	8.4	2.3	3.4	5.9	43	<0.1	1.2	0.2	56	0.76	0.046
ROS 147338	Soil		1.2	33.6	13.5	66	0.2	23.0	10.0	339	2.83	6.4	1.2	15.2	6.2	31	<0.1	0.6	0.3	58	0.54	0.037
ROS 160404	Soil		1.3	55.4	17.4	89	<0.1	40.2	18.9	550	4.72	2.1	2.2	<0.5	15.3	20	<0.1	0.1	0.3	70	0.20	0.042
ROS 160402	Soil		1.2	24.0	15.9	576	<0.1	17.4	16.7	683	4.05	3.6	0.6	<0.5	3.4	78	0.4	0.2	0.2	104	0.36	0.036
ROS 147343	Soil		2.1	23.0	24.2	52	<0.1	27.5	8.8	278	2.82	8.2	0.9	3.8	6.2	27	<0.1	1.2	0.2	59	0.37	0.019
ROS 147347	Soil		1.8	69.2	21.0	110	0.1	52.1	18.0	758	3.91	4.9	1.8	4.4	7.3	43	<0.1	1.4	0.2	68	0.81	0.077
ROS 160401	Soil		0.7	50.1	8.5	77	<0.1	50.6	14.8	369	4.36	3.4	1.7	<0.5	12.2	24	0.1	0.2	0.2	102	0.39	0.075
ROS 160406	Soil		1.5	49.7	12.1	60	0.1	33.7	14.5	288	3.32	10.1	1.8	2.1	9.7	17	<0.1	0.8	0.2	77	0.14	0.016
ROS 147345	Soil		1.4	26.3	23.3	52	0.1	25.5	9.5	324	2.78	8.5	2.5	5.4	6.3	29	<0.1	1.4	0.2	62	0.40	0.035
ROS 147344	Soil		1.8	14.0	11.5	44	<0.1	18.7	6.8	199	2.38	7.0	0.5	2.9	3.9	24	<0.1	0.8	0.2	55	0.33	0.029

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Client: **Taku Gold Corp**
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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 03, 2010

Page: 3 of 4 Part 2

CERTIFICATE OF ANALYSIS

WHI10000595.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160376	Soil	8	21	0.31	99	0.092	<1	0.93	0.010	0.13	0.1	0.03	2.0	0.1	0.06	4	<0.5	<0.2
ROS 160380	Soil	15	30	0.60	148	0.150	<1	1.70	0.013	0.25	0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 160315	Soil	16	34	0.59	257	0.100	<1	1.36	0.022	0.13	0.2	0.02	3.6	0.1	<0.05	4	<0.5	<0.2
ROS 160311	Soil	26	36	0.77	189	0.170	<1	2.03	0.010	0.33	0.1	0.01	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 160300	Soil	21	42	0.86	208	0.200	<1	1.82	0.010	0.35	<0.1	0.01	3.6	0.2	<0.05	8	<0.5	<0.2
ROS 160409	Soil	61	44	1.03	334	0.261	<1	2.17	0.008	0.86	<0.1	<0.01	4.1	0.5	<0.05	8	<0.5	<0.2
ROS 160316	Soil	15	35	0.74	186	0.119	1	1.87	0.017	0.20	0.1	0.03	3.0	0.2	0.06	6	0.5	<0.2
ROS 160305	Soil	26	36	0.89	164	0.202	<1	2.03	0.012	0.59	0.1	0.04	3.6	0.4	<0.05	8	<0.5	<0.2
ROS 160302	Soil	20	42	0.97	190	0.202	1	2.06	0.013	0.47	0.1	0.01	3.2	0.4	<0.05	8	0.6	<0.2
ROS 160411	Soil	18	36	0.86	164	0.168	<1	1.73	0.014	0.45	<0.1	0.03	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 160314	Soil	24	31	0.61	240	0.099	2	1.65	0.020	0.15	0.2	0.05	3.6	0.1	<0.05	5	0.5	<0.2
ROS 160303	Soil	28	39	0.94	231	0.228	<1	2.24	0.013	0.80	0.1	0.02	4.2	0.5	<0.05	9	0.6	<0.2
ROS 160407	Soil	17	38	0.61	280	0.087	1	2.25	0.012	0.06	0.1	0.03	5.0	0.2	<0.05	6	0.6	<0.2
ROS 160412	Soil	26	40	0.47	181	0.081	<1	1.20	0.015	0.28	<0.1	0.05	1.8	0.2	0.06	5	0.8	<0.2
ROS 160308	Soil	21	32	0.79	236	0.161	2	2.03	0.013	0.31	0.1	0.02	3.6	0.2	<0.05	7	0.9	<0.2
ROS 160298	Soil	19	39	0.80	174	0.153	<1	1.95	0.011	0.28	0.1	0.03	3.8	0.2	<0.05	7	0.7	<0.2
ROS 160405	Soil	6	34	0.86	182	0.184	<1	2.44	0.017	0.42	0.1	0.02	4.2	0.3	<0.05	8	<0.5	<0.2
ROS 160403	Soil	13	39	0.76	377	0.123	<1	2.41	0.024	0.36	0.2	0.02	2.9	0.2	<0.05	8	0.6	<0.2
ROS 160307	Soil	21	35	0.79	205	0.177	<1	1.93	0.012	0.38	0.1	0.02	3.2	0.3	<0.05	7	0.6	<0.2
ROS 159430	Soil	78	40	1.49	117	0.167	<1	2.49	0.012	0.42	0.1	0.04	6.0	0.4	<0.05	10	0.8	<0.2
ROS 147346	Soil	21	36	0.55	393	0.067	2	1.69	0.020	0.07	0.2	0.09	4.4	<0.1	<0.05	5	0.8	<0.2
ROS 147338	Soil	24	35	0.58	424	0.087	<1	1.60	0.019	0.12	0.2	0.06	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 160404	Soil	27	40	1.26	341	0.258	<1	3.00	0.016	1.25	<0.1	<0.01	4.6	0.6	<0.05	9	<0.5	<0.2
ROS 160402	Soil	6	26	1.63	1084	0.247	1	3.61	0.024	1.14	0.1	<0.01	3.2	0.4	<0.05	9	<0.5	<0.2
ROS 147343	Soil	18	40	0.53	391	0.069	<1	1.75	0.012	0.09	0.2	0.05	4.1	<0.1	<0.05	5	0.6	<0.2
ROS 147347	Soil	19	108	1.13	325	0.108	<1	2.27	0.019	0.16	0.2	0.05	5.5	<0.1	<0.05	8	<0.5	<0.2
ROS 160401	Soil	40	83	1.78	360	0.277	<1	2.93	0.015	1.21	0.1	<0.01	6.1	0.6	<0.05	14	<0.5	<0.2
ROS 160406	Soil	25	46	0.65	279	0.104	1	2.61	0.013	0.09	0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 147345	Soil	19	42	0.47	372	0.077	1	1.60	0.020	0.08	0.2	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 147344	Soil	11	32	0.43	286	0.065	2	1.58	0.013	0.06	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2

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.



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Project: ROS
 Report Date: November 03, 2010

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CERTIFICATE OF ANALYSIS

WHI10000595.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160410	Soil	1.7	54.8	24.1	119	<0.1	31.0	14.6	379	3.83	6.0	1.2	2.5	7.9	21	0.3	0.4	0.2	92	0.24	0.031
ROS 160408	Soil	1.0	51.6	5.1	86	<0.1	60.2	19.7	375	5.10	0.5	1.7	<0.5	13.8	43	0.1	<0.1	0.2	100	0.26	0.056
ROS 159429	Soil	0.8	60.1	11.0	58	<0.1	19.0	20.4	366	3.66	5.6	0.7	<0.5	3.2	42	<0.1	0.2	<0.1	101	1.12	0.271
ROS 147341	Soil	1.9	35.7	18.3	59	0.4	31.3	11.3	574	2.75	8.3	1.5	6.1	6.4	33	0.2	2.1	0.3	58	0.51	0.025
ROS 147348	Soil	1.6	32.3	17.2	65	<0.1	29.3	10.9	461	3.10	8.5	1.9	4.0	10.1	30	<0.1	1.0	0.2	62	0.41	0.038
ROS 147310	Soil	1.3	28.1	13.8	72	0.1	25.6	10.0	415	2.75	5.9	2.5	12.1	9.3	40	<0.1	0.8	0.4	58	0.73	0.070
ROS 147340	Soil	1.4	19.6	18.2	53	0.7	19.4	8.5	271	2.66	9.1	0.8	3.8	4.9	22	<0.1	1.7	0.2	55	0.25	0.035
ROS 147339	Soil	1.1	38.7	16.6	78	0.2	27.0	9.7	496	2.84	6.8	2.0	9.1	6.4	36	0.1	0.7	0.3	60	0.66	0.069
ROS 147342	Soil	1.9	20.7	20.8	74	0.2	25.9	11.2	575	3.36	8.6	0.7	0.9	4.9	29	0.2	1.5	0.2	68	0.45	0.033



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Project: ROS
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CERTIFICATE OF ANALYSIS

WHI10000595.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 160410	Soil	20	48	0.97	302	0.206	<1	2.46	0.013	0.41	0.1	0.02	4.6	0.3	<0.05	8	0.5	<0.2
ROS 160408	Soil	37	63	1.79	329	0.329	<1	3.49	0.021	1.31	<0.1	0.01	5.2	0.7	<0.05	10	<0.5	<0.2
ROS 159429	Soil	5	36	1.63	241	0.183	1	2.25	0.041	0.63	<0.1	0.01	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 147341	Soil	21	49	0.48	503	0.073	1	1.71	0.020	0.10	0.2	0.12	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 147348	Soil	28	45	0.62	346	0.087	<1	1.81	0.015	0.14	0.2	0.06	6.4	<0.1	<0.05	6	<0.5	<0.2
ROS 147310	Soil	26	43	0.64	218	0.087	1	1.75	0.018	0.11	0.2	0.06	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 147340	Soil	12	30	0.48	292	0.070	<1	1.61	0.014	0.11	0.1	0.11	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 147339	Soil	28	37	0.66	393	0.075	1	1.53	0.021	0.13	0.2	0.09	5.0	0.1	<0.05	6	0.8	<0.2
ROS 147342	Soil	13	44	0.80	338	0.068	2	1.86	0.014	0.14	0.2	0.14	4.0	<0.1	<0.05	7	<0.5	<0.2



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Project: ROS
Report Date: November 03, 2010

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QUALITY CONTROL REPORT

WHI10000595.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 160176	Soil	0.8	22.7	5.6	61	0.3	7.4	6.8	260	2.17	1.7	0.8	0.7	1.5	23	<0.1	0.1	<0.1	48	0.18	0.038
REP ROS 160176	QC	0.9	22.5	5.6	62	0.2	7.1	6.4	256	2.17	1.8	0.8	2.6	1.5	23	<0.1	<0.1	<0.1	47	0.17	0.040
ROS 160311	Soil	1.8	32.4	13.2	80	0.2	23.8	14.5	438	3.22	4.2	1.9	3.4	7.8	20	0.1	0.2	0.1	71	0.27	0.055
REP ROS 160311	QC	1.6	30.2	12.0	77	0.2	24.8	13.6	419	3.05	3.9	1.8	0.8	7.5	19	0.2	0.2	0.1	70	0.25	0.049
ROS 160411	Soil	2.4	69.8	9.8	68	0.2	24.4	9.8	269	3.30	2.7	1.3	1.8	5.0	17	0.2	0.2	0.2	74	0.23	0.060
REP ROS 160411	QC	2.1	70.5	9.7	68	0.2	23.2	10.2	272	3.32	2.8	1.3	0.9	4.8	18	0.2	0.2	0.2	75	0.24	0.064
ROS 147347	Soil	1.8	69.2	21.0	110	0.1	52.1	18.0	758	3.91	4.9	1.8	4.4	7.3	43	<0.1	1.4	0.2	68	0.81	0.077
REP ROS 147347	QC	1.8	70.7	21.3	109	0.1	51.7	17.8	759	3.84	5.0	1.7	2.2	7.1	43	0.1	1.3	0.2	68	0.81	0.074
Reference Materials																					
STD DS7	Standard	22.8	115.6	75.8	403	1.0	59.0	9.8	648	2.45	52.3	5.1	69.3	5.0	79	5.9	6.4	5.0	89	0.95	0.079
STD DS7	Standard	22.5	115.6	68.4	380	1.0	59.9	10.3	621	2.39	44.3	5.0	70.1	4.6	64	5.5	5.2	4.0	93	0.91	0.067
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
Report Date: November 03, 2010

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QUALITY CONTROL REPORT

WHI10000595.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 160176	Soil	8	15	0.58	110	0.119	1	1.58	0.010	0.41	0.1	0.04	1.6	0.2	0.10	6	<0.5	<0.2
REP ROS 160176	QC	8	15	0.57	110	0.117	<1	1.57	0.014	0.42	<0.1	0.03	1.6	0.2	0.10	5	<0.5	<0.2
ROS 160311	Soil	26	36	0.77	189	0.170	<1	2.03	0.010	0.33	0.1	0.01	3.4	0.2	<0.05	7	<0.5	<0.2
REP ROS 160311	QC	24	34	0.70	179	0.159	<1	1.86	0.010	0.31	<0.1	0.03	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 160411	Soil	18	36	0.86	164	0.168	<1	1.73	0.014	0.45	<0.1	0.03	3.9	0.3	<0.05	7	<0.5	<0.2
REP ROS 160411	QC	18	38	0.85	164	0.174	1	1.68	0.015	0.45	<0.1	0.03	3.9	0.3	<0.05	7	0.9	<0.2
ROS 147347	Soil	19	108	1.13	325	0.108	<1	2.27	0.019	0.16	0.2	0.05	5.5	<0.1	<0.05	8	<0.5	<0.2
REP ROS 147347	QC	19	108	1.07	320	0.110	<1	2.21	0.024	0.15	0.2	0.04	5.4	0.1	<0.05	8	0.7	<0.2
Reference Materials																		
STD DS7	Standard	14	207	1.09	414	0.132	46	1.08	0.105	0.50	3.8	0.24	2.4	4.2	0.23	5	3.1	1.9
STD DS7	Standard	12	215	1.00	361	0.141	32	0.96	0.086	0.46	3.6	0.22	2.4	3.7	0.23	4	2.6	1.2
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 16, 2010
Report Date: November 11, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000609.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS4
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

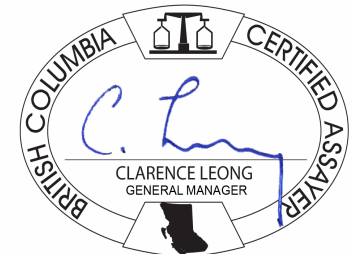
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 11, 2010

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CERTIFICATE OF ANALYSIS

WHI10000609.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163715	Soil		0.8	71.6	3.9	107	<0.1	7.6	16.3	681	5.09	2.0	2.5	1.3	5.2	53	<0.1	0.2	<0.1	128	0.36	0.044
ROS 163710	Soil		1.1	26.5	12.4	198	<0.1	9.7	13.2	638	4.14	1.6	0.8	<0.5	6.2	53	0.2	0.2	<0.1	93	0.29	0.038
ROS 163708	Soil		0.6	28.9	8.6	80	<0.1	19.8	9.0	465	2.82	5.9	1.2	<0.5	10.6	21	<0.1	0.3	0.1	55	0.29	0.038
ROS 164755	Soil		0.6	18.6	6.4	89	<0.1	11.8	8.8	609	3.13	4.5	1.2	2.0	13.4	23	<0.1	0.3	0.1	57	0.14	0.039
ROS 163713	Soil		1.1	20.0	7.5	52	<0.1	13.0	6.8	321	2.77	4.6	2.1	<0.5	11.3	51	<0.1	0.3	0.1	53	0.30	0.023
ROS 163709	Soil		1.0	32.5	36.9	457	0.2	17.6	12.3	577	3.07	5.7	1.0	1.7	6.4	27	1.0	0.4	0.3	62	0.34	0.037
ROS 163705	Soil		0.9	24.3	5.5	62	<0.1	24.4	9.0	312	2.44	3.2	0.7	2.0	5.8	19	0.1	0.2	<0.1	47	0.27	0.051
ROS 164756	Soil		0.9	14.2	7.4	86	<0.1	11.4	10.5	509	3.21	4.2	2.1	0.8	8.5	73	<0.1	0.3	0.2	58	0.23	0.044
ROS 163716	Soil		0.9	60.1	7.2	111	<0.1	8.7	13.0	753	4.62	1.9	2.7	<0.5	12.6	48	<0.1	0.2	<0.1	88	0.55	0.060
ROS 163712	Soil		0.9	18.8	5.6	60	<0.1	11.7	9.1	323	3.37	4.1	2.1	0.8	13.5	59	<0.1	0.3	<0.1	66	0.25	0.041
ROS 163706	Soil		4.6	80.0	7.8	103	<0.1	36.4	13.6	411	3.76	1.6	3.6	<0.5	15.4	47	<0.1	0.1	0.1	65	0.32	0.080
ROS 164164	Soil		1.7	48.7	9.3	77	<0.1	16.8	14.5	607	3.48	2.8	1.7	<0.5	7.1	19	<0.1	0.2	0.2	77	0.07	0.033
ROS 163714	Soil		0.9	74.6	3.5	116	<0.1	6.7	18.1	753	5.48	2.0	2.6	0.6	5.1	58	<0.1	0.2	<0.1	137	0.38	0.047
ROS 163711	Soil		0.4	19.5	6.3	71	<0.1	11.1	7.4	496	3.03	2.1	1.1	<0.5	6.5	39	<0.1	0.2	<0.1	89	0.44	0.055
ROS 163707	Soil		5.3	235.9	11.0	255	0.3	89.5	29.4	544	4.49	3.0	5.2	2.8	14.5	51	<0.1	0.2	0.3	107	0.81	0.249
ROS 164770	Soil		0.6	15.8	6.5	62	0.1	14.4	12.3	428	2.82	4.0	0.3	<0.5	2.5	24	<0.1	0.3	0.1	69	0.26	0.027
ROS 152529	Soil		0.2	33.5	3.6	91	<0.1	16.5	13.6	614	3.08	1.7	0.4	2.3	1.8	37	<0.1	0.2	<0.1	66	0.51	0.084
ROS 152528	Soil		0.2	12.2	6.5	81	<0.1	18.9	10.8	630	2.52	3.0	0.4	0.8	4.1	18	<0.1	0.3	<0.1	45	0.51	0.051
ROS 152519	Soil		0.6	34.8	13.4	122	<0.1	12.7	9.1	413	3.23	35.8	0.5	<0.5	4.4	69	0.1	2.0	<0.1	71	0.40	0.056
ROS 152544	Soil		0.7	26.0	9.0	68	0.1	21.2	9.1	452	2.36	7.6	1.0	42.8	2.9	45	0.2	0.7	0.1	53	1.00	0.066
ROS 152530	Soil		0.4	16.4	5.0	89	<0.1	12.8	11.7	393	3.16	3.5	0.5	<0.5	1.7	28	<0.1	0.2	<0.1	66	0.42	0.135
ROS 152518	Soil		0.7	31.2	14.2	143	<0.1	11.8	10.1	493	3.83	5.9	1.0	2.2	8.4	60	0.3	1.6	0.1	69	0.53	0.087
ROS 152505	Soil		0.9	14.9	12.1	51	0.1	15.9	8.8	342	2.33	4.9	0.9	1.9	4.6	30	<0.1	0.7	0.2	55	0.39	0.037
ROS 152547	Soil		0.5	15.4	6.9	43	<0.1	13.2	6.6	276	1.75	5.7	0.7	5.1	2.5	33	0.2	0.5	0.1	41	0.74	0.052
ROS 152525	Soil		0.2	12.8	6.7	92	<0.1	10.7	12.2	817	2.99	2.6	0.5	6.8	3.9	20	0.1	0.2	<0.1	68	0.71	0.066
ROS 152516	Soil		0.8	34.9	8.5	69	0.2	24.6	11.6	607	2.53	7.4	1.0	22.7	3.2	53	0.3	0.9	0.1	55	1.01	0.073
ROS 152517	Soil		0.6	27.9	7.5	56	0.1	19.4	9.2	314	2.26	6.1	0.9	3.5	2.4	47	0.2	0.7	0.1	52	0.90	0.059
ROS 152546	Soil		0.5	24.8	11.0	99	<0.1	20.5	9.9	462	2.72	8.4	0.7	3.8	3.6	61	0.2	0.8	0.1	59	0.92	0.090
ROS 152531	Soil		0.1	23.6	5.7	97	<0.1	10.1	8.8	388	2.22	2.3	0.5	3.0	2.5	64	<0.1	0.2	<0.1	51	0.68	0.071
ROS 152502	Soil		0.7	22.6	8.5	86	<0.1	13.8	13.6	389	3.25	6.2	0.7	<0.5	4.9	60	<0.1	0.8	<0.1	70	0.39	0.040

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Project: ROS
 Report Date: November 11, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 163715	Soil	13	9	1.87	280	0.259	<1	3.08	0.014	1.73	<0.1	0.02	3.4	0.4	<0.05	10	<0.5	<0.2
ROS 163710	Soil	13	13	1.50	233	0.258	<1	2.79	0.012	1.32	<0.1	0.01	2.9	0.6	<0.05	8	<0.5	<0.2
ROS 163708	Soil	17	26	0.84	200	0.126	1	2.02	0.009	0.49	0.1	0.01	4.4	0.3	<0.05	7	<0.5	<0.2
ROS 164755	Soil	15	19	0.97	143	0.166	2	2.18	0.009	0.76	0.1	0.02	5.2	0.5	<0.05	8	<0.5	<0.2
ROS 163713	Soil	26	18	0.59	140	0.117	<1	2.21	0.012	0.44	<0.1	0.02	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 163709	Soil	16	28	0.77	186	0.120	1	2.04	0.011	0.35	<0.1	0.02	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 163705	Soil	13	27	0.89	129	0.142	1	1.50	0.010	0.52	0.1	0.01	2.4	0.3	<0.05	5	<0.5	<0.2
ROS 164756	Soil	35	20	0.75	178	0.143	<1	2.20	0.010	0.68	0.1	0.02	3.5	0.3	<0.05	7	<0.5	<0.2
ROS 163716	Soil	30	12	1.79	213	0.166	<1	3.15	0.012	1.18	0.1	0.01	5.5	0.3	<0.05	11	<0.5	<0.2
ROS 163712	Soil	31	18	0.91	143	0.203	1	2.22	0.014	0.91	<0.1	0.02	4.6	0.5	<0.05	7	<0.5	<0.2
ROS 163706	Soil	53	45	1.23	219	0.167	<1	2.00	0.014	0.89	<0.1	0.02	4.8	0.6	0.12	7	1.1	<0.2
ROS 164164	Soil	17	32	0.95	144	0.184	<1	2.08	0.009	0.63	<0.1	0.02	5.4	0.3	<0.05	8	<0.5	<0.2
ROS 163714	Soil	15	8	2.05	307	0.287	<1	3.36	0.014	1.92	<0.1	0.02	3.3	0.5	<0.05	10	<0.5	<0.2
ROS 163711	Soil	17	18	1.71	150	0.189	<1	2.39	0.017	0.63	<0.1	0.01	5.5	0.3	<0.05	8	<0.5	<0.2
ROS 163707	Soil	73	44	1.52	283	0.195	<1	2.35	0.015	0.78	<0.1	0.05	5.9	0.6	0.08	8	1.3	<0.2
ROS 164770	Soil	7	25	0.87	217	0.147	<1	1.88	0.011	0.50	0.1	0.01	2.1	0.2	<0.05	5	<0.5	<0.2
ROS 152529	Soil	9	19	1.49	241	0.222	<1	2.13	0.007	0.66	<0.1	0.02	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 152528	Soil	10	27	1.55	170	0.139	<1	1.91	0.012	0.34	<0.1	<0.01	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 152519	Soil	12	29	1.11	149	0.010	<1	1.74	0.007	0.03	0.2	0.15	5.5	<0.1	<0.05	12	<0.5	<0.2
ROS 152544	Soil	13	27	0.56	290	0.064	2	1.33	0.022	0.07	0.4	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 152530	Soil	6	19	1.04	207	0.200	<1	1.96	0.007	0.85	<0.1	0.01	1.6	0.3	<0.05	8	<0.5	<0.2
ROS 152518	Soil	13	28	0.91	264	0.080	<1	2.07	0.009	0.35	<0.1	0.04	5.2	0.2	<0.05	10	<0.5	<0.2
ROS 152505	Soil	15	31	0.55	383	0.064	<1	1.64	0.012	0.09	0.2	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
ROS 152547	Soil	9	20	0.39	219	0.058	2	1.02	0.017	0.05	0.6	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
ROS 152525	Soil	19	15	1.86	273	0.147	<1	2.27	0.010	0.78	0.1	0.03	8.6	0.2	<0.05	7	<0.5	<0.2
ROS 152516	Soil	17	34	0.72	410	0.065	1	1.44	0.021	0.09	0.3	0.08	4.7	<0.1	<0.05	4	<0.5	<0.2
ROS 152517	Soil	11	30	0.59	292	0.062	<1	1.28	0.018	0.06	0.2	0.07	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 152546	Soil	12	24	0.73	276	0.070	<1	1.55	0.027	0.08	0.6	0.10	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 152531	Soil	6	16	1.12	143	0.180	<1	2.09	0.009	0.49	<0.1	0.02	2.8	0.3	<0.05	8	<0.5	<0.2
ROS 152502	Soil	10	25	1.10	223	0.171	<1	2.04	0.011	0.11	0.3	0.01	2.6	<0.1	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 11, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 152501	Soil	1.0	56.4	6.8	131	<0.1	16.1	14.9	300	3.94	5.7	0.6	4.7	2.9	14	<0.1	1.2	0.1	67	0.16	0.044
ROS 152542	Soil	0.8	35.9	8.4	84	<0.1	20.0	13.1	447	3.13	7.8	0.8	6.0	4.0	44	<0.1	0.5	0.2	75	0.74	0.068
ROS 164180	Soil	0.9	22.2	7.6	86	<0.1	17.6	12.5	342	3.20	7.3	1.0	1.8	8.5	28	0.2	0.5	0.1	57	0.16	0.022
ROS 151270	Soil	0.4	34.7	7.9	52	<0.1	25.5	9.5	360	2.29	7.8	0.4	2.6	3.0	35	0.2	0.5	0.1	52	1.48	0.045
ROS 151280	Soil	0.3	25.0	8.6	104	<0.1	21.6	15.1	559	3.26	4.7	0.8	<0.5	4.6	99	<0.1	0.3	<0.1	70	0.86	0.093
ROS 151275	Soil	0.3	21.3	6.8	73	<0.1	16.9	11.0	611	2.60	5.0	0.7	2.1	4.4	19	<0.1	0.4	0.1	60	0.39	0.050
ROS 164179	Soil	1.5	17.4	9.4	68	<0.1	12.1	7.7	313	2.86	5.4	1.4	1.6	6.5	25	0.1	0.3	0.2	63	0.18	0.027
ROS 151271	Soil	0.5	30.9	8.5	45	<0.1	23.6	9.1	404	2.31	8.2	0.4	3.7	3.2	32	0.1	0.3	0.1	56	1.04	0.038
ROS 151278	Soil	0.2	58.0	6.0	75	0.2	15.3	11.1	506	2.57	4.1	1.5	<0.5	3.1	34	0.1	0.5	0.1	71	0.88	0.076
ROS 151281	Soil	0.4	25.6	7.9	56	<0.1	20.9	9.6	406	2.30	7.1	0.4	1.5	3.8	31	0.2	0.5	0.1	51	1.08	0.049
ROS 164177	Soil	0.7	27.0	9.2	80	<0.1	17.2	8.9	333	2.64	5.8	1.5	3.5	5.8	32	0.2	0.3	0.2	58	0.27	0.039
ROS 151272	Soil	0.5	24.2	8.0	51	<0.1	22.1	9.8	470	2.46	6.9	1.1	2.0	3.8	29	0.2	0.5	0.2	56	0.67	0.042
ROS 151277	Soil	0.4	16.8	6.2	67	<0.1	16.7	10.7	606	2.34	5.1	0.5	<0.5	2.7	22	0.1	0.3	<0.1	47	0.59	0.048
ROS 151274	Soil	0.3	20.2	7.0	74	<0.1	15.5	12.6	675	2.78	3.4	0.5	2.0	4.2	16	0.2	0.3	<0.1	65	0.49	0.035
ROS 164178	Soil	1.0	22.2	8.9	67	0.1	17.7	7.6	212	2.36	6.1	1.1	2.1	3.6	22	0.1	0.3	0.2	51	0.20	0.036
ROS 151273	Soil	0.5	25.9	7.7	54	<0.1	20.5	9.9	405	2.44	7.5	0.4	<0.5	3.7	27	<0.1	0.5	0.1	55	0.68	0.049
ROS 151276	Soil	0.2	14.4	4.9	77	<0.1	12.7	11.1	578	1.96	5.5	0.6	1.8	4.0	15	<0.1	0.3	<0.1	39	0.38	0.047
ROS 151279	Soil	0.2	16.2	5.0	94	<0.1	12.6	12.9	459	3.38	5.1	0.4	<0.5	2.6	42	0.2	0.3	<0.1	77	0.52	0.112
ROS 164521	Soil	1.5	29.8	7.8	66	<0.1	19.3	10.1	329	2.95	5.5	1.5	<0.5	3.3	23	<0.1	0.2	0.1	81	0.35	0.036
ROS 164515	Soil	1.4	11.0	5.0	93	<0.1	10.8	7.2	571	4.16	3.8	0.4	<0.5	3.2	11	<0.1	0.2	<0.1	50	0.15	0.068
ROS 164187	Soil	2.1	16.0	8.3	42	<0.1	12.4	6.9	263	2.72	6.4	1.3	1.6	6.8	20	<0.1	0.4	0.2	62	0.18	0.019
ROS 164184	Soil	0.9	15.4	5.6	51	<0.1	5.9	5.9	291	2.20	2.1	1.5	<0.5	8.7	54	<0.1	0.2	0.1	42	0.57	0.030
ROS 164518	Soil	1.1	28.1	4.7	110	<0.1	11.4	19.2	619	4.55	1.6	0.4	<0.5	1.5	29	<0.1	0.1	<0.1	133	0.78	0.163
ROS 164517	Soil	2.7	19.8	11.0	62	0.3	16.8	7.6	226	2.82	6.2	0.7	1.1	2.9	23	<0.1	0.3	0.1	65	0.21	0.044
ROS 164188	Soil	1.6	12.5	7.3	39	0.1	9.2	5.6	198	1.99	4.4	1.3	4.8	4.5	22	0.2	0.2	0.1	52	0.20	0.034
ROS 164183	Soil	1.2	16.1	8.2	58	<0.1	19.6	9.5	375	3.18	9.5	0.7	<0.5	5.4	21	0.3	0.5	0.2	70	0.15	0.042
ROS 164519	Soil	1.1	28.2	6.1	107	0.1	12.4	18.0	640	4.48	2.5	0.4	5.4	1.6	30	<0.1	0.2	<0.1	129	0.74	0.169
ROS 164516	Soil	1.2	54.6	5.8	120	<0.1	10.7	5.8	755	4.30	5.5	0.6	<0.5	4.1	11	0.1	0.3	0.1	35	0.13	0.026
ROS 164185	Soil	1.3	13.7	7.5	41	0.1	11.3	5.6	209	2.15	4.8	1.2	4.0	5.1	25	<0.1	0.2	0.2	52	0.23	0.023
ROS 164182	Soil	0.8	19.4	7.7	61	0.1	12.5	8.2	319	2.60	4.6	1.2	0.6	8.2	26	<0.1	0.2	0.1	55	0.22	0.013

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 11, 2010

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CERTIFICATE OF ANALYSIS

WHI10000609.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 152501	Soil	13	21	1.57	199	0.024	<1	2.71	0.005	0.13	0.2	0.03	5.2	<0.1	<0.05	7	<0.5	<0.2
ROS 152542	Soil	14	30	0.86	285	0.108	<1	1.83	0.023	0.12	4.4	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
ROS 164180	Soil	17	24	0.68	192	0.149	<1	2.56	0.013	0.49	0.1	0.01	2.5	0.4	<0.05	6	<0.5	<0.2
ROS 151270	Soil	13	26	0.95	215	0.078	<1	1.49	0.027	0.07	0.1	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151280	Soil	14	43	1.65	232	0.189	<1	2.92	0.008	0.39	0.1	0.02	3.7	0.1	<0.05	10	<0.5	<0.2
ROS 151275	Soil	22	24	1.03	256	0.134	<1	1.62	0.014	0.47	<0.1	0.03	7.2	0.2	<0.05	6	<0.5	<0.2
ROS 164179	Soil	21	25	0.54	169	0.095	2	1.98	0.013	0.18	0.2	<0.01	2.9	0.2	<0.05	7	0.7	<0.2
ROS 151271	Soil	13	29	0.74	250	0.064	<1	1.41	0.020	0.06	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 151278	Soil	14	25	1.10	250	0.137	<1	1.67	0.017	0.29	0.2	0.09	4.8	0.1	<0.05	6	0.6	<0.2
ROS 151281	Soil	13	27	0.78	242	0.080	2	1.37	0.022	0.13	0.2	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164177	Soil	18	33	0.60	239	0.098	2	1.71	0.017	0.10	<0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 151272	Soil	14	27	0.68	297	0.080	<1	1.55	0.020	0.07	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 151277	Soil	7	20	1.25	209	0.153	<1	1.61	0.015	0.31	0.1	0.01	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 151274	Soil	20	26	1.16	289	0.151	<1	1.95	0.013	0.43	0.1	0.03	9.3	0.2	<0.05	7	<0.5	<0.2
ROS 164178	Soil	14	30	0.50	179	0.076	<1	1.76	0.012	0.06	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 151273	Soil	13	28	0.76	265	0.086	3	1.53	0.023	0.12	0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151276	Soil	27	17	1.15	132	0.121	<1	1.43	0.010	0.21	<0.1	<0.01	5.4	0.1	<0.05	5	<0.5	<0.2
ROS 151279	Soil	6	19	1.19	204	0.228	<1	2.20	0.010	0.80	0.1	0.02	2.4	0.2	<0.05	9	<0.5	0.9
ROS 164521	Soil	13	28	0.67	305	0.110	1	1.55	0.022	0.07	0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	0.9
ROS 164515	Soil	10	16	1.05	211	0.155	<1	2.15	0.019	0.59	<0.1	<0.01	13.6	0.2	<0.05	11	<0.5	<0.2
ROS 164187	Soil	16	31	0.55	128	0.097	6	1.83	0.020	0.11	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164184	Soil	31	13	0.55	153	0.103	<1	2.13	0.032	0.41	<0.1	<0.01	2.1	0.2	<0.05	6	<0.5	<0.2
ROS 164518	Soil	5	21	1.34	459	0.197	<1	2.50	0.035	0.77	0.1	<0.01	4.8	0.3	<0.05	9	<0.5	<0.2
ROS 164517	Soil	11	46	0.69	248	0.115	<1	1.86	0.017	0.23	0.1	0.02	3.1	0.1	0.10	6	<0.5	<0.2
ROS 164188	Soil	19	21	0.39	105	0.093	1	1.25	0.010	0.13	0.1	0.03	2.3	0.1	<0.05	5	<0.5	<0.2
ROS 164183	Soil	13	33	0.58	151	0.099	2	1.87	0.009	0.18	0.1	0.03	2.4	0.1	<0.05	6	<0.5	1.8
ROS 164519	Soil	6	21	1.32	460	0.220	<1	2.60	0.039	0.76	<0.1	0.03	5.2	0.3	0.05	9	<0.5	<0.2
ROS 164516	Soil	15	17	0.69	274	0.181	<1	2.27	0.010	0.90	0.1	<0.01	6.2	0.3	<0.05	11	<0.5	<0.2
ROS 164185	Soil	17	23	0.44	121	0.085	<1	1.46	0.012	0.09	0.2	0.04	2.1	0.1	<0.05	6	<0.5	0.9
ROS 164182	Soil	30	23	0.62	255	0.115	1	1.98	0.016	0.15	<0.1	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 11, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164514	Soil	1.4	20.7	6.5	77	<0.1	14.2	14.7	381	3.61	5.6	0.4	<0.5	2.7	19	<0.1	0.3	<0.1	89	0.18	0.032
ROS 164513	Soil	0.6	20.2	6.6	58	<0.1	19.7	7.4	294	2.24	5.3	0.6	2.2	3.4	24	0.1	0.3	0.1	52	0.33	0.053
ROS 164186	Soil	1.4	12.6	6.7	39	0.1	11.1	5.7	197	2.18	4.5	1.4	<0.5	6.8	30	0.1	0.2	0.2	48	0.26	0.029
ROS 164181	Soil	2.0	88.9	5.9	126	<0.1	7.9	9.4	885	3.59	3.9	1.8	6.9	16.5	22	0.2	0.2	0.2	47	0.14	0.025
ROS 151291	Soil	0.8	17.7	8.4	54	0.1	14.5	7.7	264	1.98	6.6	0.9	5.8	2.3	38	0.3	0.4	0.1	53	0.69	0.041
ROS 151289	Soil	0.4	37.7	7.9	73	0.1	16.5	9.7	397	2.34	5.2	1.4	8.2	4.0	48	0.1	0.7	0.1	64	1.07	0.073
ROS 151290	Soil	0.4	28.4	7.6	72	0.1	18.8	9.8	430	2.20	8.3	1.1	2.9	2.9	46	<0.1	0.9	0.1	54	1.26	0.061
ROS 164524	Soil	14.4	383.6	4.5	75	<0.1	13.9	10.4	400	3.46	2.7	1.3	<0.5	7.2	19	0.1	0.1	0.2	89	0.19	0.042
ROS 151283	Soil	1.1	9.2	8.2	44	0.1	15.7	7.6	391	2.14	5.3	0.3	0.6	2.5	19	0.1	0.3	0.3	59	0.20	0.021
ROS 151292	Soil	0.3	20.0	9.9	64	0.1	16.9	10.5	364	2.38	7.9	1.1	0.7	2.5	47	0.2	0.5	0.2	60	0.86	0.053
ROS 151295	Soil	0.5	29.0	14.4	54	<0.1	23.2	12.6	542	2.83	6.5	0.6	<0.5	5.4	32	<0.1	0.6	0.2	70	0.60	0.020
ROS 164523	Soil	1.7	239.6	6.2	70	0.2	18.8	16.5	387	3.19	4.2	1.0	1.5	3.0	33	<0.1	0.3	0.2	93	0.37	0.029
ROS 151285	Soil	0.9	30.9	9.0	58	0.1	16.4	8.4	224	2.64	8.3	1.1	3.3	4.0	23	<0.1	1.9	0.2	57	0.27	0.020
ROS 151284	Soil	0.7	41.8	8.2	100	0.2	19.0	13.4	376	3.71	8.1	0.6	16.7	3.5	28	<0.1	1.2	0.1	83	0.39	0.055
ROS 151296	Soil	0.5	27.3	7.3	60	0.1	19.2	8.1	496	1.93	6.4	1.1	2.7	1.5	60	0.3	0.7	0.1	39	1.46	0.067
ROS 164522	Soil	1.1	118.8	5.9	74	0.1	12.0	11.3	327	4.12	3.8	0.9	2.3	3.3	26	0.2	0.3	0.2	103	0.27	0.060
ROS 151282	Soil	1.1	14.4	8.8	56	0.1	15.6	6.6	315	2.51	10.5	0.3	1.5	2.3	17	0.1	0.6	0.2	60	0.14	0.045
ROS 151294	Soil	0.4	18.8	6.6	56	<0.1	14.5	7.6	358	1.85	6.6	0.8	20.5	2.0	46	0.2	0.6	<0.1	41	0.99	0.067
ROS 151297	Soil	4.0	26.1	9.2	80	0.2	31.4	26.4	>10000	2.45	5.9	1.9	2.7	3.0	78	0.7	0.7	0.2	46	1.38	0.066
ROS 164520	Soil	1.2	28.1	8.3	68	0.2	15.6	8.7	291	2.91	6.3	1.1	4.6	3.7	23	0.1	0.3	0.2	68	0.23	0.040
ROS 163604	Soil	0.9	24.7	8.2	65	<0.1	28.3	14.5	401	3.80	7.2	1.9	2.7	11.0	19	0.1	0.4	0.2	60	0.17	0.037
ROS 152555	Soil	0.5	31.7	8.7	54	<0.1	23.9	9.4	376	2.46	9.0	0.5	5.1	3.2	43	0.1	0.7	0.2	53	1.23	0.058
ROS 152550	Soil	0.8	41.3	8.1	105	<0.1	12.9	15.3	419	4.06	6.3	0.3	0.5	2.0	73	0.1	1.8	0.1	104	0.43	0.065
ROS 152553	Soil	0.4	33.2	9.0	55	<0.1	24.6	9.2	354	2.50	8.4	0.6	4.0	2.9	38	0.1	0.5	0.2	56	1.05	0.055
ROS 163602	Soil	1.2	21.0	10.5	53	<0.1	18.8	8.7	211	3.36	8.9	1.0	1.0	5.1	14	0.1	0.6	0.2	66	0.11	0.028
ROS 152558	Soil	0.6	34.8	10.0	63	<0.1	26.9	11.9	518	2.75	8.8	0.4	3.4	4.0	46	0.2	0.7	0.2	62	1.77	0.041
ROS 152560	Soil	0.3	8.8	1.9	125	<0.1	9.0	19.4	811	4.34	1.9	0.3	<0.5	4.3	14	<0.1	0.2	<0.1	106	0.33	0.090
ROS 152551	Soil	0.6	27.7	9.9	59	0.1	22.0	9.1	425	2.47	9.2	0.9	5.2	2.7	42	0.2	0.7	0.1	53	1.18	0.063
ROS 163603	Soil	1.1	16.3	10.6	60	<0.1	17.3	8.3	258	3.59	7.3	0.9	1.0	5.0	14	<0.1	0.3	0.3	61	0.13	0.042
ROS 152556	Soil	0.5	33.6	9.5	64	<0.1	25.0	10.9	410	2.66	8.3	0.5	2.4	4.1	45	0.1	0.8	0.2	58	1.30	0.056

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	0.2
ROS 164514	Soil	9	24	1.01	168	0.089	<1	2.33	0.017	0.08	<0.1	<0.01	5.8	<0.1	<0.05	7	<0.5	<0.2
ROS 164513	Soil	13	32	0.53	183	0.091	<1	1.39	0.021	0.09	0.2	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 164186	Soil	19	21	0.48	128	0.087	1	1.50	0.015	0.09	0.2	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 164181	Soil	13	12	0.95	189	0.176	<1	2.83	0.014	0.79	0.1	0.03	2.4	0.6	<0.05	7	<0.5	2.9
ROS 151291	Soil	11	25	0.43	337	0.061	2	1.47	0.015	0.07	0.2	0.10	2.6	<0.1	0.05	5	<0.5	<0.2
ROS 151289	Soil	16	30	0.64	266	0.080	2	1.54	0.019	0.06	0.2	0.08	3.9	<0.1	0.07	5	<0.5	<0.2
ROS 151290	Soil	11	28	0.50	313	0.049	2	1.34	0.017	0.05	<0.1	0.04	3.3	<0.1	0.07	5	<0.5	<0.2
ROS 164524	Soil	15	26	1.28	305	0.179	<1	2.43	0.014	0.91	0.1	<0.01	5.3	0.4	0.08	6	<0.5	1.0
ROS 151283	Soil	9	26	0.39	199	0.068	1	1.49	0.015	0.06	0.2	<0.01	2.0	<0.1	<0.05	5	<0.5	1.0
ROS 151292	Soil	13	27	0.53	379	0.061	1	1.75	0.017	0.08	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 151295	Soil	16	37	0.63	331	0.061	2	2.07	0.014	0.09	0.1	<0.01	5.0	0.1	<0.05	6	<0.5	<0.2
ROS 164523	Soil	10	59	0.93	389	0.145	<1	2.22	0.028	0.14	<0.1	<0.01	4.4	0.1	0.08	6	<0.5	1.0
ROS 151285	Soil	11	30	0.55	226	0.051	2	1.63	0.011	0.06	0.1	0.10	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 151284	Soil	11	33	1.09	306	0.038	<1	2.16	0.009	0.07	0.3	0.10	5.6	<0.1	<0.05	9	<0.5	<0.2
ROS 151296	Soil	10	21	0.47	309	0.040	2	1.16	0.016	0.05	0.3	0.06	2.3	<0.1	0.06	4	<0.5	<0.2
ROS 164522	Soil	11	18	0.89	466	0.185	<1	1.91	0.023	0.55	<0.1	0.01	4.2	0.3	0.20	6	0.5	<0.2
ROS 151282	Soil	7	29	0.44	241	0.044	1	1.59	0.007	0.04	0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
ROS 151294	Soil	9	20	0.46	222	0.046	2	1.07	0.016	0.05	0.6	0.05	2.3	<0.1	<0.05	4	<0.5	<0.2
ROS 151297	Soil	21	24	0.52	931	0.048	2	1.31	0.017	0.10	0.1	0.07	3.0	<0.1	0.07	5	0.5	<0.2
ROS 164520	Soil	12	28	0.65	243	0.091	<1	1.60	0.014	0.08	0.2	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 163604	Soil	24	42	0.91	261	0.166	<1	2.52	0.011	0.64	<0.1	0.03	4.1	0.4	<0.05	7	<0.5	<0.2
ROS 152555	Soil	12	26	0.66	291	0.073	<1	1.42	0.027	0.06	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 152550	Soil	5	23	1.33	203	0.162	<1	2.28	0.011	0.16	0.2	0.02	2.8	<0.1	<0.05	9	<0.5	<0.2
ROS 152553	Soil	13	27	0.64	271	0.086	1	1.60	0.027	0.06	0.2	0.03	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 163602	Soil	12	36	0.54	212	0.082	<1	2.06	0.008	0.09	0.2	0.03	2.4	0.1	<0.05	6	<0.5	<0.2
ROS 152558	Soil	14	31	0.75	315	0.095	1	1.71	0.023	0.07	0.2	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 152560	Soil	19	14	2.41	386	0.283	<1	2.56	0.009	1.38	<0.1	<0.01	18.4	0.5	<0.05	12	<0.5	<0.2
ROS 152551	Soil	14	25	0.64	286	0.063	2	1.34	0.023	0.09	0.2	0.08	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 163603	Soil	15	32	0.62	145	0.129	<1	1.82	0.010	0.29	<0.1	0.03	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 152556	Soil	13	28	0.76	270	0.091	1	1.62	0.029	0.09	0.1	0.03	4.0	<0.1	<0.05	5	<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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 152559	Soil		0.7	34.1	8.7	63	<0.1	27.4	12.2	524	2.69	8.7	0.6	8.8	4.0	74	<0.1	0.6	0.2	62	2.96	0.048
ROS 152549	Soil		0.8	42.7	12.3	137	0.1	23.5	16.7	694	3.72	8.6	0.6	4.7	4.2	155	<0.1	1.2	0.2	84	1.94	0.089
ROS 163600	Soil		1.3	18.3	10.4	62	<0.1	21.6	10.8	211	3.17	8.2	0.7	1.2	5.0	22	<0.1	0.5	0.3	72	0.18	0.020
ROS 152554	Soil		0.6	36.3	8.8	57	0.1	25.4	10.5	457	2.57	10.1	0.7	2.9	2.9	53	0.2	0.7	0.2	59	1.81	0.063
ROS 152557	Soil		0.5	37.6	9.6	66	<0.1	29.7	12.3	480	2.73	9.2	0.5	4.6	4.1	56	0.2	0.7	0.2	63	2.52	0.051
ROS 152552	Soil		0.6	30.7	10.0	60	0.1	25.0	10.8	439	2.53	8.8	1.4	3.2	3.2	55	0.2	0.6	0.2	57	1.69	0.068
ROS 164159	Soil		1.0	44.0	9.3	67	0.1	95.2	17.2	380	3.39	5.4	2.9	0.6	6.4	59	0.1	0.3	0.1	92	0.55	0.118
ROS 164161	Soil		0.5	105.0	13.2	74	<0.1	272.4	33.9	558	4.51	5.4	2.0	0.7	6.7	110	<0.1	0.3	<0.1	139	0.84	0.191
ROS 164162	Soil		0.6	77.5	9.7	65	<0.1	191.4	24.6	517	3.98	3.9	1.7	15.2	6.7	103	<0.1	0.3	<0.1	132	0.75	0.155
ROS 164160	Soil		0.6	100.0	12.2	69	<0.1	245.9	31.0	523	4.19	5.0	2.2	<0.5	7.3	101	<0.1	0.3	<0.1	129	0.77	0.174
ROS 164163	Soil		0.9	138.9	4.7	79	0.1	45.0	15.9	540	5.31	1.1	1.9	0.7	5.8	58	<0.1	0.2	<0.1	161	0.37	0.058
ROS 164157	Soil		2.5	21.6	8.4	61	0.2	11.6	7.5	246	2.84	3.9	1.6	<0.5	5.7	38	<0.1	0.2	0.2	65	0.23	0.029
ROS 164156	Soil		2.2	21.6	6.4	61	<0.1	8.5	9.1	342	3.10	2.5	2.5	<0.5	12.4	42	<0.1	0.2	0.1	60	0.29	0.050
ROS 164158	Soil		3.6	38.0	7.4	69	0.3	9.1	10.6	373	3.84	3.5	3.8	1.6	11.1	46	0.1	0.2	0.2	64	0.31	0.064
ROS 163609	Soil		1.8	52.3	7.7	142	<0.1	27.3	10.3	602	4.76	2.6	1.9	<0.5	9.2	38	0.2	0.2	0.2	109	0.21	0.048
ROS 163608	Soil		0.9	65.1	9.9	74	<0.1	31.1	12.6	477	4.55	5.3	2.6	1.1	16.7	36	<0.1	0.3	0.2	64	0.16	0.055
ROS 163605	Soil		1.1	49.7	7.1	53	<0.1	28.4	15.5	490	4.73	4.4	2.0	1.3	14.1	14	<0.1	0.3	0.3	69	0.12	0.051
ROS 163601	Soil		1.8	41.4	11.9	71	<0.1	21.8	13.1	283	3.35	6.4	1.8	0.6	4.7	20	0.2	0.3	0.3	61	0.15	0.055
ROS 163611	Soil		1.8	16.9	13.4	84	<0.1	19.1	3.8	328	4.61	6.4	1.4	0.9	10.1	59	0.2	0.3	0.3	79	0.08	0.070
ROS 163610	Soil		1.5	46.8	7.2	189	<0.1	21.0	9.5	775	4.67	2.1	1.4	1.2	6.3	39	0.3	<0.1	0.2	109	0.20	0.048
ROS 163607	Soil		0.9	29.5	101.7	128	<0.1	24.2	14.4	523	2.87	3.6	1.4	1.3	10.3	37	0.2	0.1	0.4	50	0.46	0.041
ROS 163606	Soil		0.9	34.5	9.4	68	<0.1	26.3	9.8	433	2.48	10.9	0.6	4.2	3.6	62	0.3	0.8	0.2	53	1.39	0.059
ROS 152545	Soil		0.4	14.8	5.1	78	<0.1	21.9	10.9	412	2.75	2.9	1.2	1.7	13.7	15	<0.1	0.2	0.3	47	0.11	0.028
ROS 152541	Soil		1.0	27.3	11.1	66	<0.1	19.9	9.6	387	2.64	8.4	0.7	4.3	3.9	43	0.2	0.6	0.2	60	0.60	0.041
ROS 152562	Soil		0.2	35.4	6.1	57	<0.1	24.7	8.7	428	2.33	3.7	0.5	3.2	3.7	50	0.1	0.2	<0.1	57	4.25	0.060
ROS 151287	Soil		0.5	32.1	10.2	78	0.1	16.6	9.8	321	2.93	6.8	1.4	4.0	5.4	46	0.1	1.1	0.2	60	0.75	0.053
ROS 152540	Soil		0.9	34.6	10.4	91	0.2	19.4	10.7	489	2.88	12.9	1.3	10.8	3.2	64	0.2	1.8	0.2	62	1.03	0.067
ROS 152539	Soil		1.8	31.1	12.7	130	0.1	21.1	12.7	668	3.71	5.6	1.0	32.9	6.2	39	0.1	1.0	0.2	73	0.59	0.075
ROS 152563	Soil		0.4	17.9	8.1	78	<0.1	14.5	12.0	448	3.20	5.3	0.6	<0.5	3.9	40	0.1	0.4	<0.1	67	0.27	0.062
ROS 151304	Soil		0.3	31.6	7.6	58	<0.1	21.3	10.6	287	2.50	7.5	0.8	2.2	3.2	35	0.3	0.5	0.1	56	0.82	0.073

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Project: ROS
 Report Date: November 11, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 152559	Soil	14	28	0.84	298	0.112	2	1.57	0.030	0.07	0.2	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 152549	Soil	14	33	1.33	292	0.145	2	2.51	0.020	0.11	0.4	0.09	4.9	<0.1	<0.05	10	<0.5	<0.2
ROS 163600	Soil	12	38	0.59	175	0.103	1	2.30	0.010	0.16	0.1	0.01	2.7	0.2	<0.05	7	<0.5	<0.2
ROS 152554	Soil	14	28	0.71	287	0.077	1	1.42	0.029	0.06	0.2	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 152557	Soil	14	32	0.77	270	0.108	2	1.70	0.027	0.08	0.2	0.04	4.5	<0.1	<0.05	5	0.5	<0.2
ROS 152552	Soil	14	28	0.72	247	0.083	3	1.47	0.025	0.07	0.2	0.04	3.4	<0.1	0.06	5	0.5	<0.2
ROS 164159	Soil	29	170	1.62	280	0.163	2	2.21	0.013	0.19	0.1	0.03	2.8	<0.1	<0.05	7	<0.5	0.2
ROS 164161	Soil	24	262	3.99	563	0.228	3	2.96	0.015	0.21	0.2	0.02	2.1	<0.1	<0.05	9	<0.5	<0.2
ROS 164162	Soil	18	322	2.90	417	0.206	3	2.32	0.015	0.25	0.2	<0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
ROS 164160	Soil	24	237	3.59	536	0.209	3	2.78	0.015	0.20	0.1	0.01	2.4	<0.1	<0.05	9	<0.5	<0.2
ROS 164163	Soil	13	58	2.32	374	0.290	<1	3.07	0.018	1.47	<0.1	0.01	7.1	0.5	0.10	10	<0.5	<0.2
ROS 164157	Soil	29	21	0.63	138	0.135	1	1.87	0.011	0.20	<0.1	0.02	2.5	0.2	<0.05	8	<0.5	<0.2
ROS 164156	Soil	46	18	0.74	135	0.170	<1	2.07	0.012	0.50	<0.1	<0.01	2.5	0.3	<0.05	8	<0.5	<0.2
ROS 164158	Soil	49	18	0.76	168	0.112	<1	2.08	0.012	0.34	<0.1	0.02	2.8	0.2	<0.05	7	<0.5	0.5
ROS 163609	Soil	51	73	1.86	421	0.298	<1	3.47	0.017	0.99	<0.1	<0.01	5.9	0.5	0.35	13	<0.5	<0.2
ROS 163608	Soil	69	48	1.23	287	0.237	1	2.70	0.011	0.90	<0.1	0.02	3.5	0.5	0.17	9	<0.5	<0.2
ROS 163605	Soil	48	51	1.20	382	0.290	<1	2.88	0.011	0.98	<0.1	0.01	4.4	0.6	<0.05	10	<0.5	<0.2
ROS 163601	Soil	18	34	0.67	530	0.100	<1	2.32	0.011	0.24	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 163611	Soil	25	50	0.99	257	0.171	2	2.13	0.060	0.71	<0.1	0.02	5.9	0.3	0.74	10	1.0	<0.2
ROS 163610	Soil	42	53	2.21	564	0.286	<1	3.45	0.017	1.15	<0.1	<0.01	4.9	0.4	0.35	11	0.6	<0.2
ROS 163607	Soil	33	43	1.41	504	0.175	1	2.64	0.026	0.82	<0.1	0.02	3.4	0.4	<0.05	8	0.5	<0.2
ROS 163606	Soil	13	26	0.67	344	0.071	1	1.43	0.029	0.07	0.3	0.03	3.4	<0.1	<0.05	5	0.8	<0.2
ROS 152545	Soil	21	37	1.36	332	0.218	<1	2.46	0.014	0.66	<0.1	0.01	4.2	0.4	<0.05	9	<0.5	<0.2
ROS 152541	Soil	11	32	0.61	299	0.079	1	1.80	0.022	0.06	0.6	0.05	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 152562	Soil	15	47	2.18	168	0.120	1	2.37	0.009	0.32	<0.1	0.03	6.3	0.1	<0.05	6	<0.5	<0.2
ROS 151287	Soil	33	31	0.68	352	0.082	<1	2.07	0.015	0.06	0.2	0.13	5.3	<0.1	<0.05	7	<0.5	<0.2
ROS 152540	Soil	13	27	0.72	311	0.077	<1	1.77	0.024	0.07	0.6	0.08	4.2	<0.1	<0.05	6	<0.5	<0.2
ROS 152539	Soil	23	23	1.03	267	0.061	<1	2.06	0.017	0.15	1.0	0.12	6.3	<0.1	<0.05	8	<0.5	<0.2
ROS 152563	Soil	8	21	1.03	233	0.201	1	2.05	0.008	0.78	<0.1	0.02	4.1	0.2	<0.05	8	<0.5	<0.2
ROS 151304	Soil	14	23	0.74	192	0.089	1	1.39	0.022	0.17	0.2	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 152548	Soil	0.7	24.9	9.5	55	<0.1	20.9	9.4	255	2.78	10.5	0.7	6.5	4.4	33	<0.1	0.7	0.1	66	0.44	0.020
ROS 152536	Soil	2.1	25.1	14.8	46	0.1	17.1	8.4	347	2.41	8.5	0.6	9.9	5.1	15	0.1	1.1	0.3	48	0.22	0.037
ROS 152561	Soil	0.4	20.4	5.6	84	<0.1	11.6	11.4	469	2.90	4.7	0.2	<0.5	1.3	42	<0.1	0.2	<0.1	57	0.34	0.055
ROS 151293	Soil	0.6	22.1	7.1	61	<0.1	15.0	7.7	468	1.99	7.1	1.0	6.1	2.0	56	0.2	0.6	0.1	45	1.15	0.067
ROS 152537	Soil	11.6	108.3	45.5	89	0.4	10.2	9.5	189	2.97	9.4	1.0	33.2	5.7	21	0.1	33.2	2.2	35	0.27	0.016
ROS 152538	Soil	2.5	58.4	13.4	108	<0.1	22.0	14.3	380	4.37	9.4	1.5	16.1	10.8	53	<0.1	1.4	0.2	84	0.39	0.025
ROS 152564	Soil	0.3	11.6	3.6	64	<0.1	11.6	11.8	444	2.18	3.4	0.3	<0.5	2.3	23	<0.1	0.3	<0.1	66	0.42	0.033
ROS 151298	Soil	0.7	28.7	13.8	76	<0.1	18.2	9.1	412	2.78	8.6	1.5	2.7	9.1	102	0.1	1.6	0.1	59	0.60	0.038
ROS 151286	Soil	1.1	51.6	9.8	89	<0.1	18.9	9.7	238	3.44	9.7	0.6	1.6	4.6	29	<0.1	1.2	0.2	77	0.34	0.038
ROS 151338	Soil	0.3	14.6	4.5	114	<0.1	12.1	13.9	750	3.80	4.2	0.5	1.4	4.6	20	<0.1	0.4	0.1	87	0.42	0.062
ROS 151318	Soil	2.6	103.6	12.5	91	0.4	31.0	14.2	279	3.48	7.1	1.0	200.8	7.7	27	<0.1	1.0	0.4	65	0.39	0.080
ROS 151316	Soil	8.3	30.1	10.8	47	0.4	19.4	8.6	216	2.41	7.5	0.7	48.1	4.6	24	<0.1	0.7	0.3	48	0.22	0.024
ROS 151305	Soil	0.3	26.0	7.4	68	<0.1	19.0	11.1	396	2.67	6.5	0.8	3.1	3.6	31	0.1	0.4	0.1	60	0.77	0.069
ROS 151336	Soil	1.1	30.1	8.8	62	<0.1	33.7	11.5	471	2.61	8.4	0.7	2.6	3.9	43	0.2	0.6	0.1	57	1.74	0.062
ROS 151317	Soil	0.9	17.1	14.1	104	0.1	11.9	7.6	292	2.90	6.4	0.5	18.5	2.9	42	<0.1	0.5	0.1	57	0.28	0.033
ROS 151315	Soil	0.4	5.5	8.0	204	<0.1	5.7	7.4	223	2.79	6.4	0.8	<0.5	3.7	41	<0.1	0.9	<0.1	50	0.46	0.103
ROS 152543	Soil	0.5	33.7	9.2	60	0.1	23.8	9.5	362	2.45	8.7	0.7	2.5	3.7	43	<0.1	0.7	0.2	56	0.65	0.048
ROS 151335	Soil	0.4	29.7	8.2	59	0.1	23.4	9.8	393	2.48	8.9	0.6	3.0	3.7	37	<0.1	0.6	0.2	53	0.64	0.060
ROS 151332	Soil	0.5	24.3	9.4	72	<0.1	22.8	10.9	510	2.65	13.2	0.8	1.6	2.9	43	0.1	0.6	0.1	61	1.04	0.056
ROS 151329	Soil	0.4	26.1	7.8	58	<0.1	20.3	8.5	322	2.31	9.0	0.9	1.1	2.7	48	0.1	0.8	0.1	50	1.21	0.064
ROS 151288	Soil	0.7	40.9	11.7	86	0.1	18.1	11.6	338	3.09	6.8	1.6	0.9	5.2	53	<0.1	1.1	0.2	71	0.80	0.079
ROS 151334	Soil	0.5	30.4	8.3	54	0.1	24.9	9.6	398	2.45	9.5	0.5	7.1	3.8	41	0.1	0.6	0.2	55	1.23	0.053
ROS 151330	Soil	0.6	31.6	8.9	61	0.1	25.0	9.6	402	2.54	9.9	0.5	2.2	3.7	48	0.2	0.8	0.2	56	1.18	0.060
ROS 151320	Soil	0.8	27.3	11.3	74	0.1	17.9	8.5	329	2.29	5.4	0.9	12.0	4.4	36	0.2	0.7	0.2	45	0.75	0.061
ROS 164542	Soil	0.7	16.2	4.3	29	<0.1	12.2	9.9	256	2.47	4.8	0.2	0.6	0.9	8	0.1	0.2	0.1	74	0.20	0.062
ROS 164538	Soil	0.5	38.4	2.1	38	<0.1	10.0	14.1	311	2.84	2.1	0.4	1.1	2.7	16	<0.1	0.1	<0.1	62	0.52	0.132
ROS 164535	Soil	0.6	26.2	4.2	35	<0.1	28.8	9.6	264	1.99	3.9	0.4	1.6	0.8	11	<0.1	0.2	<0.1	51	0.19	0.041
ROS 160239	Soil	1.3	50.7	16.2	128	0.3	21.8	7.8	199	4.17	1.1	1.6	0.9	7.1	60	0.2	<0.1	0.2	96	0.16	0.057
ROS 164543	Soil	0.7	49.4	4.2	56	<0.1	25.1	14.0	415	3.46	4.8	0.4	<0.5	3.4	12	<0.1	0.3	<0.1	73	0.15	0.020
ROS 164539	Soil	0.3	22.4	2.5	41	<0.1	30.1	15.4	376	3.04	2.9	0.2	1.2	1.5	8	<0.1	0.1	<0.1	62	0.13	0.022

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 11, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 152548	Soil	13	32	0.56	215	0.088	1	1.72	0.017	0.07	0.2	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
ROS 152536	Soil	11	25	0.40	176	0.034	2	1.43	0.008	0.11	0.4	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 152561	Soil	3	20	1.29	220	0.232	<1	2.26	0.009	0.62	<0.1	0.01	1.5	0.2	<0.05	8	<0.5	<0.2
ROS 151293	Soil	11	22	0.47	282	0.051	2	1.25	0.019	0.05	0.3	0.06	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 152537	Soil	22	8	0.39	258	0.004	3	1.66	0.005	0.24	0.5	0.31	5.6	0.2	<0.05	4	0.6	0.5
ROS 152538	Soil	34	37	0.98	279	0.094	<1	2.65	0.017	0.09	1.9	0.06	10.2	<0.1	<0.05	10	<0.5	0.3
ROS 152564	Soil	6	14	1.36	131	0.156	<1	1.73	0.009	0.20	<0.1	<0.01	6.3	<0.1	<0.05	7	<0.5	<0.2
ROS 151298	Soil	22	39	0.62	222	0.106	<1	2.12	0.012	0.09	0.2	0.04	5.4	<0.1	<0.05	8	<0.5	<0.2
ROS 151286	Soil	10	35	0.68	207	0.064	1	2.22	0.012	0.08	0.2	0.04	4.5	<0.1	<0.05	8	0.5	<0.2
ROS 151338	Soil	17	20	1.73	289	0.160	1	2.24	0.012	0.73	<0.1	0.01	15.0	0.2	<0.05	10	0.6	<0.2
ROS 151318	Soil	27	44	0.50	253	0.012	<1	1.33	0.011	0.17	6.2	0.10	3.7	<0.1	<0.05	4	<0.5	1.2
ROS 151316	Soil	17	27	0.44	210	0.050	<1	1.47	0.015	0.10	1.2	0.05	3.3	<0.1	0.05	4	<0.5	<0.2
ROS 151305	Soil	14	27	0.84	198	0.115	1	1.57	0.024	0.23	0.2	0.02	5.7	0.1	<0.05	5	0.8	<0.2
ROS 151336	Soil	16	42	1.00	251	0.089	<1	1.79	0.025	0.12	<0.1	0.03	5.2	0.1	<0.05	6	1.0	<0.2
ROS 151317	Soil	7	23	0.77	128	0.066	<1	2.14	0.010	0.19	0.7	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
ROS 151315	Soil	3	11	0.89	148	0.035	1	1.87	0.010	0.32	0.2	<0.01	1.6	0.1	<0.05	10	<0.5	<0.2
ROS 152543	Soil	13	29	0.56	311	0.074	1	1.72	0.033	0.06	0.6	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 151335	Soil	14	26	0.69	310	0.086	1	1.56	0.028	0.08	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 151332	Soil	13	25	0.75	240	0.074	2	1.54	0.025	0.06	0.2	0.06	3.7	<0.1	<0.05	6	<0.5	<0.2
ROS 151329	Soil	13	24	0.58	254	0.072	1	1.46	0.025	0.07	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 151288	Soil	25	37	0.77	345	0.083	<1	2.08	0.019	0.06	0.2	0.09	5.9	<0.1	<0.05	8	0.6	<0.2
ROS 151334	Soil	14	27	0.71	288	0.091	1	1.59	0.027	0.07	0.1	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 151330	Soil	14	27	0.66	309	0.082	1	1.54	0.030	0.07	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 151320	Soil	15	23	0.49	307	0.056	<1	1.38	0.020	0.09	1.3	0.06	3.5	<0.1	<0.05	5	0.9	<0.2
ROS 164542	Soil	3	21	0.72	126	0.097	<1	1.75	0.014	0.23	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
ROS 164538	Soil	8	11	0.88	267	0.129	<1	1.90	0.029	0.52	0.1	0.01	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 164535	Soil	6	71	0.65	125	0.066	<1	1.32	0.010	0.13	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160239	Soil	41	58	1.23	365	0.155	<1	2.78	0.031	0.66	<0.1	0.01	5.6	0.5	0.33	9	1.1	0.2
ROS 164543	Soil	10	43	1.19	236	0.164	<1	2.64	0.008	0.51	<0.1	0.02	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 164539	Soil	5	60	1.24	210	0.188	<1	2.33	0.009	0.53	0.1	0.01	1.5	0.2	<0.05	6	<0.5	0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164534	Soil	0.6	38.9	3.5	47	<0.1	13.2	14.2	364	2.78	3.1	0.5	19.6	1.6	14	<0.1	0.2	<0.1	69	0.29	0.065
ROS 160244	Soil	0.9	22.1	7.2	56	0.1	13.5	7.1	280	2.34	5.7	0.7	2.0	3.3	20	0.2	0.3	0.1	51	0.26	0.047
ROS 164544	Soil	0.6	23.3	3.1	49	<0.1	24.4	14.0	372	2.63	3.0	0.2	0.6	1.0	19	<0.1	0.2	<0.1	64	0.30	0.026
ROS 164540	Soil	0.3	18.8	2.9	36	<0.1	43.8	13.0	331	2.35	2.9	0.4	<0.5	2.2	18	<0.1	0.2	<0.1	55	0.26	0.034
ROS 164537	Soil	0.7	42.4	5.4	44	<0.1	17.4	11.0	243	2.47	5.5	0.6	1.9	1.9	15	0.1	0.3	0.1	61	0.22	0.047
ROS 160233	Soil	0.9	9.1	6.0	40	<0.1	9.6	6.0	253	3.08	6.9	0.8	1.1	5.4	10	<0.1	0.3	0.1	55	0.11	0.027
ROS 164545	Soil	0.6	21.0	3.5	47	<0.1	21.7	13.5	347	2.42	2.5	0.2	1.0	0.8	17	<0.1	0.2	<0.1	64	0.28	0.023
ROS 164541	Soil	0.5	34.1	4.3	45	<0.1	18.6	12.7	378	2.86	5.6	0.5	1.8	2.7	22	<0.1	0.3	<0.1	72	0.38	0.062
ROS 164536	Soil	0.6	24.4	4.5	33	<0.1	15.9	9.5	184	2.11	4.2	0.4	1.5	1.0	18	<0.1	0.2	<0.1	52	0.20	0.041
ROS 160232	Soil	1.0	24.8	7.1	100	0.1	14.9	6.7	1023	3.44	8.2	0.4	1.3	2.9	9	0.2	0.4	0.2	46	0.07	0.025
ROS 159115	Soil	2.5	15.2	9.3	84	<0.1	5.4	6.4	356	3.10	3.5	2.2	<0.5	10.7	68	<0.1	0.2	0.4	64	0.13	0.035
ROS 164453	Soil	0.8	11.5	7.2	51	<0.1	14.7	6.8	300	2.55	7.3	0.7	1.2	7.1	17	<0.1	0.4	0.1	53	0.15	0.030
ROS 159113	Soil	0.9	18.8	7.0	87	<0.1	8.2	5.6	232	2.08	3.6	1.3	1.1	3.9	39	0.3	0.2	0.3	42	0.20	0.034
ROS 160231	Soil	1.0	14.6	7.2	49	<0.1	17.4	9.6	257	3.48	8.0	0.5	1.5	4.0	12	<0.1	0.4	0.1	57	0.12	0.025
ROS 164801	Soil	0.9	11.4	8.2	61	<0.1	11.2	9.1	458	2.81	5.6	0.8	1.3	7.1	16	<0.1	0.3	0.1	58	0.16	0.028
ROS 164455	Soil	0.9	16.5	7.0	46	0.1	14.1	6.8	226	2.27	5.7	0.5	1.6	3.4	14	<0.1	0.3	0.1	53	0.12	0.021
ROS 159112	Soil	1.3	20.3	9.2	84	0.2	10.8	6.8	313	2.44	4.5	1.5	0.9	4.2	28	0.2	0.2	0.2	49	0.16	0.045
ROS 160243	Soil	1.6	81.0	9.8	66	0.3	14.1	7.8	345	3.00	5.0	0.6	3.7	2.6	25	0.1	0.3	0.1	73	0.22	0.048
ROS 164802	Soil	0.7	11.0	6.7	65	<0.1	9.8	8.2	650	3.06	5.7	0.6	1.1	5.0	25	0.2	0.3	<0.1	59	0.26	0.056
ROS 159128	Soil	1.0	68.9	4.9	101	<0.1	13.6	13.7	557	4.06	4.4	0.4	<0.5	2.5	32	<0.1	0.2	<0.1	99	0.19	0.043
ROS 159114	Soil	0.9	19.2	6.9	68	<0.1	9.9	5.6	273	2.28	4.5	1.2	2.0	4.3	35	0.2	0.2	0.2	50	0.15	0.028
ROS 160229	Soil	0.9	11.5	7.9	44	<0.1	9.6	6.3	202	2.67	7.5	0.4	2.5	1.5	11	<0.1	0.4	0.1	70	0.11	0.034
ROS 164452	Soil	0.6	16.9	6.8	54	0.1	13.4	9.9	774	2.51	4.6	0.6	0.8	3.5	36	0.1	0.3	0.1	56	0.34	0.041
ROS 159129	Soil	3.0	148.4	6.0	132	0.1	11.1	13.8	666	4.52	3.6	3.7	2.6	11.7	25	0.1	0.2	0.2	74	0.26	0.040
ROS 159130	Soil	2.5	25.8	9.4	44	<0.1	7.8	4.1	210	3.08	4.2	1.6	1.2	12.6	45	<0.1	0.2	0.2	40	0.11	0.040
ROS 160238	Soil	1.2	47.5	20.5	123	0.3	27.1	10.5	237	4.62	3.0	1.1	<0.5	5.2	62	0.2	0.2	0.2	116	0.14	0.055
ROS 163776	Soil	0.6	24.7	6.4	53	<0.1	19.6	11.0	308	2.84	4.0	1.3	2.1	8.4	19	0.1	0.2	0.1	56	0.22	0.036
ROS 151367	Soil	0.3	25.6	7.2	42	<0.1	20.8	8.1	336	2.17	8.6	0.6	4.1	2.5	32	<0.1	0.5	0.1	50	0.98	0.067
ROS 151358	Soil	1.6	20.9	84.5	83	1.0	12.3	10.4	520	3.10	71.8	0.6	2.0	2.9	56	0.6	2.9	0.2	78	0.93	0.034
ROS 151356	Soil	0.8	21.1	10.8	60	0.1	13.3	7.1	342	1.87	6.3	1.1	5.8	1.6	40	0.2	1.0	0.1	39	1.41	0.052

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164534	Soil	9	19	0.89	258	0.137	<1	1.71	0.013	0.45	<0.1	0.02	2.1	0.1	<0.05	5	<0.5	<0.2
ROS 160244	Soil	9	21	0.46	175	0.067	<1	1.28	0.015	0.06	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 164544	Soil	3	42	1.20	204	0.156	<1	2.20	0.012	0.31	0.3	0.02	2.0	0.1	<0.05	6	<0.5	<0.2
ROS 164540	Soil	13	125	1.18	344	0.129	<1	1.83	0.012	0.44	0.1	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
ROS 164537	Soil	9	23	0.56	187	0.069	<1	1.52	0.014	0.07	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160233	Soil	11	17	0.47	109	0.110	<1	1.59	0.012	0.10	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
ROS 164545	Soil	3	42	1.15	192	0.149	<1	2.07	0.013	0.29	0.2	0.01	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 164541	Soil	11	20	0.78	318	0.106	<1	1.58	0.016	0.28	<0.1	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
ROS 164536	Soil	6	24	0.62	142	0.075	<1	1.45	0.010	0.11	0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160232	Soil	9	22	0.55	182	0.096	<1	2.35	0.006	0.35	0.1	0.03	5.0	0.2	<0.05	8	<0.5	0.2
ROS 159115	Soil	25	12	0.65	108	0.160	<1	1.89	0.011	0.43	<0.1	0.02	2.4	0.3	<0.05	9	<0.5	0.2
ROS 164453	Soil	16	24	0.60	161	0.101	<1	1.75	0.007	0.30	0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 159113	Soil	19	14	0.36	156	0.091	<1	1.40	0.009	0.20	0.1	0.02	1.7	0.2	<0.05	6	<0.5	<0.2
ROS 160231	Soil	11	25	0.64	162	0.089	<1	2.32	0.009	0.13	<0.1	0.02	5.5	<0.1	<0.05	8	<0.5	0.2
ROS 164801	Soil	15	22	0.62	136	0.110	<1	1.70	0.014	0.40	<0.1	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 164455	Soil	9	23	0.47	109	0.072	<1	1.30	0.014	0.12	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
ROS 159112	Soil	16	19	0.44	152	0.086	<1	1.48	0.009	0.15	0.1	0.04	2.1	0.2	<0.05	5	<0.5	<0.2
ROS 160243	Soil	9	24	0.64	223	0.112	<1	1.65	0.019	0.19	0.1	0.01	3.7	0.1	0.10	6	<0.5	<0.2
ROS 164802	Soil	12	15	0.84	158	0.139	<1	2.08	0.009	0.51	0.1	0.02	2.8	0.2	<0.05	8	<0.5	<0.2
ROS 159128	Soil	6	26	1.49	215	0.221	<1	2.65	0.010	1.31	<0.1	<0.01	2.2	0.5	<0.05	9	<0.5	<0.2
ROS 159114	Soil	16	16	0.43	157	0.099	<1	1.49	0.009	0.16	<0.1	0.02	1.8	0.2	<0.05	6	<0.5	<0.2
ROS 160229	Soil	7	21	0.41	68	0.062	<1	1.41	0.007	0.03	0.1	0.03	2.1	<0.1	<0.05	7	<0.5	0.2
ROS 164452	Soil	7	22	0.61	209	0.098	<1	1.52	0.009	0.47	0.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
ROS 159129	Soil	23	22	1.05	176	0.099	<1	2.09	0.011	0.40	<0.1	0.01	6.2	0.1	<0.05	9	0.6	<0.2
ROS 159130	Soil	21	14	0.41	136	0.073	<1	1.47	0.018	0.30	<0.1	0.02	2.1	0.2	0.21	5	0.7	<0.2
ROS 160238	Soil	21	26	1.22	549	0.191	<1	3.49	0.018	0.70	<0.1	<0.01	6.8	0.4	0.18	11	1.2	0.2
ROS 163776	Soil	24	27	0.74	177	0.163	<1	1.69	0.012	0.45	<0.1	0.01	2.9	0.3	<0.05	6	<0.5	<0.2
ROS 151367	Soil	12	24	0.62	239	0.057	1	1.16	0.020	0.04	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 151358	Soil	11	23	0.79	337	0.021	1	2.03	0.011	0.05	0.1	0.25	4.2	<0.1	<0.05	9	<0.5	<0.2
ROS 151356	Soil	12	19	0.43	348	0.035	1	1.10	0.013	0.05	1.1	0.08	2.4	<0.1	0.08	4	0.6	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163777	Soil	2.0	91.6	5.4	77	0.2	26.0	18.6	652	5.62	4.4	1.1	1.3	4.8	40	<0.1	0.2	0.1	170	0.24	0.053
ROS 151362	Soil	0.3	28.7	8.4	56	0.1	22.5	8.3	310	2.44	8.3	0.6	2.4	3.1	39	<0.1	0.7	0.2	51	0.85	0.055
ROS 151359	Soil	0.8	20.1	7.7	57	0.2	12.0	5.8	259	1.98	13.1	1.3	7.4	1.5	45	0.2	1.4	0.1	41	1.36	0.067
ROS 151354	Soil	0.6	22.9	10.3	61	0.2	14.4	7.4	329	2.03	7.6	1.0	13.9	2.1	34	0.2	1.0	0.1	37	1.07	0.060
ROS 163778	Soil	1.8	130.8	400.8	399	<0.1	9.2	8.8	659	3.45	3.0	2.0	<0.5	13.2	103	0.4	0.3	0.2	55	0.85	0.042
ROS 151366	Soil	0.5	39.5	7.5	50	<0.1	24.7	9.3	359	2.25	13.3	0.4	6.1	2.5	45	0.1	0.6	0.1	50	2.31	0.048
ROS 151360	Soil	0.7	9.4	7.8	96	<0.1	13.7	9.1	294	2.90	7.1	0.4	0.6	2.3	99	0.2	0.9	<0.1	67	0.86	0.076
ROS 151355	Soil	1.0	20.0	9.3	92	0.1	14.5	9.7	487	2.54	6.8	0.8	12.2	2.8	35	0.2	1.0	0.1	49	1.10	0.067
ROS 163779	Soil	1.4	39.3	15.5	250	<0.1	16.3	11.4	625	3.78	4.1	1.4	<0.5	13.2	41	0.4	0.2	0.1	54	0.58	0.041
ROS 151363	Soil	0.8	29.6	8.5	68	0.1	25.3	9.1	362	2.42	10.1	0.5	1.6	3.6	46	0.3	0.9	0.2	53	1.22	0.073
ROS 151361	Soil	0.9	9.7	8.1	85	<0.1	13.2	8.5	275	2.67	6.4	0.4	<0.5	2.2	81	0.2	0.9	<0.1	61	0.78	0.059
ROS 151357	Soil	1.1	24.3	9.4	66	0.2	19.1	7.3	406	2.01	8.5	1.1	8.7	1.5	48	0.3	1.3	0.1	38	1.66	0.077
ROS 173309	Soil	0.5	25.6	7.6	49	0.1	22.8	8.7	382	2.41	10.4	0.6	3.3	2.8	36	<0.1	0.5	0.1	47	0.81	0.070
ROS 173317	Soil	0.2	20.5	5.5	54	<0.1	12.6	7.2	383	1.67	4.5	1.3	3.0	1.5	46	0.2	0.5	<0.1	47	2.07	0.069
ROS 163726	Soil	0.9	21.8	9.1	292	<0.1	27.2	10.6	881	4.50	4.3	1.6	<0.5	10.5	23	<0.1	0.2	0.2	69	0.08	0.047
ROS 163727	Soil	0.9	28.2	7.1	145	0.2	18.8	8.2	372	2.99	6.2	0.9	1.4	6.0	25	0.4	0.4	0.1	61	0.20	0.032
ROS 173311	Soil	0.3	25.3	7.4	47	<0.1	21.8	8.2	316	2.36	11.0	0.4	2.5	2.2	33	0.1	0.5	0.1	56	0.99	0.050
ROS 173316	Soil	0.4	16.9	4.5	49	<0.1	15.9	6.1	536	1.47	6.8	0.8	1.5	0.7	62	0.3	0.5	<0.1	31	4.25	0.069
ROS 163725	Soil	0.6	35.2	5.3	97	<0.1	23.6	14.0	575	4.57	3.2	1.1	<0.5	7.7	30	0.1	0.2	0.2	111	0.36	0.082
ROS 163728	Soil	0.7	24.4	5.9	80	0.1	14.8	7.7	285	2.76	5.2	0.9	2.5	4.8	21	0.2	0.3	0.1	66	0.20	0.036
ROS 173310	Soil	0.5	29.0	7.7	53	<0.1	24.2	8.9	369	2.37	9.3	0.8	4.1	2.9	40	0.1	0.8	0.1	53	1.00	0.065
ROS 173313	Soil	0.5	22.7	9.1	52	<0.1	22.5	8.9	374	2.27	8.6	0.5	2.6	2.8	36	<0.1	0.5	0.2	51	1.06	0.046
ROS 163782	Soil	1.0	24.1	11.3	70	<0.1	16.2	7.4	303	2.47	5.8	0.8	0.9	4.7	27	0.2	0.3	0.2	59	0.26	0.022
ROS 163781	Soil	1.4	25.6	14.7	133	<0.1	14.3	12.0	605	3.45	3.6	0.8	0.7	8.4	38	0.2	0.2	<0.1	65	0.37	0.022
ROS 173312	Soil	0.4	21.1	7.8	44	<0.1	19.2	8.6	324	2.39	10.6	0.6	<0.5	2.5	36	<0.1	0.5	0.2	57	1.23	0.049
ROS 173315	Soil	0.3	11.2	4.0	40	<0.1	11.1	5.4	430	1.45	6.7	0.8	2.0	1.1	47	0.2	0.3	<0.1	31	2.46	0.078
ROS 164966	Soil	1.1	25.7	8.9	98	<0.1	11.2	9.6	432	3.18	3.4	1.7	0.6	11.2	37	0.2	0.2	0.2	60	0.29	0.034
ROS 163780	Soil	1.6	24.2	14.6	131	<0.1	15.3	11.6	591	3.49	4.1	0.8	<0.5	8.1	39	0.2	0.2	<0.1	68	0.36	0.025
ROS 160222	Soil	0.6	17.6	3.6	44	<0.1	16.1	9.2	219	2.36	4.3	0.5	<0.5	1.5	15	<0.1	0.2	<0.1	62	0.35	0.076
ROS 160219	Soil	0.4	19.5	5.3	38	<0.1	13.2	7.0	130	1.91	4.7	0.6	7.6	1.2	16	0.1	0.3	0.1	48	0.26	0.063

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.



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Project: ROS
 Report Date: November 11, 2010

Page: 8 of 12 Part 2

CERTIFICATE OF ANALYSIS

WHI10000609.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 163777	Soil			21	36	1.51	289	0.279	1	3.07	0.016	1.50	0.1	<0.01	5.8	0.5	<0.05	11	0.7	<0.2
ROS 151362	Soil			12	25	0.59	270	0.069	2	1.54	0.024	0.06	0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 151359	Soil			11	17	0.41	322	0.030	2	0.86	0.013	0.06	1.1	0.11	2.0	<0.1	0.05	3	<0.5	<0.2
ROS 151354	Soil			13	20	0.46	370	0.035	3	1.19	0.013	0.06	1.3	0.08	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 163778	Soil			53	23	1.23	224	0.160	<1	3.56	0.024	1.05	<0.1	<0.01	5.6	0.5	<0.05	11	<0.5	<0.2
ROS 151366	Soil			12	24	0.69	213	0.055	2	1.27	0.026	0.05	0.2	0.07	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 151360	Soil			7	25	0.71	212	0.094	1	2.52	0.013	0.11	0.1	<0.01	3.5	<0.1	<0.05	9	<0.5	<0.2
ROS 151355	Soil			14	25	0.62	346	0.042	2	1.20	0.015	0.12	2.8	0.07	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 163779	Soil			32	26	1.18	223	0.147	<1	2.96	0.011	1.30	<0.1	<0.01	3.7	0.4	<0.05	9	<0.5	<0.2
ROS 151363	Soil			12	27	0.61	319	0.071	3	1.40	0.029	0.11	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151361	Soil			7	24	0.62	241	0.086	2	2.33	0.012	0.10	0.1	0.01	3.5	<0.1	<0.05	8	<0.5	<0.2
ROS 151357	Soil			13	29	0.49	381	0.031	4	1.02	0.014	0.06	1.0	0.11	2.5	<0.1	0.08	3	<0.5	<0.2
ROS 173309	Soil			13	24	0.53	293	0.061	<1	1.27	0.025	0.06	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 173317	Soil			10	20	0.69	238	0.062	1	1.15	0.011	0.11	<0.1	0.04	4.7	<0.1	0.09	4	0.9	<0.2
ROS 163726	Soil			46	52	1.51	295	0.294	1	2.67	0.009	1.55	<0.1	<0.01	4.4	0.7	<0.05	11	<0.5	<0.2
ROS 163727	Soil			14	30	0.79	222	0.135	<1	1.67	0.014	0.35	0.1	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
ROS 173311	Soil			13	25	0.55	290	0.068	1	1.38	0.020	0.05	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173316	Soil			8	19	1.78	190	0.036	3	0.89	0.012	0.07	<0.1	0.05	2.4	<0.1	0.08	3	0.6	<0.2
ROS 163725	Soil			28	33	1.43	416	0.268	<1	2.64	0.018	1.30	<0.1	<0.01	5.2	0.5	<0.05	9	<0.5	<0.2
ROS 163728	Soil			17	27	0.73	228	0.152	<1	1.58	0.015	0.39	0.1	<0.01	3.1	0.2	<0.05	5	<0.5	<0.2
ROS 173310	Soil			14	25	0.55	285	0.069	2	1.46	0.022	0.07	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173313	Soil			13	26	0.62	241	0.057	1	1.50	0.017	0.06	0.1	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 163782	Soil			17	26	0.63	209	0.118	1	1.60	0.013	0.19	0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
ROS 163781	Soil			15	29	1.20	207	0.216	<1	2.54	0.017	0.86	<0.1	<0.01	3.6	0.5	<0.05	9	<0.5	<0.2
ROS 173312	Soil			13	25	0.62	270	0.061	2	1.42	0.019	0.06	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173315	Soil			9	16	1.07	146	0.044	2	0.79	0.011	0.07	0.2	0.03	2.3	<0.1	0.07	3	<0.5	<0.2
ROS 164966	Soil			25	17	0.87	235	0.172	<1	2.13	0.018	0.80	<0.1	<0.01	4.7	0.4	<0.05	8	<0.5	<0.2
ROS 163780	Soil			14	30	1.20	205	0.209	<1	2.69	0.015	0.83	<0.1	0.01	3.6	0.5	<0.05	8	<0.5	<0.2
ROS 160222	Soil			7	34	0.77	178	0.116	<1	1.58	0.019	0.20	0.3	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 160219	Soil			10	23	0.47	154	0.058	<1	1.40	0.015	0.04	0.2	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 11, 2010

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CERTIFICATE OF ANALYSIS

WHI10000609.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160223	Soil	0.7	14.9	4.2	38	<0.1	14.2	7.5	157	1.90	4.0	0.4	4.2	1.2	16	<0.1	0.2	<0.1	45	0.25	0.040
ROS 173308	Soil	0.5	19.3	7.5	47	<0.1	18.0	9.0	430	2.22	10.4	0.4	1.4	3.1	46	0.1	0.4	0.1	54	1.47	0.041
ROS 160216	Soil	0.8	22.3	4.7	38	<0.1	14.0	9.0	215	2.20	5.4	0.5	<0.5	1.7	16	<0.1	0.3	0.1	58	0.31	0.058
ROS 160220	Soil	0.5	14.7	3.4	26	<0.1	7.4	4.3	90	1.19	2.7	0.3	<0.5	0.4	14	<0.1	0.2	<0.1	27	0.22	0.044
ROS 160227	Soil	0.7	13.7	6.9	58	<0.1	16.0	9.2	422	2.29	8.2	0.4	0.8	2.2	19	0.1	0.5	0.2	58	0.23	0.052
ROS 173306	Soil	0.7	21.6	8.1	65	0.1	17.5	9.3	383	2.37	22.7	0.8	2.1	2.5	60	0.1	0.8	0.1	59	1.20	0.057
ROS 160218	Soil	0.6	22.9	6.5	40	<0.1	14.7	8.8	152	2.09	6.2	0.7	2.2	2.1	14	<0.1	0.3	0.1	52	0.28	0.074
ROS 160221	Soil	0.3	12.3	5.7	36	<0.1	11.7	4.6	107	1.54	3.7	0.5	1.0	0.7	14	<0.1	0.2	0.1	28	0.17	0.047
ROS 160226	Soil	0.6	20.4	6.9	52	0.1	18.1	8.5	272	2.26	5.7	0.8	1.3	2.6	20	0.1	0.5	0.1	48	0.27	0.062
ROS 173305	Soil	0.6	21.0	9.2	50	<0.1	18.4	8.6	337	2.24	7.4	0.8	3.3	2.8	40	0.1	0.6	0.2	50	0.85	0.047
ROS 160217	Soil	0.9	32.9	5.3	41	<0.1	16.1	9.7	228	2.07	5.1	0.7	1.6	1.9	18	<0.1	0.4	<0.1	46	0.31	0.070
ROS 160225	Soil	0.7	17.7	6.3	51	<0.1	13.9	7.9	250	2.54	5.4	0.7	2.0	2.5	14	<0.1	0.3	0.1	52	0.22	0.050
ROS 160228	Soil	0.6	25.8	7.5	64	<0.1	21.3	8.9	323	2.59	7.0	0.6	1.0	3.1	26	0.2	0.5	0.2	56	0.34	0.059
ROS 173307	Soil	0.5	26.2	10.5	81	0.1	18.9	9.7	516	2.39	11.3	1.1	2.3	2.4	92	0.2	0.9	<0.1	54	1.53	0.078
ROS 160272	Soil	1.0	34.6	4.9	94	<0.1	16.5	16.4	831	4.47	2.8	0.8	1.4	7.2	36	0.1	0.2	<0.1	106	0.23	0.023
ROS 160259	Soil	0.9	20.7	7.5	61	0.1	17.6	11.4	609	3.20	5.6	1.2	<0.5	8.4	24	0.1	0.4	0.1	64	0.22	0.029
ROS 160285	Soil	2.4	35.4	3.6	72	<0.1	12.0	17.3	1015	5.60	2.3	2.5	0.9	9.4	92	<0.1	0.2	<0.1	142	0.41	0.059
ROS 160555	Soil	0.8	28.4	10.2	67	0.1	17.5	9.1	449	2.52	6.1	2.6	3.2	9.3	46	0.3	0.5	0.2	47	0.96	0.082
ROS 160257	Soil	0.9	25.3	9.4	145	0.1	24.1	14.8	1185	3.04	6.7	0.7	0.6	5.2	31	0.6	0.5	0.2	64	0.30	0.039
ROS 160262	Soil	0.8	21.7	4.7	79	<0.1	16.9	13.8	737	4.21	5.2	0.8	<0.5	5.9	41	<0.1	0.3	<0.1	104	0.35	0.046
ROS 160263	Soil	1.0	35.8	4.1	105	<0.1	16.6	19.0	975	5.34	3.4	1.0	1.0	6.4	40	0.1	0.2	<0.1	125	0.42	0.057
ROS 160554	Soil	0.7	18.4	8.7	60	<0.1	14.1	10.5	453	2.47	5.1	1.5	<0.5	6.8	38	0.1	0.4	0.1	50	0.69	0.073
ROS 160268	Soil	1.2	57.9	10.9	163	<0.1	16.0	25.3	1015	6.03	3.1	1.5	<0.5	4.0	38	0.2	0.3	<0.1	141	0.55	0.053
ROS 160275	Soil	1.2	49.9	6.0	92	<0.1	16.7	14.5	755	4.35	6.0	0.8	<0.5	4.8	27	<0.1	0.3	0.1	97	0.33	0.045
ROS 160269	Soil	0.9	45.7	7.1	104	<0.1	17.4	14.7	772	4.15	4.2	1.7	<0.5	12.6	36	<0.1	0.2	<0.1	85	0.29	0.045
ROS 160557	Soil	1.1	17.5	11.5	64	<0.1	28.5	12.7	402	3.05	7.2	1.0	1.0	10.6	20	0.1	0.4	0.2	71	0.28	0.041
ROS 160270	Soil	4.8	69.5	10.5	125	<0.1	51.7	26.2	3141	5.10	4.6	2.7	2.5	14.9	41	0.8	0.4	0.1	111	0.36	0.058
ROS 160258	Soil	1.4	14.4	7.7	79	0.2	13.7	7.0	491	2.50	3.6	0.8	0.8	6.9	21	0.2	0.3	0.1	51	0.26	0.038
ROS 160260	Soil	1.0	16.6	6.8	68	<0.1	15.7	9.6	639	3.45	5.7	1.4	0.6	12.8	27	<0.1	0.4	<0.1	63	0.27	0.030
ROS 160556	Soil	1.3	20.2	18.3	74	<0.1	30.5	15.6	616	3.87	6.5	2.0	0.7	27.0	15	0.1	0.4	0.2	73	0.21	0.039

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 11, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160223	Soil	7	28	0.64	116	0.087	<1	1.41	0.015	0.08	0.6	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173308	Soil	14	24	0.56	262	0.063	2	1.36	0.020	0.08	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 160216	Soil	8	24	0.54	162	0.090	<1	1.54	0.023	0.08	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 160220	Soil	6	12	0.29	80	0.044	<1	0.88	0.014	0.03	0.2	0.05	1.9	<0.1	<0.05	3	<0.5	<0.2
ROS 160227	Soil	10	26	0.43	154	0.079	2	1.44	0.014	0.08	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173306	Soil	11	27	0.56	363	0.069	3	1.51	0.018	0.08	0.3	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160218	Soil	10	22	0.47	169	0.058	2	1.27	0.015	0.04	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 160221	Soil	7	25	0.35	112	0.046	2	1.08	0.010	0.04	0.2	0.05	1.6	<0.1	0.07	4	<0.5	<0.2
ROS 160226	Soil	12	25	0.47	236	0.076	2	1.48	0.013	0.06	0.3	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 173305	Soil	11	25	0.46	343	0.054	1	1.41	0.017	0.05	0.2	0.04	2.9	<0.1	<0.05	5	0.6	<0.2
ROS 160217	Soil	8	22	0.52	173	0.067	<1	1.32	0.016	0.05	0.4	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160225	Soil	9	26	0.52	142	0.098	1	1.62	0.012	0.08	0.3	0.04	2.7	<0.1	<0.05	5	0.5	<0.2
ROS 160228	Soil	12	31	0.54	241	0.078	1	1.58	0.014	0.06	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	0.4
ROS 173307	Soil	11	24	0.69	271	0.059	3	1.80	0.015	0.06	0.3	0.10	3.6	<0.1	<0.05	7	<0.5	<0.2
ROS 160272	Soil	11	21	1.63	181	0.263	<1	3.04	0.013	1.45	0.1	<0.01	4.1	0.7	<0.05	11	<0.5	<0.2
ROS 160259	Soil	17	26	0.76	292	0.139	2	2.02	0.012	0.59	0.1	0.02	5.5	0.3	<0.05	7	<0.5	0.2
ROS 160285	Soil	28	20	2.28	440	0.283	<1	3.68	0.020	1.78	<0.1	0.02	6.1	0.5	0.07	11	<0.5	<0.2
ROS 160555	Soil	31	24	0.51	241	0.071	2	1.34	0.017	0.14	0.2	0.06	4.0	0.1	0.05	5	0.7	<0.2
ROS 160257	Soil	12	29	0.69	388	0.110	1	2.02	0.013	0.35	0.1	0.03	4.3	0.1	<0.05	6	<0.5	<0.2
ROS 160262	Soil	10	25	1.51	225	0.218	1	2.79	0.011	1.24	0.2	0.03	5.1	0.4	<0.05	10	<0.5	<0.2
ROS 160263	Soil	13	24	2.00	281	0.320	<1	3.53	0.014	1.98	<0.1	0.02	3.2	0.6	<0.05	12	<0.5	0.2
ROS 160554	Soil	24	23	0.49	183	0.071	2	1.34	0.018	0.12	0.2	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 160268	Soil	12	16	2.11	355	0.283	<1	3.56	0.011	1.43	<0.1	0.02	4.2	0.3	<0.05	11	<0.5	<0.2
ROS 160275	Soil	11	23	1.37	232	0.218	1	2.96	0.010	1.11	0.1	0.02	2.9	0.4	<0.05	10	<0.5	<0.2
ROS 160269	Soil	25	22	1.30	214	0.220	<1	2.73	0.013	1.39	0.1	0.03	4.8	0.5	<0.05	10	<0.5	<0.2
ROS 160557	Soil	13	61	0.94	148	0.097	2	2.08	0.010	0.14	0.1	0.01	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 160270	Soil	53	31	1.58	542	0.277	<1	3.40	0.016	1.70	0.1	0.07	8.4	0.6	<0.05	11	<0.5	<0.2
ROS 160258	Soil	13	20	0.56	158	0.112	2	1.56	0.009	0.38	0.1	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
ROS 160260	Soil	24	23	1.07	173	0.168	1	2.33	0.010	0.76	0.1	0.03	5.1	0.3	<0.05	8	<0.5	0.2
ROS 160556	Soil	36	51	1.05	163	0.104	<1	2.62	0.008	0.23	0.2	0.03	3.6	0.2	<0.05	7	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164647	Soil	0.7	54.0	2.4	108	<0.1	11.8	17.1	842	5.47	2.2	0.9	<0.5	3.5	22	<0.1	0.1	<0.1	138	0.18	0.037
ROS 164644	Soil	0.6	26.2	5.9	80	<0.1	10.1	13.1	653	3.71	3.2	1.3	<0.5	10.5	30	<0.1	0.2	<0.1	76	0.23	0.040
ROS 160657	Soil	0.7	17.1	8.6	56	<0.1	15.5	9.3	352	2.80	7.6	1.2	1.2	9.8	19	<0.1	0.5	0.1	56	0.22	0.027
ROS 160658	Soil	0.5	10.1	7.1	53	<0.1	9.6	5.1	297	2.15	3.7	1.1	<0.5	7.6	15	<0.1	0.4	0.1	43	0.21	0.036
ROS 164645	Soil	1.1	41.2	9.4	424	<0.1	8.0	12.7	854	4.45	3.6	3.1	0.8	13.0	69	0.4	0.2	<0.1	88	0.34	0.033
ROS 164757	Soil	1.1	25.6	6.6	85	<0.1	8.2	8.6	494	3.88	4.6	2.8	<0.5	14.4	31	<0.1	0.2	0.1	66	0.31	0.035
ROS 160660	Soil	0.5	12.4	6.4	45	<0.1	10.4	5.7	253	2.07	4.6	1.2	1.3	7.0	18	<0.1	0.3	0.2	43	0.24	0.035
ROS 160654	Soil	0.7	12.4	8.2	54	<0.1	14.5	7.4	294	2.49	6.1	0.9	4.9	8.5	18	<0.1	0.3	0.1	52	0.22	0.027
ROS 164649	Soil	1.1	103.7	3.7	87	<0.1	12.3	14.0	641	5.60	2.2	0.8	<0.5	4.3	65	<0.1	0.1	<0.1	148	0.28	0.059
ROS 164641	Soil	1.5	40.1	5.9	93	<0.1	14.5	10.8	664	4.24	6.1	1.5	0.6	8.9	28	<0.1	0.3	<0.1	78	0.25	0.036
ROS 160661	Soil	0.8	9.1	7.6	42	<0.1	9.7	7.3	431	2.23	5.4	0.6	0.7	4.9	15	<0.1	0.2	0.2	49	0.18	0.080
ROS 160651	Soil	0.7	10.9	6.7	54	<0.1	11.4	6.0	295	2.23	4.5	1.0	<0.5	7.4	16	<0.1	0.3	0.1	45	0.22	0.044
ROS 164754	Soil	1.7	20.2	10.6	123	<0.1	10.0	8.5	624	3.25	3.0	2.2	<0.5	17.3	40	<0.1	0.1	0.2	58	0.21	0.049
ROS 164642	Soil	1.4	26.8	5.3	55	<0.1	13.9	7.4	402	3.26	5.4	2.3	1.4	14.1	20	<0.1	0.3	<0.1	65	0.14	0.027
ROS 160662	Soil	0.8	14.1	6.8	44	<0.1	11.3	7.1	382	2.09	4.6	1.0	1.3	8.6	18	<0.1	0.2	0.1	45	0.23	0.033
ROS 160659	Soil	0.8	9.2	6.9	40	<0.1	7.9	4.6	241	1.74	3.6	0.7	1.4	5.3	12	<0.1	0.3	0.1	43	0.14	0.038
ROS 164599	Soil	0.7	15.3	7.7	44	<0.1	16.8	10.6	500	2.41	4.8	0.8	<0.5	5.5	27	<0.1	0.3	0.1	54	0.27	0.027
ROS 164595	Soil	0.6	14.7	8.9	56	0.1	18.4	9.6	482	2.50	5.9	0.5	<0.5	4.2	30	0.1	0.3	0.1	54	0.34	0.056
ROS 159151	Soil	0.6	10.3	5.7	50	<0.1	10.3	6.7	308	2.12	3.4	1.6	1.5	9.3	17	<0.1	0.2	<0.1	42	0.25	0.047
ROS 159148	Soil	0.6	14.5	14.3	65	<0.1	11.9	8.3	480	2.60	3.9	1.1	7.7	7.0	17	<0.1	0.3	0.2	51	0.26	0.053
ROS 164598	Soil	0.8	14.1	8.9	59	<0.1	15.9	7.2	251	2.62	4.3	0.9	1.2	6.0	34	0.1	0.3	0.1	56	0.34	0.030
ROS 164594	Soil	0.9	27.0	5.5	63	<0.1	10.4	11.2	437	3.91	4.0	1.5	<0.5	9.5	74	<0.1	0.1	<0.1	89	0.31	0.038
ROS 159153	Soil	0.8	16.6	6.8	48	<0.1	8.8	7.6	471	2.06	3.6	1.2	3.0	6.8	19	0.1	0.2	0.2	41	0.28	0.041
ROS 159150	Soil	0.7	20.6	8.6	56	<0.1	15.1	8.9	361	2.78	6.9	1.7	8.5	9.0	23	<0.1	0.3	0.2	58	0.31	0.039
ROS 164597	Soil	1.1	13.1	8.0	65	<0.1	9.9	7.3	353	2.97	3.7	1.2	<0.5	8.2	52	<0.1	0.2	0.2	65	0.15	0.026
ROS 159152	Soil	0.6	12.5	5.8	48	<0.1	10.5	6.5	284	2.12	3.8	1.5	1.2	9.2	17	<0.1	0.3	0.1	43	0.26	0.053
ROS 159146	Soil	0.6	11.8	6.9	48	<0.1	12.3	6.0	285	2.17	4.1	1.0	0.8	6.7	18	<0.1	0.3	<0.1	46	0.24	0.039
ROS 159149	Soil	0.8	18.7	8.6	55	<0.1	15.7	8.3	356	2.74	6.8	1.6	4.4	8.9	23	<0.1	0.3	0.2	58	0.31	0.037
ROS 164596	Soil	1.0	19.6	7.2	41	0.1	17.4	9.7	353	2.46	6.0	1.0	0.9	6.0	32	<0.1	0.4	0.1	53	0.29	0.031
ROS 159143	Soil	0.7	11.3	9.3	53	<0.1	10.7	5.7	246	2.06	3.7	1.0	0.9	7.0	17	<0.1	0.4	0.2	44	0.24	0.040

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	0.5	0.2	
ROS 164647	Soil	8	27	2.45	331	0.331	<1	3.26	0.014	2.17	<0.1	0.02	2.1	0.5	<0.05	9	0.7	0.2
ROS 164644	Soil	18	15	1.06	298	0.193	1	2.32	0.011	1.00	0.1	0.02	2.9	0.3	<0.05	8	<0.5	<0.2
ROS 160657	Soil	23	29	0.51	228	0.075	2	2.04	0.011	0.07	0.2	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 160658	Soil	16	17	0.37	129	0.073	1	1.36	0.009	0.10	0.2	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164645	Soil	65	12	1.39	155	0.238	<1	3.00	0.013	1.28	<0.1	0.01	4.6	0.5	<0.05	10	<0.5	<0.2
ROS 164757	Soil	37	16	0.96	122	0.205	<1	2.40	0.011	1.01	<0.1	0.01	4.1	0.5	<0.05	9	0.6	<0.2
ROS 160660	Soil	22	20	0.37	156	0.078	1	1.28	0.013	0.09	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 160654	Soil	19	26	0.46	184	0.070	1	1.63	0.014	0.07	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164649	Soil	9	42	2.65	392	0.296	<1	3.45	0.019	2.25	<0.1	0.01	3.9	0.6	0.47	9	<0.5	0.2
ROS 164641	Soil	25	19	1.11	136	0.212	<1	2.66	0.009	1.01	<0.1	0.02	3.9	0.5	<0.05	8	<0.5	<0.2
ROS 160661	Soil	11	20	0.31	105	0.072	1	1.29	0.008	0.10	0.2	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160651	Soil	15	20	0.42	135	0.083	1	1.39	0.010	0.11	0.2	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 164754	Soil	39	12	0.92	111	0.187	<1	2.27	0.014	0.92	<0.1	<0.01	4.6	0.5	<0.05	8	<0.5	<0.2
ROS 164642	Soil	38	19	0.99	105	0.179	<1	1.98	0.010	0.70	0.1	<0.01	5.4	0.4	<0.05	8	<0.5	<0.2
ROS 160662	Soil	19	22	0.40	207	0.086	<1	1.35	0.012	0.10	0.2	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 160659	Soil	14	16	0.34	104	0.081	1	1.14	0.009	0.10	0.1	0.02	1.9	0.1	<0.05	5	<0.5	0.3
ROS 164599	Soil	13	25	0.50	238	0.089	1	1.63	0.014	0.19	0.1	<0.01	3.3	<0.1	<0.05	5	0.8	<0.2
ROS 164595	Soil	9	25	0.61	245	0.100	<1	1.48	0.012	0.26	0.2	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 159151	Soil	26	19	0.45	151	0.097	<1	1.26	0.014	0.16	0.2	0.02	2.7	0.1	<0.05	4	0.6	<0.2
ROS 159148	Soil	22	23	0.65	175	0.107	<1	1.54	0.011	0.25	0.1	0.03	3.0	0.2	<0.05	5	<0.5	<0.2
ROS 164598	Soil	14	27	0.55	125	0.093	<1	2.06	0.012	0.27	0.1	<0.01	3.7	0.1	<0.05	7	<0.5	<0.2
ROS 164594	Soil	21	15	1.20	171	0.254	<1	2.57	0.012	1.21	0.1	<0.01	3.2	0.5	<0.05	8	<0.5	<0.2
ROS 159153	Soil	22	18	0.41	195	0.077	<1	1.22	0.010	0.13	0.2	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 159150	Soil	27	29	0.56	232	0.104	1	1.82	0.019	0.10	0.1	0.04	4.6	0.1	<0.05	5	0.5	<0.2
ROS 164597	Soil	25	17	0.65	204	0.127	<1	1.88	0.013	0.36	<0.1	<0.01	4.4	0.3	0.06	7	<0.5	<0.2
ROS 159152	Soil	25	20	0.47	154	0.093	<1	1.22	0.011	0.14	0.1	0.02	2.8	<0.1	<0.05	4	0.6	<0.2
ROS 159146	Soil	18	22	0.45	157	0.086	<1	1.41	0.012	0.09	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159149	Soil	26	29	0.55	230	0.101	<1	1.76	0.013	0.10	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 164596	Soil	16	28	0.61	171	0.100	<1	1.45	0.020	0.15	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	0.3
ROS 159143	Soil	15	20	0.43	125	0.095	<1	1.30	0.015	0.11	0.2	0.02	2.4	0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159147	Soil	0.9	10.7	9.0	44	<0.1	8.1	5.5	305	1.78	4.7	0.9	<0.5	1.5	18	0.1	0.3	0.2	48	0.23	0.051
ROS 159142	Soil	1.0	22.0	11.7	65	0.1	14.8	7.2	293	2.60	6.1	1.6	2.6	6.8	19	<0.1	0.7	0.2	55	0.27	0.046
ROS 163623	Soil	1.0	13.1	9.4	50	0.1	18.0	9.7	370	2.76	7.6	0.4	0.5	3.3	16	<0.1	0.4	0.2	69	0.16	0.023
ROS 163622	Soil	1.3	19.2	6.5	53	<0.1	12.2	7.6	310	3.42	6.7	1.5	<0.5	9.3	16	<0.1	0.3	0.1	69	0.10	0.022
ROS 163627	Soil	0.7	55.9	4.7	73	0.1	13.2	13.5	646	4.68	3.7	0.5	<0.5	4.1	33	<0.1	<0.1	<0.1	124	0.19	0.039
ROS 163620	Soil	1.4	18.3	9.7	92	<0.1	14.7	9.6	299	3.45	7.9	0.9	<0.5	6.0	17	0.2	0.4	0.1	74	0.15	0.024
ROS 163626	Soil	0.9	17.9	8.5	63	<0.1	19.0	10.2	408	2.94	8.3	0.4	1.2	3.4	19	<0.1	0.4	0.1	65	0.18	0.029
ROS 163625	Soil	2.6	19.7	5.3	88	<0.1	10.1	15.7	940	5.04	4.0	0.8	1.1	5.2	52	<0.1	0.2	<0.1	105	0.29	0.053
ROS 163624	Soil	1.0	14.2	9.1	74	<0.1	17.4	12.3	480	3.82	8.9	0.8	1.2	6.5	22	<0.1	0.4	0.2	80	0.13	0.040
ROS 163621	Soil	1.3	18.3	9.0	59	<0.1	16.1	9.3	369	3.20	8.1	1.3	2.2	8.6	17	<0.1	0.3	0.1	65	0.14	0.032
ROS 159144	Soil	0.8	13.1	9.2	57	<0.1	14.1	8.8	374	2.71	6.3	1.0	7.7	7.6	17	<0.1	0.6	0.1	56	0.23	0.040
ROS 159145	Soil	0.9	14.8	10.4	48	<0.1	15.1	7.6	234	2.75	8.1	0.8	1.1	5.3	16	<0.1	0.5	0.2	64	0.18	0.026
ROS 164593	Soil	0.7	16.6	6.2	85	<0.1	10.9	9.9	499	2.57	3.9	0.9	1.5	6.3	47	<0.1	0.2	<0.1	60	0.38	0.054
ROS 164588	Soil	0.9	41.9	8.3	115	<0.1	33.2	10.1	506	3.98	4.0	1.9	<0.5	11.7	53	0.1	0.2	<0.1	80	0.31	0.062
ROS 164592	Soil	1.1	17.7	8.1	77	0.1	13.0	9.5	387	3.02	5.4	1.8	1.9	8.8	39	<0.1	0.3	0.2	58	0.29	0.038
ROS 164591	Soil	0.9	17.2	8.6	60	<0.1	18.9	8.9	379	2.82	7.2	1.1	<0.5	5.3	36	<0.1	0.4	0.1	56	0.24	0.036
ROS 164589	Soil	0.3	233.6	853.5	>10000	5.4	40.9	9.6	1603	2.63	1.2	0.9	6.1	5.0	28	6.9	0.1	11.3	29	0.74	0.075
ROS 164590	Soil	0.7	11.2	12.7	175	0.2	17.1	12.1	571	3.34	5.2	0.3	0.6	2.6	31	0.5	0.3	0.2	69	0.28	0.076
ROS 164228	Soil	0.8	21.1	14.8	72	0.1	17.4	9.5	407	2.86	8.0	2.2	3.6	5.8	28	0.2	0.6	0.2	60	0.34	0.062
ROS 164230	Soil	0.8	12.8	8.6	55	<0.1	12.0	5.8	227	2.53	6.2	1.1	1.2	4.9	16	0.1	0.4	0.2	56	0.18	0.043
ROS 164237	Soil	0.6	10.3	6.6	45	<0.1	11.4	5.3	202	2.15	4.2	0.7	0.7	4.7	15	<0.1	0.3	0.1	46	0.17	0.034
ROS 160656	Soil	1.0	12.4	9.0	56	<0.1	15.3	8.3	253	3.12	8.4	0.7	2.3	4.8	20	0.1	0.5	0.2	63	0.21	0.047
ROS 164229	Soil	0.6	9.8	6.2	57	<0.1	11.6	6.1	289	2.26	4.0	0.9	2.2	6.1	19	<0.1	0.4	0.1	49	0.26	0.056
ROS 164231	Soil	0.8	13.0	9.0	59	<0.1	14.6	7.2	307	2.59	6.0	0.8	3.3	5.6	18	<0.1	0.5	0.2	54	0.23	0.046
ROS 164236	Soil	0.7	13.8	5.5	52	<0.1	8.8	5.1	226	1.96	3.0	2.0	8.9	7.9	17	<0.1	0.2	0.2	37	0.25	0.053
ROS 160655	Soil	1.0	16.9	9.8	64	<0.1	16.6	10.8	484	3.11	7.9	1.3	1.2	11.5	22	<0.1	0.5	0.2	56	0.30	0.041
ROS 164226	Soil	0.8	11.1	9.7	57	<0.1	13.0	8.2	367	2.42	6.6	1.4	1.6	6.8	19	0.1	0.3	0.2	55	0.26	0.059
ROS 164232	Soil	0.9	14.5	9.2	62	<0.1	15.7	8.8	334	2.94	7.1	1.1	<0.5	6.4	23	<0.1	0.5	0.2	59	0.29	0.048
ROS 164235	Soil	0.7	12.6	6.2	52	<0.1	11.1	6.2	243	2.06	4.5	1.8	3.6	6.1	19	<0.1	0.3	0.2	42	0.27	0.059
ROS 160653	Soil	0.8	12.7	9.7	59	<0.1	13.3	7.2	394	2.55	6.0	1.1	10.7	7.9	19	<0.1	0.3	0.2	53	0.27	0.044

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.



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Project: ROS
 Report Date: November 11, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159147	Soil	18	19	0.33	157	0.076	1	1.29	0.010	0.08	0.2	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
ROS 159142	Soil	22	26	0.48	195	0.089	1	1.83	0.011	0.09	0.2	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 163623	Soil	9	29	0.54	204	0.091	<1	1.81	0.011	0.08	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
ROS 163622	Soil	16	23	0.77	135	0.145	<1	2.23	0.012	0.43	0.1	<0.01	4.4	0.3	<0.05	7	0.5	<0.2
ROS 163627	Soil	9	29	1.79	285	0.260	<1	3.03	0.012	1.62	<0.1	<0.01	2.8	0.4	<0.05	8	0.7	<0.2
ROS 163620	Soil	15	29	0.67	156	0.128	<1	2.28	0.014	0.27	<0.1	0.01	2.9	0.2	<0.05	6	<0.5	<0.2
ROS 163626	Soil	9	32	0.65	181	0.112	<1	1.76	0.013	0.27	0.1	0.01	2.7	0.1	<0.05	5	0.7	<0.2
ROS 163625	Soil	12	15	1.57	351	0.302	<1	3.44	0.014	1.67	0.1	0.02	4.5	0.5	<0.05	10	<0.5	<0.2
ROS 163624	Soil	9	28	0.81	177	0.159	1	2.82	0.010	0.48	<0.1	0.02	3.2	0.3	<0.05	8	<0.5	<0.2
ROS 163621	Soil	18	23	0.63	131	0.130	<1	2.01	0.010	0.29	0.1	0.01	2.4	0.2	<0.05	7	<0.5	0.4
ROS 159144	Soil	13	25	0.51	156	0.111	1	1.70	0.014	0.12	0.2	0.01	2.9	0.1	<0.05	5	0.7	<0.2
ROS 159145	Soil	14	31	0.51	177	0.092	2	1.97	0.011	0.06	0.2	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 164593	Soil	13	20	0.98	144	0.156	1	1.98	0.013	0.47	0.2	<0.01	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 164588	Soil	30	70	1.47	167	0.254	<1	2.79	0.012	1.18	<0.1	<0.01	5.3	0.6	<0.05	11	0.6	<0.2
ROS 164592	Soil	29	21	0.71	145	0.131	<1	1.99	0.012	0.50	0.1	0.01	2.9	0.3	<0.05	6	<0.5	<0.2
ROS 164591	Soil	18	28	0.61	175	0.099	2	1.74	0.011	0.23	0.1	<0.01	2.6	0.1	<0.05	5	<0.5	0.4
ROS 164589	Soil	19	37	2.48	90	0.139	1	2.14	0.006	0.48	<0.1	0.51	3.2	0.3	<0.05	7	1.0	0.7
ROS 164590	Soil	6	24	0.78	231	0.141	2	2.45	0.010	0.56	0.2	<0.01	2.2	0.2	<0.05	6	<0.5	<0.2
ROS 164228	Soil	28	31	0.52	288	0.075	2	2.14	0.016	0.10	0.2	0.05	4.0	<0.1	<0.05	7	<0.5	<0.2
ROS 164230	Soil	15	25	0.43	141	0.087	2	1.92	0.014	0.08	0.2	0.04	2.7	0.1	<0.05	7	<0.5	<0.2
ROS 164237	Soil	14	21	0.36	127	0.067	2	1.44	0.010	0.06	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160656	Soil	12	28	0.47	193	0.066	2	2.26	0.012	0.08	0.2	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 164229	Soil	18	24	0.46	118	0.093	2	1.46	0.013	0.14	0.2	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 164231	Soil	14	28	0.49	155	0.082	2	1.78	0.011	0.08	0.2	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164236	Soil	30	18	0.35	136	0.067	1	1.16	0.012	0.13	0.2	0.03	2.5	0.1	<0.05	4	<0.5	<0.2
ROS 160655	Soil	31	30	0.53	278	0.087	2	2.07	0.017	0.13	0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 164226	Soil	24	25	0.44	159	0.076	2	1.74	0.016	0.07	0.2	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164232	Soil	18	28	0.53	219	0.094	2	1.98	0.017	0.10	0.2	0.03	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 164235	Soil	20	20	0.38	145	0.070	<1	1.29	0.015	0.08	0.2	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160653	Soil	21	24	0.47	240	0.083	3	1.64	0.015	0.11	0.2	0.02	3.6	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		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001
ROS 164227	Soil			1.1	11.3	8.9	64	<0.1	11.2	8.8	496	2.59	5.0	1.7	2.2	6.6	19	0.1	0.3	0.2	51	0.25	0.072
ROS 164233	Soil			0.9	13.2	9.1	72	<0.1	13.3	9.9	609	2.86	5.9	1.9	<0.5	9.4	25	0.1	0.4	0.3	53	0.36	0.064
ROS 164234	Soil			0.9	12.7	11.2	56	<0.1	12.3	6.4	307	2.35	5.8	1.6	4.4	6.9	23	<0.1	0.4	0.4	47	0.32	0.060
ROS 160652	Soil			0.7	16.6	7.5	64	<0.1	11.1	6.5	440	2.40	3.8	1.8	1.8	9.8	22	<0.1	0.3	0.1	44	0.35	0.054
ROS 160242	Soil			1.1	37.9	7.7	90	0.2	27.0	13.6	380	3.24	5.3	1.1	2.6	3.6	33	<0.1	0.4	0.2	78	0.34	0.043
ROS 160558	Soil			0.8	28.6	13.8	78	<0.1	33.3	15.4	726	3.74	7.5	1.6	3.6	21.2	32	<0.1	0.5	0.2	85	0.59	0.079
ROS 160858	Soil			0.8	26.6	7.0	55	<0.1	18.5	10.5	382	2.59	5.5	2.0	0.8	6.9	34	0.1	0.4	0.1	57	0.43	0.050
ROS 164648	Soil			1.1	41.3	5.6	85	<0.1	19.3	15.8	624	4.45	7.1	0.6	1.3	5.2	22	<0.1	0.3	<0.1	125	0.23	0.030
ROS 160235	Soil			0.8	39.1	6.2	67	<0.1	18.0	15.9	430	3.64	8.0	1.1	2.2	3.7	27	<0.1	0.5	0.1	88	0.38	0.059
ROS 160857	Soil			1.1	25.5	7.3	63	<0.1	18.8	13.2	649	2.91	5.1	1.6	<0.5	8.6	31	<0.1	0.4	0.2	62	0.36	0.052
ROS 160866	Soil			0.9	37.0	8.1	61	<0.1	25.9	10.5	442	2.56	8.3	0.9	3.1	6.1	185	0.3	0.8	0.1	57	5.57	0.084
ROS 164771	Soil			1.1	62.0	3.5	147	0.1	14.4	18.7	1020	5.36	3.0	0.6	<0.5	4.5	36	<0.1	0.2	<0.1	146	0.25	0.065
ROS 160236	Soil			0.7	24.1	4.6	64	<0.1	12.4	12.6	360	3.40	5.1	0.8	<0.5	4.3	24	<0.1	0.3	<0.1	79	0.34	0.048
ROS 159087	Soil			0.6	13.9	10.6	70	<0.1	11.5	9.2	756	3.62	5.9	2.2	0.9	25.8	20	<0.1	0.3	0.1	53	0.21	0.038
ROS 159086	Soil			1.6	74.9	10.7	85	0.1	29.9	13.9	503	2.93	7.8	1.2	<0.5	5.7	36	<0.1	0.3	0.3	55	0.29	0.038
ROS 164646	Soil			1.1	30.5	2.5	94	<0.1	12.6	17.5	827	4.98	3.2	0.6	<0.5	4.1	32	<0.1	0.1	<0.1	135	0.27	0.051
ROS 160246	Soil			3.4	651.9	4.4	94	0.1	25.3	17.0	408	4.64	2.4	1.1	2.6	5.2	80	0.2	0.2	<0.1	129	0.48	0.090
ROS 160559	Soil			1.0	31.5	14.5	109	<0.1	15.7	11.2	791	3.36	4.9	1.8	0.8	15.2	25	0.2	0.4	0.3	54	0.61	0.078
ROS 160859	Soil			0.9	25.4	7.2	49	<0.1	18.0	8.9	329	2.54	6.6	1.2	1.7	7.2	29	<0.1	0.5	0.1	58	0.38	0.045
ROS 164772	Soil			0.9	55.1	3.3	140	0.1	14.9	18.2	966	5.27	3.0	0.6	<0.5	4.2	35	<0.1	0.1	<0.1	150	0.24	0.061



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 164227	Soil	29	23	0.53	182	0.079	<1	1.72	0.014	0.14	0.1	0.03	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164233	Soil	33	22	0.55	208	0.100	1	1.86	0.015	0.22	0.2	0.04	3.7	0.2	<0.05	7	<0.5	<0.2
ROS 164234	Soil	24	22	0.43	200	0.079	1	1.61	0.012	0.11	0.1	0.05	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160652	Soil	33	19	0.43	224	0.091	1	1.54	0.018	0.17	0.2	0.02	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 160242	Soil	14	35	0.75	313	0.121	<1	1.85	0.032	0.18	0.1	0.02	5.3	0.1	0.08	7	0.5	<0.2
ROS 160558	Soil	50	60	1.14	299	0.155	2	2.32	0.020	0.51	0.2	0.04	6.6	0.4	<0.05	8	<0.5	<0.2
ROS 160858	Soil	17	31	0.56	252	0.111	<1	1.72	0.025	0.25	0.4	0.02	4.1	0.2	<0.05	5	<0.5	<0.2
ROS 164648	Soil	10	37	1.84	275	0.234	<1	3.13	0.017	1.27	0.1	<0.01	5.4	0.4	<0.05	9	<0.5	<0.2
ROS 160235	Soil	17	26	0.77	307	0.116	1	2.03	0.029	0.20	<0.1	0.03	6.8	0.1	<0.05	6	<0.5	<0.2
ROS 160857	Soil	16	42	0.69	232	0.132	<1	1.85	0.020	0.39	<0.1	0.03	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 160866	Soil	18	26	0.96	389	0.090	4	1.31	0.050	0.14	0.3	0.03	3.4	0.1	0.06	5	<0.5	<0.2
ROS 164771	Soil	11	32	2.33	409	0.306	<1	3.65	0.018	2.23	0.2	0.01	4.0	0.5	0.20	10	<0.5	0.6
ROS 160236	Soil	20	20	0.87	297	0.157	1	2.36	0.025	0.34	<0.1	0.01	4.5	0.2	<0.05	7	<0.5	<0.2
ROS 159087	Soil	37	16	0.94	143	0.132	<1	2.40	0.009	0.88	<0.1	0.01	5.5	0.4	<0.05	9	<0.5	<0.2
ROS 159086	Soil	13	35	1.02	181	0.113	<1	2.27	0.009	0.55	<0.1	0.01	5.3	0.2	<0.05	8	<0.5	<0.2
ROS 164646	Soil	12	27	2.18	303	0.290	<1	3.58	0.017	2.22	<0.1	0.01	3.1	0.5	0.06	9	<0.5	<0.2
ROS 160246	Soil	18	31	1.58	616	0.216	<1	3.41	0.028	1.05	0.1	0.02	5.2	0.6	0.11	8	0.7	0.3
ROS 160559	Soil	21	19	0.88	268	0.132	3	2.07	0.018	0.58	0.2	0.02	3.7	0.5	0.05	8	<0.5	<0.2
ROS 160859	Soil	16	32	0.49	241	0.091	1	1.65	0.019	0.18	0.1	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
ROS 164772	Soil	10	32	2.35	390	0.308	<1	3.70	0.018	2.27	0.1	<0.01	3.9	0.5	0.20	10	<0.5	<0.2



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Project: ROS
 Report Date: November 11, 2010

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QUALITY CONTROL REPORT

WHI10000609.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 163711	Soil	0.4	19.5	6.3	71	<0.1	11.1	7.4	496	3.03	2.1	1.1	<0.5	6.5	39	<0.1	0.2	<0.1	89	0.44	0.055
REP ROS 163711	QC	0.4	20.4	6.4	72	<0.1	11.2	8.3	519	3.09	2.4	1.1	<0.5	6.2	39	<0.1	0.1	<0.1	92	0.46	0.057
ROS 152542	Soil	0.8	35.9	8.4	84	<0.1	20.0	13.1	447	3.13	7.8	0.8	6.0	4.0	44	<0.1	0.5	0.2	75	0.74	0.068
REP ROS 152542	QC	0.8	35.2	8.2	82	<0.1	18.8	12.4	445	3.03	7.7	0.8	5.8	3.9	43	<0.1	0.6	0.1	74	0.73	0.068
ROS 151281	Soil	0.4	25.6	7.9	56	<0.1	20.9	9.6	406	2.30	7.1	0.4	1.5	3.8	31	0.2	0.5	0.1	51	1.08	0.049
REP ROS 151281	QC	0.6	25.1	8.1	57	<0.1	21.0	9.8	407	2.33	6.7	0.5	5.2	3.7	32	<0.1	0.6	0.1	53	1.09	0.049
ROS 164524	Soil	14.4	383.6	4.5	75	<0.1	13.9	10.4	400	3.46	2.7	1.3	<0.5	7.2	19	0.1	0.1	0.2	89	0.19	0.042
REP ROS 164524	QC	13.2	410.1	4.7	83	<0.1	13.7	10.7	408	3.51	3.3	1.2	<0.5	7.4	19	<0.1	0.1	0.2	91	0.20	0.040
ROS 152560	Soil	0.3	8.8	1.9	125	<0.1	9.0	19.4	811	4.34	1.9	0.3	<0.5	4.3	14	<0.1	0.2	<0.1	106	0.33	0.090
REP ROS 152560	QC	0.3	9.2	1.9	128	<0.1	9.8	18.8	805	4.25	1.8	0.3	<0.5	4.2	14	<0.1	0.2	<0.1	104	0.34	0.088
ROS 163600	Soil	1.3	18.3	10.4	62	<0.1	21.6	10.8	211	3.17	8.2	0.7	1.2	5.0	22	<0.1	0.5	0.3	72	0.18	0.020
REP ROS 163600	QC	1.1	17.4	10.4	61	<0.1	20.3	10.4	210	3.07	7.4	0.6	2.3	4.8	21	<0.1	0.5	0.3	69	0.17	0.019
ROS 163611	Soil	1.8	16.9	13.4	84	<0.1	19.1	3.8	328	4.61	6.4	1.4	0.9	10.1	59	0.2	0.3	0.3	79	0.08	0.070
REP ROS 163611	QC	1.6	16.1	13.2	84	<0.1	18.6	4.2	325	4.36	6.0	1.4	3.6	10.4	57	0.1	0.3	0.3	77	0.08	0.068
ROS 151330	Soil	0.6	31.6	8.9	61	0.1	25.0	9.6	402	2.54	9.9	0.5	2.2	3.7	48	0.2	0.8	0.2	56	1.18	0.060
REP ROS 151330	QC	0.5	32.8	9.1	59	0.1	24.0	9.8	394	2.52	9.7	0.6	2.9	3.8	48	0.2	0.8	0.2	56	1.23	0.060
ROS 159115	Soil	2.5	15.2	9.3	84	<0.1	5.4	6.4	356	3.10	3.5	2.2	<0.5	10.7	68	<0.1	0.2	0.4	64	0.13	0.035
REP ROS 159115	QC	2.4	15.0	9.4	82	<0.1	5.5	6.5	352	3.05	3.5	2.2	1.1	10.5	67	<0.1	0.2	0.4	62	0.13	0.036
ROS 164452	Soil	0.6	16.9	6.8	54	0.1	13.4	9.9	774	2.51	4.6	0.6	0.8	3.5	36	0.1	0.3	0.1	56	0.34	0.041
REP ROS 164452	QC	0.6	16.3	6.4	54	0.1	12.6	9.9	766	2.53	4.5	0.5	0.8	3.4	37	0.2	0.3	0.1	57	0.34	0.041
ROS 151362	Soil	0.3	28.7	8.4	56	0.1	22.5	8.3	310	2.44	8.3	0.6	2.4	3.1	39	<0.1	0.7	0.2	51	0.85	0.055
REP ROS 151362	QC	0.4	28.7	8.1	59	0.1	21.6	8.0	315	2.32	8.2	0.5	3.5	2.9	38	0.1	0.7	0.1	50	0.81	0.049
ROS 163725	Soil	0.6	35.2	5.3	97	<0.1	23.6	14.0	575	4.57	3.2	1.1	<0.5	7.7	30	0.1	0.2	0.2	111	0.36	0.082
REP ROS 163725	QC	0.6	33.6	5.4	95	<0.1	22.6	14.3	606	4.62	3.4	1.2	<0.5	8.1	30	<0.1	0.2	0.1	113	0.36	0.085
ROS 160228	Soil	0.6	25.8	7.5	64	<0.1	21.3	8.9	323	2.59	7.0	0.6	1.0	3.1	26	0.2	0.5	0.2	56	0.34	0.059
REP ROS 160228	QC	0.7	25.7	7.6	67	<0.1	21.5	9.1	316	2.58	7.1	0.6	2.5	3.0	26	0.2	0.6	0.1	54	0.34	0.060
ROS 164647	Soil	0.7	54.0	2.4	108	<0.1	11.8	17.1	842	5.47	2.2	0.9	<0.5	3.5	22	<0.1	0.1	<0.1	138	0.18	0.037
REP ROS 164647	QC	0.8	57.3	2.6	113	<0.1	12.6	17.7	896	5.57	2.2	0.8	<0.5	3.3	21	<0.1	0.2	<0.1	140	0.19	0.038

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.



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Project: ROS
 Report Date: November 11, 2010

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QUALITY CONTROL REPORT

WHI10000609.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2		
Pulp Duplicates																			
ROS 163711	Soil	17	18	1.71	150	0.189	<1	2.39	0.017	0.63	<0.1	0.01	5.5	0.3	<0.05	8	<0.5	<0.2	
REP ROS 163711	QC	18	17	1.84	152	0.205	<1	2.53	0.017	0.68	<0.1	0.01	5.4	0.3	<0.05	8	<0.5	<0.2	
ROS 152542	Soil	14	30	0.86	285	0.108	<1	1.83	0.023	0.12	4.4	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2	
REP ROS 152542	QC	14	30	0.82	284	0.106	<1	1.81	0.024	0.11	4.0	0.05	5.3	<0.1	<0.05	6	<0.5	<0.2	
ROS 151281	Soil	13	27	0.78	242	0.080	2	1.37	0.022	0.13	0.2	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2	
REP ROS 151281	QC	13	28	0.80	237	0.083	1	1.45	0.022	0.14	0.1	0.05	4.3	0.1	<0.05	4	<0.5	<0.2	
ROS 164524	Soil	15	26	1.28	305	0.179	<1	2.43	0.014	0.91	0.1	<0.01	5.3	0.4	0.08	6	<0.5	1.0	
REP ROS 164524	QC	14	25	1.29	301	0.185	<1	2.43	0.015	0.90	<0.1	<0.01	5.8	0.5	0.10	7	<0.5	<0.2	
ROS 152560	Soil	19	14	2.41	386	0.283	<1	2.56	0.009	1.38	<0.1	<0.01	18.4	0.5	<0.05	12	<0.5	<0.2	
REP ROS 152560	QC	18	14	2.37	390	0.274	<1	2.53	0.009	1.38	<0.1	<0.01	18.2	0.5	<0.05	12	<0.5	<0.2	
ROS 163600	Soil	12	38	0.59	175	0.103	1	2.30	0.010	0.16	0.1	0.01	2.7	0.2	<0.05	7	<0.5	<0.2	
REP ROS 163600	QC	11	37	0.57	165	0.100	1	2.18	0.010	0.15	0.1	0.01	2.5	0.2	<0.05	7	<0.5	0.3	
ROS 163611	Soil	25	50	0.99	257	0.171	2	2.13	0.060	0.71	<0.1	0.02	5.9	0.3	0.74	10	1.0	<0.2	
REP ROS 163611	QC	24	48	0.99	300	0.166	1	2.09	0.059	0.68	<0.1	0.02	5.8	0.3	0.68	10	1.2	<0.2	
ROS 151330	Soil	14	27	0.66	309	0.082	1	1.54	0.030	0.07	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2	
REP ROS 151330	QC	14	27	0.65	295	0.083	1	1.53	0.031	0.07	0.2	0.05	3.8	<0.1	<0.05	5	0.5	0.2	
ROS 159115	Soil	25	12	0.65	108	0.160	<1	1.89	0.011	0.43	<0.1	0.02	2.4	0.3	<0.05	9	<0.5	0.2	
REP ROS 159115	QC	25	11	0.66	109	0.157	<1	1.86	0.011	0.44	<0.1	<0.01	2.5	0.3	<0.05	9	<0.5	0.2	
ROS 164452	Soil	7	22	0.61	209	0.098	<1	1.52	0.009	0.47	0.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2	
REP ROS 164452	QC	7	22	0.63	209	0.100	1	1.58	0.009	0.49	<0.1	0.02	2.3	0.2	<0.05	5	<0.5	<0.2	
ROS 151362	Soil	12	25	0.59	270	0.069	2	1.54	0.024	0.06	0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2	
REP ROS 151362	QC	12	24	0.56	260	0.063	2	1.45	0.022	0.06	0.2	0.04	3.4	<0.1	<0.05	4	0.6	<0.2	
ROS 163725	Soil	28	33	1.43	416	0.268	<1	2.64	0.018	1.30	<0.1	<0.01	5.2	0.5	<0.05	9	<0.5	<0.2	
REP ROS 163725	QC	28	34	1.44	415	0.289	<1	2.79	0.019	1.37	<0.1	<0.01	5.4	0.5	<0.05	9	<0.5	<0.2	
ROS 160228	Soil	12	31	0.54	241	0.078	1	1.58	0.014	0.06	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	0.4	
REP ROS 160228	QC	12	29	0.53	239	0.076	2	1.56	0.022	0.06	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2	
ROS 164647	Soil	8	27	2.45	331	0.331	<1	3.26	0.014	2.17	<0.1	0.02	2.1	0.5	<0.05	9	0.7	0.2	
REP ROS 164647	QC	8	29	2.54	338	0.348	<1	3.45	0.014	2.25	<0.1	0.02	2.1	0.5	<0.05	9	<0.5	0.3	

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Project: ROS
Report Date: November 11, 2010

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QUALITY CONTROL REPORT

WHI10000609.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 159151	Soil	0.6	10.3	5.7	50	<0.1	10.3	6.7	308	2.12	3.4	1.6	1.5	9.3	17	<0.1	0.2	<0.1	42	0.25	0.047
REP ROS 159151	QC	0.7	10.6	5.8	49	<0.1	10.9	6.5	315	2.15	3.4	1.5	1.7	9.2	17	<0.1	0.2	0.1	43	0.24	0.047
ROS 164589	Soil	0.3	233.6	853.5	>10000	5.4	40.9	9.6	1603	2.63	1.2	0.9	6.1	5.0	28	6.9	0.1	11.3	29	0.74	0.075
REP ROS 164589	QC	0.3	235.3	884.9	>10000	5.4	42.0	9.4	1606	2.64	1.2	0.8	6.0	4.6	28	6.8	<0.1	11.3	29	0.73	0.073
ROS 164234	Soil	0.9	12.7	11.2	56	<0.1	12.3	6.4	307	2.35	5.8	1.6	4.4	6.9	23	<0.1	0.4	0.4	47	0.32	0.060
REP ROS 164234	QC	0.8	13.2	11.4	58	<0.1	12.2	6.4	296	2.36	6.0	1.7	0.9	7.2	23	<0.1	0.4	0.3	46	0.32	0.060
ROS 160558	Soil	0.8	28.6	13.8	78	<0.1	33.3	15.4	726	3.74	7.5	1.6	3.6	21.2	32	<0.1	0.5	0.2	85	0.59	0.079
REP ROS 160558	QC	0.8	29.6	13.7	81	<0.1	34.2	15.4	713	3.78	7.3	1.7	9.9	22.1	32	<0.1	0.6	0.2	83	0.60	0.079
Reference Materials																					
STD DS7	Standard	21.4	113.1	71.3	391	0.9	57.4	9.5	595	2.33	49.2	4.9	69.6	4.7	73	6.0	6.1	4.7	82	0.90	0.073
STD DS7	Standard	19.8	101.4	70.8	391	0.9	53.2	9.0	618	2.27	49.3	5.1	63.6	4.6	82	5.8	6.3	4.7	81	0.91	0.076
STD DS7	Standard	20.0	113.1	71.2	397	1.0	58.5	9.5	624	2.43	49.2	5.0	64.3	5.0	73	5.9	5.5	4.3	86	0.91	0.076
STD DS7	Standard	18.9	110.2	68.6	354	0.8	58.5	9.8	615	2.19	45.8	4.6	76.5	4.5	70	5.1	5.0	4.1	87	0.94	0.072
STD DS7	Standard	19.8	98.5	60.8	375	0.9	50.8	8.7	573	2.23	48.8	4.6	63.8	4.4	83	6.2	5.8	4.4	74	0.91	0.080
STD DS7	Standard	18.2	98.1	63.8	359	0.9	49.9	8.4	579	2.19	45.3	4.5	58.9	4.2	63	5.6	5.4	4.4	74	0.84	0.070
STD DS7	Standard	20.4	106.2	70.3	382	1.0	53.5	9.3	635	2.34	49.7	5.0	66.2	4.8	71	6.0	6.1	4.7	84	0.93	0.077
STD DS7	Standard	19.9	101.3	62.1	371	1.0	51.2	8.8	603	2.26	52.6	4.4	68.5	4.4	76	6.6	6.1	4.8	83	0.94	0.081
STD DS7	Standard	19.1	108.7	71.0	402	1.0	54.8	9.0	612	2.35	50.0	4.5	68.0	4.3	71	5.6	6.0	4.7	80	0.90	0.077
STD DS7	Standard	21.8	110.1	67.1	389	1.0	57.8	10.5	658	2.47	50.0	5.0	95.1	4.8	76	6.5	6.2	4.7	91	0.97	0.079
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 11, 2010

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QUALITY CONTROL REPORT

WHI10000609.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 159151	Soil	26	19	0.45	151	0.097	<1	1.26	0.014	0.16	0.2	0.02	2.7	0.1	<0.05	4	0.6	<0.2
REP ROS 159151	QC	26	19	0.47	151	0.097	<1	1.28	0.015	0.16	0.2	0.01	2.7	0.1	<0.05	5	0.6	<0.2
ROS 164589	Soil	19	37	2.48	90	0.139	1	2.14	0.006	0.48	<0.1	0.51	3.2	0.3	<0.05	7	1.0	0.7
REP ROS 164589	QC	18	36	2.56	93	0.135	1	2.22	0.008	0.49	<0.1	0.49	3.1	0.3	<0.05	7	1.4	0.7
ROS 164234	Soil	24	22	0.43	200	0.079	1	1.61	0.012	0.11	0.1	0.05	2.9	<0.1	<0.05	5	<0.5	<0.2
REP ROS 164234	QC	24	22	0.43	205	0.079	2	1.57	0.012	0.11	0.1	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160558	Soil	50	60	1.14	299	0.155	2	2.32	0.020	0.51	0.2	0.04	6.6	0.4	<0.05	8	<0.5	<0.2
REP ROS 160558	QC	48	58	1.16	283	0.148	2	2.35	0.025	0.50	0.2	0.04	6.5	0.4	<0.05	8	0.7	<0.2
Reference Materials																		
STD DS7	Standard	13	196	1.02	407	0.125	33	1.01	0.092	0.48	3.5	0.23	2.3	4.2	0.19	5	2.7	1.1
STD DS7	Standard	13	191	1.07	402	0.124	39	1.08	0.103	0.47	3.5	0.22	2.6	3.8	0.18	5	3.2	0.7
STD DS7	Standard	13	203	1.05	405	0.129	41	1.05	0.097	0.48	3.5	0.24	2.6	4.2	0.19	5	3.1	1.1
STD DS7	Standard	13	216	1.00	365	0.125	29	1.01	0.094	0.45	3.3	0.18	2.3	3.6	0.22	4	1.6	3.9
STD DS7	Standard	13	179	0.98	380	0.110	41	1.02	0.105	0.48	3.3	0.22	2.4	3.8	0.17	5	2.6	2.0
STD DS7	Standard	11	173	0.96	357	0.105	36	0.90	0.079	0.43	3.4	0.21	2.0	3.8	0.18	4	3.0	1.1
STD DS7	Standard	13	190	1.06	394	0.122	41	1.01	0.098	0.48	3.6	0.22	2.5	4.2	0.21	5	3.6	1.6
STD DS7	Standard	13	189	1.05	417	0.116	35	1.06	0.097	0.51	3.4	0.21	2.7	3.8	0.20	5	2.8	0.8
STD DS7	Standard	11	187	1.07	351	0.117	42	0.99	0.089	0.50	3.6	0.21	2.2	4.1	0.20	5	3.1	1.1
STD DS7	Standard	13	214	1.07	404	0.123	34	1.07	0.097	0.48	3.9	0.22	2.6	4.1	0.19	5	3.4	1.4
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: ROS

Report Date: November 11, 2010

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QUALITY CONTROL REPORT

WHI10000609.1

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



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QUALITY CONTROL REPORT

WHI10000609.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 16, 2010
Report Date: November 12, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000610.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS4
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163618	Soil	0.7	66.5	8.5	67	0.1	215.5	25.7	399	3.12	2.5	1.7	0.7	3.3	62	<0.1	0.2	<0.1	91	0.51	0.118
ROS 151123	Soil	0.5	22.9	8.4	50	<0.1	17.5	8.8	364	2.23	5.6	0.7	2.7	3.2	44	0.2	0.5	0.1	49	1.82	0.043
ROS 152520	Soil	0.7	49.7	10.0	158	<0.1	15.2	9.8	585	4.46	17.4	0.8	2.5	7.0	29	0.1	2.5	<0.1	73	0.42	0.085
ROS 152523	Soil	0.5	31.8	6.9	43	<0.1	23.2	9.3	391	2.25	7.4	0.5	2.3	3.0	42	0.4	0.6	<0.1	52	2.12	0.064
ROS 163619	Soil	1.2	16.2	7.0	42	<0.1	12.8	10.3	331	3.52	6.4	1.5	1.1	9.3	27	<0.1	0.4	0.1	67	0.33	0.032
ROS 151125	Soil	0.3	25.7	8.0	50	<0.1	22.4	8.6	371	2.19	7.4	0.5	2.7	2.9	38	0.2	0.4	0.1	50	1.36	0.046
ROS 151108	Soil	0.7	17.5	7.8	57	<0.1	18.9	9.5	247	2.65	9.6	0.6	3.4	3.8	32	0.1	0.7	0.1	62	0.37	0.028
ROS 152527	Soil	0.2	20.5	7.3	76	<0.1	18.2	9.4	919	2.28	6.0	0.3	2.2	4.4	18	0.1	0.3	0.1	44	0.92	0.049
ROS 163617	Soil	1.8	52.7	7.7	86	0.5	62.4	31.1	614	2.71	2.4	5.1	<0.5	10.9	55	0.3	0.2	0.4	52	0.43	0.065
ROS 151124	Soil	0.5	28.3	8.3	52	<0.1	21.3	8.8	347	2.20	6.7	0.7	4.1	3.0	34	0.2	0.6	0.1	47	1.16	0.047
ROS 152521	Soil	0.2	14.7	14.4	143	<0.1	12.0	12.6	731	3.93	4.5	0.5	8.9	7.4	19	0.2	3.3	<0.1	59	0.89	0.151
ROS 152524	Soil	0.4	40.6	4.8	25	0.1	18.8	5.4	225	1.33	4.0	1.7	2.6	0.7	85	0.5	0.7	<0.1	36	6.42	0.065
ROS 163616	Soil	1.5	19.4	8.3	85	<0.1	15.1	13.1	490	3.29	5.7	1.3	0.9	9.0	26	0.1	0.4	0.3	64	0.12	0.022
ROS 151110	Soil	0.4	18.9	7.2	50	<0.1	17.2	9.1	208	2.32	6.6	0.6	2.2	3.2	28	0.1	0.5	0.1	56	0.37	0.032
ROS 152526	Soil	<0.1	23.7	2.8	101	<0.1	13.2	15.2	1158	3.40	2.2	0.2	1.6	4.0	13	0.1	0.2	<0.1	72	0.55	0.075
ROS 152522	Soil	0.4	28.5	6.5	39	<0.1	20.6	7.7	284	2.05	7.4	0.7	1.9	2.2	35	0.2	0.6	0.1	44	1.55	0.058
ROS 159169	Soil	1.0	20.0	10.6	100	<0.1	9.3	8.1	201	3.40	5.3	1.9	2.8	12.5	13	0.1	0.3	0.1	41	0.21	0.046
ROS 159164	Soil	0.7	15.8	7.4	43	<0.1	16.3	6.0	173	2.21	6.3	0.9	3.3	4.1	21	<0.1	0.4	0.1	52	0.27	0.033
ROS 164574	Soil	1.4	49.6	7.7	103	0.3	16.5	11.3	552	2.83	3.6	1.3	7.3	6.1	27	0.4	0.2	0.2	61	0.38	0.043
ROS 159161	Soil	0.7	15.6	7.2	42	<0.1	14.5	6.2	188	2.02	5.2	1.0	2.6	4.2	23	<0.1	0.3	0.1	47	0.30	0.040
ROS 159168	Soil	0.7	21.3	10.2	53	<0.1	18.8	7.8	265	2.44	6.5	1.3	0.8	7.4	24	<0.1	0.4	0.2	52	0.33	0.040
ROS 159165	Soil	0.6	13.6	6.5	69	<0.1	12.6	12.4	784	2.76	4.6	1.4	0.6	13.0	23	<0.1	0.3	0.1	44	0.34	0.065
ROS 164617	Soil	1.5	136.6	5.7	76	0.2	26.0	15.7	401	3.36	4.5	1.4	2.9	5.0	27	0.3	0.3	0.1	64	0.35	0.046
ROS 159160	Soil	0.5	17.6	7.6	45	<0.1	13.7	5.7	168	2.12	5.1	1.2	3.2	5.1	24	<0.1	0.3	0.1	47	0.34	0.043
ROS 159167	Soil	0.6	23.3	13.2	80	<0.1	14.7	10.7	522	3.63	5.1	2.7	1.0	29.7	21	<0.1	0.4	0.3	49	0.32	0.060
ROS 159163	Soil	0.4	12.7	6.7	39	<0.1	13.2	5.7	159	2.00	5.7	0.7	6.5	4.0	21	<0.1	0.4	0.1	48	0.29	0.040
ROS 164575	Soil	1.5	45.5	5.6	65	<0.1	11.9	10.1	390	2.59	2.6	0.5	2.1	3.7	18	<0.1	<0.1	0.1	64	0.33	0.060
ROS 159159	Soil	0.6	17.8	7.9	47	<0.1	15.1	5.5	154	2.19	6.0	1.3	10.0	6.1	24	<0.1	0.4	0.1	49	0.32	0.036
ROS 159166	Soil	0.7	21.2	7.7	51	<0.1	19.0	8.6	343	2.46	7.2	1.3	2.4	7.3	25	<0.1	0.5	0.1	53	0.33	0.041
ROS 159162	Soil	0.7	12.4	7.1	43	<0.1	12.7	6.0	180	2.10	6.4	0.9	2.4	4.2	22	<0.1	0.4	0.2	49	0.31	0.047

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 163618	Soil	13	211	3.00	320	0.141	2	2.18	0.013	0.10	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
ROS 151123	Soil	13	24	0.58	181	0.067	2	1.61	0.019	0.08	0.2	0.08	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 152520	Soil	31	24	1.09	156	0.017	1	1.88	0.011	0.07	0.1	0.33	6.2	<0.1	<0.05	10	<0.5	0.5
ROS 152523	Soil	12	23	0.92	179	0.061	2	1.32	0.013	0.15	0.2	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 163619	Soil	32	20	0.54	113	0.119	1	2.44	0.008	0.35	0.2	0.02	2.1	0.2	<0.05	7	<0.5	0.5
ROS 151125	Soil	12	24	0.51	237	0.064	2	1.35	0.026	0.06	0.1	0.04	3.5	<0.1	<0.05	4	<0.5	0.5
ROS 151108	Soil	12	32	0.51	193	0.070	1	1.68	0.014	0.06	0.3	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 152527	Soil	20	18	1.16	201	0.087	<1	1.52	0.010	0.36	0.1	0.02	6.7	0.2	<0.05	5	<0.5	<0.2
ROS 163617	Soil	65	33	1.00	237	0.104	<1	2.05	0.015	0.35	<0.1	0.04	5.1	0.2	<0.05	6	<0.5	<0.2
ROS 151124	Soil	13	24	0.55	240	0.061	1	1.41	0.019	0.07	0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 152521	Soil	25	19	0.74	181	0.010	2	1.46	0.009	0.13	0.2	0.06	4.0	<0.1	<0.05	7	<0.5	0.5
ROS 152524	Soil	8	14	1.03	281	0.027	2	0.80	0.010	0.06	0.1	0.05	2.3	<0.1	<0.05	3	0.7	<0.2
ROS 163616	Soil	11	25	0.66	123	0.135	<1	2.31	0.011	0.42	0.1	0.02	4.2	0.3	<0.05	7	<0.5	<0.2
ROS 151110	Soil	10	30	0.51	189	0.070	1	1.45	0.012	0.07	0.3	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 152526	Soil	16	24	1.84	276	0.197	<1	2.17	0.009	1.00	<0.1	<0.01	12.7	0.4	<0.05	10	<0.5	<0.2
ROS 152522	Soil	11	22	0.61	219	0.055	2	1.21	0.015	0.09	<0.1	0.06	3.8	<0.1	<0.05	4	0.8	<0.2
ROS 159169	Soil	33	12	0.23	121	0.040	1	0.82	0.014	0.12	<0.1	0.01	3.3	0.2	<0.05	3	<0.5	<0.2
ROS 159164	Soil	14	26	0.41	195	0.074	2	1.55	0.013	0.05	0.1	0.04	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 164574	Soil	21	22	0.70	237	0.126	2	1.66	0.015	0.44	0.1	0.03	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 159161	Soil	16	24	0.36	212	0.066	<1	1.46	0.013	0.05	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	0.4
ROS 159168	Soil	21	33	0.46	209	0.076	1	1.57	0.019	0.08	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 159165	Soil	30	21	0.52	223	0.085	<1	1.70	0.011	0.30	0.1	0.02	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 164617	Soil	20	29	0.76	221	0.155	1	1.73	0.016	0.46	0.1	0.01	4.4	0.3	<0.05	5	0.6	<0.2
ROS 159160	Soil	17	25	0.40	223	0.074	<1	1.50	0.015	0.06	0.2	0.03	4.1	0.1	<0.05	4	<0.5	<0.2
ROS 159167	Soil	38	21	0.60	179	0.119	<1	1.66	0.014	0.57	0.3	0.02	5.2	0.5	<0.05	7	<0.5	<0.2
ROS 159163	Soil	13	24	0.38	174	0.069	<1	1.35	0.012	0.05	0.3	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164575	Soil	10	18	0.57	133	0.115	<1	1.26	0.022	0.34	0.2	0.01	3.3	0.2	<0.05	5	<0.5	<0.2
ROS 159159	Soil	21	26	0.42	223	0.083	<1	1.56	0.015	0.05	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 159166	Soil	21	38	0.50	212	0.088	2	1.60	0.020	0.07	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 159162	Soil	15	25	0.43	201	0.073	<1	1.35	0.011	0.04	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160379	Soil	1.5	57.9	7.9	70	0.1	13.5	8.2	224	2.69	4.7	0.7	3.4	2.8	19	0.1	0.3	0.1	65	0.18	0.046
ROS 159158	Soil	0.6	17.3	6.7	44	<0.1	14.2	6.0	220	2.00	4.8	1.2	4.3	6.6	24	<0.1	0.3	0.1	46	0.32	0.041
ROS 164610	Soil	2.0	338.8	8.4	187	0.4	14.2	13.7	409	5.85	2.1	1.6	10.8	6.6	33	0.1	0.2	0.5	137	0.32	0.047
ROS 164615	Soil	1.4	520.2	9.8	279	0.2	226.4	37.2	667	4.41	3.0	2.3	5.1	7.8	93	0.7	0.2	0.1	108	0.79	0.154
ROS 164612	Soil	2.5	379.4	10.6	106	0.2	14.0	10.1	368	5.38	0.9	1.8	2.6	6.5	60	0.2	<0.1	0.2	113	0.24	0.068
ROS 164614	Soil	0.9	35.2	4.8	57	<0.1	36.5	15.8	367	4.47	3.8	1.3	<0.5	8.6	8	<0.1	0.2	<0.1	108	0.15	0.059
ROS 164613	Soil	4.2	523.5	13.3	187	0.3	40.6	32.7	999	5.58	3.4	1.5	5.6	6.0	26	0.6	0.3	0.1	135	0.32	0.099
ROS 164609	Soil	1.7	64.2	9.0	132	0.2	27.8	14.3	435	4.71	4.5	1.0	3.3	3.1	39	0.3	0.3	0.2	104	0.50	0.119
ROS 164611	Soil	24.5	584.4	6.1	97	0.2	8.2	10.3	504	4.75	1.6	1.7	8.3	11.8	38	<0.1	<0.1	0.3	118	0.13	0.079
ROS 164616	Soil	2.5	210.3	8.4	161	0.3	44.1	19.6	785	4.45	3.8	1.6	3.0	8.0	40	0.5	0.2	0.8	84	0.58	0.086
ROS 164573	Soil	1.7	87.9	9.4	85	0.2	31.5	14.5	546	3.11	5.8	1.5	4.7	5.1	28	0.2	0.3	0.2	75	0.35	0.051
ROS 164570	Soil	2.5	158.1	7.3	190	0.3	31.7	15.7	524	4.11	3.5	1.3	6.1	6.7	36	0.6	0.2	0.3	96	0.43	0.069
ROS 164569	Soil	2.1	245.8	8.2	125	0.4	26.3	11.4	415	3.22	4.5	1.1	6.8	4.5	31	0.3	0.2	0.4	72	0.37	0.049
ROS 164311	Soil	2.4	37.7	14.7	75	0.2	37.4	9.2	298	3.13	5.1	0.9	1.2	3.5	39	0.2	0.4	0.1	75	0.35	0.070
ROS 164572	Soil	1.6	80.1	7.1	101	0.1	25.2	11.8	452	3.04	5.0	1.2	1.6	5.6	27	0.3	0.3	0.2	68	0.34	0.049
ROS 164571	Soil	1.5	113.5	6.5	156	0.1	39.3	13.8	288	3.40	4.2	1.7	2.7	13.3	19	0.3	0.2	0.1	55	0.36	0.107
ROS 164568	Soil	1.5	166.2	61.0	83	0.2	37.9	11.6	319	3.89	3.7	1.3	2.8	9.0	35	0.2	0.2	0.9	65	0.28	0.053
ROS 164567	Soil	0.9	160.5	4.1	59	0.1	28.7	13.2	434	3.75	4.2	0.7	1.4	2.3	34	<0.1	0.2	<0.1	87	0.47	0.081
ROS 159263	Soil	0.9	28.3	8.3	56	<0.1	22.6	9.2	351	2.68	8.3	1.8	3.1	9.5	29	<0.1	0.6	0.2	53	0.40	0.059
ROS 159269	Soil	0.4	21.3	6.5	66	<0.1	17.1	8.8	411	2.10	4.9	1.2	2.1	3.1	37	0.2	0.4	0.1	48	0.66	0.070
ROS 160679	Soil	1.2	48.3	45.1	82	<0.1	9.6	11.7	319	3.62	2.8	2.7	5.2	34.4	14	0.1	0.2	0.6	52	0.26	0.085
ROS 164364	Soil	0.5	17.0	6.3	56	<0.1	9.5	6.9	389	2.48	3.6	1.6	1.3	8.6	24	<0.1	0.2	0.1	49	0.30	0.032
ROS 159266	Soil	1.2	27.6	14.8	72	<0.1	17.0	8.3	286	2.79	6.7	2.3	1.7	11.9	28	<0.1	0.3	0.2	50	0.38	0.058
ROS 159267	Soil	1.5	18.5	17.7	97	<0.1	12.2	21.9	1592	3.30	6.7	2.1	0.5	11.7	22	0.2	0.3	0.2	56	0.23	0.099
ROS 159268	Soil	0.8	14.6	16.2	63	0.2	12.0	7.8	300	2.15	4.3	1.3	2.1	5.7	26	0.2	0.3	0.2	43	0.31	0.053
ROS 164365	Soil	0.6	12.3	4.9	59	<0.1	7.1	7.7	488	2.64	2.2	1.0	<0.5	8.0	22	<0.1	0.1	<0.1	44	0.24	0.035
ROS 159265	Soil	1.1	13.9	24.6	85	<0.1	12.7	8.5	302	2.73	4.5	1.6	1.4	15.0	25	0.1	0.3	0.2	45	0.34	0.077
ROS 159270	Soil	0.9	29.6	12.8	71	<0.1	20.4	11.4	472	3.13	9.8	1.4	1.8	8.4	30	<0.1	0.4	0.3	69	0.53	0.041
ROS 160680	Soil	2.0	54.0	13.8	83	<0.1	18.2	14.0	603	3.67	5.4	1.7	7.0	22.9	18	<0.1	0.3	0.6	57	0.24	0.051
ROS 164363	Soil	0.6	12.5	6.0	58	<0.1	7.8	8.0	454	2.90	3.5	1.4	1.1	7.6	25	<0.1	0.2	0.1	55	0.27	0.023

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160379	Soil	11	23	0.56	129	0.124	<1	1.48	0.012	0.24	0.1	0.04	2.7	0.1	0.06	6	0.6	<0.2
ROS 159158	Soil	20	25	0.38	208	0.087	1	1.28	0.015	0.10	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 164610	Soil	26	10	0.99	427	0.216	<1	1.96	0.034	0.86	<0.1	0.01	8.7	0.5	0.39	7	1.2	<0.2
ROS 164615	Soil	31	152	2.89	674	0.229	2	2.75	0.022	0.62	0.1	<0.01	4.6	0.2	<0.05	8	<0.5	<0.2
ROS 164612	Soil	30	25	1.39	366	0.264	<1	2.57	0.030	1.31	<0.1	0.02	3.7	0.7	0.43	7	0.8	<0.2
ROS 164614	Soil	15	68	1.57	122	0.274	<1	2.79	0.010	0.70	0.3	<0.01	5.6	0.5	<0.05	12	<0.5	<0.2
ROS 164613	Soil	23	36	1.27	393	0.244	<1	2.83	0.021	1.09	<0.1	0.01	6.5	0.6	<0.05	9	<0.5	<0.2
ROS 164609	Soil	12	28	1.01	399	0.150	1	2.24	0.037	0.35	0.1	0.01	6.2	0.2	0.08	8	<0.5	<0.2
ROS 164611	Soil	19	12	1.82	382	0.240	<1	3.16	0.015	1.77	0.1	<0.01	7.0	0.7	0.14	10	0.9	0.4
ROS 164616	Soil	26	43	1.11	476	0.186	1	2.15	0.016	0.80	<0.1	0.01	5.3	0.5	<0.05	9	<0.5	<0.2
ROS 164573	Soil	18	41	0.81	296	0.140	1	1.75	0.016	0.24	0.1	0.02	5.1	0.2	<0.05	6	<0.5	<0.2
ROS 164570	Soil	22	36	1.07	357	0.182	<1	2.02	0.025	0.66	<0.1	0.02	4.8	0.3	<0.05	7	<0.5	<0.2
ROS 164569	Soil	15	39	0.84	322	0.130	1	1.78	0.017	0.19	0.1	0.02	3.6	0.2	<0.05	6	0.5	<0.2
ROS 164311	Soil	12	54	0.87	248	0.099	1	1.63	0.027	0.17	0.1	0.02	3.7	0.1	0.07	5	0.8	<0.2
ROS 164572	Soil	18	32	0.76	237	0.145	1	1.79	0.015	0.33	0.1	0.01	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 164571	Soil	54	34	0.89	204	0.145	1	2.02	0.011	0.58	0.1	0.01	3.2	0.4	<0.05	6	<0.5	<0.2
ROS 164568	Soil	25	52	1.07	345	0.179	<1	2.16	0.022	0.56	<0.1	0.01	4.0	0.4	<0.05	7	0.5	<0.2
ROS 164567	Soil	9	88	1.21	517	0.179	1	2.21	0.030	0.38	0.2	<0.01	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 159263	Soil	24	31	0.50	254	0.087	2	1.55	0.018	0.12	0.2	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
ROS 159269	Soil	15	23	0.55	225	0.074	2	1.35	0.024	0.09	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 160679	Soil	56	20	0.33	70	0.051	1	0.93	0.006	0.25	0.9	<0.01	5.0	0.2	<0.05	4	<0.5	<0.2
ROS 164364	Soil	21	17	0.60	175	0.141	<1	1.67	0.027	0.48	<0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
ROS 159266	Soil	37	28	0.57	208	0.088	1	1.75	0.015	0.15	0.1	0.03	5.1	0.2	<0.05	6	<0.5	<0.2
ROS 159267	Soil	27	21	0.65	153	0.119	1	1.86	0.011	0.39	0.1	0.02	3.2	0.4	<0.05	8	<0.5	<0.2
ROS 159268	Soil	29	21	0.46	181	0.069	2	1.50	0.014	0.14	0.1	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 164365	Soil	20	13	0.64	222	0.130	1	1.78	0.018	0.62	<0.1	<0.01	3.3	0.3	<0.05	6	<0.5	<0.2
ROS 159265	Soil	33	22	0.56	134	0.097	2	1.79	0.014	0.28	0.1	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 159270	Soil	24	34	0.81	254	0.112	2	2.07	0.023	0.27	0.2	0.03	4.8	0.2	<0.05	5	<0.5	<0.2
ROS 160680	Soil	25	25	0.79	185	0.131	1	2.32	0.010	0.40	0.6	0.01	3.7	0.5	<0.05	8	<0.5	<0.2
ROS 164363	Soil	16	15	0.75	200	0.167	<1	2.18	0.027	0.62	<0.1	<0.01	5.1	0.3	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159271	Soil	0.9	28.0	12.0	72	0.1	20.4	11.6	468	3.12	9.3	1.4	2.9	7.9	30	<0.1	0.5	0.3	66	0.56	0.046
ROS 160682	Soil	0.6	26.2	7.6	78	0.1	19.7	10.4	569	2.57	7.3	1.2	2.0	3.1	45	0.3	0.5	0.2	55	0.67	0.072
ROS 160683	Soil	0.8	24.0	11.5	86	<0.1	21.9	16.2	749	3.76	7.0	0.9	1.2	13.7	34	0.1	0.4	0.1	71	0.58	0.064
ROS 164362	Soil	0.7	11.7	6.3	51	<0.1	8.6	7.8	377	2.53	4.5	2.0	0.9	8.8	22	<0.1	0.2	0.1	48	0.26	0.026
ROS 151257	Soil	0.5	20.8	11.5	137	<0.1	16.7	12.3	335	3.62	8.0	0.6	3.0	4.2	104	0.1	1.4	0.1	85	0.98	0.117
ROS 151261	Soil	0.4	25.9	8.1	63	<0.1	20.0	10.4	374	2.51	9.8	1.1	3.8	4.0	39	0.2	0.8	0.1	56	0.73	0.063
ROS 164372	Soil	1.0	13.2	5.8	91	<0.1	10.3	6.8	729	2.08	4.4	19.3	2.3	6.0	76	<0.1	0.3	<0.1	35	1.69	0.067
ROS 164368	Soil	0.4	162.5	34.1	82	0.6	11.3	11.5	780	4.05	4.0	3.2	6.5	37.8	34	<0.1	1.1	2.2	47	0.53	0.076
ROS 151260	Soil	0.3	25.0	7.6	66	<0.1	16.0	8.6	196	2.38	7.4	1.3	1.8	3.8	42	0.1	0.8	0.1	57	0.82	0.063
ROS 151258	Soil	0.4	17.6	7.7	110	<0.1	10.8	10.9	341	3.03	10.6	0.5	2.4	3.4	92	<0.1	1.1	<0.1	71	0.94	0.126
ROS 164373	Soil	0.9	14.8	11.0	73	<0.1	13.6	7.4	464	2.66	5.0	3.8	1.0	16.0	30	<0.1	0.4	0.2	46	0.56	0.040
ROS 164369	Soil	1.1	40.3	70.4	130	0.2	9.6	10.8	866	3.91	4.1	2.6	2.7	37.2	20	0.2	0.5	0.4	42	0.43	0.068
ROS 151256	Soil	0.9	82.4	13.8	79	0.2	15.1	9.2	448	3.13	5.6	1.1	5.4	5.5	26	0.1	0.6	0.1	62	0.41	0.034
ROS 151259	Soil	0.3	27.3	8.8	81	0.1	14.0	8.7	273	2.69	9.5	0.7	1.7	4.1	36	0.1	0.8	0.1	58	0.73	0.060
ROS 164370	Soil	0.8	18.5	7.5	57	<0.1	15.6	7.3	455	2.59	6.0	1.1	0.9	14.7	19	<0.1	0.4	0.1	48	0.28	0.035
ROS 164367	Soil	1.8	32.4	18.3	90	0.1	9.6	14.1	455	3.55	15.1	3.2	<0.5	14.2	42	<0.1	0.6	0.4	55	0.25	0.053
ROS 151255	Soil	1.7	24.6	12.4	89	<0.1	13.4	18.2	1351	3.87	10.3	0.6	0.5	5.7	25	0.2	0.8	0.2	75	0.24	0.091
ROS 151262	Soil	0.6	22.3	8.2	62	<0.1	21.1	9.6	407	2.32	8.2	0.7	2.9	3.0	40	0.2	0.7	0.1	51	0.80	0.069
ROS 164371	Soil	1.1	21.2	2.9	38	<0.1	10.2	3.1	899	0.65	1.4	1.1	2.1	1.1	130	0.4	0.3	<0.1	13	2.70	0.097
ROS 164366	Soil	0.8	17.3	4.9	64	<0.1	6.2	9.9	654	3.39	1.8	2.1	1.0	11.9	24	<0.1	<0.1	0.1	54	0.27	0.039
ROS 151105	Soil	0.4	29.9	9.1	53	0.1	23.8	9.2	358	2.41	7.2	1.4	3.2	3.2	47	0.1	0.6	0.1	52	0.95	0.048
ROS 151104	Soil	0.5	38.2	8.4	64	0.1	20.6	9.4	328	2.33	6.6	1.8	5.3	2.4	50	0.3	0.7	0.1	47	1.21	0.064
ROS 173365	Soil	0.8	42.9	20.8	81	0.3	15.3	11.1	767	3.12	6.0	0.9	3.2	4.4	36	0.2	5.8	0.4	54	0.26	0.061
ROS 151251	Soil	0.8	33.0	13.3	120	0.1	18.6	15.4	857	3.66	5.8	0.9	4.8	7.8	63	0.1	1.4	0.6	73	0.54	0.042
ROS 151107	Soil	0.7	25.7	11.4	90	<0.1	28.7	12.6	403	3.56	9.8	0.7	2.5	4.2	47	0.1	0.8	0.1	79	0.54	0.073
ROS 151102	Soil	1.2	31.2	13.2	74	0.1	22.6	10.0	298	2.92	7.6	0.8	9.3	5.4	37	0.1	0.8	0.2	62	0.62	0.057
ROS 151100	Soil	1.5	21.8	10.3	70	<0.1	17.1	10.8	214	2.91	6.4	0.8	10.4	5.3	24	<0.1	0.7	0.1	68	0.33	0.021
ROS 151252	Soil	0.8	27.3	15.2	81	<0.1	14.0	7.5	224	3.17	6.6	2.0	1.3	12.3	15	0.1	2.3	0.1	57	0.20	0.028
ROS 151106	Soil	0.5	29.2	8.3	55	<0.1	21.0	9.2	348	2.36	7.5	1.3	5.6	3.0	44	0.2	0.6	0.1	52	0.97	0.055
ROS 173367	Soil	1.2	17.3	10.4	73	0.1	15.2	10.0	538	2.73	4.9	0.3	0.6	2.1	30	0.1	0.4	0.1	65	0.25	0.047

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 159271	Soil	23	34	0.80	263	0.118	3	2.03	0.025	0.29	0.2	0.03	4.6	0.2	<0.05	6	<0.5	<0.2
ROS 160682	Soil	17	27	0.62	283	0.075	2	1.70	0.027	0.09	0.1	0.05	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 160683	Soil	45	65	1.27	183	0.150	2	2.32	0.018	0.86	0.2	0.02	5.0	0.6	<0.05	7	<0.5	<0.2
ROS 164362	Soil	23	17	0.62	156	0.125	1	1.86	0.021	0.37	0.1	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
ROS 151257	Soil	13	33	1.02	277	0.116	1	2.81	0.015	0.07	0.3	0.03	4.2	<0.1	<0.05	10	<0.5	<0.2
ROS 151261	Soil	15	26	0.51	325	0.071	2	1.59	0.022	0.06	0.2	0.04	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 164372	Soil	28	16	0.44	140	0.054	4	1.12	0.017	0.15	0.1	0.07	3.2	0.1	0.09	5	0.7	<0.2
ROS 164368	Soil	94	15	0.90	68	0.013	1	2.04	0.007	0.10	0.6	0.05	4.6	<0.1	<0.05	9	<0.5	<0.2
ROS 151260	Soil	15	26	0.48	311	0.072	2	1.55	0.022	0.06	0.3	0.06	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 151258	Soil	12	24	0.81	225	0.108	1	2.00	0.017	0.06	0.2	0.08	3.7	<0.1	<0.05	9	<0.5	<0.2
ROS 164373	Soil	57	24	0.40	150	0.046	2	1.48	0.010	0.16	0.2	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 164369	Soil	128	12	0.89	83	0.101	<1	2.12	0.007	0.62	0.2	0.04	5.5	0.5	<0.05	9	<0.5	<0.2
ROS 151256	Soil	28	26	0.65	345	0.048	1	1.91	0.013	0.05	0.2	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
ROS 151259	Soil	29	23	0.62	364	0.056	2	1.64	0.020	0.05	0.2	0.11	4.2	<0.1	<0.05	6	0.6	<0.2
ROS 164370	Soil	29	21	0.55	139	0.076	2	1.35	0.014	0.23	0.2	<0.01	4.3	<0.1	<0.05	5	0.6	<0.2
ROS 164367	Soil	39	13	0.79	162	0.104	1	1.78	0.017	0.76	<0.1	0.06	5.3	0.4	0.14	7	0.5	<0.2
ROS 151255	Soil	9	24	0.62	189	0.055	1	1.79	0.010	0.09	0.4	<0.01	3.2	<0.1	<0.05	8	<0.5	<0.2
ROS 151262	Soil	12	27	0.56	318	0.062	2	1.28	0.030	0.05	0.3	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164371	Soil	13	9	0.27	300	0.018	5	0.48	0.021	0.03	<0.1	0.09	1.3	<0.1	0.19	2	0.7	<0.2
ROS 164366	Soil	23	9	0.93	168	0.180	<1	2.07	0.013	1.01	<0.1	<0.01	4.3	0.4	<0.05	8	<0.5	<0.2
ROS 151105	Soil	12	27	0.57	308	0.070	2	1.53	0.032	0.06	0.7	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151104	Soil	13	27	0.55	354	0.051	2	1.46	0.025	0.05	0.3	0.04	3.4	<0.1	<0.05	5	0.8	<0.2
ROS 173365	Soil	15	16	0.51	319	0.019	4	1.75	0.010	0.15	0.1	0.11	3.9	<0.1	<0.05	5	0.8	<0.2
ROS 151251	Soil	22	24	1.07	299	0.119	1	2.29	0.011	0.12	0.3	0.04	4.2	<0.1	<0.05	9	<0.5	<0.2
ROS 151107	Soil	13	42	0.89	227	0.106	2	2.15	0.019	0.12	0.3	0.02	6.3	<0.1	<0.05	8	0.5	<0.2
ROS 151102	Soil	17	35	0.68	296	0.073	1	1.73	0.023	0.07	0.6	0.06	4.9	<0.1	<0.05	5	0.5	<0.2
ROS 151100	Soil	13	34	0.64	202	0.067	<1	1.91	0.013	0.08	0.2	0.02	4.1	<0.1	<0.05	7	<0.5	<0.2
ROS 151252	Soil	50	24	0.64	264	0.023	2	1.72	0.011	0.07	0.2	0.01	4.2	<0.1	<0.05	7	<0.5	<0.2
ROS 151106	Soil	12	27	0.55	257	0.066	2	1.46	0.027	0.05	0.8	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 173367	Soil	6	25	0.61	264	0.066	<1	1.81	0.011	0.08	0.1	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173368	Soil		0.8	29.5	10.1	61	0.2	25.2	9.1	334	2.68	9.0	0.8	8.3	4.7	33	<0.1	0.7	0.2	58	0.48	0.062
ROS 151253	Soil		2.2	60.2	6.7	129	0.2	19.7	19.5	531	5.01	15.9	0.8	13.3	4.3	52	0.1	1.0	<0.1	116	0.66	0.087
ROS 151103	Soil		0.8	44.0	10.7	86	<0.1	21.9	11.7	332	2.99	11.9	0.8	5.3	4.9	55	<0.1	0.9	0.1	71	0.72	0.067
ROS 151101	Soil		0.6	40.1	13.0	104	0.2	18.4	11.1	495	3.33	7.7	0.9	7.8	5.8	32	0.2	3.7	0.2	69	0.80	0.073
ROS 173366	Soil		0.9	17.0	9.2	70	0.1	21.9	12.1	754	2.72	5.6	0.5	1.9	3.1	21	<0.1	0.5	0.1	72	0.23	0.046
ROS 151254	Soil		0.6	39.3	9.3	152	<0.1	20.1	19.2	571	4.67	13.7	0.6	1.1	4.5	98	<0.1	1.8	<0.1	98	0.80	0.127
ROS 160666	Soil		0.5	22.0	7.7	50	<0.1	14.7	6.3	241	2.25	4.8	1.6	0.9	8.4	25	0.1	0.4	0.2	49	0.33	0.041
ROS 164869	Soil		0.3	8.0	4.7	68	<0.1	3.4	5.7	388	1.85	0.6	0.9	1.0	7.2	7	<0.1	<0.1	<0.1	24	0.09	0.045
ROS 164853	Soil		1.0	13.9	7.5	45	<0.1	11.5	4.7	212	1.96	2.8	0.7	3.4	6.2	20	<0.1	0.3	0.1	44	0.21	0.016
ROS 164310	Soil		0.6	90.5	9.6	59	<0.1	198.9	27.8	649	4.97	3.5	1.9	2.5	6.4	87	<0.1	0.3	<0.1	129	0.97	0.211
ROS 160665	Soil		0.7	14.7	8.0	47	<0.1	15.6	7.6	245	2.43	5.3	0.9	2.6	7.3	21	<0.1	0.4	0.1	54	0.26	0.028
ROS 164867	Soil		0.7	7.7	5.3	44	<0.1	6.7	5.2	226	1.91	1.3	1.1	1.2	16.6	11	<0.1	0.1	<0.1	22	0.15	0.058
ROS 164855	Soil		0.6	27.3	9.2	55	<0.1	21.7	8.5	307	2.55	6.4	0.9	1.5	6.5	32	0.1	0.5	0.1	53	0.44	0.048
ROS 164313	Soil		0.8	28.6	6.5	63	<0.1	23.2	9.5	386	3.27	5.2	0.9	1.8	3.3	27	0.1	0.3	0.1	72	0.41	0.058
ROS 160663	Soil		1.1	12.7	7.8	48	<0.1	13.8	6.6	361	2.45	5.2	0.7	4.9	5.4	19	<0.1	0.3	0.1	53	0.23	0.024
ROS 164854	Soil		0.7	19.1	7.0	43	<0.1	13.0	6.5	246	2.09	3.3	1.0	1.2	7.7	20	<0.1	0.4	0.1	46	0.22	0.026
ROS 164871	Soil		0.7	35.4	9.2	64	0.1	28.6	10.3	403	2.62	7.9	1.2	3.3	5.6	48	0.2	0.6	0.2	55	0.93	0.078
ROS 164312	Soil		0.7	28.8	4.7	89	<0.1	22.3	15.7	467	4.04	3.0	0.3	<0.5	1.5	37	<0.1	0.2	<0.1	115	0.61	0.091
ROS 160664	Soil		0.7	10.3	6.3	38	<0.1	9.5	4.7	227	1.73	3.3	0.8	2.2	6.2	13	<0.1	0.2	0.1	35	0.16	0.023
ROS 164852	Soil		1.1	11.1	7.7	40	<0.1	10.4	4.5	214	1.93	4.6	0.5	<0.5	4.2	13	<0.1	0.4	0.1	45	0.12	0.022
ROS 164870	Soil		0.8	33.0	9.6	67	0.1	23.4	9.6	438	2.44	7.7	1.0	2.6	5.5	37	0.3	0.7	0.2	50	0.80	0.073
ROS 164309	Soil		1.3	18.3	8.1	38	<0.1	15.4	7.2	322	2.38	5.2	0.5	18.0	2.4	17	<0.1	0.3	0.1	49	0.21	0.023
ROS 164841	Soil		1.0	9.9	9.3	40	<0.1	10.2	5.9	492	2.19	5.5	0.6	1.3	4.8	12	<0.1	0.4	0.4	50	0.13	0.021
ROS 164848	Soil		0.9	8.4	7.3	61	<0.1	9.6	10.2	776	2.79	4.9	1.0	<0.5	14.6	14	0.1	0.3	0.1	41	0.16	0.047
ROS 164845	Soil		0.5	9.8	7.3	69	<0.1	7.8	7.0	698	2.84	4.0	1.8	<0.5	28.3	9	<0.1	0.4	0.3	36	0.09	0.025
ROS 149569	Soil		0.3	29.2	2.0	68	<0.1	9.9	14.4	1387	2.22	2.7	0.6	1.0	3.6	22	<0.1	0.2	<0.1	49	0.61	0.126
ROS 164850	Soil		2.6	27.0	6.6	40	<0.1	6.8	4.8	270	2.07	4.6	1.6	0.7	11.3	11	<0.1	0.3	0.2	25	0.09	0.010
ROS 164847	Soil		1.0	16.6	7.0	58	<0.1	7.9	7.3	597	2.56	4.1	1.4	1.6	14.1	16	<0.1	0.3	0.1	32	0.15	0.028
ROS 164843	Soil		1.0	9.8	8.0	51	<0.1	11.7	6.3	283	2.68	7.4	0.8	1.9	6.6	11	<0.1	0.5	0.2	51	0.11	0.028
ROS 149575	Soil		0.3	8.5	5.9	92	<0.1	15.3	11.9	764	2.67	5.0	0.4	<0.5	2.8	22	<0.1	0.3	<0.1	48	0.42	0.060

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173368	Soil	16	34	0.62	257	0.077	<1	1.39	0.029	0.06	0.2	0.08	4.8	<0.1	<0.05	5	0.5	<0.2
ROS 151253	Soil	10	34	1.59	280	0.025	<1	3.08	0.010	0.09	0.3	0.25	6.7	<0.1	<0.05	13	<0.5	<0.2
ROS 151103	Soil	14	45	0.78	261	0.112	2	1.83	0.031	0.09	1.0	0.05	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 151101	Soil	18	36	0.84	331	0.057	1	1.99	0.019	0.14	0.2	0.32	5.4	<0.1	<0.05	7	<0.5	<0.2
ROS 173366	Soil	9	38	0.64	318	0.063	<1	2.09	0.014	0.07	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 151254	Soil	16	33	1.44	256	0.116	1	2.76	0.017	0.04	0.2	0.02	6.8	<0.1	<0.05	12	0.6	<0.2
ROS 160666	Soil	25	26	0.46	219	0.099	1	1.45	0.024	0.10	0.2	0.03	4.1	<0.1	<0.05	4	0.5	<0.2
ROS 164869	Soil	17	7	0.44	50	0.095	1	1.27	0.008	0.47	<0.1	<0.01	2.8	0.3	<0.05	5	<0.5	<0.2
ROS 164853	Soil	18	19	0.38	145	0.090	1	1.24	0.013	0.11	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164310	Soil	25	163	3.26	591	0.172	2	2.88	0.027	0.28	0.1	0.01	5.6	<0.1	<0.05	9	<0.5	<0.2
ROS 160665	Soil	22	28	0.47	176	0.094	2	1.64	0.020	0.07	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164867	Soil	31	10	0.28	74	0.045	<1	1.03	0.010	0.25	<0.1	<0.01	3.4	0.1	<0.05	4	<0.5	<0.2
ROS 164855	Soil	19	29	0.51	241	0.088	2	1.68	0.029	0.07	0.1	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 164313	Soil	12	37	0.78	317	0.131	<1	1.79	0.024	0.17	0.1	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
ROS 160663	Soil	16	25	0.45	191	0.084	<1	1.47	0.013	0.08	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 164854	Soil	21	23	0.42	155	0.104	<1	1.32	0.022	0.12	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 164871	Soil	18	29	0.67	286	0.085	3	1.38	0.033	0.14	0.2	0.02	3.8	<0.1	<0.05	4	0.9	<0.2
ROS 164312	Soil	6	45	1.16	371	0.178	<1	2.25	0.049	0.33	<0.1	<0.01	6.2	0.2	<0.05	7	<0.5	<0.2
ROS 160664	Soil	15	17	0.32	120	0.059	<1	0.98	0.013	0.07	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
ROS 164852	Soil	10	18	0.32	130	0.059	1	1.04	0.010	0.07	0.1	0.01	1.7	<0.1	<0.05	4	0.6	<0.2
ROS 164870	Soil	17	25	0.60	265	0.062	2	1.20	0.020	0.12	0.2	0.03	3.3	0.1	<0.05	4	0.7	<0.2
ROS 164309	Soil	14	28	0.47	148	0.080	<1	1.35	0.014	0.10	0.1	0.02	3.0	<0.1	<0.05	5	0.6	<0.2
ROS 164841	Soil	12	18	0.31	218	0.045	<1	1.12	0.008	0.07	0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164848	Soil	17	17	0.46	160	0.078	<1	1.29	0.010	0.38	0.2	<0.01	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 164845	Soil	36	16	0.51	118	0.088	<1	1.48	0.010	0.42	0.1	0.01	4.1	0.2	<0.05	6	0.5	<0.2
ROS 149569	Soil	12	9	2.62	115	0.193	<1	2.33	0.010	1.07	<0.1	<0.01	4.0	0.3	<0.05	6	<0.5	<0.2
ROS 164850	Soil	17	13	0.32	120	0.032	<1	1.00	0.006	0.11	0.1	<0.01	1.8	<0.1	<0.05	3	0.6	<0.2
ROS 164847	Soil	14	13	0.29	172	0.022	1	1.17	0.007	0.23	<0.1	<0.01	3.5	0.2	<0.05	4	0.6	<0.2
ROS 164843	Soil	8	20	0.36	166	0.042	<1	1.46	0.006	0.10	0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
ROS 149575	Soil	6	26	1.30	174	0.160	<1	1.79	0.007	0.55	<0.1	0.01	5.1	0.2	<0.05	7	0.8	<0.2

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164851	Soil	1.1	14.0	8.6	45	<0.1	14.2	5.9	245	2.42	7.4	0.5	<0.5	5.0	10	<0.1	0.5	0.2	52	0.10	0.017
ROS 164844	Soil	0.4	9.6	6.1	70	<0.1	7.0	7.2	695	2.80	3.7	1.9	<0.5	28.8	9	<0.1	0.4	0.3	35	0.09	0.026
ROS 164842	Soil	0.9	10.8	9.0	55	<0.1	12.4	8.6	418	2.87	6.4	1.0	1.5	10.5	11	<0.1	0.5	0.2	50	0.11	0.037
ROS 149572	Soil	0.1	29.8	2.8	84	<0.1	75.1	26.9	772	2.91	3.2	0.2	<0.5	1.1	26	<0.1	0.3	<0.1	102	0.79	0.059
ROS 164849	Soil	14.1	15.1	4.7	55	<0.1	4.9	5.6	1091	2.15	1.3	2.0	1.3	15.1	36	0.1	0.2	3.3	16	0.17	0.044
ROS 164846	Soil	1.0	13.2	9.0	57	<0.1	13.0	8.4	390	2.83	6.6	0.8	1.1	8.8	11	<0.1	0.5	0.2	53	0.11	0.023
ROS 164840	Soil	1.2	23.2	10.0	51	<0.1	21.7	8.9	338	2.88	10.1	0.8	2.5	9.4	16	<0.1	0.7	0.2	62	0.14	0.018
ROS 149573	Soil	0.2	33.2	3.0	86	<0.1	82.7	27.0	737	2.96	3.1	0.2	1.5	1.1	29	<0.1	0.2	<0.1	100	0.82	0.057
ROS 160467	Soil	0.4	31.8	7.3	36	0.1	8.3	3.7	77	1.24	3.0	0.8	2.3	0.7	14	0.2	0.2	0.1	21	0.13	0.040
ROS 159261	Soil	1.0	21.5	8.8	60	<0.1	13.8	7.9	306	2.58	5.4	2.1	0.8	13.3	27	<0.1	0.4	0.2	44	0.34	0.060
ROS 159259	Soil	0.7	17.1	7.6	47	<0.1	14.0	7.2	220	2.18	6.1	1.1	1.2	5.2	25	<0.1	0.4	0.2	49	0.30	0.045
ROS 159253	Soil	0.5	13.6	6.5	48	<0.1	10.6	6.2	236	1.95	4.6	1.2	1.8	6.4	23	<0.1	0.3	0.1	43	0.30	0.041
ROS 160465	Soil	1.0	45.2	8.9	78	0.1	17.1	9.9	227	2.60	5.3	1.0	5.9	4.6	20	0.2	0.4	0.2	61	0.23	0.062
ROS 159262	Soil	0.9	25.9	8.8	55	<0.1	19.8	8.5	314	2.49	7.1	1.9	1.1	9.4	27	<0.1	0.5	0.2	48	0.35	0.054
ROS 159257	Soil	0.6	17.5	7.0	44	<0.1	14.5	6.2	199	2.00	5.4	1.1	4.0	4.8	24	<0.1	0.4	0.1	45	0.31	0.046
ROS 159251	Soil	0.6	12.6	7.4	44	<0.1	12.3	6.2	204	2.02	5.5	1.0	4.8	5.2	18	<0.1	0.4	0.1	45	0.22	0.035
ROS 160468	Soil	1.3	32.6	6.3	42	0.1	8.1	4.1	142	1.60	2.5	0.6	1.8	1.6	15	0.1	0.2	<0.1	34	0.16	0.031
ROS 159260	Soil	0.9	15.1	8.8	47	<0.1	15.0	7.0	196	2.29	6.9	0.9	2.2	4.6	24	0.1	0.3	0.1	51	0.28	0.046
ROS 159255	Soil	0.6	13.7	7.1	46	<0.1	12.8	6.4	186	2.02	5.6	0.8	0.8	4.6	19	0.1	0.3	0.1	45	0.24	0.046
ROS 159252	Soil	0.7	10.1	6.8	42	<0.1	9.2	5.5	204	1.82	5.0	0.8	7.8	3.4	17	<0.1	0.3	0.2	42	0.19	0.030
ROS 160466	Soil	1.5	51.8	33.4	101	0.4	13.8	7.4	185	2.29	3.3	1.2	2.3	2.0	17	0.5	0.2	0.5	46	0.16	0.052
ROS 159258	Soil	0.8	18.6	8.4	48	<0.1	16.3	7.2	223	2.33	6.7	1.1	2.0	5.1	26	<0.1	0.5	0.2	55	0.30	0.041
ROS 159256	Soil	0.6	22.1	7.9	52	<0.1	17.7	7.6	228	2.21	6.0	1.4	1.6	5.5	27	<0.1	0.5	0.1	50	0.36	0.053
ROS 159254	Soil	0.8	19.7	9.2	52	<0.1	15.2	6.7	208	2.47	6.3	1.5	1.4	5.6	23	0.1	0.4	0.2	53	0.27	0.044
ROS 160474	Soil	0.8	26.6	6.3	71	<0.1	19.9	12.2	454	3.18	4.1	1.1	1.2	6.4	29	<0.1	0.2	0.2	71	0.38	0.057
ROS 160476	Soil	1.5	33.1	89.0	93	0.2	12.9	7.0	247	2.61	4.4	1.5	<0.5	5.7	20	0.2	0.3	0.3	61	0.14	0.031
ROS 160151	Soil	1.6	49.0	6.9	78	0.2	16.0	11.8	375	2.51	3.2	0.8	2.5	2.9	29	0.2	0.2	0.2	60	0.47	0.063
ROS 160155	Soil	0.8	15.2	9.0	70	<0.1	11.8	8.2	383	2.44	4.2	0.8	1.2	3.2	19	0.2	0.2	0.1	56	0.22	0.040
ROS 160472	Soil	1.0	20.0	10.5	62	0.1	16.6	7.9	210	2.50	5.3	1.0	1.5	3.4	22	0.3	0.3	0.1	47	0.25	0.053
ROS 160475	Soil	0.9	25.5	6.9	50	0.1	19.1	9.1	287	2.74	4.4	1.3	1.5	4.8	22	0.2	0.3	0.2	69	0.23	0.046

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164851	Soil	14	24	0.42	141	0.055	<1	1.45	0.006	0.05	0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164844	Soil	37	14	0.51	115	0.090	<1	1.43	0.007	0.46	0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 164842	Soil	10	22	0.50	159	0.070	<1	1.69	0.009	0.19	<0.1	<0.01	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 149572	Soil	3	179	3.86	306	0.235	<1	3.13	0.014	1.26	<0.1	0.03	6.9	0.3	<0.05	9	<0.5	<0.2
ROS 164849	Soil	26	5	0.26	177	0.014	1	0.89	0.005	0.32	0.1	<0.01	3.5	0.2	<0.05	3	<0.5	<0.2
ROS 164846	Soil	9	27	0.47	120	0.082	<1	1.70	0.008	0.21	0.1	0.02	2.8	0.1	<0.05	6	0.7	<0.2
ROS 164840	Soil	13	38	0.50	194	0.072	<1	1.82	0.012	0.07	0.1	0.02	3.3	<0.1	<0.05	6	0.6	<0.2
ROS 149573	Soil	3	197	3.97	324	0.229	<1	3.28	0.014	1.26	0.1	0.02	6.2	0.3	<0.05	9	<0.5	<0.2
ROS 160467	Soil	8	19	0.22	94	0.044	<1	0.82	0.009	0.06	0.2	0.05	1.6	<0.1	0.08	4	0.7	<0.2
ROS 159261	Soil	27	22	0.48	213	0.070	<1	1.40	0.011	0.19	0.1	0.03	3.9	0.1	<0.05	5	0.7	<0.2
ROS 159259	Soil	14	27	0.43	225	0.068	2	1.40	0.011	0.05	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 159253	Soil	17	21	0.40	179	0.078	<1	1.15	0.015	0.08	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160465	Soil	15	24	0.62	189	0.116	1	1.52	0.016	0.24	0.1	0.03	3.0	0.2	<0.05	5	0.6	<0.2
ROS 159262	Soil	22	28	0.48	242	0.073	<1	1.35	0.012	0.10	0.1	0.03	4.1	<0.1	<0.05	4	0.6	<0.2
ROS 159257	Soil	14	25	0.41	204	0.066	<1	1.27	0.013	0.04	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159251	Soil	15	23	0.40	192	0.059	<1	1.22	0.009	0.04	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 160468	Soil	7	15	0.34	88	0.069	1	0.92	0.010	0.12	0.1	0.03	1.8	0.1	0.06	4	<0.5	<0.2
ROS 159260	Soil	14	25	0.42	207	0.064	1	1.48	0.011	0.05	0.1	0.03	2.9	<0.1	<0.05	5	0.7	<0.2
ROS 159255	Soil	13	23	0.39	166	0.062	<1	1.28	0.010	0.04	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159252	Soil	13	18	0.31	143	0.067	<1	1.12	0.008	0.06	0.2	0.02	1.8	<0.1	<0.05	4	0.7	<0.2
ROS 160466	Soil	13	22	0.45	130	0.090	<1	1.34	0.011	0.16	0.1	0.06	2.2	0.1	<0.05	6	0.9	<0.2
ROS 159258	Soil	15	28	0.43	228	0.069	<1	1.42	0.011	0.05	0.1	0.04	3.6	<0.1	<0.05	5	0.7	<0.2
ROS 159256	Soil	16	26	0.44	253	0.068	<1	1.33	0.017	0.05	0.2	0.06	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 159254	Soil	20	26	0.41	235	0.068	<1	1.69	0.011	0.06	0.1	0.04	3.0	<0.1	<0.05	5	0.7	<0.2
ROS 160474	Soil	26	33	0.94	235	0.165	<1	1.99	0.013	0.53	0.1	0.02	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 160476	Soil	26	23	0.62	144	0.139	<1	1.90	0.011	0.22	0.2	0.03	2.7	0.2	<0.05	8	0.6	<0.2
ROS 160151	Soil	14	24	0.64	185	0.097	<1	1.36	0.016	0.23	0.3	0.04	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 160155	Soil	12	21	0.57	127	0.093	<1	1.53	0.009	0.11	0.2	0.03	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 160472	Soil	17	26	0.53	170	0.092	<1	1.58	0.010	0.13	0.2	0.03	2.7	0.1	<0.05	5	0.5	<0.2
ROS 160475	Soil	25	36	0.69	214	0.144	<1	1.78	0.012	0.27	0.1	0.03	3.2	0.2	<0.05	7	0.6	<0.2

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160153	Soil		1.0	21.2	8.0	85	<0.1	15.7	10.2	380	2.80	5.4	0.8	3.3	5.2	28	0.1	0.3	0.1	63	0.37	0.070
ROS 160154	Soil		1.0	17.8	9.7	80	0.1	12.6	10.1	357	2.56	5.5	1.1	3.6	3.3	21	0.3	0.2	0.2	60	0.25	0.053
ROS 160469	Soil		1.1	20.0	9.1	81	0.1	14.3	9.4	349	2.65	4.4	1.7	1.7	6.4	23	<0.1	0.2	0.2	54	0.28	0.057
ROS 160473	Soil		0.9	25.1	8.6	71	<0.1	17.7	8.4	275	2.74	5.1	1.0	2.0	4.3	23	0.1	0.3	0.2	65	0.26	0.053
ROS 160148	Soil		1.4	61.3	7.0	148	<0.1	14.3	18.8	1082	5.32	2.8	1.1	1.3	7.3	40	0.3	0.1	<0.1	134	0.73	0.058
ROS 160152	Soil		0.9	22.4	7.2	68	0.1	15.6	11.0	320	2.47	6.7	0.7	1.5	2.4	27	0.3	0.3	0.1	57	0.36	0.070
ROS 160470	Soil		0.8	19.1	11.9	72	0.2	16.0	7.7	226	2.31	4.5	1.5	0.8	4.6	21	0.2	0.3	0.1	42	0.27	0.048
ROS 160471	Soil		0.8	23.6	9.9	72	<0.1	17.0	10.2	329	2.51	4.5	1.3	0.6	4.9	23	0.2	0.3	0.2	53	0.27	0.040
ROS 160149	Soil		1.5	46.6	5.6	105	0.2	15.4	17.4	799	4.83	3.6	0.9	6.8	4.8	23	0.2	0.2	<0.1	124	0.39	0.044
ROS 160150	Soil		1.4	62.4	5.8	100	0.2	17.6	14.7	727	3.68	3.6	1.1	6.4	4.8	32	0.2	0.3	<0.1	92	0.55	0.078
ROS 165612	Soil		0.6	21.5	8.8	56	<0.1	18.7	10.3	474	2.32	7.1	1.3	1.6	2.9	42	0.1	0.6	0.2	53	0.84	0.057
ROS 165614	Soil		0.7	23.8	8.7	62	0.1	19.3	8.8	390	2.40	7.3	1.0	2.4	2.6	42	0.2	0.7	0.2	55	0.87	0.060
ROS 165618	Soil		0.5	25.2	9.2	54	0.1	20.0	8.9	476	2.36	7.8	1.2	2.8	2.2	54	0.2	0.7	0.1	51	1.21	0.057
ROS 149570	Soil		0.4	39.0	6.1	59	0.3	14.2	7.6	417	2.26	4.3	1.3	2.7	4.5	39	<0.1	0.3	<0.1	49	0.50	0.078
ROS 165611	Soil		0.7	19.6	8.1	55	0.1	16.3	9.5	386	2.21	7.0	1.1	3.0	2.9	41	0.2	0.5	0.1	52	0.78	0.052
ROS 165613	Soil		0.7	20.5	8.3	56	0.1	18.1	9.3	458	2.31	7.2	1.0	1.8	3.2	43	0.2	0.7	0.1	55	0.82	0.058
ROS 165617	Soil		0.5	26.0	9.0	56	0.1	20.9	8.9	445	2.37	7.8	1.1	1.8	2.1	53	0.1	0.7	0.1	49	1.17	0.056
ROS 165621	Soil		0.7	34.1	9.0	51	<0.1	26.5	10.0	428	2.49	10.8	0.5	7.7	3.1	49	0.2	0.5	0.1	58	1.83	0.051
ROS 160160	Soil		0.9	17.4	7.5	68	<0.1	15.2	8.9	275	2.45	5.7	0.8	3.8	3.0	25	0.2	0.4	0.1	61	0.35	0.058
ROS 160157	Soil		0.9	17.9	8.4	75	<0.1	14.9	9.2	290	2.82	5.6	1.1	3.2	4.5	22	0.1	0.3	0.1	60	0.26	0.059
ROS 165616	Soil		0.6	26.6	8.2	68	0.1	17.4	8.2	488	2.23	7.5	1.1	5.6	2.0	55	0.2	0.9	0.1	49	1.19	0.074
ROS 165620	Soil		0.7	32.0	9.6	54	<0.1	25.8	10.1	487	2.55	9.5	0.6	3.7	3.1	38	0.1	0.6	0.2	59	1.25	0.049
ROS 160156	Soil		0.7	12.9	7.8	61	<0.1	10.3	4.8	166	2.04	4.3	0.8	1.5	1.9	19	0.2	0.3	0.1	46	0.21	0.047
ROS 160158	Soil		0.8	15.2	7.5	67	0.1	14.5	11.1	392	2.59	5.4	0.9	4.2	3.2	23	0.1	0.3	0.1	61	0.29	0.052
ROS 165615	Soil		0.7	24.7	9.1	63	0.1	17.2	9.6	451	2.38	7.4	1.0	1.6	2.9	46	0.2	0.7	0.1	58	0.97	0.058
ROS 165619	Soil		0.6	27.7	10.8	62	0.1	23.7	10.3	524	2.59	8.4	0.9	3.8	2.7	49	0.1	0.6	0.1	54	1.03	0.061
ROS 163927	Soil		0.8	23.5	8.4	62	<0.1	21.4	10.4	407	2.92	7.4	1.3	2.7	10.6	19	<0.1	0.4	0.2	61	0.22	0.038
ROS 163931	Soil		0.8	10.6	8.7	59	<0.1	9.6	11.7	1091	2.70	4.1	1.0	1.9	9.6	15	<0.1	0.3	0.3	53	0.19	0.047
ROS 163934	Soil		0.9	11.9	8.8	44	<0.1	13.0	5.6	269	2.22	5.0	0.7	7.6	5.6	20	<0.1	0.3	0.2	48	0.23	0.029
ROS 164023	Soil		0.7	32.5	8.3	56	<0.1	23.4	12.7	403	3.02	8.4	0.9	4.1	4.5	22	<0.1	0.5	0.1	74	0.29	0.048

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 160153	Soil	12	25	0.78	153	0.127	<1	1.84	0.017	0.29	0.2	0.03	3.2	0.2	<0.05	6	0.6	<0.2
ROS 160154	Soil	14	21	0.66	154	0.113	<1	1.73	0.011	0.20	0.2	0.04	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 160469	Soil	21	22	0.77	142	0.127	<1	1.96	0.012	0.34	0.2	0.03	3.1	0.3	<0.05	7	0.5	<0.2
ROS 160473	Soil	17	27	0.70	178	0.127	<1	1.88	0.013	0.23	0.2	0.03	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 160148	Soil	14	24	2.01	242	0.308	<1	4.10	0.018	1.91	0.2	<0.01	3.8	0.7	<0.05	12	0.6	<0.2
ROS 160152	Soil	13	20	0.50	175	0.080	<1	1.30	0.015	0.10	0.3	0.03	2.6	<0.1	<0.05	4	0.8	<0.2
ROS 160470	Soil	19	22	0.58	140	0.102	<1	1.65	0.011	0.20	0.2	0.04	2.9	0.2	<0.05	6	0.5	<0.2
ROS 160471	Soil	19	26	0.64	166	0.101	<1	1.96	0.011	0.13	<0.1	0.03	3.2	0.2	<0.05	7	0.5	<0.2
ROS 160149	Soil	16	28	1.82	200	0.266	<1	3.04	0.013	1.61	0.2	0.02	3.2	0.5	<0.05	10	<0.5	<0.2
ROS 160150	Soil	17	26	1.42	196	0.197	<1	2.29	0.020	1.06	0.2	0.03	3.1	0.4	<0.05	7	<0.5	<0.2
ROS 165612	Soil	14	27	0.49	326	0.061	<1	1.48	0.020	0.05	0.3	0.04	3.3	<0.1	<0.05	5	0.6	<0.2
ROS 165614	Soil	13	28	0.53	353	0.063	2	1.57	0.018	0.06	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 165618	Soil	12	26	0.58	281	0.064	2	1.38	0.020	0.08	0.1	0.02	3.2	<0.1	<0.05	5	0.6	<0.2
ROS 149570	Soil	18	22	0.72	188	0.114	<1	1.52	0.013	0.19	0.1	0.03	3.9	0.1	<0.05	6	0.5	<0.2
ROS 165611	Soil	13	27	0.47	303	0.066	<1	1.48	0.019	0.05	0.2	0.04	3.6	<0.1	<0.05	4	1.0	<0.2
ROS 165613	Soil	13	27	0.50	319	0.069	1	1.51	0.024	0.05	0.3	0.04	3.4	<0.1	<0.05	5	0.7	<0.2
ROS 165617	Soil	12	26	0.57	272	0.062	1	1.40	0.020	0.09	0.1	0.04	3.3	<0.1	<0.05	5	0.5	<0.2
ROS 165621	Soil	14	29	0.76	293	0.079	1	1.49	0.025	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 160160	Soil	13	26	0.58	182	0.094	<1	1.49	0.015	0.10	0.3	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 160157	Soil	15	26	0.72	168	0.129	<1	1.84	0.013	0.20	0.2	0.02	3.1	0.2	<0.05	6	0.7	<0.2
ROS 165616	Soil	12	26	0.55	388	0.053	2	1.45	0.017	0.05	0.2	0.07	3.2	<0.1	<0.05	5	0.6	<0.2
ROS 165620	Soil	14	28	0.69	289	0.074	1	1.66	0.025	0.06	0.2	0.04	4.3	<0.1	<0.05	5	0.8	<0.2
ROS 160156	Soil	12	21	0.44	111	0.086	<1	1.35	0.012	0.08	0.2	0.04	2.2	0.1	<0.05	5	0.6	<0.2
ROS 160158	Soil	14	25	0.60	176	0.110	<1	1.64	0.013	0.10	0.2	0.02	3.1	0.2	<0.05	6	0.6	<0.2
ROS 165615	Soil	13	28	0.55	362	0.068	2	1.48	0.017	0.06	0.2	0.04	3.3	<0.1	<0.05	5	0.7	<0.2
ROS 165619	Soil	13	28	0.70	260	0.084	<1	1.57	0.021	0.13	0.2	0.03	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 163927	Soil	23	31	0.56	229	0.093	<1	2.15	0.012	0.10	0.2	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 163931	Soil	18	18	0.45	167	0.126	<1	1.64	0.012	0.22	0.1	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 163934	Soil	18	23	0.40	171	0.064	<1	1.39	0.018	0.06	0.2	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 164023	Soil	14	35	0.68	241	0.084	<1	2.07	0.018	0.07	0.1	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163926	Soil	1.2	20.9	8.9	57	<0.1	17.6	9.8	381	3.01	7.7	1.1	7.5	10.5	16	<0.1	0.4	0.2	64	0.18	0.020
ROS 163930	Soil	0.9	7.0	8.5	33	<0.1	6.5	5.3	336	1.57	3.3	0.6	1.7	5.4	7	<0.1	0.2	0.4	38	0.08	0.025
ROS 163932	Soil	0.9	10.5	8.9	42	<0.1	12.2	4.8	248	1.91	4.8	0.7	1.8	5.3	13	<0.1	0.3	0.1	43	0.17	0.030
ROS 164024	Soil	0.9	27.6	7.1	45	<0.1	22.2	10.7	363	2.37	7.5	0.7	5.8	3.0	20	<0.1	0.5	0.2	59	0.27	0.046
ROS 163925	Soil	1.0	12.4	7.6	51	<0.1	14.3	6.0	371	2.31	5.1	0.9	<0.5	9.4	13	<0.1	0.3	0.2	50	0.17	0.035
ROS 163929	Soil	0.6	12.8	7.7	41	<0.1	15.7	6.9	277	2.15	5.3	0.8	7.7	7.2	15	<0.1	0.4	0.1	52	0.15	0.013
ROS 163935	Soil	0.5	21.0	8.5	45	<0.1	13.6	7.7	280	2.32	6.7	1.2	10.0	7.9	17	<0.1	0.5	0.1	52	0.20	0.015
ROS 164021	Soil	0.5	37.0	5.9	40	<0.1	21.9	12.7	379	2.64	5.4	0.6	<0.5	1.3	12	0.1	0.4	<0.1	79	0.23	0.052
ROS 163924	Soil	1.4	14.4	7.5	53	<0.1	17.4	6.5	345	2.44	5.4	0.9	1.7	9.4	16	<0.1	0.2	0.5	44	0.20	0.024
ROS 163928	Soil	0.6	12.1	7.9	49	<0.1	15.1	7.6	335	2.34	5.6	0.9	<0.5	7.9	15	<0.1	0.3	0.1	48	0.19	0.025
ROS 163933	Soil	0.7	11.6	7.6	38	<0.1	11.1	5.1	257	2.00	4.6	0.7	3.4	5.5	16	<0.1	0.3	0.1	45	0.21	0.025
ROS 164022	Soil	0.7	63.6	3.8	54	<0.1	23.3	18.5	464	3.57	3.5	0.4	6.2	1.7	16	0.1	0.2	<0.1	116	0.37	0.061
ROS 149581	Soil	1.3	40.1	10.7	66	0.3	52.4	10.2	1528	2.32	11.3	0.7	12.4	5.8	49	1.2	1.0	<0.1	53	5.67	0.069
ROS 149577	Soil	0.8	15.7	6.1	77	<0.1	15.6	10.0	565	2.67	3.4	0.5	2.9	3.8	13	<0.1	0.3	<0.1	54	0.34	0.059
ROS 164029	Soil	0.7	20.0	4.7	35	<0.1	26.1	10.9	305	2.58	5.5	0.2	3.3	2.2	13	<0.1	0.3	<0.1	67	0.20	0.019
ROS 164025	Soil	0.6	54.8	4.5	48	<0.1	20.0	21.5	477	3.42	4.3	0.9	4.5	3.5	18	<0.1	0.4	<0.1	103	0.26	0.030
ROS 149562	Soil	0.6	28.9	10.6	61	0.2	20.8	9.7	440	2.16	5.8	1.1	1.7	2.7	46	0.3	1.0	0.1	49	1.13	0.054
ROS 149579	Soil	0.4	18.6	12.8	47	0.1	20.3	6.4	304	1.76	5.5	0.5	3.9	2.1	89	0.5	0.4	<0.1	51	7.26	0.050
ROS 164030	Soil	0.5	28.1	3.8	45	<0.1	22.5	14.4	401	2.80	4.4	0.5	6.0	2.5	19	<0.1	0.3	<0.1	76	0.38	0.033
ROS 164026	Soil	0.7	37.6	4.0	52	<0.1	15.5	17.8	403	3.53	4.1	0.5	1.2	2.1	22	<0.1	0.4	<0.1	86	0.53	0.141
ROS 149568	Soil	0.6	24.8	7.0	36	0.1	23.0	8.5	407	2.02	7.3	0.5	7.5	2.1	32	0.4	0.4	0.1	49	1.47	0.027
ROS 149580	Soil	0.9	14.2	9.2	43	<0.1	29.0	7.0	232	1.92	7.9	0.4	2.4	1.1	41	0.2	0.4	0.1	49	2.60	0.039
ROS 164031	Soil	0.5	66.8	3.4	35	<0.1	18.1	13.6	302	2.62	3.2	0.2	1.3	1.2	13	<0.1	0.1	<0.1	73	0.41	0.043
ROS 164027	Soil	0.4	41.4	2.2	43	<0.1	33.6	18.3	420	3.18	2.1	0.1	<0.5	1.3	8	<0.1	0.1	<0.1	91	0.19	0.030
ROS 149576	Soil	0.2	9.0	5.8	97	<0.1	8.1	10.3	651	2.55	2.6	0.4	3.4	5.3	13	0.1	0.2	<0.1	43	0.34	0.087
ROS 149578	Soil	0.5	28.8	20.0	50	0.1	25.0	9.7	374	2.25	7.1	0.5	5.4	2.8	37	0.5	0.4	0.1	50	0.96	0.049
ROS 164032	Soil	0.9	14.0	6.2	44	0.1	16.6	9.4	625	2.80	3.8	0.4	0.7	2.6	16	<0.1	0.2	0.1	52	0.22	0.047
ROS 164028	Soil	0.5	16.8	4.6	40	<0.1	39.9	13.6	391	2.63	4.6	0.3	<0.5	1.5	14	0.1	0.2	<0.1	71	0.24	0.044
ROS 173223	Soil	0.5	27.7	9.6	66	0.2	20.6	6.7	254	2.00	4.4	0.9	0.9	2.5	41	0.2	0.6	0.1	47	0.91	0.053
ROS 173038	Soil	0.5	32.1	10.8	52	0.1	27.0	9.4	364	2.38	8.5	0.7	3.7	3.6	31	<0.1	0.8	0.1	55	1.00	0.042

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.2
ROS 163926	Soil	27	33	0.59	209	0.082	3	2.10	0.010	0.07	0.1	<0.01	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 163930	Soil	10	12	0.23	69	0.082	<1	0.89	0.007	0.11	0.2	0.02	1.4	0.1	<0.05	6	<0.5	<0.2
ROS 163932	Soil	14	19	0.36	147	0.054	<1	1.19	0.009	0.06	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
ROS 164024	Soil	11	34	0.57	263	0.060	3	1.42	0.015	0.07	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 163925	Soil	21	24	0.44	165	0.063	2	1.47	0.012	0.10	0.1	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 163929	Soil	17	27	0.44	130	0.067	2	1.37	0.011	0.05	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 163935	Soil	29	30	0.44	203	0.067	<1	1.49	0.010	0.06	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164021	Soil	9	34	0.67	128	0.062	1	1.67	0.014	0.12	0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
ROS 163924	Soil	17	25	0.42	187	0.056	2	1.63	0.011	0.20	0.2	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
ROS 163928	Soil	21	23	0.45	169	0.070	2	1.50	0.009	0.08	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
ROS 163933	Soil	17	23	0.39	157	0.053	3	1.21	0.013	0.06	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164022	Soil	9	37	1.25	211	0.136	<1	2.09	0.017	0.42	0.2	<0.01	5.7	0.2	<0.05	6	<0.5	<0.2
ROS 149581	Soil	30	27	2.76	324	0.046	<1	1.47	0.008	0.09	0.2	0.33	6.3	0.2	<0.05	4	<0.5	<0.2
ROS 149577	Soil	15	26	1.02	257	0.155	3	1.70	0.010	0.63	0.2	0.01	7.8	0.2	<0.05	7	<0.5	<0.2
ROS 164029	Soil	7	52	0.84	131	0.114	<1	2.02	0.016	0.11	0.2	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164025	Soil	21	28	1.04	203	0.152	<1	2.33	0.021	0.24	0.8	<0.01	5.4	0.2	<0.05	6	<0.5	<0.2
ROS 149562	Soil	14	30	0.56	292	0.047	3	1.31	0.022	0.06	0.3	0.05	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 149579	Soil	6	29	1.70	186	0.060	<1	1.55	0.013	0.21	0.1	0.09	3.7	<0.1	<0.05	5	1.0	<0.2
ROS 164030	Soil	8	29	1.05	270	0.171	1	1.80	0.018	0.38	0.2	0.01	3.8	0.2	<0.05	5	<0.5	<0.2
ROS 164026	Soil	10	31	1.19	232	0.143	<1	2.45	0.034	0.34	<0.1	0.01	4.9	0.2	<0.05	7	0.6	<0.2
ROS 149568	Soil	10	25	0.46	206	0.056	2	1.41	0.017	0.05	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 149580	Soil	9	40	0.54	116	0.045	2	1.48	0.012	0.04	0.2	0.03	3.0	<0.1	0.06	3	<0.5	<0.2
ROS 164031	Soil	4	39	0.87	208	0.146	1	1.69	0.027	0.35	<0.1	<0.01	3.7	0.1	<0.05	6	1.0	<0.2
ROS 164027	Soil	3	88	1.42	185	0.216	<1	2.50	0.015	0.71	0.2	0.02	2.6	0.2	<0.05	7	0.5	<0.2
ROS 149576	Soil	21	11	1.07	212	0.126	3	1.32	0.008	0.29	0.1	<0.01	13.5	0.1	<0.05	7	<0.5	<0.2
ROS 149578	Soil	13	26	0.64	269	0.076	<1	1.25	0.026	0.08	<0.1	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2
ROS 164032	Soil	8	26	0.51	214	0.111	1	1.78	0.013	0.32	0.2	<0.01	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164028	Soil	5	107	1.14	197	0.148	<1	2.12	0.013	0.32	0.2	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
ROS 173223	Soil	12	31	0.55	281	0.057	3	1.54	0.020	0.07	0.1	0.07	3.6	<0.1	0.07	4	<0.5	<0.2
ROS 173038	Soil	14	32	0.57	271	0.069	1	1.60	0.021	0.07	0.1	0.08	3.7	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173035	Soil	0.4	34.6	9.6	46	0.1	28.6	9.0	371	2.36	9.2	0.4	6.9	4.1	28	<0.1	0.6	0.1	62	1.17	0.019
ROS 173041	Soil	0.9	22.4	9.9	50	0.2	20.8	8.1	410	2.03	5.7	0.9	3.5	2.6	40	0.2	0.9	0.1	43	1.18	0.048
ROS 149533	Soil	0.6	27.3	8.2	54	<0.1	26.9	10.6	417	2.51	9.8	0.7	6.9	4.3	20	<0.1	0.6	0.1	59	0.35	0.025
ROS 173037	Soil	0.3	28.8	8.6	48	<0.1	26.8	8.6	368	2.28	8.0	0.5	1.3	2.6	35	0.2	0.6	0.1	52	1.33	0.036
ROS 173032	Soil	1.1	20.0	11.1	70	0.1	26.2	10.3	326	2.85	8.9	0.7	1.2	4.6	24	0.2	0.8	0.1	66	0.27	0.049
ROS 173039	Soil	0.5	28.3	8.4	51	0.2	20.3	8.1	369	1.97	6.8	0.7	<0.5	2.1	41	0.4	0.9	0.1	42	1.46	0.050
ROS 173221	Soil	0.5	21.3	6.7	54	<0.1	17.7	8.2	355	2.06	6.1	0.8	2.5	2.2	41	0.2	0.6	0.1	43	0.95	0.053
ROS 173034	Soil	0.7	44.0	28.8	154	<0.1	17.5	10.5	472	3.51	6.0	1.2	2.7	6.9	44	0.2	2.0	0.2	65	0.42	0.046
ROS 173031	Soil	0.9	27.7	9.3	53	0.2	23.4	8.9	329	2.54	9.2	0.8	3.0	4.9	27	<0.1	0.8	0.1	54	0.40	0.052
ROS 173040	Soil	0.5	23.3	8.8	51	0.2	19.1	8.3	406	2.12	7.0	0.7	2.1	1.9	45	0.2	1.2	0.2	41	1.50	0.048
ROS 173220	Soil	0.7	20.0	6.9	63	0.1	15.0	8.5	390	2.12	6.0	0.8	3.8	2.2	40	0.3	0.8	0.1	46	0.98	0.063
ROS 173036	Soil	0.5	29.5	8.1	48	<0.1	24.7	9.5	365	2.56	10.4	0.4	2.7	3.5	28	<0.1	0.5	0.1	57	0.76	0.019
ROS 173033	Soil	0.9	19.5	35.8	113	0.1	20.2	9.7	483	2.95	8.6	0.8	<0.5	5.7	66	0.2	1.4	0.5	60	0.39	0.039
ROS 173048	Soil	0.7	30.8	10.7	51	0.1	27.0	9.2	397	2.41	9.5	1.0	3.3	2.8	44	0.3	0.7	0.1	51	1.70	0.064
ROS 164375	Soil	1.4	10.4	8.5	46	<0.1	18.0	7.1	278	2.65	7.4	0.6	0.6	6.9	12	0.1	0.4	0.2	60	0.14	0.019
ROS 164380	Soil	0.8	26.0	11.9	56	0.1	23.6	10.8	526	2.85	8.1	0.7	2.8	9.9	25	0.1	0.4	0.2	59	0.43	0.017
ROS 160919	Soil	1.4	15.1	6.3	68	<0.1	8.8	7.9	584	3.06	6.1	1.0	1.0	13.8	13	<0.1	0.3	<0.1	36	0.23	0.086
ROS 164054	Soil	1.3	40.4	6.2	163	<0.1	25.3	13.2	533	3.41	5.1	1.0	1.1	6.1	25	0.3	0.3	<0.1	66	0.31	0.039
ROS 164374	Soil	1.5	18.1	18.8	102	<0.1	23.5	20.4	1172	4.70	1.6	2.3	0.6	65.8	21	0.1	0.1	0.2	77	0.60	0.083
ROS 164378	Soil	1.1	26.8	9.6	75	<0.1	44.2	18.8	753	4.38	4.5	0.9	<0.5	8.6	22	<0.1	0.3	0.3	99	0.47	0.039
ROS 160916	Soil	1.0	30.7	16.2	77	<0.1	18.2	9.7	310	3.19	3.4	2.6	2.4	32.8	26	<0.1	0.4	0.2	50	0.39	0.047
ROS 164055	Soil	1.0	19.3	6.2	46	<0.1	22.4	12.6	647	2.86	4.2	0.6	<0.5	4.2	32	0.1	0.3	<0.1	65	0.31	0.027
ROS 164376	Soil	0.9	23.0	9.2	60	<0.1	20.3	8.9	485	3.00	8.8	1.0	1.0	16.9	23	<0.1	0.5	0.2	61	0.30	0.033
ROS 164379	Soil	0.9	28.3	12.6	60	<0.1	23.2	10.7	490	2.91	8.4	0.8	0.8	10.4	25	<0.1	0.5	0.2	60	0.43	0.017
ROS 160918	Soil	1.1	33.3	15.9	90	<0.1	12.1	12.8	709	4.21	3.5	3.0	0.8	25.3	26	<0.1	0.5	0.3	47	0.52	0.105
ROS 164056	Soil	0.7	40.3	3.7	68	<0.1	44.7	17.5	439	4.54	3.1	0.7	1.1	4.1	21	<0.1	0.2	<0.1	113	0.54	0.116
ROS 164377	Soil	1.0	31.8	9.5	76	<0.1	41.4	18.1	770	4.40	4.6	0.9	<0.5	8.8	25	<0.1	0.3	0.3	97	0.49	0.040
ROS 160914	Soil	1.1	83.1	4.3	243	<0.1	6.0	9.1	718	3.41	2.8	1.6	0.7	15.7	17	0.1	0.2	0.4	39	0.20	0.027
ROS 160912	Soil	0.4	13.0	5.4	54	<0.1	6.1	6.2	393	2.44	1.5	1.7	<0.5	10.2	21	<0.1	0.1	0.1	40	0.22	0.015
ROS 164053	Soil	1.8	23.5	10.2	113	<0.1	14.3	8.6	554	3.19	5.6	0.8	1.0	5.3	28	0.2	0.3	0.1	70	0.43	0.033

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 173035	Soil	15	32	0.62	221	0.073	2	1.56	0.020	0.06	0.1	0.07	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 173041	Soil	12	24	0.42	451	0.036	3	1.15	0.019	0.08	0.3	0.08	2.7	<0.1	0.06	3	1.8	<0.2
ROS 149533	Soil	17	35	0.58	186	0.096	1	1.51	0.013	0.17	0.1	0.04	4.8	0.1	<0.05	4	1.6	<0.2
ROS 173037	Soil	12	26	0.50	235	0.060	2	1.45	0.025	0.05	0.1	0.07	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173032	Soil	12	39	0.53	220	0.077	1	1.91	0.009	0.10	0.3	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173039	Soil	11	23	0.47	346	0.042	3	1.18	0.019	0.06	0.2	0.07	2.6	<0.1	0.06	4	1.0	<0.2
ROS 173221	Soil	11	26	0.48	303	0.055	2	1.34	0.023	0.05	0.2	0.05	3.3	<0.1	0.06	4	<0.5	<0.2
ROS 173034	Soil	22	34	1.07	203	0.090	<1	2.12	0.010	0.06	0.1	0.08	6.6	<0.1	<0.05	9	0.7	<0.2
ROS 173031	Soil	19	34	0.51	224	0.065	<1	1.30	0.022	0.07	0.1	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173040	Soil	12	21	0.43	523	0.028	2	1.24	0.018	0.06	0.3	0.10	2.9	<0.1	0.05	4	<0.5	<0.2
ROS 173220	Soil	12	26	0.49	293	0.051	1	1.26	0.020	0.06	0.3	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173036	Soil	14	30	0.52	296	0.068	<1	1.63	0.025	0.04	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173033	Soil	12	42	0.66	215	0.091	2	2.19	0.012	0.09	0.2	0.02	4.8	<0.1	<0.05	8	<0.5	<0.2
ROS 173048	Soil	13	30	0.73	221	0.074	2	1.30	0.023	0.09	0.2	0.07	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164375	Soil	9	32	0.40	179	0.072	1	1.57	0.009	0.10	0.1	<0.01	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 164380	Soil	29	31	0.59	247	0.098	1	1.76	0.019	0.22	0.1	0.03	5.2	0.1	<0.05	5	<0.5	<0.2
ROS 160919	Soil	9	14	0.37	102	0.070	<1	1.11	0.009	0.28	0.2	0.01	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 164054	Soil	16	24	0.85	171	0.170	<1	2.21	0.015	0.61	0.1	0.02	5.0	0.4	<0.05	8	<0.5	<0.2
ROS 164374	Soil	84	39	0.93	126	0.103	<1	1.93	0.008	0.82	0.1	0.02	10.7	0.6	<0.05	9	0.5	<0.2
ROS 164378	Soil	30	72	1.32	198	0.215	1	2.74	0.014	0.98	0.1	0.01	8.6	0.5	<0.05	9	<0.5	<0.2
ROS 160916	Soil	59	29	0.67	175	0.059	<1	2.01	0.011	0.31	<0.1	0.02	7.1	0.2	<0.05	7	<0.5	<0.2
ROS 164055	Soil	10	33	0.58	331	0.143	<1	1.80	0.019	0.33	0.1	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 164376	Soil	28	31	0.58	199	0.102	<1	1.83	0.015	0.29	0.1	0.01	4.1	0.3	<0.05	6	<0.5	<0.2
ROS 164379	Soil	32	31	0.59	223	0.105	2	1.78	0.019	0.22	0.1	0.02	5.2	0.2	<0.05	5	0.6	<0.2
ROS 160918	Soil	28	15	0.91	217	0.094	<1	2.01	0.012	0.41	0.2	0.01	5.9	0.4	<0.05	10	<0.5	<0.2
ROS 164056	Soil	16	52	1.21	328	0.242	<1	2.25	0.026	1.12	<0.1	<0.01	8.1	0.4	<0.05	9	<0.5	<0.2
ROS 164377	Soil	31	71	1.33	207	0.215	1	2.78	0.015	0.96	0.1	0.02	8.3	0.5	<0.05	9	<0.5	<0.2
ROS 160914	Soil	28	11	0.80	176	0.173	<1	2.03	0.011	1.02	<0.1	<0.01	4.7	0.4	<0.05	7	<0.5	<0.2
ROS 160912	Soil	22	11	0.61	140	0.142	<1	1.77	0.019	0.67	<0.1	0.01	4.2	0.3	<0.05	6	<0.5	<0.2
ROS 164053	Soil	11	22	0.83	192	0.165	1	2.18	0.014	0.57	0.2	0.02	4.6	0.3	<0.05	8	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 165586	Soil	1.0	32.6	10.7	98	0.3	16.3	9.9	285	3.31	10.0	0.8	1.1	2.8	62	0.3	1.3	<0.1	77	0.69	0.096
ROS 165582	Soil	1.0	23.9	7.6	63	0.1	15.1	9.5	312	2.76	8.3	0.5	<0.5	3.7	17	<0.1	4.1	0.1	53	0.22	0.043
ROS 164063	Soil	0.8	32.1	6.0	56	<0.1	23.7	9.6	307	2.87	6.5	1.0	4.6	9.6	28	<0.1	0.4	0.1	55	0.30	0.034
ROS 164059	Soil	2.0	33.7	5.6	74	<0.1	39.2	13.9	483	3.97	7.2	2.2	2.0	19.2	20	<0.1	0.3	0.1	63	0.31	0.074
ROS 165587	Soil	0.5	29.2	8.4	67	0.2	22.2	9.9	464	2.42	7.6	1.0	2.3	3.0	44	0.3	0.8	0.1	52	1.05	0.058
ROS 165583	Soil	0.9	14.1	9.4	70	0.2	15.0	8.6	320	2.90	8.2	0.5	1.1	2.7	42	<0.1	0.8	0.1	77	0.33	0.043
ROS 164064	Soil	3.1	23.1	5.6	41	0.1	15.2	5.5	232	2.44	4.0	1.1	0.8	6.4	26	<0.1	0.3	0.1	44	0.25	0.015
ROS 164060	Soil	0.9	39.7	5.6	66	<0.1	32.5	12.1	601	3.74	3.8	1.6	<0.5	12.1	13	<0.1	0.2	0.1	47	0.19	0.045
ROS 165584	Soil	0.9	24.9	12.7	69	<0.1	20.7	8.8	318	2.84	11.9	0.6	3.8	4.5	43	0.1	1.0	0.1	65	0.40	0.019
ROS 165580	Soil	0.7	12.3	13.3	99	<0.1	11.3	6.0	279	2.49	4.8	0.8	4.8	5.8	37	<0.1	0.8	<0.1	53	0.27	0.020
ROS 164061	Soil	0.5	29.5	4.7	53	<0.1	31.6	12.1	461	3.53	5.9	1.4	3.9	14.3	20	<0.1	0.4	<0.1	66	0.29	0.053
ROS 164057	Soil	0.9	54.7	5.1	79	<0.1	39.1	18.6	768	4.67	5.2	1.1	<0.5	7.0	21	<0.1	0.3	<0.1	89	0.25	0.029
ROS 165585	Soil	0.8	33.0	11.2	79	0.2	23.6	11.5	596	2.90	6.2	0.7	4.9	4.2	44	0.1	0.8	0.1	71	0.56	0.070
ROS 165581	Soil	1.0	12.2	8.2	41	<0.1	10.4	4.9	184	1.67	6.5	0.4	3.6	2.5	10	<0.1	0.7	<0.1	30	0.12	0.018
ROS 164062	Soil	0.8	36.7	5.8	70	<0.1	27.6	10.9	392	3.19	7.2	0.8	0.9	7.7	22	<0.1	0.4	0.1	69	0.29	0.045
ROS 164058	Soil	0.9	26.3	7.8	71	0.1	26.5	11.6	421	3.54	6.7	0.9	0.9	6.5	22	0.2	0.4	0.1	73	0.26	0.050
ROS 160553	Soil	1.0	32.0	8.6	70	0.1	24.5	10.4	459	2.62	8.7	0.9	1.9	5.0	37	0.2	0.7	0.2	54	0.56	0.070
ROS 160551	Soil	0.6	36.8	17.8	78	<0.1	10.4	11.7	733	3.39	2.7	2.5	<0.5	25.1	20	0.2	0.4	0.4	42	0.38	0.082
ROS 160549	Soil	1.6	28.7	8.5	82	0.1	13.2	8.2	508	3.47	4.8	3.2	2.4	12.0	49	0.1	0.5	0.2	71	0.61	0.085
ROS 160547	Soil	0.8	18.6	6.3	52	<0.1	13.2	7.5	372	2.51	5.3	1.8	0.7	8.3	30	<0.1	0.3	0.1	50	0.40	0.061
ROS 160552	Soil	1.0	27.9	8.7	76	<0.1	17.4	8.3	471	2.78	4.7	1.6	4.7	9.6	24	0.2	0.4	0.2	49	0.40	0.065
ROS 160550	Soil	1.1	21.1	8.3	52	0.1	11.0	7.6	639	2.55	3.1	3.1	0.6	20.7	35	0.2	0.3	0.2	47	0.49	0.060
ROS 160548	Soil	1.2	35.2	8.2	110	0.2	11.0	6.0	548	3.24	3.0	4.8	1.4	14.1	64	0.2	0.3	0.2	65	0.69	0.056
ROS 160546	Soil	0.7	25.0	6.6	55	<0.1	10.6	6.9	390	2.67	2.9	4.0	1.3	17.4	28	<0.1	0.3	0.1	49	0.37	0.045
ROS 160545	Soil	0.8	17.1	7.8	57	<0.1	11.9	6.6	351	2.58	3.3	2.3	1.6	12.5	31	<0.1	0.2	0.2	45	0.37	0.021
ROS 160543	Soil	0.9	26.3	4.3	55	<0.1	6.8	6.1	411	2.73	1.5	2.2	2.0	15.6	27	<0.1	0.1	0.2	47	0.28	0.033
ROS 165590	Soil	0.7	23.2	9.2	57	<0.1	20.6	10.2	399	2.36	8.1	1.4	1.3	3.6	40	0.2	0.6	0.1	54	0.73	0.060
ROS 165588	Soil	0.9	27.7	9.7	65	0.1	23.9	10.7	435	2.48	8.7	1.1	2.2	3.9	37	0.1	0.7	0.2	53	0.67	0.058
ROS 160544	Soil	0.7	25.3	6.0	69	0.2	7.3	6.2	501	3.02	1.9	3.4	<0.5	20.9	26	<0.1	0.2	0.2	51	0.30	0.040
ROS 160542	Soil	0.8	59.8	6.0	140	<0.1	11.7	10.5	806	4.82	4.6	1.4	1.5	16.5	17	<0.1	0.3	0.2	73	0.17	0.018

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 165586	Soil	21	38	0.83	366	0.083	<1	2.27	0.014	0.05	0.2	0.06	5.2	<0.1	<0.05	10	0.5	<0.2
ROS 165582	Soil	12	26	0.48	393	0.044	1	1.75	0.010	0.11	<0.1	0.06	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164063	Soil	23	36	0.76	232	0.170	<1	1.81	0.016	0.50	<0.1	0.01	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 164059	Soil	48	48	1.13	302	0.282	<1	2.32	0.015	1.25	<0.1	0.01	6.0	0.6	<0.05	9	<0.5	<0.2
ROS 165587	Soil	17	29	0.49	386	0.075	2	1.65	0.023	0.06	0.1	0.08	4.5	<0.1	<0.05	5	0.7	<0.2
ROS 165583	Soil	9	28	0.67	285	0.093	1	2.04	0.013	0.06	0.2	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
ROS 164064	Soil	19	18	0.48	139	0.111	<1	1.51	0.020	0.32	<0.1	0.01	2.7	0.1	<0.05	5	0.7	<0.2
ROS 164060	Soil	34	39	1.11	184	0.277	<1	2.34	0.012	1.18	<0.1	<0.01	3.2	0.6	<0.05	8	<0.5	<0.2
ROS 165584	Soil	11	37	0.61	248	0.096	<1	2.12	0.010	0.06	0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 165580	Soil	40	19	0.71	152	0.107	1	1.93	0.010	0.08	<0.1	0.03	2.7	<0.1	<0.05	9	<0.5	<0.2
ROS 164061	Soil	32	36	1.00	248	0.221	2	2.09	0.018	0.84	0.1	0.02	5.4	0.4	<0.05	6	<0.5	<0.2
ROS 164057	Soil	22	41	1.23	309	0.280	<1	2.79	0.015	1.33	<0.1	<0.01	5.5	0.5	<0.05	9	<0.5	<0.2
ROS 165585	Soil	17	50	0.82	500	0.066	2	2.05	0.020	0.06	0.2	0.06	4.4	<0.1	0.08	6	<0.5	<0.2
ROS 165581	Soil	6	16	0.26	319	0.009	1	1.40	0.008	0.09	0.2	0.06	1.6	<0.1	<0.05	4	<0.5	<0.2
ROS 164062	Soil	22	31	0.97	287	0.174	1	1.93	0.016	0.55	0.1	0.01	3.4	0.3	0.06	6	<0.5	<0.2
ROS 164058	Soil	23	34	0.90	270	0.195	<1	2.00	0.015	0.73	0.1	<0.01	3.5	0.3	0.07	6	<0.5	<0.2
ROS 160553	Soil	19	30	0.61	290	0.074	2	1.57	0.034	0.10	0.2	0.04	3.9	<0.1	0.06	5	<0.5	<0.2
ROS 160551	Soil	42	16	0.66	117	0.044	2	1.65	0.011	0.21	0.2	0.01	5.5	0.2	<0.05	7	<0.5	<0.2
ROS 160549	Soil	36	24	0.69	197	0.082	<1	2.22	0.015	0.20	0.1	0.03	5.6	0.1	<0.05	8	<0.5	<0.2
ROS 160547	Soil	22	22	0.61	146	0.103	1	1.56	0.019	0.29	0.1	0.01	3.4	0.2	<0.05	5	<0.5	<0.2
ROS 160552	Soil	25	25	0.41	156	0.057	1	1.30	0.021	0.12	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 160550	Soil	78	19	0.46	185	0.062	<1	1.72	0.012	0.26	0.1	0.04	4.8	0.2	<0.05	6	<0.5	<0.2
ROS 160548	Soil	43	17	0.76	160	0.122	<1	2.65	0.014	0.36	<0.1	0.04	5.8	0.2	<0.05	10	<0.5	<0.2
ROS 160546	Soil	47	17	0.66	145	0.136	<1	1.88	0.023	0.56	<0.1	0.03	4.9	0.3	<0.05	7	<0.5	<0.2
ROS 160545	Soil	36	21	0.58	169	0.107	1	1.87	0.032	0.35	<0.1	0.02	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 160543	Soil	40	11	0.71	162	0.137	1	1.89	0.026	0.75	<0.1	0.02	5.0	0.3	<0.05	7	<0.5	<0.2
ROS 165590	Soil	13	28	0.50	324	0.059	1	1.56	0.029	0.05	0.2	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 165588	Soil	15	32	0.53	345	0.065	2	1.65	0.025	0.05	0.2	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160544	Soil	62	13	0.84	151	0.149	<1	2.18	0.021	0.84	<0.1	0.05	5.7	0.4	<0.05	8	<0.5	<0.2
ROS 160542	Soil	31	18	1.20	195	0.230	<1	2.78	0.014	1.48	0.1	0.01	7.6	0.4	<0.05	12	<0.5	0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 149571	Soil	0.4	20.0	5.6	87	<0.1	15.6	13.1	480	3.47	5.0	0.9	<0.5	2.8	40	<0.1	0.3	<0.1	81	0.61	0.098
ROS 165589	Soil	0.6	27.4	8.8	57	0.1	19.5	9.6	394	2.31	7.6	1.7	2.6	3.3	41	0.2	0.7	0.1	54	0.80	0.059
ROS 164067	Soil	1.0	19.1	8.2	107	<0.1	16.0	9.8	463	3.19	4.0	1.2	<0.5	10.3	24	0.1	0.3	0.1	60	0.33	0.025
ROS 164071	Soil	2.5	51.5	9.3	88	0.1	13.1	7.8	382	3.49	5.8	1.6	1.0	12.6	81	<0.1	0.3	0.2	58	0.32	0.024
ROS 164075	Soil	1.2	43.3	5.7	122	<0.1	11.2	15.6	705	3.90	2.8	1.2	0.6	5.9	96	0.1	0.2	<0.1	91	0.82	0.042
ROS 163023	Soil	0.9	16.5	6.7	73	<0.1	9.5	10.6	564	3.44	2.8	1.7	3.9	11.8	26	<0.1	0.2	0.2	57	0.34	0.038
ROS 164068	Soil	0.8	24.1	9.0	63	<0.1	22.3	8.8	301	2.77	9.3	0.8	<0.5	7.2	29	<0.1	0.5	0.1	61	0.24	0.039
ROS 164072	Soil	1.3	23.8	12.4	69	0.2	15.5	10.3	423	2.83	5.1	0.7	1.2	3.9	35	0.2	0.3	0.2	65	0.32	0.037
ROS 164076	Soil	1.1	26.4	5.8	87	<0.1	15.7	14.9	598	3.49	4.5	0.7	2.9	4.8	37	<0.1	0.3	<0.1	86	0.38	0.037
ROS 163005	Soil	1.2	22.6	8.0	61	0.1	16.3	13.7	765	3.55	9.7	2.8	1.5	10.2	34	0.2	0.4	0.1	63	0.48	0.063
ROS 164065	Soil	0.7	33.1	5.7	66	<0.1	11.9	10.3	568	3.49	3.5	2.4	<0.5	18.3	65	<0.1	0.2	<0.1	61	0.37	0.039
ROS 164069	Soil	0.9	26.6	7.7	81	<0.1	18.1	10.4	702	3.29	6.1	1.4	0.7	10.0	43	0.1	0.4	0.1	62	0.31	0.040
ROS 164073	Soil	0.8	53.3	8.1	87	<0.1	16.5	9.4	463	3.05	5.4	1.8	2.6	6.2	43	0.1	0.4	0.1	72	0.50	0.065
ROS 163002	Soil	0.9	28.8	7.7	70	<0.1	17.8	10.1	474	3.47	4.0	5.8	2.9	18.2	40	0.2	0.3	0.2	68	0.59	0.050
ROS 164066	Soil	0.9	28.7	10.0	63	<0.1	26.5	9.0	359	3.20	8.5	1.2	1.0	10.7	30	<0.1	0.4	0.1	63	0.37	0.027
ROS 164070	Soil	0.7	17.3	7.7	66	<0.1	14.7	10.1	624	3.04	4.4	0.9	0.7	13.6	32	<0.1	0.3	0.1	61	0.31	0.034
ROS 164074	Soil	1.0	20.3	7.1	63	0.1	19.2	10.0	720	2.69	7.0	0.5	0.7	3.7	28	<0.1	0.4	0.1	62	0.29	0.037
ROS 163692	Soil	0.6	13.0	6.9	60	<0.1	13.8	9.2	503	2.77	5.0	1.0	1.8	6.8	23	<0.1	0.3	0.1	53	0.27	0.025
ROS 164360	Soil	0.8	20.7	9.0	63	0.2	11.9	7.2	331	2.67	5.3	2.5	4.8	9.5	36	0.1	0.2	0.2	50	0.57	0.060
ROS 164354	Soil	1.1	26.6	10.4	73	0.2	17.4	8.4	412	2.88	5.5	2.5	3.1	8.8	29	0.1	0.3	0.2	54	0.46	0.054
ROS 163008	Soil	1.0	44.3	7.0	57	0.1	83.8	16.6	610	3.01	3.8	2.7	4.7	7.7	66	<0.1	0.3	0.1	70	0.83	0.104
ROS 163004	Soil	0.7	27.7	9.8	71	0.1	18.3	9.2	472	2.78	4.0	3.5	2.1	11.7	37	0.1	0.3	0.2	54	0.53	0.049
ROS 164355	Soil	1.3	23.0	10.0	64	0.2	11.9	10.6	588	2.75	5.5	2.2	1.3	8.3	29	<0.1	0.2	0.2	52	0.48	0.055
ROS 164352	Soil	1.5	27.8	9.7	76	0.2	15.0	10.2	598	2.86	5.0	2.0	2.4	7.5	31	0.1	0.2	0.2	55	0.51	0.049
ROS 163007	Soil	1.5	30.7	8.8	71	0.2	21.9	13.6	1050	3.65	7.2	6.1	1.2	14.9	69	0.1	0.4	0.2	63	0.96	0.071
ROS 163022	Soil	0.8	21.4	7.0	65	<0.1	15.9	8.2	405	2.87	4.6	2.5	0.9	11.4	33	<0.1	0.4	0.1	54	0.45	0.064
ROS 164358	Soil	1.0	21.3	8.3	63	0.3	11.3	8.9	418	2.68	5.0	2.2	1.4	8.0	36	<0.1	0.3	0.2	52	0.54	0.041
ROS 164350	Soil	0.6	8.7	8.4	88	<0.1	6.9	7.6	1046	3.52	3.2	2.9	1.4	20.9	25	<0.1	0.1	0.2	37	0.59	0.058
ROS 163010	Soil	1.5	25.0	14.6	74	<0.1	26.8	14.3	626	3.91	4.7	1.9	<0.5	12.7	27	<0.1	0.4	0.1	67	0.33	0.044
ROS 163006	Soil	1.0	26.9	9.0	61	<0.1	22.1	10.3	586	3.45	8.0	4.7	1.5	14.9	42	<0.1	0.3	0.2	61	0.53	0.066

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WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 149571	Soil	10	24	1.09	243	0.205	1	2.14	0.016	0.56	0.1	0.02	4.2	0.2	<0.05	8	<0.5	<0.2
ROS 165589	Soil	14	28	0.49	344	0.062	1	1.51	0.025	0.05	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 164067	Soil	26	24	0.67	174	0.118	<1	2.19	0.014	0.46	<0.1	<0.01	4.3	0.2	<0.05	7	<0.5	0.2
ROS 164071	Soil	31	20	0.75	176	0.149	<1	2.12	0.023	0.60	<0.1	0.02	3.9	0.3	<0.05	7	0.6	<0.2
ROS 164075	Soil	16	19	1.27	295	0.211	<1	3.41	0.036	1.11	<0.1	0.02	3.3	0.4	<0.05	9	<0.5	<0.2
ROS 163023	Soil	24	16	0.82	191	0.166	<1	2.21	0.023	0.89	<0.1	0.01	4.3	0.3	<0.05	8	<0.5	<0.2
ROS 164068	Soil	15	32	0.56	170	0.093	<1	1.88	0.014	0.19	0.1	0.02	4.8	0.1	<0.05	5	<0.5	0.2
ROS 164072	Soil	11	27	0.61	211	0.121	1	1.96	0.013	0.36	<0.1	0.01	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 164076	Soil	11	26	1.15	195	0.191	1	2.38	0.019	0.89	<0.1	0.01	2.9	0.3	<0.05	7	<0.5	<0.2
ROS 163005	Soil	41	23	0.69	221	0.109	1	2.13	0.016	0.33	<0.1	0.06	4.1	0.2	<0.05	6	<0.5	0.2
ROS 164065	Soil	44	15	0.84	223	0.178	<1	2.65	0.024	1.01	<0.1	<0.01	3.8	0.5	<0.05	9	<0.5	<0.2
ROS 164069	Soil	19	25	0.78	201	0.152	1	2.21	0.019	0.59	<0.1	0.02	4.1	0.3	<0.05	7	<0.5	<0.2
ROS 164073	Soil	21	28	0.84	224	0.148	1	1.89	0.026	0.43	0.1	0.03	4.5	0.1	<0.05	6	<0.5	<0.2
ROS 163002	Soil	62	25	0.75	275	0.148	1	2.61	0.017	0.69	<0.1	0.03	5.4	0.3	<0.05	8	<0.5	<0.2
ROS 164066	Soil	24	33	0.69	189	0.113	1	2.44	0.012	0.43	0.1	<0.01	5.6	0.2	<0.05	7	<0.5	<0.2
ROS 164070	Soil	13	25	0.73	268	0.131	<1	2.09	0.013	0.71	0.1	0.01	4.4	0.3	<0.05	7	<0.5	<0.2
ROS 164074	Soil	9	26	0.65	199	0.121	2	1.74	0.013	0.33	<0.1	0.02	2.8	0.1	<0.05	6	<0.5	<0.2
ROS 163692	Soil	16	24	0.62	158	0.118	1	1.68	0.018	0.52	<0.1	<0.01	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 164360	Soil	39	24	0.61	168	0.095	<1	1.73	0.015	0.20	0.1	0.06	3.8	0.1	0.05	6	0.6	<0.2
ROS 164354	Soil	30	28	0.72	191	0.113	<1	1.82	0.016	0.28	0.2	0.03	4.2	0.2	<0.05	6	<0.5	0.3
ROS 163008	Soil	27	77	1.45	303	0.117	2	1.74	0.018	0.27	0.2	0.02	3.3	0.1	0.05	6	<0.5	<0.2
ROS 163004	Soil	47	27	0.76	241	0.104	<1	2.11	0.014	0.30	<0.1	0.04	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 164355	Soil	35	24	0.67	158	0.097	<1	1.58	0.014	0.24	0.2	0.04	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 164352	Soil	25	26	0.87	160	0.104	<1	1.88	0.014	0.30	0.1	0.04	4.0	0.2	<0.05	7	0.5	<0.2
ROS 163007	Soil	71	28	0.76	271	0.094	2	2.41	0.017	0.33	<0.1	0.07	5.2	0.2	<0.05	8	0.6	<0.2
ROS 163022	Soil	27	25	0.68	186	0.135	<1	1.65	0.019	0.50	0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 164358	Soil	40	21	0.66	187	0.094	<1	1.83	0.014	0.21	0.1	0.06	3.6	0.1	<0.05	7	<0.5	<0.2
ROS 164350	Soil	60	11	1.80	154	0.092	<1	2.82	0.010	0.63	<0.1	0.01	4.5	0.4	<0.05	13	<0.5	<0.2
ROS 163010	Soil	11	65	1.01	170	0.168	<1	2.28	0.011	0.56	0.2	0.01	2.8	0.5	<0.05	10	<0.5	<0.2
ROS 163006	Soil	57	27	0.71	241	0.111	<1	2.33	0.015	0.35	<0.1	0.05	4.8	0.2	<0.05	8	0.5	<0.2

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.



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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164357	Soil	1.0	23.4	9.1	59	0.2	13.2	9.4	587	2.71	4.9	2.6	1.7	8.4	33	0.1	0.3	0.1	50	0.54	0.053
ROS 164351	Soil	0.6	30.2	9.1	59	<0.1	8.7	6.1	419	2.48	4.0	2.1	0.9	13.0	41	0.1	0.3	0.1	39	0.71	0.051
ROS 163009	Soil	2.3	39.3	24.3	97	0.1	47.5	20.6	1167	4.75	2.1	9.8	<0.5	32.2	51	0.2	0.2	0.3	99	1.17	0.112
ROS 163003	Soil	0.7	32.0	8.3	54	0.1	13.3	7.9	328	2.10	2.4	4.2	4.7	12.4	43	0.1	0.3	0.2	39	0.63	0.058
ROS 159050	Soil	2.9	50.0	6.9	204	0.1	11.6	20.3	1331	5.64	1.9	1.1	<0.5	6.4	32	0.2	0.1	0.2	137	0.33	0.071
ROS 159052	Soil	2.7	10.8	8.2	116	<0.1	9.7	9.4	831	3.87	27.6	2.5	<0.5	14.9	23	<0.1	0.2	0.2	53	0.20	0.045
ROS 159047	Soil	1.3	25.2	7.6	104	0.2	10.9	11.1	536	3.07	4.1	1.3	1.4	4.2	40	0.1	0.2	0.1	79	0.46	0.041
ROS 164361	Soil	0.6	18.4	7.0	59	<0.1	8.5	7.9	444	2.78	2.6	2.8	<0.5	14.5	30	<0.1	0.2	0.2	51	0.39	0.042
ROS 159036	Soil	1.8	22.4	6.6	96	<0.1	8.8	11.5	442	4.05	5.2	2.4	1.7	15.3	54	<0.1	0.3	0.3	67	0.20	0.027
ROS 159051	Soil	3.5	12.7	9.6	67	<0.1	10.0	7.6	457	3.17	4.6	1.7	2.5	10.6	18	0.1	0.2	0.2	58	0.17	0.028
ROS 159048	Soil	1.4	27.0	7.8	95	0.2	12.3	11.8	624	3.14	4.5	1.5	2.0	5.8	41	<0.1	0.2	0.2	72	0.36	0.044
ROS 164359	Soil	1.1	22.0	9.7	64	0.2	13.8	8.0	409	2.95	5.2	3.5	1.9	12.0	38	<0.1	0.2	0.2	53	0.58	0.047
ROS 159054	Soil	1.4	11.5	11.4	70	<0.1	9.9	8.8	673	3.42	6.1	2.0	1.1	10.1	15	<0.1	0.3	0.2	67	0.18	0.054
ROS 159049	Soil	1.6	31.5	8.8	101	<0.1	12.2	15.1	799	3.48	5.0	1.0	0.6	5.3	25	<0.1	0.2	0.2	84	0.33	0.043
ROS 159044	Soil	2.1	71.6	16.7	240	0.4	13.7	10.6	593	3.78	2.9	8.7	2.5	18.0	43	0.7	0.2	0.3	69	0.42	0.059
ROS 164356	Soil	1.2	20.2	9.8	64	0.2	12.1	9.5	593	2.80	4.8	2.0	1.0	7.7	28	0.1	0.3	0.1	55	0.38	0.041
ROS 159053	Soil	1.9	23.3	10.6	95	<0.1	16.0	10.0	604	3.54	5.5	2.4	1.0	15.4	23	0.1	0.3	0.2	61	0.24	0.029
ROS 159041	Soil	1.2	31.0	12.2	83	<0.1	15.1	9.2	285	2.69	6.8	1.8	5.2	9.9	26	<0.1	0.4	0.1	56	0.23	0.015
ROS 159045	Soil	2.6	72.5	14.8	241	0.4	10.7	17.7	712	4.48	2.5	8.5	1.4	13.8	43	0.6	0.2	0.3	98	0.43	0.069
ROS 164353	Soil	1.2	28.3	7.7	94	<0.1	5.5	11.5	924	4.31	2.8	1.8	<0.5	10.9	43	<0.1	0.1	<0.1	82	0.77	0.038



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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000610.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164357	Soil	43	22	0.63	161	0.091	<1	1.70	0.014	0.23	0.1	0.04	4.2	0.1	<0.05	7	0.6	<0.2
ROS 164351	Soil	30	15	0.67	124	0.076	<1	1.99	0.013	0.37	<0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 163009	Soil	56	175	1.66	96	0.130	2	2.41	0.008	0.44	0.3	0.02	10.5	0.5	<0.05	12	<0.5	<0.2
ROS 163003	Soil	64	19	0.50	225	0.087	<1	2.12	0.015	0.31	<0.1	0.06	4.8	0.2	0.06	7	<0.5	<0.2
ROS 159050	Soil	11	30	2.13	323	0.247	<1	3.51	0.020	1.82	<0.1	0.01	4.5	0.5	0.07	11	<0.5	<0.2
ROS 159052	Soil	30	17	1.19	143	0.159	<1	2.82	0.012	0.65	<0.1	0.01	3.5	0.4	<0.05	10	<0.5	<0.2
ROS 159047	Soil	14	23	0.90	188	0.157	<1	2.11	0.014	0.34	0.1	0.04	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 164361	Soil	42	14	0.65	144	0.146	<1	2.04	0.014	0.61	<0.1	0.03	4.2	0.3	<0.05	7	<0.5	<0.2
ROS 159036	Soil	26	16	0.87	171	0.212	<1	2.65	0.014	0.87	<0.1	<0.01	3.3	0.6	<0.05	10	<0.5	<0.2
ROS 159051	Soil	28	21	0.72	112	0.139	<1	2.09	0.011	0.31	0.1	0.01	3.3	0.3	<0.05	8	0.6	<0.2
ROS 159048	Soil	18	25	0.92	177	0.147	<1	2.21	0.016	0.37	0.1	0.03	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 164359	Soil	60	25	0.68	192	0.106	<1	2.06	0.016	0.28	0.1	0.07	4.7	0.2	<0.05	7	0.8	<0.2
ROS 159054	Soil	14	21	0.78	103	0.127	<1	2.24	0.010	0.26	0.1	0.02	3.8	0.2	<0.05	11	<0.5	<0.2
ROS 159049	Soil	13	25	1.14	182	0.167	<1	2.27	0.013	0.47	<0.1	<0.01	2.8	0.2	<0.05	9	<0.5	<0.2
ROS 159044	Soil	58	19	0.87	315	0.181	<1	2.91	0.012	0.79	<0.1	0.06	8.1	0.4	<0.05	11	0.8	<0.2
ROS 164356	Soil	37	22	0.71	168	0.113	<1	1.92	0.017	0.26	0.1	0.04	3.7	0.2	<0.05	7	<0.5	<0.2
ROS 159053	Soil	36	25	0.94	181	0.168	<1	2.69	0.015	0.46	0.1	0.01	5.2	0.3	<0.05	9	<0.5	<0.2
ROS 159041	Soil	29	30	0.55	207	0.109	<1	1.68	0.016	0.17	<0.1	<0.01	3.8	0.2	<0.05	6	0.5	<0.2
ROS 159045	Soil	57	13	1.21	355	0.206	<1	3.23	0.013	0.96	<0.1	0.09	6.9	0.4	0.05	11	<0.5	<0.2
ROS 164353	Soil	21	9	1.62	192	0.200	<1	3.44	0.012	1.08	<0.1	0.01	4.8	0.5	<0.05	12	<0.5	<0.2



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Project: ROS
 Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000610.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	
Pulp Duplicates																					
ROS 152523	Soil	0.5	31.8	6.9	43	<0.1	23.2	9.3	391	2.25	7.4	0.5	2.3	3.0	42	0.4	0.6	<0.1	52	2.12	0.064
REP ROS 152523	QC	0.5	33.7	7.1	46	<0.1	22.2	9.1	390	2.25	7.4	0.6	6.5	2.9	43	0.4	0.6	<0.1	53	2.12	0.065
ROS 159162	Soil	0.7	12.4	7.1	43	<0.1	12.7	6.0	180	2.10	6.4	0.9	2.4	4.2	22	<0.1	0.4	0.2	49	0.31	0.047
REP ROS 159162	QC	0.7	12.9	7.2	43	<0.1	13.5	6.1	184	2.12	6.3	0.8	1.2	4.2	22	<0.1	0.4	0.1	51	0.30	0.047
ROS 159269	Soil	0.4	21.3	6.5	66	<0.1	17.1	8.8	411	2.10	4.9	1.2	2.1	3.1	37	0.2	0.4	0.1	48	0.66	0.070
REP ROS 159269	QC	0.5	22.0	6.7	65	0.1	17.1	9.8	425	2.16	5.2	1.2	1.6	3.1	39	0.2	0.4	0.1	49	0.72	0.071
ROS 151261	Soil	0.4	25.9	8.1	63	<0.1	20.0	10.4	374	2.51	9.8	1.1	3.8	4.0	39	0.2	0.8	0.1	56	0.73	0.063
REP ROS 151261	QC	0.4	25.8	8.1	61	<0.1	19.1	10.5	371	2.53	9.7	1.1	3.0	4.0	41	0.3	0.8	0.1	56	0.73	0.063
ROS 151105	Soil	0.4	29.9	9.1	53	0.1	23.8	9.2	358	2.41	7.2	1.4	3.2	3.2	47	0.1	0.6	0.1	52	0.95	0.048
REP ROS 151105	QC	0.3	29.9	9.4	53	0.1	22.3	9.7	365	2.44	7.5	1.5	5.4	3.0	48	0.2	0.6	0.1	53	0.96	0.049
ROS 151101	Soil	0.6	40.1	13.0	104	0.2	18.4	11.1	495	3.33	7.7	0.9	7.8	5.8	32	0.2	3.7	0.2	69	0.80	0.073
REP ROS 151101	QC	0.6	41.5	12.7	106	0.2	18.0	11.6	510	3.41	7.7	0.9	8.3	6.0	33	0.2	3.7	0.1	71	0.81	0.071
ROS 164844	Soil	0.4	9.6	6.1	70	<0.1	7.0	7.2	695	2.80	3.7	1.9	<0.5	28.8	9	<0.1	0.4	0.3	35	0.09	0.026
REP ROS 164844	QC	0.5	10.3	6.6	71	<0.1	7.5	7.4	741	3.00	3.9	2.0	0.5	30.1	9	<0.1	0.5	0.3	37	0.09	0.028
ROS 159253	Soil	0.5	13.6	6.5	48	<0.1	10.6	6.2	236	1.95	4.6	1.2	1.8	6.4	23	<0.1	0.3	0.1	43	0.30	0.041
REP ROS 159253	QC	0.5	13.1	6.5	46	<0.1	10.5	6.3	233	1.91	4.3	1.2	<0.5	6.4	23	<0.1	0.3	0.2	43	0.29	0.042
ROS 160155	Soil	0.8	15.2	9.0	70	<0.1	11.8	8.2	383	2.44	4.2	0.8	1.2	3.2	19	0.2	0.2	0.1	56	0.22	0.040
REP ROS 160155	QC	0.9	15.9	9.4	69	<0.1	12.1	9.1	390	2.53	4.7	0.9	1.4	3.1	21	0.2	0.3	0.2	56	0.23	0.043
ROS 165617	Soil	0.5	26.0	9.0	56	0.1	20.9	8.9	445	2.37	7.8	1.1	1.8	2.1	53	0.1	0.7	0.1	49	1.17	0.056
REP ROS 165617	QC	0.5	26.8	9.0	60	0.1	22.6	9.4	445	2.40	8.0	1.1	1.9	2.2	54	0.2	0.7	0.1	51	1.23	0.058
ROS 163930	Soil	0.9	7.0	8.5	33	<0.1	6.5	5.3	336	1.57	3.3	0.6	1.7	5.4	7	<0.1	0.2	0.4	38	0.08	0.025
REP ROS 163930	QC	1.0	8.3	8.2	37	0.1	7.7	4.9	357	1.62	3.5	0.6	9.5	5.2	7	0.1	0.2	0.4	40	0.09	0.027
ROS 173035	Soil	0.4	34.6	9.6	46	0.1	28.6	9.0	371	2.36	9.2	0.4	6.9	4.1	28	<0.1	0.6	0.1	62	1.17	0.019
REP ROS 173035	QC	0.6	35.1	10.1	48	<0.1	27.7	9.7	384	2.45	11.1	0.5	6.1	4.2	31	0.2	0.7	0.1	61	1.32	0.019
ROS 164379	Soil	0.9	28.3	12.6	60	<0.1	23.2	10.7	490	2.91	8.4	0.8	0.8	10.4	25	<0.1	0.5	0.2	60	0.43	0.017
REP ROS 164379	QC	0.9	29.0	12.8	60	<0.1	24.6	10.8	488	2.96	8.7	0.8	1.5	10.5	25	<0.1	0.5	0.2	60	0.41	0.017
ROS 165586	Soil	1.0	32.6	10.7	98	0.3	16.3	9.9	285	3.31	10.0	0.8	1.1	2.8	62	0.3	1.3	<0.1	77	0.69	0.096
REP ROS 165586	QC	1.1	31.6	11.7	94	0.3	16.8	9.5	284	3.25	9.9	0.8	1.6	2.7	64	0.4	1.3	<0.1	76	0.67	0.093

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Project: ROS
 Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000610.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 152523	Soil	12	23	0.92	179	0.061	2	1.32	0.013	0.15	0.2	0.06	4.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 152523	QC	12	23	0.95	174	0.062	2	1.36	0.013	0.15	0.1	0.04	4.9	<0.1	<0.05	4	0.9	<0.2
ROS 159162	Soil	15	25	0.43	201	0.073	<1	1.35	0.011	0.04	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159162	QC	15	26	0.43	197	0.072	<1	1.42	0.016	0.04	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	0.2
ROS 159269	Soil	15	23	0.55	225	0.074	2	1.35	0.024	0.09	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159269	QC	16	23	0.57	226	0.076	2	1.42	0.024	0.10	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 151261	Soil	15	26	0.51	325	0.071	2	1.59	0.022	0.06	0.2	0.04	3.6	<0.1	<0.05	5	0.6	<0.2
REP ROS 151261	QC	15	27	0.50	330	0.073	2	1.56	0.025	0.06	0.2	0.06	3.7	<0.1	<0.05	4	<0.5	0.3
ROS 151105	Soil	12	27	0.57	308	0.070	2	1.53	0.032	0.06	0.7	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 151105	QC	12	27	0.58	306	0.068	2	1.51	0.031	0.06	0.7	0.02	3.5	<0.1	<0.05	4	0.9	<0.2
ROS 151101	Soil	18	36	0.84	331	0.057	1	1.99	0.019	0.14	0.2	0.32	5.4	<0.1	<0.05	7	<0.5	<0.2
REP ROS 151101	QC	18	37	0.83	331	0.060	2	2.01	0.019	0.14	0.3	0.33	5.7	<0.1	<0.05	8	<0.5	0.2
ROS 164844	Soil	37	14	0.51	115	0.090	<1	1.43	0.007	0.46	0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
REP ROS 164844	QC	40	15	0.53	122	0.096	<1	1.49	0.008	0.49	0.1	<0.01	4.3	0.2	<0.05	6	0.7	<0.2
ROS 159253	Soil	17	21	0.40	179	0.078	<1	1.15	0.015	0.08	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159253	QC	17	21	0.40	174	0.074	<1	1.12	0.012	0.08	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160155	Soil	12	21	0.57	127	0.093	<1	1.53	0.009	0.11	0.2	0.03	2.6	0.1	<0.05	6	<0.5	<0.2
REP ROS 160155	QC	13	23	0.60	128	0.100	<1	1.62	0.010	0.12	0.2	0.03	2.7	0.2	<0.05	6	0.6	<0.2
ROS 165617	Soil	12	26	0.57	272	0.062	1	1.40	0.020	0.09	0.1	0.04	3.3	<0.1	<0.05	5	0.5	<0.2
REP ROS 165617	QC	12	27	0.58	283	0.068	1	1.42	0.025	0.10	0.1	0.03	3.4	<0.1	<0.05	5	0.6	<0.2
ROS 163930	Soil	10	12	0.23	69	0.082	<1	0.89	0.007	0.11	0.2	0.02	1.4	0.1	<0.05	6	<0.5	<0.2
REP ROS 163930	QC	11	15	0.23	70	0.084	<1	0.91	0.014	0.11	0.1	<0.01	1.6	0.1	<0.05	6	<0.5	<0.2
ROS 173035	Soil	15	32	0.62	221	0.073	2	1.56	0.020	0.06	0.1	0.07	3.7	<0.1	<0.05	4	<0.5	<0.2
REP ROS 173035	QC	15	34	0.65	218	0.069	2	1.62	0.022	0.06	0.2	0.03	4.2	<0.1	<0.05	5	0.8	<0.2
ROS 164379	Soil	32	31	0.59	223	0.105	2	1.78	0.019	0.22	0.1	0.02	5.2	0.2	<0.05	5	0.6	<0.2
REP ROS 164379	QC	32	32	0.59	228	0.104	1	1.75	0.019	0.21	0.1	0.02	5.4	0.1	<0.05	5	<0.5	<0.2
ROS 165586	Soil	21	38	0.83	366	0.083	<1	2.27	0.014	0.05	0.2	0.06	5.2	<0.1	<0.05	10	0.5	<0.2
REP ROS 165586	QC	20	40	0.80	351	0.084	<1	2.14	0.014	0.05	0.2	0.06	5.1	<0.1	<0.05	9	0.6	<0.2

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Project: ROS
Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000610.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 160549	Soil	1.6	28.7	8.5	82	0.1	13.2	8.2	508	3.47	4.8	3.2	2.4	12.0	49	0.1	0.5	0.2	71	0.61	0.085
REP ROS 160549	QC	1.5	29.2	8.5	81	0.1	14.2	8.7	525	3.46	4.6	3.2	2.3	12.6	49	<0.1	0.5	0.3	72	0.63	0.085
ROS 164065	Soil	0.7	33.1	5.7	66	<0.1	11.9	10.3	568	3.49	3.5	2.4	<0.5	18.3	65	<0.1	0.2	<0.1	61	0.37	0.039
REP ROS 164065	QC	0.9	34.0	5.8	68	<0.1	12.4	10.5	549	3.46	3.6	2.6	<0.5	19.2	64	<0.1	0.2	<0.1	61	0.37	0.039
ROS 163009	Soil	2.3	39.3	24.3	97	0.1	47.5	20.6	1167	4.75	2.1	9.8	<0.5	32.2	51	0.2	0.2	0.3	99	1.17	0.112
REP ROS 163009	QC	2.4	39.1	26.3	103	0.1	46.8	21.5	1194	4.86	2.2	10.2	1.9	34.1	52	0.2	0.2	0.3	98	1.21	0.112
ROS 159036	Soil	1.8	22.4	6.6	96	<0.1	8.8	11.5	442	4.05	5.2	2.4	1.7	15.3	54	<0.1	0.3	0.3	67	0.20	0.027
REP ROS 159036	QC	1.9	21.8	6.4	99	<0.1	9.7	11.4	442	3.94	5.0	2.5	1.4	15.1	54	<0.1	0.2	0.3	66	0.20	0.026
Reference Materials																					
STD DS7	Standard	22.1	115.2	71.9	396	1.0	58.3	9.9	631	2.47	49.2	5.0	65.9	5.0	74	6.1	5.6	4.3	87	0.94	0.078
STD DS7	Standard	20.4	109.5	76.4	390	1.0	55.9	9.6	625	2.35	49.5	5.0	63.0	4.8	69	5.9	6.1	4.8	83	0.90	0.074
STD DS7	Standard	18.6	107.9	65.4	347	0.8	55.4	8.8	557	2.04	43.6	4.4	62.5	3.8	60	5.3	4.8	4.0	79	0.80	0.065
STD DS7	Standard	21.9	111.5	72.3	404	1.4	56.6	9.3	645	2.44	51.3	5.2	72.6	5.2	81	6.2	6.2	4.9	87	1.02	0.078
STD DS7	Standard	20.8	103.6	56.0	377	0.9	54.9	9.3	613	2.40	52.0	4.2	67.2	4.0	78	6.3	5.5	3.9	82	0.97	0.076
STD DS7	Standard	21.3	112.8	69.7	395	1.0	55.9	9.3	636	2.40	52.5	4.5	75.9	4.5	77	6.2	5.6	4.4	88	0.97	0.076
STD DS7	Standard	21.8	111.2	71.0	403	1.0	55.6	9.8	661	2.45	51.9	5.0	76.5	4.9	78	6.4	5.9	4.7	88	0.97	0.076
STD DS7	Standard	20.0	107.0	66.0	387	0.9	56.9	9.7	630	2.43	51.1	4.8	73.3	4.5	73	5.9	5.7	4.5	87	0.95	0.077
STD DS7	Standard	19.4	95.3	60.5	353	0.8	48.6	8.7	547	2.09	42.9	4.3	57.0	3.7	67	5.3	4.8	3.9	77	0.85	0.063
STD DS7	Standard	19.6	104.2	65.5	380	0.9	54.3	9.0	610	2.26	49.3	4.8	56.6	4.7	67	5.4	5.7	4.4	82	0.90	0.073
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: ROS
Report Date: November 12, 2010

Page: 2 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI10000610.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 160549	Soil	36	24	0.69	197	0.082	<1	2.22	0.015	0.20	0.1	0.03	5.6	0.1	<0.05	8	<0.5	<0.2
REP ROS 160549	QC	38	26	0.68	190	0.082	1	2.34	0.022	0.19	<0.1	0.03	5.7	0.1	<0.05	8	<0.5	<0.2
ROS 164065	Soil	44	15	0.84	223	0.178	<1	2.65	0.024	1.01	<0.1	<0.01	3.8	0.5	<0.05	9	<0.5	<0.2
REP ROS 164065	QC	46	15	0.81	219	0.183	<1	2.49	0.025	1.00	<0.1	0.01	4.1	0.5	<0.05	9	<0.5	<0.2
ROS 163009	Soil	56	175	1.66	96	0.130	2	2.41	0.008	0.44	0.3	0.02	10.5	0.5	<0.05	12	<0.5	<0.2
REP ROS 163009	QC	58	171	1.71	100	0.129	3	2.48	0.008	0.46	0.3	0.03	10.7	0.5	<0.05	12	<0.5	<0.2
ROS 159036	Soil	26	16	0.87	171	0.212	<1	2.65	0.014	0.87	<0.1	<0.01	3.3	0.6	<0.05	10	<0.5	<0.2
REP ROS 159036	QC	26	16	0.88	173	0.210	<1	2.70	0.011	0.89	<0.1	0.01	3.4	0.6	<0.05	10	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	14	206	1.07	393	0.131	42	1.06	0.098	0.49	3.5	0.19	2.7	4.1	0.19	4	3.3	0.9
STD DS7	Standard	12	192	1.02	402	0.118	36	0.97	0.090	0.47	3.4	0.23	2.2	4.0	0.21	4	3.7	1.0
STD DS7	Standard	11	186	0.92	321	0.106	33	0.88	0.080	0.41	3.4	0.18	1.9	3.6	0.19	4	1.6	<0.2
STD DS7	Standard	15	206	1.09	415	0.133	39	1.09	0.101	0.49	3.8	0.23	2.6	4.2	0.20	5	3.7	2.0
STD DS7	Standard	13	192	1.01	387	0.134	38	1.05	0.103	0.48	3.4	0.19	2.8	3.7	0.18	5	3.4	0.7
STD DS7	Standard	14	201	1.09	400	0.125	41	1.09	0.106	0.48	3.6	0.21	2.7	4.1	0.22	5	3.3	1.6
STD DS7	Standard	14	196	1.12	412	0.132	40	1.10	0.101	0.49	4.1	0.23	2.7	4.2	0.17	5	4.0	1.1
STD DS7	Standard	12	199	1.08	403	0.118	39	1.06	0.103	0.49	3.5	0.21	2.5	4.2	0.15	5	3.2	1.5
STD DS7	Standard	11	182	0.93	345	0.113	34	0.92	0.098	0.44	3.1	0.19	2.4	3.8	0.17	4	2.2	0.5
STD DS7	Standard	13	190	1.02	375	0.119	39	0.95	0.098	0.44	3.5	0.20	2.2	4.0	0.18	4	3.0	1.7
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Val D'Or QC J9P 1S5 Canada

Project: ROS

Report Date: November 12, 2010

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI10000610.1

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



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Project: ROS

Report Date: November 12, 2010

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI10000610.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 16, 2010
Report Date: November 12, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000611.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS4
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

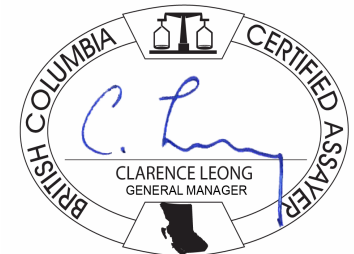
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

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

ADDITIONAL COMMENTS



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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 12, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000611.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164554	Soil	1.0	30.9	7.0	69	<0.1	21.3	10.7	302	2.84	5.2	1.0	1.3	3.7	24	<0.1	0.3	0.1	70	0.34	0.044
ROS 164555	Soil	1.1	47.9	8.5	56	0.1	15.6	9.9	311	2.80	5.7	0.9	3.2	3.2	22	<0.1	0.3	0.1	67	0.33	0.058
ROS 164556	Soil	1.5	93.1	7.5	67	0.3	16.3	10.1	305	3.39	5.5	0.9	2.7	2.8	24	0.2	0.3	0.2	83	0.33	0.051
ROS 164553	Soil	1.5	36.9	7.3	78	0.1	18.0	10.6	302	3.30	3.6	1.1	1.0	3.0	25	0.2	0.2	0.1	84	0.36	0.068
ROS 164566	Soil	2.1	41.8	30.6	170	0.1	15.9	8.9	726	3.70	5.9	2.3	0.6	17.5	28	0.2	0.2	0.1	68	0.24	0.035
ROS 164552	Soil	1.6	36.1	6.4	76	0.1	17.6	10.6	313	3.24	3.6	1.0	0.5	2.9	24	0.1	0.2	<0.1	86	0.41	0.071
ROS 164551	Soil	2.5	45.4	11.8	81	0.2	17.0	13.0	302	3.37	5.0	1.1	2.5	4.0	21	<0.1	0.3	0.1	77	0.23	0.038
ROS 164550	Soil	0.9	23.7	6.4	67	<0.1	11.8	7.2	406	3.40	5.0	0.6	3.3	3.1	11	<0.1	0.3	<0.1	44	0.14	0.030
ROS 164549	Soil	0.7	18.7	6.1	52	<0.1	15.8	9.5	310	2.77	6.0	0.5	1.3	2.8	21	<0.1	0.3	0.1	57	0.28	0.033
ROS 164548	Soil	0.6	19.5	7.1	49	<0.1	17.5	8.2	297	2.33	6.2	0.5	1.9	3.3	19	<0.1	0.4	0.1	48	0.25	0.038
ROS 164547	Soil	0.6	17.9	5.7	52	<0.1	17.3	9.5	439	2.70	5.5	0.4	0.8	2.7	18	<0.1	0.4	<0.1	47	0.25	0.033
ROS 164546	Soil	0.8	25.6	8.0	54	<0.1	22.1	11.1	312	2.85	8.4	0.5	4.6	4.0	14	<0.1	0.5	0.1	64	0.19	0.024
ROS 164669	Soil	0.6	21.3	8.2	214	<0.1	9.8	9.2	699	3.15	4.7	2.8	3.1	14.8	99	0.1	0.3	0.1	56	0.39	0.028
ROS 164666	Soil	0.9	16.8	5.9	69	<0.1	8.6	9.1	408	3.06	4.4	2.5	1.8	12.3	106	0.1	0.2	0.3	51	0.36	0.025
ROS 164664	Soil	1.1	15.2	8.8	82	<0.1	13.1	7.3	274	2.86	7.6	0.9	1.5	5.1	21	0.2	0.3	0.2	59	0.19	0.025
ROS 164662	Soil	0.9	18.3	11.3	94	0.1	14.9	8.9	341	2.86	6.3	1.4	1.6	3.8	29	0.2	0.2	0.2	57	0.21	0.046
ROS 164501	Soil	0.6	42.0	3.1	38	<0.1	15.1	12.7	273	2.57	3.4	0.4	1.2	1.2	16	<0.1	0.2	<0.1	65	0.39	0.076
ROS 164504	Soil	1.0	73.3	5.3	46	0.2	18.6	15.3	244	2.64	4.6	0.6	2.2	1.5	15	0.1	0.3	0.1	71	0.27	0.057
ROS 164505	Soil	0.4	26.3	1.8	41	<0.1	19.3	16.5	349	2.66	1.9	0.2	<0.5	0.9	13	<0.1	<0.1	<0.1	73	0.42	0.053
ROS 164502	Soil	0.7	54.4	3.8	35	<0.1	23.4	11.2	243	2.17	3.2	0.5	3.6	1.8	15	<0.1	0.2	<0.1	55	0.34	0.059
ROS 164508	Soil	0.8	23.2	7.0	46	<0.1	18.1	9.0	240	2.46	6.4	0.6	1.6	1.8	16	<0.1	0.3	0.1	60	0.25	0.047
ROS 164506	Soil	0.7	23.6	4.7	45	0.1	23.6	11.5	248	2.39	3.5	0.5	<0.5	0.8	15	<0.1	0.1	<0.1	61	0.25	0.053
ROS 164507	Soil	0.6	19.6	5.1	28	<0.1	26.7	6.4	110	1.67	3.2	0.6	0.9	0.3	14	0.1	0.2	<0.1	36	0.18	0.049
ROS 164510	Soil	0.4	26.4	7.7	48	<0.1	20.9	9.7	311	2.47	7.9	0.8	2.1	3.4	20	<0.1	0.4	0.1	51	0.26	0.049
ROS 164512	Soil	1.2	22.7	8.7	62	<0.1	23.8	13.7	647	3.22	9.5	0.4	3.8	3.1	18	<0.1	0.5	0.2	75	0.21	0.038
ROS 164509	Soil	0.6	20.2	6.8	39	<0.1	17.0	8.6	241	2.60	5.5	0.5	1.0	1.2	13	<0.1	0.2	<0.1	62	0.25	0.034
ROS 164511	Soil	0.5	26.6	5.8	57	<0.1	34.4	13.1	390	2.81	6.2	0.4	1.3	2.6	27	<0.1	0.4	<0.1	62	0.34	0.062
ROS 164503	Soil	0.9	91.6	5.1	44	0.1	19.8	12.6	233	2.38	4.5	0.6	2.5	1.4	16	<0.1	0.3	<0.1	62	0.33	0.058
ROS 160854	Soil	0.9	26.7	8.1	51	0.1	22.3	9.7	413	2.46	8.4	1.1	2.4	3.7	33	0.1	0.6	0.1	51	0.59	0.063
ROS 160856	Soil	0.8	18.0	6.7	47	<0.1	13.0	6.4	227	2.16	4.6	0.9	1.0	4.6	23	0.1	0.3	0.1	49	0.30	0.032

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000611.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.05	1	0.5	0.2		
ROS 164554	Soil			13	29	0.72	330	0.113	<1	1.52	0.020	0.13	0.1	0.01	4.5	0.1	0.06	6	0.6	<0.2
ROS 164555	Soil			12	28	0.58	316	0.097	<1	1.36	0.022	0.09	0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164556	Soil			10	30	0.70	406	0.140	<1	1.66	0.019	0.19	0.2	0.02	4.0	0.1	0.05	6	0.8	<0.2
ROS 164553	Soil			11	23	0.85	389	0.130	<1	1.51	0.029	0.37	<0.1	<0.01	5.2	0.2	0.09	6	0.6	<0.2
ROS 164566	Soil			29	17	1.25	142	0.187	<1	2.51	0.011	1.00	<0.1	<0.01	5.4	0.6	<0.05	10	<0.5	<0.2
ROS 164552	Soil			11	21	0.88	409	0.136	<1	1.60	0.032	0.39	<0.1	0.01	5.5	0.2	0.09	6	0.7	<0.2
ROS 164551	Soil			18	28	0.75	260	0.110	<1	1.74	0.021	0.17	0.1	0.01	5.1	0.1	<0.05	6	<0.5	<0.2
ROS 164550	Soil			15	18	0.65	172	0.124	<1	1.75	0.013	0.31	0.1	0.01	5.6	0.1	<0.05	7	<0.5	<0.2
ROS 164549	Soil			10	26	0.65	176	0.071	<1	1.56	0.016	0.05	0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164548	Soil			12	29	0.52	209	0.079	2	1.37	0.015	0.06	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164547	Soil			9	26	0.53	216	0.109	<1	1.58	0.014	0.15	0.2	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164546	Soil			9	35	0.58	191	0.094	<1	1.89	0.013	0.07	0.2	0.03	3.6	<0.1	<0.05	6	0.6	<0.2
ROS 164669	Soil			47	18	1.21	262	0.175	<1	2.23	0.023	0.70	<0.1	0.03	8.0	0.4	<0.05	7	<0.5	<0.2
ROS 164666	Soil			47	16	0.70	403	0.129	<1	2.09	0.027	0.54	<0.1	<0.01	4.2	0.4	<0.05	7	<0.5	0.2
ROS 164664	Soil			15	24	0.50	213	0.090	<1	1.91	0.010	0.10	0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
ROS 164662	Soil			18	26	0.57	177	0.086	1	2.12	0.011	0.12	<0.1	0.04	3.0	0.2	<0.05	7	<0.5	0.2
ROS 164501	Soil			8	26	0.79	204	0.103	<1	1.55	0.024	0.26	0.1	0.02	2.6	0.1	<0.05	5	<0.5	<0.2
ROS 164504	Soil			8	26	0.62	149	0.080	<1	1.72	0.019	0.09	0.3	0.04	2.9	<0.1	<0.05	5	0.5	<0.2
ROS 164505	Soil			3	39	1.16	220	0.145	<1	1.83	0.031	0.38	0.1	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 164502	Soil			8	34	0.77	128	0.092	<1	1.38	0.019	0.14	0.5	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164508	Soil			10	31	0.56	191	0.074	1	1.83	0.015	0.06	0.2	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 164506	Soil			8	53	0.85	208	0.111	<1	1.70	0.016	0.31	0.1	0.02	1.9	0.1	<0.05	6	<0.5	<0.2
ROS 164507	Soil			10	60	0.49	168	0.044	<1	1.38	0.012	0.06	0.1	0.05	1.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164510	Soil			14	29	0.56	288	0.074	<1	1.61	0.015	0.06	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164512	Soil			9	42	0.65	209	0.103	2	2.45	0.012	0.08	0.2	0.02	3.8	0.1	<0.05	8	<0.5	<0.2
ROS 164509	Soil			8	35	0.63	171	0.091	<1	1.87	0.014	0.15	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164511	Soil			10	68	1.00	235	0.112	1	1.90	0.018	0.14	0.3	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 164503	Soil			9	34	0.67	168	0.077	<1	1.63	0.024	0.10	0.3	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160854	Soil			14	27	0.51	273	0.068	1	1.43	0.021	0.06	0.2	0.02	3.5	<0.1	0.05	4	<0.5	<0.2
ROS 160856	Soil			13	26	0.48	160	0.095	<1	1.50	0.018	0.17	<0.1	0.01	2.9	0.1	<0.05	5	<0.5	<0.2

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000611.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160864	Soil		1.1	35.3	10.7	58	<0.1	10.0	7.9	315	3.02	3.8	2.4	0.9	22.7	16	<0.1	0.3	0.9	42	0.25	0.022
ROS 160868	Soil		1.0	24.6	10.4	69	<0.1	18.9	9.1	757	2.86	5.5	0.8	2.7	13.2	22	0.1	0.4	0.1	49	0.44	0.075
ROS 164673	Soil		2.6	25.0	3.2	63	<0.1	4.7	14.7	666	5.02	2.1	2.5	<0.5	8.9	21	<0.1	0.1	<0.1	117	0.17	0.034
ROS 164672	Soil		2.4	24.0	3.7	60	<0.1	4.0	14.3	692	5.04	1.7	2.8	<0.5	9.6	19	<0.1	<0.1	<0.1	122	0.16	0.035
ROS 164670	Soil		1.3	18.3	5.2	54	<0.1	6.1	7.7	591	3.54	3.3	2.3	<0.5	15.1	88	<0.1	0.2	0.2	67	0.17	0.035
ROS 164668	Soil		1.0	10.7	9.7	75	<0.1	8.9	7.6	374	2.87	5.1	1.9	1.6	12.0	52	<0.1	0.3	0.3	52	0.15	0.027
ROS 164663	Soil		0.9	16.5	7.9	84	<0.1	11.1	8.1	377	2.52	4.4	1.2	0.7	6.0	38	0.1	0.3	0.2	54	0.25	0.041
ROS 164671	Soil		1.8	14.8	8.3	69	<0.1	6.6	6.1	384	4.12	4.0	2.7	0.8	15.7	69	<0.1	0.2	0.2	68	0.09	0.047
ROS 164667	Soil		1.9	14.3	7.1	65	<0.1	7.1	8.8	363	3.91	3.6	3.5	1.1	21.1	42	0.1	0.2	0.3	46	0.14	0.035
ROS 164665	Soil		0.9	17.7	8.2	70	<0.1	10.4	9.0	443	3.37	4.6	3.0	0.9	15.0	124	0.1	0.3	0.3	59	0.36	0.026
ROS 173043	Soil		0.8	23.4	12.2	60	0.2	18.3	8.1	414	2.29	6.6	1.2	2.8	2.6	54	0.2	1.2	0.2	44	1.32	0.050
ROS 173049	Soil		0.9	31.1	24.1	66	0.2	28.1	10.0	431	2.41	8.7	0.5	3.9	3.4	59	0.2	0.8	0.1	55	4.03	0.051
ROS 173050	Soil		0.5	27.5	16.1	60	0.1	20.9	9.5	408	2.44	7.4	0.4	2.3	3.5	36	0.2	0.5	0.1	56	1.33	0.042
ROS 173044	Soil		0.6	24.4	10.4	59	0.2	20.1	8.1	375	2.19	6.4	1.1	2.2	2.3	51	0.2	1.0	0.2	45	1.32	0.054
ROS 173045	Soil		0.5	24.9	16.9	68	0.1	18.3	7.5	459	2.44	5.4	0.8	2.0	3.1	35	0.3	0.6	0.1	49	1.36	0.043
ROS 173047	Soil		0.7	22.1	17.3	55	0.1	22.7	7.6	695	2.22	6.3	1.0	4.0	2.7	48	0.5	0.6	0.1	46	3.40	0.044
ROS 173046	Soil		1.1	17.5	15.8	156	<0.1	17.4	10.9	499	3.89	9.5	0.5	0.6	4.0	49	0.5	1.4	0.1	86	0.42	0.039
ROS 173042	Soil		0.6	21.4	11.2	55	0.1	16.2	8.0	396	2.20	6.1	1.3	2.5	3.7	46	0.2	1.3	0.2	43	0.96	0.043
ROS 163937	Soil		1.1	23.4	10.8	58	0.2	16.1	11.2	1187	2.50	6.5	0.9	1.9	4.7	21	<0.1	0.4	0.2	66	0.21	0.033
ROS 163939	Soil		0.4	14.1	7.1	37	<0.1	8.6	4.3	181	1.64	1.9	1.2	1.9	7.7	19	<0.1	0.3	0.1	37	0.21	0.018
ROS 163941	Soil		0.7	23.0	8.1	51	<0.1	17.6	6.5	244	2.19	5.3	1.2	2.9	5.6	29	0.1	0.5	0.2	45	0.38	0.048
ROS 163943	Soil		0.6	18.3	8.2	43	<0.1	14.5	5.9	178	2.02	4.5	1.0	4.6	4.8	27	<0.1	0.4	0.1	47	0.35	0.041
ROS 163922	Soil		0.9	15.4	7.5	44	<0.1	13.7	6.6	254	2.16	4.9	0.9	2.1	6.8	24	<0.1	0.3	0.2	46	0.33	0.044
ROS 164173	Soil		0.5	13.8	8.7	50	0.3	14.5	4.6	187	1.63	2.0	1.2	0.9	3.0	27	0.1	0.1	0.2	29	0.16	0.045
ROS 164167	Soil		1.4	25.8	8.3	86	0.3	22.4	8.5	246	2.77	2.4	1.5	1.3	4.5	28	0.3	0.1	0.3	50	0.17	0.047
ROS 164169	Soil		0.4	13.7	6.2	38	0.2	15.5	5.9	181	2.07	2.3	1.8	<0.5	4.4	21	0.1	0.1	0.2	33	0.16	0.049
ROS 164170	Soil		0.5	18.7	5.3	32	0.2	14.4	5.8	162	2.01	1.6	2.4	0.6	4.7	27	<0.1	<0.1	0.2	28	0.15	0.042
ROS 164168	Soil		0.3	13.0	7.1	41	0.2	13.5	5.0	144	1.69	1.5	1.3	1.6	2.7	16	0.1	0.1	0.2	22	0.13	0.036
ROS 164165	Soil		1.4	53.5	9.6	108	0.1	34.3	11.0	342	3.61	2.8	1.7	2.6	7.7	35	0.1	0.1	0.4	77	0.22	0.046
ROS 164175	Soil		1.0	29.7	10.4	101	0.1	21.6	10.4	382	2.80	5.9	1.6	2.2	7.7	32	0.3	0.3	0.3	60	0.22	0.037

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 160864	Soil	30	18	0.70	98	0.076	1	1.84	0.006	0.29	0.4	<0.01	4.3	0.4	<0.05	8	<0.5	<0.2
ROS 160868	Soil	32	20	0.65	170	0.095	1	1.37	0.024	0.31	0.2	0.02	4.7	0.2	<0.05	5	<0.5	<0.2
ROS 164673	Soil	23	8	1.59	172	0.267	<1	2.82	0.010	1.15	<0.1	0.01	5.4	0.6	<0.05	10	<0.5	0.3
ROS 164672	Soil	26	7	1.65	170	0.274	<1	2.79	0.010	1.23	<0.1	<0.01	5.9	0.7	<0.05	10	<0.5	<0.2
ROS 164670	Soil	33	11	0.92	159	0.181	<1	2.54	0.013	0.84	<0.1	0.01	4.3	0.5	0.07	8	<0.5	<0.2
ROS 164668	Soil	34	17	0.64	185	0.112	<1	2.31	0.016	0.38	<0.1	<0.01	3.3	0.3	<0.05	6	<0.5	0.3
ROS 164663	Soil	23	20	0.56	203	0.122	<1	1.77	0.011	0.29	0.2	0.02	2.5	0.2	<0.05	7	0.6	<0.2
ROS 164671	Soil	36	12	0.96	191	0.197	1	2.38	0.018	0.99	<0.1	<0.01	4.7	0.6	0.11	9	0.7	0.3
ROS 164667	Soil	56	13	0.64	160	0.109	1	2.04	0.019	0.40	<0.1	<0.01	4.3	0.3	<0.05	7	1.0	<0.2
ROS 164665	Soil	54	16	0.76	426	0.154	2	2.32	0.025	0.62	<0.1	0.02	4.4	0.4	<0.05	8	0.5	0.3
ROS 173043	Soil	15	28	0.52	450	0.039	3	1.33	0.017	0.08	0.2	0.11	3.1	<0.1	<0.05	4	1.1	0.4
ROS 173049	Soil	12	29	1.13	177	0.094	2	1.57	0.019	0.12	0.1	0.13	5.3	0.1	<0.05	5	<0.5	0.3
ROS 173050	Soil	13	25	0.78	248	0.111	2	1.63	0.028	0.12	0.2	0.06	4.9	0.1	<0.05	6	0.5	<0.2
ROS 173044	Soil	13	31	0.52	357	0.048	2	1.35	0.017	0.06	0.2	0.07	2.9	<0.1	<0.05	4	0.7	<0.2
ROS 173045	Soil	16	23	0.73	213	0.089	2	1.84	0.012	0.19	<0.1	0.11	6.1	0.1	<0.05	6	<0.5	<0.2
ROS 173047	Soil	17	25	1.18	213	0.064	2	1.59	0.011	0.10	0.1	0.16	5.5	0.1	<0.05	5	0.8	0.2
ROS 173046	Soil	8	31	0.80	258	0.082	2	2.49	0.013	0.08	0.3	0.02	5.1	<0.1	<0.05	12	<0.5	<0.2
ROS 173042	Soil	14	23	0.44	422	0.046	3	1.31	0.020	0.07	0.3	0.07	3.2	<0.1	<0.05	4	0.6	<0.2
ROS 163937	Soil	21	25	0.35	309	0.075	1	1.58	0.013	0.07	0.2	0.03	3.1	<0.1	<0.05	6	<0.5	0.2
ROS 163939	Soil	23	18	0.33	161	0.090	<1	1.27	0.018	0.12	0.1	0.02	3.7	0.1	<0.05	4	<0.5	<0.2
ROS 163941	Soil	18	28	0.43	242	0.081	1	1.48	0.022	0.08	0.2	0.03	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 163943	Soil	17	25	0.40	235	0.080	1	1.46	0.013	0.05	0.1	0.02	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 163922	Soil	20	27	0.41	217	0.089	2	1.50	0.018	0.10	0.1	0.01	3.3	0.1	<0.05	4	0.8	0.2
ROS 164173	Soil	20	34	0.62	140	0.112	<1	1.48	0.010	0.25	0.1	0.06	2.8	0.2	<0.05	7	0.8	<0.2
ROS 164167	Soil	27	31	0.83	324	0.159	<1	1.89	0.011	0.57	<0.1	0.04	2.9	0.5	<0.05	7	0.8	<0.2
ROS 164169	Soil	31	26	0.57	209	0.135	<1	1.53	0.010	0.36	<0.1	0.05	2.2	0.3	<0.05	6	<0.5	<0.2
ROS 164170	Soil	33	26	0.57	317	0.142	<1	1.55	0.011	0.44	<0.1	0.03	2.6	0.3	<0.05	7	<0.5	<0.2
ROS 164168	Soil	26	26	0.48	186	0.126	<1	1.26	0.010	0.39	<0.1	0.04	1.9	0.3	<0.05	6	0.8	<0.2
ROS 164165	Soil	25	52	0.89	321	0.193	<1	2.49	0.017	0.82	<0.1	<0.01	3.9	0.5	0.08	9	<0.5	<0.2
ROS 164175	Soil	21	29	0.67	230	0.135	2	1.93	0.020	0.21	0.1	0.02	3.1	0.2	<0.05	6	0.7	<0.2

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164176	Soil		0.8	25.2	8.3	87	<0.1	17.2	8.4	328	2.61	5.5	1.0	4.3	6.3	38	0.2	0.4	0.3	56	0.23	0.022
ROS 164166	Soil		0.8	28.0	9.1	99	0.3	30.7	9.0	192	2.68	1.9	1.9	3.1	5.9	28	0.2	0.1	0.3	52	0.24	0.059
ROS 164660	Soil		0.8	22.6	22.0	131	0.3	17.3	7.0	326	2.60	3.8	1.4	1.6	5.8	32	0.3	0.2	0.2	57	0.22	0.056
ROS 164174	Soil		0.8	18.4	11.8	55	0.2	12.6	4.3	224	1.76	1.5	1.5	1.3	4.0	28	0.2	0.1	0.2	28	0.13	0.044
ROS 159089	Soil		0.5	14.4	5.7	93	<0.1	12.8	9.9	847	3.58	5.8	1.2	<0.5	19.3	32	<0.1	0.2	<0.1	52	0.35	0.033
ROS 160860	Soil		1.7	28.1	29.0	72	0.4	12.3	9.1	724	2.54	4.5	1.7	3.8	25.1	44	0.3	2.6	1.2	23	0.99	0.058
ROS 160862	Soil		1.2	47.6	12.8	62	<0.1	11.7	11.4	441	3.36	3.3	1.8	<0.5	11.1	16	<0.1	0.3	0.5	60	0.19	0.027
ROS 160865	Soil		0.9	16.7	16.2	110	<0.1	15.6	14.6	1137	5.19	5.0	3.3	<0.5	51.7	18	<0.1	0.3	0.2	79	0.31	0.047
ROS 164407	Soil		2.0	27.0	8.7	124	<0.1	10.0	8.7	758	4.07	2.9	3.1	1.3	20.4	92	<0.1	0.2	0.2	72	0.42	0.045
ROS 164404	Soil		1.0	41.4	8.7	112	<0.1	19.0	8.5	411	3.26	3.9	1.5	<0.5	12.5	35	0.1	0.3	0.3	54	0.15	0.031
ROS 164405	Soil		1.1	28.0	12.3	111	<0.1	16.8	9.6	410	3.09	3.8	1.3	6.7	8.6	56	0.1	0.3	0.4	60	0.19	0.026
ROS 164406	Soil		0.8	22.5	13.4	142	<0.1	11.2	11.0	743	3.69	2.5	3.1	1.0	17.5	72	0.1	0.2	0.2	66	0.38	0.049
ROS 164408	Soil		1.9	30.3	9.6	142	<0.1	10.8	10.8	848	4.53	3.0	3.1	0.6	22.8	98	<0.1	0.2	0.2	84	0.48	0.053
ROS 160867	Soil		0.9	40.2	8.7	69	<0.1	27.4	10.3	627	3.14	7.9	1.4	10.4	15.5	23	<0.1	0.5	0.1	66	0.39	0.060
ROS 160861	Soil		1.1	31.1	24.4	74	0.2	15.7	10.1	608	2.70	2.9	6.9	1.0	21.0	68	0.2	0.4	0.2	47	1.99	0.057
ROS 160873	Soil		0.9	31.7	21.4	139	<0.1	14.0	16.4	1127	5.51	2.3	3.6	<0.5	63.9	17	<0.1	0.2	0.3	64	0.34	0.057
ROS 164423	Soil		1.7	176.6	3.3	51	<0.1	8.2	8.8	438	5.49	0.8	1.3	<0.5	6.4	72	<0.1	<0.1	<0.1	180	0.27	0.033
ROS 160863	Soil		2.3	16.8	14.3	85	<0.1	11.5	11.5	591	4.12	3.8	2.0	0.5	12.2	16	<0.1	0.3	0.2	63	0.19	0.031
ROS 163630	Soil		0.9	12.4	7.9	48	0.2	12.9	9.0	263	2.36	5.5	0.2	1.3	2.2	18	<0.1	0.4	0.1	58	0.14	0.024
ROS 164424	Soil		0.9	41.1	9.3	61	<0.1	25.4	12.2	385	2.72	7.4	1.2	3.9	6.7	23	<0.1	0.4	0.1	57	0.23	0.043
ROS 164172	Soil		1.2	31.2	14.1	90	0.4	18.9	6.8	255	2.20	2.8	1.4	0.9	2.6	24	0.2	0.1	0.3	42	0.19	0.045
ROS 164171	Soil		0.5	17.8	9.7	65	0.2	12.9	4.8	193	1.70	1.8	1.2	0.5	2.3	28	0.1	0.1	0.2	24	0.14	0.042
ROS 164986	Soil		1.0	15.4	6.4	48	<0.1	14.9	8.2	295	2.27	5.0	0.9	5.4	5.0	25	<0.1	0.3	0.2	51	0.33	0.046
ROS 159435	Soil		0.8	19.8	9.3	52	<0.1	15.8	6.9	221	2.34	5.7	1.0	1.4	5.1	30	<0.1	0.4	0.2	52	0.40	0.055
ROS 163921	Soil		0.8	18.3	7.6	48	<0.1	15.4	7.5	224	2.22	5.7	1.0	1.8	4.8	26	<0.1	0.4	0.1	53	0.36	0.054
ROS 163942	Soil		0.6	21.0	9.8	51	<0.1	15.0	6.0	213	2.13	4.9	1.1	2.4	5.7	27	<0.1	0.4	0.1	46	0.34	0.043
ROS 163938	Soil		0.7	13.2	6.4	43	<0.1	11.0	5.9	248	1.99	3.7	0.7	0.6	5.5	15	<0.1	0.3	0.1	45	0.19	0.021
ROS 163940	Soil		0.6	17.4	9.0	45	<0.1	13.1	5.4	221	1.95	3.8	0.9	2.1	7.1	23	<0.1	0.3	0.1	43	0.31	0.030
ROS 164658	Soil		0.5	26.6	8.7	49	0.3	13.8	5.7	140	1.72	3.1	1.0	1.6	1.6	21	0.2	0.1	0.2	29	0.23	0.056
ROS 164661	Soil		1.0	47.4	20.4	138	0.2	16.4	11.0	483	2.65	4.2	1.5	1.7	3.3	27	0.4	0.3	0.4	55	0.19	0.050

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164176	Soil	19	28	0.64	219	0.132	2	1.90	0.012	0.15	0.1	0.02	3.2	0.2	<0.05	6	0.5	<0.2
ROS 164166	Soil	23	41	0.85	339	0.139	<1	2.33	0.016	0.55	0.1	0.03	3.1	0.4	<0.05	7	0.9	0.3
ROS 164660	Soil	26	27	0.72	168	0.155	<1	1.93	0.016	0.37	0.1	0.05	2.7	0.3	<0.05	7	0.5	<0.2
ROS 164174	Soil	22	30	0.55	202	0.123	<1	1.36	0.010	0.41	<0.1	0.04	2.2	0.3	0.08	6	0.6	<0.2
ROS 159089	Soil	26	16	1.29	141	0.192	<1	2.69	0.011	0.82	<0.1	<0.01	6.0	0.4	<0.05	10	<0.5	<0.2
ROS 160860	Soil	40	16	0.48	150	0.013	7	1.49	0.010	0.20	0.1	0.04	3.3	<0.1	<0.05	4	0.6	<0.2
ROS 160862	Soil	9	18	0.76	142	0.127	<1	1.79	0.009	0.38	0.3	0.01	3.2	0.4	<0.05	9	0.5	<0.2
ROS 160865	Soil	31	17	0.69	124	0.105	2	1.83	0.006	0.69	0.3	0.02	11.6	0.5	<0.05	11	0.6	<0.2
ROS 164407	Soil	53	16	0.91	304	0.216	<1	2.61	0.028	1.03	0.1	<0.01	5.0	0.6	<0.05	10	0.7	<0.2
ROS 164404	Soil	26	31	0.80	297	0.165	<1	2.04	0.014	0.52	<0.1	<0.01	3.0	0.3	0.10	6	<0.5	<0.2
ROS 164405	Soil	21	27	0.79	230	0.161	<1	2.19	0.023	0.41	<0.1	<0.01	3.1	0.3	0.05	7	0.5	<0.2
ROS 164406	Soil	58	15	1.13	252	0.203	<1	2.41	0.016	1.00	0.1	0.01	5.7	0.6	<0.05	10	<0.5	<0.2
ROS 164408	Soil	63	18	1.11	364	0.242	<1	2.81	0.034	1.22	0.1	<0.01	5.2	0.7	<0.05	11	<0.5	0.3
ROS 160867	Soil	40	33	0.66	152	0.096	<1	1.37	0.017	0.17	0.2	0.04	5.9	0.2	<0.05	6	<0.5	<0.2
ROS 160861	Soil	73	40	0.58	108	0.068	2	1.43	0.012	0.33	0.2	0.06	5.3	0.3	0.07	6	<0.5	<0.2
ROS 160873	Soil	81	15	1.00	120	0.196	2	2.16	0.008	1.19	0.2	0.01	11.3	0.9	<0.05	11	<0.5	<0.2
ROS 164423	Soil	12	34	2.12	325	0.248	<1	3.27	0.017	1.32	<0.1	<0.01	7.8	0.6	0.06	9	0.7	<0.2
ROS 160863	Soil	7	20	0.80	125	0.162	1	1.90	0.008	0.63	0.2	0.01	3.9	0.5	<0.05	11	<0.5	<0.2
ROS 163630	Soil	7	25	0.39	155	0.080	<1	1.30	0.009	0.13	0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164424	Soil	19	31	0.72	185	0.103	<1	1.64	0.011	0.24	0.1	0.01	4.6	0.1	<0.05	6	<0.5	<0.2
ROS 164172	Soil	20	37	0.72	150	0.119	1	1.55	0.009	0.35	0.1	0.06	2.2	0.3	<0.05	6	0.7	<0.2
ROS 164171	Soil	19	28	0.61	235	0.101	<1	1.28	0.009	0.40	<0.1	0.05	1.7	0.2	<0.05	6	0.6	0.5
ROS 164986	Soil	15	30	0.48	203	0.082	2	1.45	0.013	0.08	0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159435	Soil	17	30	0.43	232	0.080	1	1.60	0.015	0.06	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 163921	Soil	17	27	0.42	221	0.072	1	1.51	0.017	0.05	0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 163942	Soil	19	25	0.42	244	0.078	1	1.51	0.016	0.06	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 163938	Soil	15	22	0.33	160	0.085	<1	1.17	0.012	0.10	0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
ROS 163940	Soil	19	23	0.38	186	0.094	1	1.35	0.017	0.09	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 164658	Soil	12	25	0.33	110	0.065	<1	1.03	0.009	0.09	<0.1	0.05	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164661	Soil	15	25	0.48	162	0.092	<1	1.70	0.009	0.11	0.1	0.05	3.0	0.1	<0.05	6	0.6	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164656	Soil	0.6	22.8	9.2	43	0.2	12.9	4.5	125	1.93	3.1	1.4	<0.5	1.4	18	0.2	0.1	0.4	29	0.14	0.061
ROS 163936	Soil	1.1	17.0	11.6	53	<0.1	14.4	6.0	262	2.79	7.5	0.7	<0.5	5.0	19	<0.1	0.4	0.2	63	0.22	0.031
ROS 164659	Soil	0.7	15.5	11.5	65	0.1	15.4	6.3	197	2.30	4.1	0.9	1.1	3.0	22	<0.1	0.2	0.2	48	0.20	0.061
ROS 164655	Soil	0.6	16.2	11.3	64	0.2	15.6	6.6	173	2.13	1.9	1.6	<0.5	4.6	19	<0.1	<0.1	0.4	37	0.17	0.050
ROS 164657	Soil	1.1	40.3	81.4	193	0.9	17.5	7.2	337	2.64	3.4	1.4	0.6	3.6	31	0.3	0.2	0.8	50	0.20	0.063
ROS 163628	Soil	1.1	175.2	7.0	116	0.1	17.3	16.4	1035	5.60	5.1	0.6	<0.5	4.7	50	<0.1	0.2	<0.1	154	0.33	0.047
ROS 164653	Soil	0.6	13.6	6.3	52	0.2	12.8	4.2	113	1.65	1.5	1.0	5.2	1.5	19	0.3	<0.1	0.2	25	0.15	0.038
ROS 164654	Soil	0.3	13.3	6.4	27	0.1	10.8	3.0	83	0.94	1.3	1.2	1.5	1.3	17	0.1	0.1	0.1	16	0.16	0.040
ROS 163629	Soil	0.9	64.6	7.3	84	0.2	14.9	8.8	457	3.90	4.6	0.9	<0.5	4.7	67	<0.1	0.3	0.1	114	0.18	0.044
ROS 164421	Soil	1.0	207.8	8.1	114	<0.1	12.8	14.6	853	5.59	<0.5	1.2	1.7	6.2	45	<0.1	<0.1	<0.1	159	0.26	0.040
ROS 164422	Soil	1.5	157.4	2.8	45	<0.1	8.0	8.1	417	5.08	0.8	1.2	<0.5	5.6	61	<0.1	<0.1	<0.1	164	0.26	0.029
ROS 164652	Soil	1.4	36.5	8.3	124	0.2	31.5	10.9	278	3.45	2.3	1.8	1.1	6.9	27	0.2	0.2	0.3	68	0.19	0.059
ROS 164651	Soil	1.5	43.8	8.9	143	0.2	42.9	13.1	329	4.02	1.8	1.9	0.8	9.6	26	0.1	0.1	0.4	81	0.27	0.090
ROS 164650	Soil	1.3	45.3	9.2	102	0.2	31.0	10.2	241	3.41	1.9	1.8	1.7	6.4	32	0.2	0.1	0.3	76	0.20	0.064
ROS 163888	Soil	0.9	10.9	9.3	68	<0.1	18.5	9.5	411	2.86	5.8	0.6	2.9	4.8	27	0.1	0.4	0.2	64	0.27	0.043
ROS 163891	Soil	1.5	18.0	9.6	81	<0.1	15.2	10.3	649	3.96	6.9	1.3	0.7	11.7	24	<0.1	0.5	0.1	73	0.24	0.021
ROS 164932	Soil	0.7	19.0	6.0	71	<0.1	15.1	8.6	654	3.44	4.7	1.2	<0.5	13.3	26	<0.1	0.4	0.1	58	0.36	0.040
ROS 163889	Soil	0.7	11.9	11.2	82	<0.1	11.5	9.4	673	3.45	2.7	1.0	<0.5	10.5	26	0.1	0.2	0.1	60	0.28	0.060
ROS 159469	Soil	0.3	7.0	2.8	57	<0.1	5.1	6.6	635	3.28	2.4	0.8	<0.5	11.3	11	<0.1	0.1	<0.1	37	0.12	0.015
ROS 164931	Soil	0.5	17.3	7.4	57	<0.1	13.2	7.8	375	2.54	3.1	1.2	2.0	8.0	26	<0.1	0.3	0.1	53	0.30	0.014
ROS 164279	Soil	0.8	11.2	6.3	60	<0.1	8.6	8.2	460	2.92	3.4	1.0	<0.5	10.7	23	<0.1	0.2	<0.1	54	0.32	0.036
ROS 164280	Soil	0.7	11.8	7.5	64	<0.1	10.4	9.8	569	3.50	6.2	0.9	<0.5	8.7	20	<0.1	0.3	<0.1	62	0.26	0.056
ROS 160484	Soil	0.7	21.9	6.2	51	<0.1	18.0	9.4	375	2.26	6.5	0.8	4.0	3.0	34	<0.1	0.4	0.1	51	0.53	0.062
ROS 160491	Soil	1.4	18.1	8.3	74	0.2	6.2	6.1	432	2.99	1.6	2.0	<0.5	8.2	69	<0.1	<0.1	0.1	60	0.21	0.045
ROS 160489	Soil	1.0	17.1	5.4	61	<0.1	8.4	9.9	492	2.75	2.8	1.5	1.7	7.2	37	<0.1	0.2	<0.1	56	0.22	0.039
ROS 160488	Soil	1.0	18.0	7.1	64	<0.1	9.0	10.5	502	2.87	2.8	1.7	0.6	7.8	40	<0.1	0.1	0.1	59	0.24	0.040
ROS 160486	Soil	1.4	52.9	5.5	100	0.1	8.1	14.1	583	3.64	2.5	0.7	0.8	3.4	23	0.1	0.1	<0.1	97	0.19	0.040
ROS 160490	Soil	1.4	16.3	13.2	77	0.1	8.7	8.4	530	3.10	3.3	1.6	0.8	8.1	42	<0.1	0.2	0.2	58	0.19	0.038
ROS 160492	Soil	1.7	30.3	8.9	99	<0.1	7.4	10.8	560	4.28	0.8	1.8	<0.5	9.7	111	<0.1	<0.1	0.1	105	0.20	0.052
ROS 160487	Soil	0.9	18.2	5.7	65	<0.1	9.7	9.7	426	2.84	3.3	1.5	1.3	6.9	29	0.1	0.2	0.1	63	0.20	0.040

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000611.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164656	Soil	14	25	0.41	171	0.076	<1	1.13	0.007	0.16	<0.1	0.05	1.5	0.1	0.07	5	<0.5	<0.2
ROS 163936	Soil	18	28	0.44	232	0.070	1	1.78	0.012	0.08	0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164659	Soil	17	31	0.61	124	0.126	<1	1.47	0.009	0.24	0.1	0.03	2.2	0.2	<0.05	6	<0.5	<0.2
ROS 164655	Soil	25	29	0.65	222	0.128	<1	1.63	0.009	0.33	0.1	0.05	2.8	0.3	<0.05	6	<0.5	<0.2
ROS 164657	Soil	17	36	0.80	164	0.135	1	1.70	0.011	0.34	<0.1	0.05	2.6	0.2	<0.05	7	<0.5	<0.2
ROS 163628	Soil	15	36	2.07	400	0.275	1	3.78	0.014	1.93	<0.1	0.01	4.4	0.4	0.07	11	<0.5	<0.2
ROS 164653	Soil	14	22	0.36	177	0.086	2	1.15	0.009	0.17	<0.1	0.04	1.6	0.2	<0.05	5	<0.5	<0.2
ROS 164654	Soil	19	22	0.24	192	0.078	1	0.94	0.009	0.16	0.1	0.06	1.8	0.2	<0.05	5	<0.5	<0.2
ROS 163629	Soil	12	35	1.26	304	0.179	7	2.54	0.013	0.91	<0.1	<0.01	5.6	0.3	0.30	9	<0.5	<0.2
ROS 164421	Soil	10	42	2.45	281	0.284	<1	3.54	0.016	2.29	<0.1	<0.01	5.6	0.6	<0.05	10	<0.5	0.3
ROS 164422	Soil	11	32	1.92	295	0.242	<1	3.07	0.017	1.18	<0.1	<0.01	7.9	0.5	<0.05	9	0.6	<0.2
ROS 164652	Soil	27	44	0.93	341	0.176	<1	2.34	0.015	0.57	<0.1	0.02	3.6	0.4	0.06	8	<0.5	<0.2
ROS 164651	Soil	37	45	1.19	491	0.205	1	2.88	0.021	0.88	0.1	0.01	4.3	0.5	0.06	9	<0.5	<0.2
ROS 164650	Soil	26	43	0.88	327	0.154	1	2.30	0.016	0.60	<0.1	0.02	3.7	0.4	0.07	7	<0.5	<0.2
ROS 163888	Soil	11	32	0.55	253	0.087	2	2.09	0.010	0.20	0.2	0.01	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 163891	Soil	26	27	1.07	145	0.185	1	2.62	0.013	0.67	0.2	0.01	5.4	0.3	<0.05	10	<0.5	<0.2
ROS 164932	Soil	24	20	1.21	258	0.164	1	2.37	0.015	0.78	0.1	0.01	5.5	0.3	<0.05	9	<0.5	<0.2
ROS 163889	Soil	12	18	0.78	257	0.155	<1	2.33	0.013	0.49	0.1	<0.01	4.7	0.3	<0.05	10	<0.5	0.3
ROS 159469	Soil	20	9	1.08	83	0.163	2	2.08	0.007	0.99	<0.1	<0.01	4.0	0.4	<0.05	8	<0.5	<0.2
ROS 164931	Soil	28	22	0.77	151	0.131	<1	1.71	0.018	0.24	<0.1	0.02	4.8	0.2	<0.05	6	<0.5	<0.2
ROS 164279	Soil	13	16	0.73	183	0.164	1	1.89	0.014	0.69	0.1	0.01	3.9	0.4	<0.05	7	0.5	<0.2
ROS 164280	Soil	16	19	0.93	160	0.199	<1	2.19	0.011	0.96	<0.1	<0.01	2.9	0.5	<0.05	8	<0.5	<0.2
ROS 160484	Soil	12	24	0.53	248	0.085	1	1.26	0.024	0.09	0.2	0.03	3.1	<0.1	<0.05	4	0.7	<0.2
ROS 160491	Soil	24	15	0.91	337	0.163	1	2.11	0.029	0.68	<0.1	0.02	4.5	0.3	0.37	8	0.8	<0.2
ROS 160489	Soil	27	15	0.73	129	0.149	1	1.87	0.017	0.42	<0.1	0.01	3.1	0.2	<0.05	6	0.6	<0.2
ROS 160488	Soil	28	15	0.75	132	0.155	1	1.93	0.015	0.46	<0.1	0.02	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 160486	Soil	11	14	1.15	209	0.225	<1	2.33	0.012	0.73	<0.1	0.01	2.3	0.3	<0.05	7	0.7	<0.2
ROS 160490	Soil	24	17	0.81	146	0.157	1	2.05	0.015	0.51	<0.1	0.01	3.3	0.3	0.07	7	<0.5	<0.2
ROS 160492	Soil	24	23	1.36	430	0.239	1	2.59	0.052	1.16	<0.1	0.01	5.6	0.4	0.52	9	0.8	<0.2
ROS 160487	Soil	22	16	0.78	133	0.161	1	1.93	0.014	0.41	<0.1	0.01	3.3	0.2	<0.05	7	0.5	0.4

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160485	Soil		1.8	42.4	10.1	95	0.3	10.7	13.2	541	3.58	2.2	1.0	<0.5	3.6	33	0.1	0.1	0.2	89	0.36	0.035
ROS 160483	Soil		0.7	22.4	6.7	56	<0.1	19.3	9.0	347	2.28	6.3	0.7	3.7	2.9	35	0.2	0.4	0.1	52	0.62	0.071
ROS 160482	Soil		0.8	39.9	6.5	55	0.1	24.7	9.2	440	2.31	7.3	1.2	1.4	2.9	41	0.3	0.5	0.1	52	0.75	0.065
ROS 160481	Soil		0.8	26.3	6.7	63	<0.1	22.0	9.3	346	2.28	6.8	0.7	4.7	3.4	34	0.2	0.5	0.1	52	0.60	0.080
ROS 164630	Soil		1.5	45.4	10.7	59	<0.1	21.9	10.1	500	3.96	2.3	2.1	<0.5	19.9	104	<0.1	<0.1	0.2	42	0.32	0.122
ROS 164632	Soil		0.6	16.3	5.4	60	<0.1	5.3	11.2	430	2.94	1.8	2.2	<0.5	11.8	142	<0.1	<0.1	<0.1	44	1.23	0.024
ROS 164635	Soil		1.0	17.4	5.9	66	<0.1	13.0	11.0	444	3.75	5.4	1.4	<0.5	9.0	28	<0.1	0.2	0.1	64	0.21	0.055
ROS 164639	Soil		1.7	13.6	8.1	44	<0.1	14.7	8.8	332	2.85	6.8	2.0	<0.5	9.3	29	<0.1	0.4	0.1	50	0.25	0.029
ROS 163694	Soil		0.6	10.2	4.5	56	<0.1	6.6	9.1	560	3.31	2.0	1.1	<0.5	11.0	25	<0.1	0.1	<0.1	51	0.21	0.031
ROS 163693	Soil		0.7	10.4	6.3	55	<0.1	7.5	9.1	550	3.31	2.3	1.2	<0.5	10.6	25	<0.1	0.1	<0.1	52	0.23	0.034
ROS 159470	Soil		0.4	17.2	10.1	103	<0.1	10.4	11.1	1023	4.42	3.5	1.2	<0.5	11.8	23	<0.1	0.1	0.2	75	0.32	0.050
ROS 163890	Soil		1.1	8.3	4.5	84	<0.1	6.9	13.3	859	4.76	4.1	0.9	<0.5	14.5	25	<0.1	0.2	<0.1	115	0.30	0.036
ROS 163700	Soil		0.7	32.0	6.7	46	<0.1	31.2	12.5	295	3.09	6.8	0.7	0.8	5.2	28	<0.1	0.3	0.1	72	0.35	0.047
ROS 163699	Soil		0.6	21.5	13.8	83	0.1	37.6	11.3	387	3.19	6.8	0.7	<0.5	8.9	27	<0.1	0.3	0.2	78	0.33	0.050
ROS 163702	Soil		0.6	37.2	4.4	90	<0.1	42.4	15.1	578	4.46	2.5	1.3	<0.5	11.0	21	<0.1	0.1	0.2	64	0.32	0.072
ROS 163701	Soil		0.6	39.2	5.8	97	<0.1	42.3	15.4	600	4.55	2.2	1.3	<0.5	11.9	20	0.1	0.1	0.2	62	0.34	0.076
ROS 163703	Soil		0.6	32.8	5.3	76	<0.1	28.8	10.7	426	3.18	5.4	1.1	5.4	10.6	18	<0.1	0.3	0.1	66	0.29	0.061
ROS 163704	Soil		1.2	78.4	6.1	94	0.2	24.7	13.6	602	4.51	2.7	1.1	0.8	5.9	50	<0.1	0.2	0.1	133	0.33	0.046
ROS 163698	Soil		0.7	12.3	9.4	75	<0.1	14.4	12.8	382	3.71	3.3	0.7	<0.5	5.4	49	<0.1	0.2	<0.1	111	0.85	0.057
ROS 163697	Soil		1.6	52.0	7.8	109	0.1	74.1	16.8	383	3.22	3.6	1.6	0.9	5.8	42	0.1	0.2	0.3	78	0.31	0.053
ROS 163696	Soil		0.4	20.5	7.4	427	<0.1	42.7	20.5	571	3.83	5.5	0.7	<0.5	9.1	75	<0.1	0.2	0.5	119	0.39	0.036
ROS 163695	Soil		0.6	25.0	7.1	180	<0.1	36.8	13.9	625	3.82	4.8	1.0	<0.5	8.3	30	0.2	0.2	0.2	81	0.29	0.041
ROS 163783	Soil		0.7	26.4	4.7	65	0.1	39.2	16.8	360	4.08	4.5	0.7	<0.5	4.8	13	0.1	0.2	<0.1	117	0.17	0.026
ROS 164346	Soil		1.5	153.5	5.7	97	0.7	35.9	10.4	297	3.27	2.3	3.4	2.4	6.0	30	0.4	0.2	0.2	65	0.48	0.055
ROS 164444	Soil		1.4	12.9	8.5	49	<0.1	14.7	6.8	239	3.09	8.0	0.9	2.3	4.6	33	<0.1	0.4	0.2	70	0.12	0.040
ROS 164443	Soil		3.1	8.3	7.8	39	<0.1	6.9	3.9	220	2.98	5.1	1.5	1.0	7.4	24	<0.1	0.2	0.2	63	0.08	0.039
ROS 164442	Soil		8.9	11.6	4.8	40	<0.1	4.1	7.7	303	4.77	2.2	3.6	0.6	28.5	195	<0.1	0.1	0.5	48	0.08	0.070
ROS 164441	Soil		2.0	15.8	8.4	54	<0.1	13.0	8.0	293	3.03	6.8	2.3	2.3	7.2	30	<0.1	0.3	0.3	64	0.13	0.041
ROS 160073	Soil		0.3	11.7	5.2	41	0.1	13.6	6.2	126	1.59	3.5	0.4	3.5	1.1	15	0.1	0.2	0.1	33	0.21	0.046
ROS 160074	Soil		0.5	15.2	5.4	41	0.1	15.9	6.9	144	1.92	3.8	0.5	2.1	1.4	15	0.1	0.2	0.1	40	0.24	0.053

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Project: ROS
 Report Date: November 12, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160485	Soil	14	20	1.06	181	0.207	1	2.59	0.017	0.75	<0.1	0.03	2.6	0.3	<0.05	9	<0.5	<0.2
ROS 160483	Soil	12	25	0.56	247	0.084	2	1.30	0.025	0.09	0.2	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 160482	Soil	14	27	0.50	343	0.073	2	1.31	0.022	0.07	0.2	0.03	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 160481	Soil	13	25	0.56	275	0.084	2	1.26	0.027	0.09	0.3	0.04	3.3	<0.1	<0.05	4	0.5	<0.2
ROS 164630	Soil	65	37	1.12	229	0.224	<1	2.48	0.011	1.03	<0.1	<0.01	2.8	0.6	0.14	7	0.5	<0.2
ROS 164632	Soil	45	7	0.65	131	0.153	<1	3.36	0.033	0.65	<0.1	<0.01	2.7	0.4	<0.05	7	0.6	0.3
ROS 164635	Soil	15	19	0.87	143	0.201	<1	2.65	0.011	0.85	<0.1	0.01	3.3	0.5	<0.05	8	<0.5	<0.2
ROS 164639	Soil	31	24	0.51	138	0.088	<1	1.63	0.010	0.18	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 163694	Soil	16	13	0.84	115	0.173	<1	1.92	0.011	0.92	<0.1	<0.01	3.4	0.4	<0.05	7	<0.5	<0.2
ROS 163693	Soil	16	14	0.84	122	0.173	<1	2.00	0.011	0.93	0.1	0.02	3.5	0.4	<0.05	8	<0.5	<0.2
ROS 159470	Soil	12	14	1.24	234	0.260	<1	3.01	0.011	1.25	0.1	0.01	7.2	0.6	<0.05	13	<0.5	<0.2
ROS 163890	Soil	9	13	2.35	182	0.228	<1	3.80	0.014	1.84	0.1	<0.01	6.7	0.9	<0.05	14	<0.5	<0.2
ROS 163700	Soil	13	45	0.82	162	0.146	1	1.97	0.012	0.45	<0.1	0.01	5.4	0.2	<0.05	7	<0.5	<0.2
ROS 163699	Soil	20	59	1.05	251	0.158	1	2.24	0.012	0.61	<0.1	0.01	7.4	0.3	<0.05	8	<0.5	<0.2
ROS 163702	Soil	36	56	1.48	232	0.328	<1	2.81	0.012	1.30	<0.1	<0.01	4.9	0.8	<0.05	10	<0.5	<0.2
ROS 163701	Soil	42	57	1.51	233	0.338	<1	2.89	0.012	1.33	<0.1	0.01	5.0	0.9	<0.05	10	<0.5	<0.2
ROS 163703	Soil	25	42	1.02	228	0.205	<1	1.85	0.017	0.72	<0.1	0.01	5.5	0.4	<0.05	6	<0.5	<0.2
ROS 163704	Soil	26	42	1.61	413	0.292	<1	2.59	0.018	1.29	<0.1	<0.01	6.2	0.4	0.09	9	<0.5	0.2
ROS 163698	Soil	10	28	1.33	401	0.200	<1	3.31	0.036	0.95	<0.1	<0.01	6.8	0.3	<0.05	8	<0.5	<0.2
ROS 163697	Soil	19	86	1.29	332	0.167	1	2.09	0.018	0.41	0.1	0.02	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 163696	Soil	16	51	1.78	781	0.266	<1	4.07	0.048	1.46	<0.1	0.01	6.9	0.6	<0.05	13	<0.5	<0.2
ROS 163695	Soil	22	43	1.42	531	0.277	1	2.80	0.015	1.22	<0.1	0.01	5.2	0.5	<0.05	10	<0.5	<0.2
ROS 163783	Soil	12	37	1.36	261	0.243	1	2.57	0.014	0.98	<0.1	<0.01	4.4	0.4	<0.05	9	<0.5	<0.2
ROS 164346	Soil	29	34	0.82	249	0.159	1	2.09	0.018	0.56	0.1	0.04	4.8	0.4	0.11	7	0.7	<0.2
ROS 164444	Soil	9	22	0.53	122	0.102	1	2.00	0.017	0.17	0.2	0.02	2.5	0.1	0.05	8	<0.5	<0.2
ROS 164443	Soil	16	16	0.59	115	0.116	2	1.92	0.011	0.27	0.1	0.02	2.9	0.2	0.11	9	<0.5	<0.2
ROS 164442	Soil	57	8	0.86	212	0.149	2	2.29	0.033	0.76	<0.1	<0.01	3.7	0.4	0.41	8	0.9	0.2
ROS 164441	Soil	20	23	0.56	132	0.107	2	1.99	0.009	0.21	0.2	0.02	2.8	0.2	<0.05	8	0.6	<0.2
ROS 160073	Soil	8	28	0.47	114	0.067	1	1.18	0.013	0.05	0.3	0.05	1.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160074	Soil	7	32	0.53	140	0.077	2	1.34	0.014	0.07	0.2	0.06	2.4	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160075	Soil	0.5	39.4	2.5	52	<0.1	18.3	14.2	346	2.81	2.7	0.5	1.0	1.8	15	<0.1	0.2	<0.1	68	0.36	0.071
ROS 160077	Soil	0.6	22.7	6.2	54	<0.1	18.5	9.7	291	2.75	5.9	0.6	0.8	3.0	18	<0.1	0.4	0.1	61	0.25	0.055
ROS 160076	Soil	1.0	30.7	5.9	53	<0.1	20.2	11.0	272	2.61	5.0	0.7	<0.5	2.0	18	0.1	0.3	<0.1	63	0.28	0.050
ROS 160071	Soil	0.5	22.4	5.4	34	<0.1	11.9	5.7	128	1.77	3.8	0.5	0.8	0.9	16	<0.1	0.2	0.1	38	0.26	0.063
ROS 160078	Soil	0.7	22.4	5.9	57	<0.1	20.1	9.1	294	2.34	5.8	0.7	2.5	2.6	26	0.1	0.5	<0.1	52	0.32	0.065
ROS 160072	Soil	0.4	22.8	4.9	39	0.1	11.6	6.8	124	1.73	3.1	0.5	1.6	0.8	17	<0.1	0.2	0.1	45	0.26	0.053
ROS 160070	Soil	0.8	39.9	4.5	37	0.1	17.9	13.9	355	2.23	4.0	0.6	2.3	1.1	19	<0.1	0.3	<0.1	59	0.30	0.062
ROS 160069	Soil	0.7	24.2	5.9	43	0.1	17.0	9.3	192	2.29	4.8	0.6	2.4	1.6	17	<0.1	0.3	0.1	55	0.27	0.060
ROS 160068	Soil	1.1	44.1	5.3	44	0.1	20.9	11.4	233	2.61	4.4	0.8	1.8	1.3	19	<0.1	0.3	0.1	64	0.30	0.062
ROS 160079	Soil	0.7	25.0	7.3	62	<0.1	22.6	8.5	304	2.40	6.6	0.6	1.5	3.6	29	0.2	0.6	0.1	54	0.38	0.072
ROS 164633	Soil	1.6	46.6	8.2	76	0.1	26.4	10.6	691	3.61	7.2	1.6	0.7	9.9	31	0.1	0.4	0.2	73	0.20	0.054
ROS 164636	Soil	1.5	23.8	6.2	87	<0.1	8.7	10.4	708	4.51	4.9	3.0	0.8	17.4	31	<0.1	0.2	0.4	78	0.17	0.051
ROS 164638	Soil	1.0	17.4	14.8	107	0.1	19.7	9.0	410	3.43	9.7	1.5	<0.5	9.7	40	<0.1	0.5	0.2	79	0.28	0.039
ROS 164643	Soil	0.7	25.2	5.2	131	0.1	11.9	16.1	720	4.31	4.3	0.5	<0.5	3.4	33	<0.1	0.3	<0.1	101	0.34	0.039
ROS 164637	Soil	0.9	26.2	6.8	68	<0.1	9.7	9.8	536	3.93	4.6	3.0	<0.5	20.2	237	<0.1	0.3	0.2	62	0.23	0.029
ROS 164634	Soil	2.7	36.1	4.0	239	<0.1	5.2	6.8	776	3.55	2.8	2.5	<0.5	11.3	240	<0.1	0.2	0.2	40	0.31	0.033
ROS 164631	Soil	0.6	157.1	12.8	66	0.1	361.1	43.6	756	5.22	7.7	3.1	<0.5	9.5	148	<0.1	0.3	0.2	176	1.04	0.216
ROS 164640	Soil	0.9	21.3	7.8	61	<0.1	19.6	8.6	273	3.11	10.3	1.2	1.1	9.8	19	<0.1	0.7	0.2	67	0.14	0.024
ROS 164449	Soil	1.5	82.9	5.2	251	<0.1	4.2	19.4	1095	7.77	1.6	0.5	<0.5	3.1	116	<0.1	<0.1	<0.1	191	0.22	0.030
ROS 164451	Soil	1.9	59.5	7.6	143	<0.1	11.6	10.1	676	4.87	5.7	2.3	<0.5	10.8	72	<0.1	0.3	0.3	94	0.21	0.069
ROS 164448	Soil	1.5	77.5	5.0	271	<0.1	3.6	18.7	1085	7.66	1.4	0.6	1.2	3.0	112	<0.1	<0.1	<0.1	181	0.21	0.029
ROS 164440	Soil	1.7	21.1	7.5	79	0.1	9.6	9.0	450	3.14	3.8	3.2	1.1	10.8	108	0.2	0.3	0.4	54	0.25	0.047
ROS 164445	Soil	2.4	27.9	7.5	60	<0.1	8.8	9.6	496	3.27	3.4	3.0	<0.5	19.1	19	<0.1	0.2	0.1	46	0.18	0.031
ROS 164450	Soil	1.3	35.5	4.7	163	<0.1	9.6	18.6	765	5.19	1.3	0.7	<0.5	5.6	46	<0.1	<0.1	<0.1	126	0.24	0.046
ROS 164447	Soil	0.9	21.9	7.1	93	<0.1	11.8	9.1	564	3.48	6.1	1.2	<0.5	9.2	30	<0.1	0.3	<0.1	66	0.17	0.028
ROS 164446	Soil	1.1	23.3	8.4	89	<0.1	8.4	8.0	483	3.99	5.3	1.6	<0.5	16.9	29	<0.1	0.4	<0.1	70	0.10	0.013
ROS 159155	Soil	1.0	11.6	8.9	44	<0.1	10.1	6.7	416	2.13	5.3	1.0	5.7	6.1	19	<0.1	0.4	0.1	42	0.23	0.045
ROS 159157	Soil	0.5	12.5	5.6	40	<0.1	11.4	5.1	212	1.84	3.8	1.0	4.4	5.9	23	<0.1	0.3	0.1	42	0.28	0.033
ROS 160356	Soil	1.4	33.3	6.3	30	0.1	10.8	15.0	297	2.57	5.1	0.3	<0.5	1.4	13	<0.1	0.3	0.1	86	0.18	0.031
ROS 160357	Soil	0.6	28.0	6.1	32	0.1	17.2	7.8	169	2.01	4.5	0.4	0.7	2.1	16	<0.1	0.4	0.1	55	0.16	0.023

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160075	Soil	9	36	1.02	210	0.164	1	1.81	0.018	0.51	0.3	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 160077	Soil	11	31	0.63	145	0.116	2	1.72	0.019	0.14	0.5	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 160076	Soil	11	38	0.74	203	0.112	<1	1.89	0.017	0.18	0.5	0.03	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 160071	Soil	6	23	0.45	94	0.051	2	1.18	0.015	0.04	0.1	0.06	2.0	<0.1	0.07	5	<0.5	<0.2
ROS 160078	Soil	13	31	0.57	183	0.091	2	1.46	0.022	0.10	0.3	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160072	Soil	7	19	0.45	113	0.054	2	1.23	0.017	0.04	0.2	0.05	2.5	<0.1	0.07	5	<0.5	<0.2
ROS 160070	Soil	8	34	0.61	161	0.088	1	1.49	0.018	0.08	0.3	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160069	Soil	9	25	0.56	184	0.068	1	1.42	0.016	0.04	0.2	0.04	2.7	<0.1	0.06	5	<0.5	<0.2
ROS 160068	Soil	11	34	0.72	216	0.098	2	1.80	0.019	0.15	0.1	0.04	3.0	0.1	0.08	6	<0.5	<0.2
ROS 160079	Soil	14	29	0.54	252	0.089	2	1.36	0.018	0.08	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 164633	Soil	13	43	0.81	172	0.144	2	1.94	0.017	0.43	0.1	0.02	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 164636	Soil	25	15	1.05	169	0.224	<1	2.58	0.011	1.16	0.1	<0.01	5.0	0.6	<0.05	10	<0.5	<0.2
ROS 164638	Soil	18	29	0.79	198	0.131	1	2.55	0.011	0.33	0.1	0.01	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 164643	Soil	8	17	1.32	337	0.228	1	2.60	0.011	1.05	0.1	<0.01	2.2	0.4	<0.05	8	<0.5	<0.2
ROS 164637	Soil	41	15	1.07	209	0.210	1	2.75	0.016	1.10	<0.1	<0.01	4.6	0.6	<0.05	10	<0.5	<0.2
ROS 164634	Soil	13	7	1.25	275	0.149	<1	2.73	0.010	0.95	<0.1	<0.01	1.5	0.6	<0.05	8	0.8	<0.2
ROS 164631	Soil	30	199	4.04	1080	0.257	4	3.01	0.027	0.50	0.2	0.01	3.3	0.1	<0.05	11	<0.5	<0.2
ROS 164640	Soil	20	30	0.67	113	0.140	1	2.09	0.011	0.37	<0.1	<0.01	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 164449	Soil	12	4	2.30	755	0.278	<1	4.21	0.018	2.38	<0.1	<0.01	5.3	0.7	<0.05	13	<0.5	<0.2
ROS 164451	Soil	21	17	1.08	235	0.228	1	2.53	0.017	1.20	<0.1	<0.01	4.4	0.5	0.08	10	<0.5	<0.2
ROS 164448	Soil	12	4	2.17	754	0.268	<1	4.07	0.018	2.25	<0.1	0.02	5.0	0.6	<0.05	12	0.9	<0.2
ROS 164440	Soil	49	17	0.62	210	0.136	<1	2.10	0.016	0.41	0.1	0.01	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 164445	Soil	41	14	0.80	119	0.129	<1	1.85	0.013	0.55	<0.1	<0.01	3.8	0.3	<0.05	6	<0.5	<0.2
ROS 164450	Soil	13	25	1.87	258	0.241	<1	3.06	0.017	1.69	<0.1	<0.01	3.3	0.5	<0.05	9	0.7	<0.2
ROS 164447	Soil	8	18	0.84	182	0.153	<1	2.43	0.012	0.48	<0.1	<0.01	3.3	0.2	<0.05	9	<0.5	<0.2
ROS 164446	Soil	9	18	0.87	247	0.173	<1	2.95	0.009	0.64	0.1	<0.01	5.2	0.5	<0.05	11	<0.5	<0.2
ROS 159155	Soil	26	20	0.34	169	0.067	2	1.30	0.010	0.10	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159157	Soil	18	22	0.36	164	0.084	<1	1.10	0.017	0.08	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 160356	Soil	6	17	0.45	120	0.092	<1	1.28	0.019	0.09	0.5	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160357	Soil	10	27	0.48	147	0.078	1	1.37	0.014	0.06	0.3	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160358	Soil	0.6	43.8	5.1	35	0.1	33.0	11.1	245	2.33	3.4	0.4	0.6	2.1	22	<0.1	0.2	<0.1	61	0.30	0.034
ROS 160359	Soil	0.6	40.1	4.7	40	0.1	43.5	13.3	308	2.49	3.1	0.6	1.6	2.4	22	<0.1	0.2	<0.1	72	0.36	0.033
ROS 159154	Soil	0.7	12.2	8.0	44	<0.1	12.3	6.6	275	2.17	5.6	0.8	1.3	6.3	18	<0.1	0.3	0.2	47	0.23	0.035
ROS 160360	Soil	1.8	15.0	5.1	72	<0.1	14.6	10.9	798	3.78	4.6	0.5	<0.5	2.8	18	0.1	0.3	0.1	66	0.22	0.068
ROS 151303	Soil	0.4	19.9	4.9	64	<0.1	12.1	6.3	317	1.52	4.3	0.8	1.5	1.0	51	0.3	0.4	<0.1	37	2.06	0.071
ROS 151307	Soil	0.3	12.7	6.0	76	<0.1	13.5	9.7	663	2.17	4.9	0.6	2.0	3.9	21	<0.1	0.4	0.1	46	0.54	0.049
ROS 151310	Soil	0.4	9.2	5.5	53	<0.1	10.6	9.3	402	1.98	6.5	0.3	<0.5	2.3	20	<0.1	0.4	0.1	43	0.22	0.050
ROS 151308	Soil	0.3	15.2	6.4	65	<0.1	17.1	10.6	591	2.50	5.6	0.6	1.1	3.2	22	<0.1	0.4	0.1	57	0.49	0.035
ROS 151311	Soil	0.5	13.2	6.5	42	<0.1	12.6	8.6	268	2.18	4.8	0.4	0.8	2.4	20	<0.1	0.3	0.1	60	0.28	0.023
ROS 151299	Soil	1.1	13.0	10.0	38	<0.1	12.9	6.9	238	2.30	5.8	0.5	0.6	3.1	25	<0.1	0.6	0.1	51	0.55	0.038
ROS 151300	Soil	0.7	30.4	14.4	120	<0.1	13.7	10.0	580	3.28	15.0	0.9	3.8	4.2	45	<0.1	2.1	<0.1	77	0.77	0.058
ROS 151309	Soil	0.4	14.7	5.9	82	<0.1	19.3	13.7	438	3.30	5.3	0.4	<0.5	2.7	25	<0.1	0.3	<0.1	92	0.44	0.030
ROS 151109	Soil	0.6	26.3	8.2	43	<0.1	22.8	8.4	277	2.28	8.7	0.7	3.1	4.2	34	<0.1	0.6	0.1	57	0.47	0.055
ROS 160350	Soil	0.6	24.6	3.4	24	<0.1	12.6	8.9	176	2.22	4.8	0.3	<0.5	1.5	9	<0.1	0.2	<0.1	65	0.26	0.037
ROS 163011	Soil	1.8	19.8	13.5	75	<0.1	18.1	11.2	476	3.60	4.7	2.2	<0.5	13.4	24	<0.1	0.3	0.2	60	0.28	0.047
ROS 163014	Soil	0.7	22.9	7.9	52	<0.1	21.6	8.3	394	2.42	6.5	1.2	2.3	10.5	31	<0.1	0.5	0.1	50	0.52	0.062
ROS 160352	Soil	0.8	20.6	7.7	47	<0.1	18.5	10.9	317	2.83	7.0	0.5	1.8	3.0	17	<0.1	0.4	0.1	73	0.23	0.036
ROS 160349	Soil	1.0	21.4	7.3	27	<0.1	11.6	9.0	203	2.49	5.0	0.3	1.1	1.9	10	<0.1	0.3	0.2	66	0.22	0.054
ROS 160351	Soil	0.8	46.9	6.1	35	<0.1	19.4	11.4	275	2.92	6.4	0.7	2.1	3.6	18	<0.1	0.4	0.1	78	0.26	0.033
ROS 163013	Soil	2.4	24.7	25.1	96	<0.1	9.9	13.1	667	4.36	4.5	2.7	<0.5	37.6	16	<0.1	0.3	0.2	52	0.29	0.057
ROS 160354	Soil	1.5	41.4	8.0	32	0.2	15.9	18.4	628	2.55	4.7	0.5	0.8	2.0	18	<0.1	0.3	0.2	70	0.22	0.039
ROS 163017	Soil	1.0	19.4	4.1	51	<0.1	10.6	7.0	601	2.92	4.2	1.3	0.9	18.8	11	<0.1	0.3	<0.1	40	0.15	0.038
ROS 159156	Soil	0.6	12.0	6.8	42	<0.1	10.4	5.9	301	1.91	3.3	1.1	1.5	7.4	22	<0.1	0.3	0.1	41	0.26	0.031
ROS 163015	Soil	1.1	19.6	13.7	73	<0.1	9.8	8.8	745	2.54	2.8	1.5	1.6	18.9	46	0.2	0.3	0.2	42	2.94	0.062
ROS 163012	Soil	1.5	26.8	26.6	91	<0.1	11.8	11.7	653	4.08	5.6	3.4	1.0	29.9	17	<0.1	0.3	0.3	49	0.30	0.079
ROS 160353	Soil	1.4	28.8	6.5	41	0.2	23.5	22.0	1373	2.67	4.6	0.6	0.6	2.3	19	<0.1	0.3	0.1	68	0.23	0.036
ROS 160355	Soil	1.1	43.6	3.7	42	0.2	22.7	22.1	547	2.68	3.8	0.2	<0.5	1.1	24	<0.1	0.2	<0.1	70	0.29	0.035
ROS 163016	Soil	1.1	25.0	7.5	51	<0.1	19.2	8.8	446	2.96	8.2	1.2	1.0	14.0	18	<0.1	0.5	0.1	53	0.19	0.031
ROS 151312	Soil	0.4	12.6	6.5	44	<0.1	12.6	8.4	269	2.18	4.9	0.4	1.0	2.4	21	<0.1	0.3	<0.1	62	0.27	0.027
ROS 151302	Soil	0.4	25.0	10.5	50	0.1	18.8	7.6	368	1.82	5.8	1.0	3.7	1.0	63	0.3	0.5	0.1	37	2.06	0.071

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000611.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160358	Soil	8	50	0.87	199	0.118	2	1.59	0.018	0.16	0.5	0.02	2.6	0.1	<0.05	5	<0.5	<0.2
ROS 160359	Soil	8	50	1.12	268	0.144	2	1.66	0.018	0.28	0.4	0.01	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 159154	Soil	18	24	0.40	173	0.062	<1	1.40	0.010	0.07	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 160360	Soil	10	23	0.78	188	0.117	1	1.87	0.011	0.39	0.2	0.03	7.1	0.1	<0.05	8	<0.5	<0.2
ROS 151303	Soil	7	18	0.59	198	0.052	3	1.03	0.017	0.11	0.1	0.04	2.6	<0.1	0.07	3	0.6	<0.2
ROS 151307	Soil	13	26	1.02	197	0.107	1	1.61	0.010	0.27	<0.1	0.02	4.9	0.1	<0.05	5	<0.5	<0.2
ROS 151310	Soil	8	18	0.83	154	0.103	1	1.46	0.011	0.14	0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 151308	Soil	10	25	1.08	239	0.123	2	1.85	0.016	0.25	0.1	0.01	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 151311	Soil	9	22	0.80	202	0.106	<1	1.41	0.011	0.10	0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 151299	Soil	10	25	0.33	248	0.052	2	1.49	0.011	0.13	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 151300	Soil	16	26	0.83	194	0.069	1	1.95	0.016	0.09	0.2	0.09	6.4	<0.1	<0.05	9	<0.5	<0.2
ROS 151309	Soil	9	39	1.83	321	0.194	<1	2.50	0.012	0.53	0.1	0.01	7.3	0.2	<0.05	8	<0.5	<0.2
ROS 151109	Soil	15	28	0.53	227	0.075	<1	1.31	0.039	0.06	0.2	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160350	Soil	5	21	0.56	83	0.099	<1	1.38	0.022	0.05	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163011	Soil	9	38	0.81	159	0.116	2	2.17	0.010	0.41	0.2	0.02	3.4	0.3	<0.05	8	<0.5	<0.2
ROS 163014	Soil	29	24	0.56	134	0.087	2	1.21	0.023	0.17	0.2	0.04	3.7	0.1	<0.05	4	<0.5	<0.2
ROS 160352	Soil	10	33	0.74	241	0.116	1	2.10	0.015	0.15	0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 160349	Soil	7	24	0.43	114	0.076	<1	1.54	0.022	0.06	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
ROS 160351	Soil	11	29	0.73	191	0.113	<1	1.95	0.021	0.12	<0.1	0.03	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 163013	Soil	14	15	0.52	145	0.109	2	1.65	0.005	0.60	0.2	0.01	7.2	0.5	<0.05	7	<0.5	<0.2
ROS 160354	Soil	9	27	0.52	177	0.099	1	1.58	0.021	0.08	0.2	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
ROS 163017	Soil	51	13	0.90	87	0.147	1	1.58	0.012	0.49	0.1	0.02	5.8	0.3	<0.05	8	<0.5	<0.2
ROS 159156	Soil	25	21	0.38	175	0.082	<1	1.25	0.015	0.10	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 163015	Soil	35	13	0.51	101	0.063	2	1.02	0.010	0.35	0.2	0.03	4.2	0.3	<0.05	5	<0.5	<0.2
ROS 163012	Soil	20	19	0.70	123	0.136	2	1.98	0.008	0.62	0.1	0.01	6.4	0.5	<0.05	8	<0.5	<0.2
ROS 160353	Soil	10	47	0.63	220	0.106	<1	1.75	0.015	0.09	<0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
ROS 160355	Soil	5	33	1.22	139	0.130	<1	2.14	0.020	0.16	0.4	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 163016	Soil	35	26	0.69	124	0.122	1	1.71	0.013	0.30	0.2	0.02	5.6	0.2	<0.05	6	<0.5	<0.2
ROS 151312	Soil	9	22	0.81	199	0.111	<1	1.46	0.012	0.11	0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 151302	Soil	10	21	0.53	277	0.046	4	1.25	0.018	0.11	<0.1	0.07	2.8	<0.1	0.06	3	<0.5	<0.2

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 Report Date: November 12, 2010

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 151301	Soil		0.3	21.4	6.9	52	0.1	16.2	7.5	365	1.82	5.6	0.9	4.7	1.7	57	0.3	0.5	0.1	39	1.61	0.070
ROS 151306	Soil		0.3	22.6	6.7	61	<0.1	16.1	9.7	467	2.50	5.6	0.6	2.6	3.6	26	<0.1	0.4	0.1	60	0.66	0.049
ROS 149564	Soil		0.6	31.0	16.5	70	0.2	20.9	9.7	632	2.66	7.5	1.2	1.6	2.0	53	0.2	1.3	0.2	54	1.14	0.064
ROS 149565	Soil		0.8	42.2	21.1	101	0.2	23.6	11.1	373	3.22	12.7	0.8	4.0	6.2	34	<0.1	1.5	0.3	67	0.52	0.052
ROS 149567	Soil		13.5	50.2	14.5	133	0.2	18.8	18.1	706	4.28	5.3	0.9	19.3	5.7	25	0.2	0.9	0.4	74	0.97	0.084
ROS 149566	Soil		14.8	48.4	16.0	122	0.2	19.1	17.2	675	4.10	5.5	0.9	19.8	5.6	26	0.2	0.9	0.4	70	0.99	0.079
ROS 149563	Soil		0.4	31.1	10.2	59	0.1	16.0	8.1	414	2.12	4.4	1.1	9.0	2.2	51	0.2	0.8	0.1	48	1.10	0.056
ROS 149529	Soil		0.3	22.5	4.6	107	<0.1	13.3	12.9	418	3.59	4.1	0.7	2.2	2.1	45	<0.1	0.3	<0.1	79	0.69	0.142
ROS 149528	Soil		0.2	21.5	7.6	69	0.1	39.7	16.8	813	2.77	1.3	0.4	6.9	2.3	27	0.2	0.2	<0.1	91	0.69	0.070
ROS 149526	Soil		0.6	12.4	4.8	89	<0.1	14.7	15.2	595	3.31	4.1	0.4	6.3	3.1	12	<0.1	0.2	0.1	79	0.38	0.063
ROS 149524	Soil		0.2	31.7	5.1	63	0.2	15.8	8.9	492	1.83	1.7	1.6	3.0	1.9	49	0.3	0.2	<0.1	47	1.41	0.077
ROS 149522	Soil		0.6	27.9	8.1	50	<0.1	37.4	10.1	376	2.36	12.4	0.4	3.4	3.2	34	<0.1	0.7	0.1	58	1.60	0.028
ROS 149523	Soil		1.1	20.1	6.5	39	<0.1	19.7	5.4	283	1.57	4.5	0.8	3.4	2.3	112	0.1	0.4	0.1	50	10.93	0.039
ROS 149525	Soil		0.7	17.9	5.9	105	0.1	11.1	9.4	822	3.21	2.2	0.9	2.9	4.5	17	<0.1	0.2	0.1	66	0.55	0.091
ROS 165622	Soil		0.4	28.1	9.3	48	0.1	24.8	9.3	417	2.26	8.9	0.6	2.3	3.4	36	0.1	0.6	0.1	55	1.10	0.050
ROS 165628	Soil		0.2	8.2	4.7	97	<0.1	15.9	13.4	732	2.78	4.0	0.6	2.8	4.0	14	<0.1	0.4	<0.1	63	0.46	0.071
ROS 165629	Soil		0.7	8.0	6.9	57	<0.1	8.2	9.8	332	2.31	2.5	0.2	1.9	1.7	12	<0.1	<0.1	<0.1	52	0.21	0.031
ROS 165627	Soil		0.6	7.9	4.0	82	<0.1	7.5	11.2	421	2.16	3.4	0.2	<0.5	2.4	8	0.1	0.3	<0.1	52	0.23	0.035
ROS 165626	Soil		0.3	14.9	4.5	105	<0.1	19.6	14.7	991	3.62	2.1	0.2	5.0	4.1	14	<0.1	0.3	<0.1	100	0.46	0.076
ROS 165624	Soil		0.7	25.4	9.3	44	0.1	20.6	9.9	399	2.36	6.2	0.8	6.0	3.6	38	<0.1	0.4	0.1	55	1.40	0.037
ROS 165625	Soil		0.6	30.4	7.7	57	0.1	25.4	10.3	462	2.43	9.5	0.5	3.6	3.7	60	0.1	0.5	0.1	56	2.40	0.067
ROS 165623	Soil		0.8	31.2	7.4	50	<0.1	25.7	9.5	394	2.26	9.4	0.6	5.8	3.3	62	0.1	0.5	0.1	55	3.05	0.062
ROS 152618	Soil		0.2	23.7	9.1	47	0.1	19.1	7.7	341	1.92	6.2	0.9	7.6	1.9	37	0.1	0.7	0.1	43	1.48	0.053
ROS 152620	Soil		0.4	22.4	12.3	60	0.2	16.0	8.1	342	2.04	5.8	0.9	16.4	2.9	34	0.1	1.2	0.1	47	1.11	0.060
ROS 152619	Soil		0.6	27.2	11.0	66	0.2	18.4	7.9	293	2.30	6.1	0.4	8.7	3.6	26	0.3	1.1	0.1	44	0.83	0.044
ROS 152621	Soil		0.2	27.9	13.9	65	0.3	17.4	9.1	289	2.13	5.5	0.7	11.0	4.3	24	0.4	1.9	0.2	44	0.72	0.060
ROS 152623	Soil		0.4	21.1	11.1	54	0.1	16.1	8.5	381	2.11	6.4	1.3	5.8	2.9	31	0.1	1.0	0.2	48	0.84	0.053
ROS 152614	Soil		0.3	22.6	10.1	45	<0.1	20.6	7.4	281	1.99	7.9	0.9	8.8	1.4	37	0.3	0.6	0.1	46	1.84	0.052
ROS 152616	Soil		0.5	24.5	11.0	46	0.1	23.7	10.1	398	2.42	8.8	1.0	14.5	2.7	28	<0.1	0.7	0.2	54	1.10	0.047
ROS 152617	Soil		0.5	26.4	10.1	56	0.1	19.7	8.4	296	2.19	8.3	0.6	14.7	3.2	32	0.3	0.5	0.2	51	1.30	0.056

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 151301	Soil	11	21	0.57	266	0.058	3	1.18	0.022	0.11	0.1	0.05	2.9	<0.1	<0.05	3	<0.5	<0.2
ROS 151306	Soil	14	26	0.90	221	0.120	2	1.69	0.017	0.20	0.1	0.03	6.6	0.1	<0.05	6	<0.5	<0.2
ROS 149564	Soil	15	27	0.56	475	0.048	3	1.69	0.021	0.11	0.2	0.09	3.4	<0.1	<0.05	6	0.6	<0.2
ROS 149565	Soil	18	38	0.72	198	0.081	1	1.95	0.018	0.12	0.2	0.06	5.0	<0.1	<0.05	7	<0.5	<0.2
ROS 149567	Soil	21	22	0.94	308	0.028	<1	2.36	0.013	0.14	<0.1	0.33	5.7	<0.1	<0.05	10	<0.5	<0.2
ROS 149566	Soil	22	22	0.90	308	0.028	<1	2.25	0.013	0.14	0.1	0.29	5.5	<0.1	<0.05	9	<0.5	<0.2
ROS 149563	Soil	14	26	0.54	278	0.044	<1	1.23	0.020	0.05	0.3	0.04	2.7	<0.1	<0.05	4	1.6	<0.2
ROS 149529	Soil	9	18	1.14	203	0.220	<1	2.19	0.012	0.84	0.1	0.01	1.9	0.2	<0.05	9	<0.5	<0.2
ROS 149528	Soil	6	80	3.23	296	0.181	<1	2.90	0.019	0.72	<0.1	0.02	5.4	0.2	<0.05	7	0.7	<0.2
ROS 149526	Soil	9	29	1.47	296	0.190	<1	2.02	0.010	0.57	<0.1	<0.01	9.6	0.2	<0.05	8	0.6	1.0
ROS 149524	Soil	11	26	1.18	236	0.109	<1	1.49	0.014	0.29	<0.1	0.03	4.0	0.2	0.06	5	1.3	1.0
ROS 149522	Soil	15	44	0.86	185	0.066	<1	1.40	0.020	0.07	0.2	0.04	3.8	<0.1	<0.05	4	0.9	<0.2
ROS 149523	Soil	8	25	1.51	178	0.056	<1	1.52	0.013	0.13	<0.1	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 149525	Soil	25	19	1.09	327	0.162	<1	1.61	0.012	0.83	0.1	<0.01	11.2	0.3	<0.05	7	0.5	<0.2
ROS 165622	Soil	13	29	0.65	253	0.076	<1	1.32	0.032	0.06	0.2	<0.01	3.1	<0.1	<0.05	3	1.1	<0.2
ROS 165628	Soil	17	16	1.40	174	0.184	<1	1.85	0.011	0.52	0.1	<0.01	8.1	0.2	<0.05	7	0.9	1.0
ROS 165629	Soil	5	14	1.15	118	0.186	<1	1.56	0.008	0.54	<0.1	0.01	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 165627	Soil	6	13	0.98	105	0.123	<1	1.45	0.007	0.29	0.1	<0.01	8.3	0.2	<0.05	6	1.8	1.0
ROS 165626	Soil	18	41	1.68	318	0.233	<1	2.20	0.010	0.89	0.1	0.02	15.4	0.3	<0.05	8	0.7	<0.2
ROS 165624	Soil	12	27	0.69	285	0.088	<1	1.56	0.027	0.10	0.1	0.02	4.1	<0.1	<0.05	5	0.6	<0.2
ROS 165625	Soil	14	27	0.82	307	0.093	2	1.49	0.027	0.10	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 165623	Soil	12	27	0.74	239	0.074	2	1.52	0.032	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 152618	Soil	12	23	0.44	238	0.044	1	1.23	0.018	0.05	0.4	0.06	2.6	<0.1	<0.05	3	<0.5	0.9
ROS 152620	Soil	14	22	0.48	240	0.045	<1	1.30	0.017	0.07	0.3	0.11	2.7	<0.1	<0.05	3	<0.5	0.9
ROS 152619	Soil	14	24	0.53	194	0.051	<1	1.33	0.019	0.10	0.4	0.14	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 152621	Soil	15	23	0.44	329	0.046	<1	1.16	0.016	0.08	0.3	0.08	3.0	<0.1	<0.05	4	0.8	<0.2
ROS 152623	Soil	14	24	0.42	334	0.046	1	1.54	0.016	0.05	0.3	0.06	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 152614	Soil	11	24	0.47	207	0.030	<1	1.39	0.015	0.04	0.2	0.20	2.7	<0.1	<0.05	5	0.7	<0.2
ROS 152616	Soil	13	27	0.47	229	0.052	<1	1.46	0.018	0.05	0.3	0.13	3.4	<0.1	0.06	3	0.5	0.9
ROS 152617	Soil	13	26	0.58	188	0.057	<1	1.37	0.017	0.06	0.5	0.11	3.4	<0.1	<0.05	4	0.7	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173214	Soil	0.6	33.7	38.4	163	0.3	14.9	14.7	677	4.49	4.8	0.8	4.0	8.8	29	0.6	3.7	0.4	94	0.79	0.089
ROS 173217	Soil	0.4	28.2	8.3	57	0.1	23.2	10.4	479	2.22	6.9	1.2	10.2	3.9	36	<0.1	0.7	0.1	54	0.69	0.053
ROS 173218	Soil	0.8	20.7	8.2	46	0.1	15.6	9.0	394	2.22	7.1	1.0	4.1	3.7	32	0.2	0.7	0.1	56	0.53	0.060
ROS 173209	Soil	0.9	17.2	12.0	79	<0.1	21.0	13.3	593	2.91	7.9	0.5	5.7	3.9	37	0.3	1.3	0.1	71	0.41	0.047
ROS 173215	Soil	0.9	26.0	9.2	63	<0.1	20.9	10.1	361	2.39	8.2	1.5	7.2	3.4	41	0.2	0.9	0.2	57	0.90	0.056
ROS 173213	Soil	0.9	31.2	11.0	61	0.1	22.5	10.2	397	2.65	9.2	0.7	5.6	4.4	28	<0.1	0.9	0.1	65	0.50	0.044
ROS 173216	Soil	0.5	23.2	8.5	55	0.2	20.8	9.0	372	2.31	7.9	0.9	5.2	3.3	36	0.1	0.6	0.1	56	0.70	0.050
ROS 173219	Soil	0.9	19.7	8.6	58	0.1	17.7	10.2	442	2.28	6.6	0.9	4.1	3.0	39	<0.1	0.6	0.1	55	0.83	0.056
ROS 173222	Soil	0.5	25.1	7.5	59	0.1	21.9	9.3	351	2.18	6.4	0.9	3.0	2.8	41	0.2	0.6	0.1	51	0.95	0.050
ROS 173211	Soil	0.9	14.3	20.1	62	0.4	16.4	7.7	207	2.40	6.6	0.4	3.8	3.3	20	0.2	1.8	0.1	60	0.21	0.023
ROS 173212	Soil	1.1	19.0	9.6	61	<0.1	15.5	8.0	250	2.65	8.8	0.5	6.8	4.0	23	<0.1	1.0	0.1	74	0.28	0.028
ROS 173210	Soil	1.4	16.4	11.7	77	0.2	16.2	11.0	566	2.71	7.5	0.5	3.4	3.6	19	<0.1	1.6	0.1	69	0.23	0.039
ROS 165630	Soil	0.7	9.6	7.8	77	<0.1	14.1	10.3	330	2.99	5.7	0.3	3.7	2.2	26	<0.1	0.4	0.1	68	0.32	0.075
ROS 165631	Soil	0.7	15.0	6.7	51	<0.1	18.2	10.3	327	2.48	7.8	0.3	6.6	2.7	16	<0.1	0.5	0.1	65	0.20	0.032
ROS 165632	Soil	0.2	34.1	3.0	82	<0.1	14.9	18.5	689	3.61	3.7	0.6	3.3	2.8	20	<0.1	0.2	<0.1	138	0.57	0.065
ROS 149574	Soil	0.2	26.6	7.5	56	<0.1	25.2	11.5	761	2.48	5.7	0.5	2.4	2.4	46	0.1	0.2	0.1	57	4.12	0.043
ROS 151319	Soil	1.0	46.6	10.9	53	0.2	23.3	11.0	530	2.60	7.5	1.6	21.4	4.5	34	0.1	0.7	0.2	56	0.84	0.041
ROS 151321	Soil	0.7	32.3	10.5	63	0.1	23.5	9.6	396	2.39	7.7	1.1	6.1	3.4	38	0.3	0.6	0.2	53	0.81	0.052
ROS 151250	Soil	1.2	30.7	10.9	65	<0.1	23.5	11.3	324	2.95	9.0	1.6	22.9	5.5	24	<0.1	0.7	0.2	65	0.46	0.028
ROS 151323	Soil	0.8	31.4	9.6	66	0.1	28.9	10.6	431	2.50	9.7	0.5	5.3	3.6	42	0.3	0.7	0.2	54	1.14	0.075
ROS 151331	Soil	0.6	30.5	8.7	53	<0.1	28.5	11.5	533	2.68	10.8	0.6	3.4	3.2	33	<0.1	0.6	0.1	56	0.67	0.058
ROS 151322	Soil	0.8	31.9	9.2	66	0.1	29.3	10.9	465	2.58	9.7	0.5	4.9	3.7	49	0.3	0.8	0.2	56	1.50	0.072
ROS 151328	Soil	0.9	20.7	10.2	92	0.4	16.2	10.0	641	2.90	6.1	0.8	10.6	5.7	36	0.2	1.2	0.4	53	0.62	0.069
ROS 151333	Soil	0.4	32.3	9.4	55	<0.1	24.0	9.9	365	2.70	10.0	0.5	2.3	2.9	34	<0.1	0.5	0.1	59	0.95	0.058
ROS 151341	Soil	0.4	36.2	9.6	73	<0.1	23.0	13.2	604	3.33	2.8	0.5	1.9	3.9	21	<0.1	0.2	0.1	84	0.84	0.086
ROS 151337	Soil	0.2	16.7	4.2	111	<0.1	11.7	15.7	616	3.35	6.2	0.3	1.5	2.8	15	<0.1	0.2	<0.1	73	0.47	0.094
ROS 151340	Soil	0.2	33.0	8.5	74	<0.1	28.2	11.8	711	3.16	3.6	0.6	2.8	4.5	22	0.2	0.3	<0.1	83	0.65	0.071
ROS 151326	Soil	0.8	28.3	10.2	96	<0.1	25.2	13.0	484	3.31	12.9	0.5	1.8	3.6	45	0.1	0.9	<0.1	77	0.65	0.055
ROS 164052	Soil	1.3	27.8	8.7	87	<0.1	18.5	14.3	601	3.79	6.9	0.7	2.2	4.5	22	0.2	0.4	0.1	88	0.32	0.045
ROS 164047	Soil	0.9	35.1	38.7	281	<0.1	18.3	12.1	778	4.36	4.0	1.7	1.2	13.6	25	0.2	0.2	0.3	72	0.40	0.070

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173214	Soil	37	29	0.98	451	0.068	<1	2.41	0.013	0.21	<0.1	0.36	8.8	0.1	<0.05	9	1.8	<0.2
ROS 173217	Soil	14	28	0.47	310	0.067	<1	1.39	0.022	0.05	0.3	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173218	Soil	13	28	0.46	259	0.069	<1	1.38	0.019	0.07	0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173209	Soil	11	42	0.72	343	0.102	1	1.90	0.011	0.11	<0.1	<0.01	4.3	<0.1	<0.05	8	<0.5	<0.2
ROS 173215	Soil	13	29	0.50	391	0.065	1	1.41	0.020	0.05	0.2	0.08	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 173213	Soil	15	35	0.55	419	0.081	<1	1.67	0.021	0.06	0.2	0.03	4.5	<0.1	<0.05	5	0.6	<0.2
ROS 173216	Soil	12	28	0.49	322	0.068	<1	1.41	0.022	0.05	0.2	0.03	3.3	<0.1	<0.05	6	<0.5	0.8
ROS 173219	Soil	14	29	0.50	305	0.067	2	1.42	0.019	0.05	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	0.9
ROS 173222	Soil	12	31	0.54	307	0.055	<1	1.37	0.025	0.06	<0.1	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173211	Soil	8	28	0.54	319	0.055	<1	1.62	0.009	0.05	0.1	0.10	2.3	<0.1	<0.05	6	0.8	<0.2
ROS 173212	Soil	11	32	0.54	293	0.059	<1	1.82	0.011	0.06	0.2	0.06	3.4	<0.1	<0.05	7	<0.5	<0.2
ROS 173210	Soil	12	32	0.64	360	0.045	<1	1.94	0.011	0.06	0.2	<0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
ROS 165630	Soil	8	23	0.74	319	0.126	<1	1.85	0.011	0.27	0.1	<0.01	2.0	<0.1	0.07	8	<0.5	<0.2
ROS 165631	Soil	7	28	0.87	137	0.098	<1	1.63	0.008	0.17	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	0.2
ROS 165632	Soil	10	24	2.66	375	0.198	<1	2.60	0.015	0.76	0.1	0.02	12.7	0.2	<0.05	10	<0.5	<0.2
ROS 149574	Soil	8	38	1.67	277	0.100	1	1.78	0.019	0.28	0.1	0.03	3.7	0.1	0.07	6	<0.5	<0.2
ROS 151319	Soil	21	30	0.48	445	0.053	2	1.64	0.019	0.05	7.3	0.08	4.2	<0.1	<0.05	6	<0.5	0.2
ROS 151321	Soil	13	29	0.50	386	0.060	2	1.45	0.026	0.06	0.5	0.05	3.5	<0.1	0.06	5	<0.5	<0.2
ROS 151250	Soil	16	36	0.59	314	0.066	<1	1.85	0.019	0.08	3.8	0.03	5.3	<0.1	<0.05	6	<0.5	0.4
ROS 151323	Soil	14	28	0.69	347	0.074	2	1.28	0.033	0.08	0.3	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151331	Soil	14	29	0.61	315	0.075	2	1.44	0.033	0.07	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 151322	Soil	14	29	0.74	351	0.075	2	1.19	0.033	0.08	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	0.2
ROS 151328	Soil	21	27	0.91	526	0.041	2	1.77	0.012	0.16	0.3	0.18	5.2	<0.1	0.08	7	<0.5	<0.2
ROS 151333	Soil	13	30	0.67	308	0.073	2	1.48	0.027	0.07	0.2	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 151341	Soil	13	38	2.52	320	0.169	1	2.91	0.010	0.77	<0.1	0.02	6.9	0.2	<0.05	10	<0.5	<0.2
ROS 151337	Soil	11	21	1.63	273	0.146	<1	1.64	0.007	0.38	<0.1	<0.01	12.5	0.2	<0.05	9	<0.5	0.2
ROS 151340	Soil	16	47	2.20	250	0.169	1	2.65	0.012	0.56	<0.1	0.03	8.1	0.2	<0.05	9	<0.5	0.2
ROS 151326	Soil	11	35	0.97	264	0.096	2	1.92	0.023	0.14	0.2	0.05	5.5	<0.1	<0.05	9	<0.5	<0.2
ROS 164052	Soil	12	33	1.06	189	0.171	2	2.45	0.012	0.75	0.2	0.02	3.7	0.3	<0.05	8	<0.5	<0.2
ROS 164047	Soil	22	14	1.33	192	0.238	<1	2.83	0.015	1.00	<0.1	0.02	4.6	0.6	<0.05	12	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164051	Soil	1.4	31.6	10.4	101	0.2	19.4	13.5	671	3.78	8.0	0.7	1.4	5.2	25	0.1	0.4	0.1	96	0.29	0.043
ROS 164046	Soil	1.6	62.5	7.9	125	<0.1	33.1	15.6	431	4.24	4.4	1.3	1.5	11.6	48	<0.1	0.2	0.2	80	0.27	0.053
ROS 152615	Soil	0.4	35.0	13.0	64	0.1	27.3	10.7	452	2.70	10.7	0.5	4.7	3.4	27	0.1	0.7	0.2	61	0.99	0.054
ROS 152637	Soil	0.4	24.1	11.0	60	0.2	15.4	6.6	252	2.08	4.7	2.3	5.6	3.9	46	0.3	1.0	0.1	44	1.42	0.066
ROS 152636	Soil	0.4	25.5	9.7	55	0.1	20.1	8.9	358	2.26	7.5	0.7	4.1	3.0	37	0.2	0.7	0.1	50	1.47	0.061
ROS 152622	Soil	0.3	21.5	11.9	62	0.1	15.6	7.4	365	2.03	6.1	1.3	6.6	2.1	40	0.3	1.2	0.1	42	1.53	0.057
ROS 152639	Soil	0.8	14.8	11.5	57	<0.1	16.1	8.7	243	2.41	6.6	0.7	4.8	4.7	24	<0.1	0.7	0.2	59	0.46	0.047
ROS 152638	Soil	0.7	21.1	11.1	64	0.2	16.6	9.4	298	2.43	7.1	1.2	6.9	5.8	27	<0.1	1.2	0.2	54	0.57	0.052
ROS 152640	Soil	1.0	37.9	14.2	86	0.4	18.0	10.8	421	2.98	7.3	1.0	12.3	8.1	28	0.2	1.9	0.2	70	0.72	0.079
ROS 152641	Soil	0.8	22.6	10.6	69	0.2	19.3	8.6	343	2.61	6.3	0.9	2.9	5.1	28	0.2	1.2	0.1	62	0.63	0.060
ROS 152642	Soil	0.5	32.6	11.2	82	0.2	23.8	11.6	650	2.94	6.9	1.6	3.8	6.9	39	0.2	1.2	0.1	61	1.13	0.080
ROS 152643	Soil	0.6	31.2	11.3	77	0.2	21.4	10.3	599	2.62	5.8	2.1	4.2	5.7	40	0.3	1.2	0.2	51	1.29	0.085
ROS 152624	Soil	1.7	31.3	11.3	58	0.2	25.0	9.0	398	2.19	6.4	1.2	9.2	3.1	36	0.2	1.4	0.2	54	1.23	0.072
ROS 152628	Soil	0.7	39.9	12.8	64	0.5	28.1	11.0	484	2.46	8.1	1.7	6.2	3.4	49	0.2	2.2	0.2	53	1.45	0.060
ROS 152626	Soil	0.6	26.5	14.0	61	0.4	22.0	10.1	470	2.33	7.3	1.1	5.2	3.3	35	0.3	2.2	0.2	53	1.04	0.064
ROS 152627	Soil	0.7	28.9	12.0	68	0.5	16.9	8.8	368	2.31	7.0	1.0	6.0	3.3	35	0.3	2.3	0.1	48	1.11	0.061
ROS 152629	Soil	0.9	33.3	10.1	64	0.4	24.4	10.3	1042	2.07	6.6	1.4	5.5	2.1	58	0.4	1.6	0.1	46	1.96	0.074
ROS 152625	Soil	1.6	34.7	15.7	99	0.2	23.8	11.8	560	2.90	7.8	0.9	7.1	4.1	36	0.4	3.5	0.1	58	1.11	0.089
ROS 164681	Soil	0.8	25.1	8.0	59	0.1	10.5	12.4	553	3.37	3.4	0.9	1.0	4.4	21	0.1	0.2	0.1	64	0.20	0.050
ROS 164676	Soil	1.1	49.1	8.1	124	<0.1	12.4	10.8	560	3.87	4.1	1.6	2.1	9.1	51	0.2	0.2	0.2	78	0.17	0.032
ROS 164679	Soil	0.9	39.6	2.9	88	<0.1	10.3	15.4	951	4.70	1.2	2.0	<0.5	13.9	50	<0.1	<0.1	<0.1	124	0.24	0.054
ROS 164680	Soil	0.9	58.7	3.6	175	<0.1	11.5	17.4	1056	6.56	2.0	1.3	0.9	6.0	40	<0.1	0.1	<0.1	179	0.17	0.042
ROS 160922	Soil	1.7	13.8	19.1	78	<0.1	53.4	13.5	508	3.57	3.8	1.9	0.5	10.0	14	<0.1	0.3	0.3	77	0.27	0.031
ROS 160920	Soil	0.8	16.2	5.0	51	<0.1	9.6	5.7	501	2.36	2.9	1.6	4.3	17.3	14	<0.1	0.3	0.1	28	0.23	0.052
ROS 160926	Soil	0.5	36.7	10.0	79	<0.1	25.2	19.7	850	3.77	6.1	1.4	2.5	9.7	30	0.1	0.3	0.1	84	0.67	0.064
ROS 160923	Soil	1.5	12.0	10.8	41	<0.1	14.1	6.8	304	2.45	5.5	1.0	4.9	7.2	16	<0.1	0.4	0.2	55	0.23	0.014
ROS 160921	Soil	1.6	17.8	21.7	103	<0.1	29.0	14.0	551	3.81	5.1	1.8	7.3	15.1	26	<0.1	0.3	0.4	74	0.65	0.052
ROS 160925	Soil	0.5	34.6	9.5	79	<0.1	25.7	18.7	829	3.72	6.4	1.3	2.0	10.1	30	<0.1	0.3	0.1	83	0.67	0.064
ROS 160927	Soil	1.6	30.7	17.1	118	<0.1	16.8	19.4	1005	4.83	4.6	2.8	1.8	14.9	22	<0.1	0.3	0.4	87	0.52	0.135
ROS 160924	Soil	1.1	30.9	14.7	59	<0.1	28.4	11.7	392	2.80	6.5	1.6	5.0	27.9	25	<0.1	0.5	0.1	59	0.29	0.021

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164051	Soil	12	31	1.19	182	0.174	1	2.59	0.014	0.80	0.1	0.02	3.6	0.3	<0.05	8	<0.5	<0.2
ROS 164046	Soil	28	36	1.23	225	0.204	<1	2.48	0.018	1.02	0.1	<0.01	4.6	0.6	<0.05	9	<0.5	0.2
ROS 152615	Soil	17	30	0.62	241	0.061	2	1.71	0.022	0.06	0.3	0.35	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 152637	Soil	23	25	0.48	419	0.047	2	1.31	0.016	0.08	0.2	0.10	3.3	<0.1	0.07	5	0.5	<0.2
ROS 152636	Soil	14	27	0.65	217	0.070	2	1.46	0.025	0.07	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 152622	Soil	12	23	0.42	366	0.044	3	1.33	0.018	0.05	0.3	0.10	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 152639	Soil	13	29	0.50	275	0.066	1	1.72	0.016	0.07	0.4	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 152638	Soil	18	29	0.46	479	0.060	1	1.63	0.020	0.07	0.4	0.09	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 152640	Soil	18	36	0.64	312	0.065	2	1.74	0.014	0.14	0.4	0.10	4.8	<0.1	<0.05	7	<0.5	<0.2
ROS 152641	Soil	19	35	0.50	421	0.059	3	1.49	0.016	0.12	0.3	0.08	3.3	<0.1	<0.05	5	<0.5	0.3
ROS 152642	Soil	37	36	0.64	500	0.061	3	1.57	0.018	0.14	0.3	0.09	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 152643	Soil	33	29	0.56	526	0.054	3	1.32	0.019	0.12	0.3	0.11	4.0	<0.1	0.10	4	<0.5	<0.2
ROS 152624	Soil	18	36	0.45	435	0.055	2	1.39	0.019	0.06	0.4	0.12	3.5	<0.1	0.05	4	<0.5	<0.2
ROS 152628	Soil	18	34	0.64	567	0.057	3	1.47	0.020	0.09	0.3	0.20	3.5	<0.1	0.06	4	<0.5	<0.2
ROS 152626	Soil	16	33	0.47	581	0.055	2	1.36	0.017	0.07	0.4	0.14	3.5	<0.1	<0.05	4	0.5	<0.2
ROS 152627	Soil	15	27	0.40	590	0.046	3	1.24	0.017	0.09	0.5	0.14	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 152629	Soil	15	29	0.57	517	0.051	4	1.19	0.017	0.08	0.3	0.11	2.9	<0.1	0.07	4	<0.5	<0.2
ROS 152625	Soil	20	38	0.46	777	0.043	3	1.27	0.019	0.10	0.5	0.41	5.0	<0.1	<0.05	4	<0.5	<0.2
ROS 164681	Soil	8	19	0.79	211	0.166	1	1.85	0.011	0.64	0.1	0.01	2.4	0.2	<0.05	7	<0.5	<0.2
ROS 164676	Soil	24	17	1.02	215	0.163	1	1.84	0.017	0.69	<0.1	0.01	6.0	0.3	0.08	6	<0.5	0.3
ROS 164679	Soil	21	25	2.03	210	0.241	<1	2.98	0.013	2.01	0.1	<0.01	7.1	0.5	<0.05	10	<0.5	0.5
ROS 164680	Soil	16	32	2.59	279	0.290	<1	3.62	0.019	2.17	<0.1	<0.01	6.5	0.8	<0.05	12	<0.5	<0.2
ROS 160922	Soil	7	133	1.30	114	0.148	2	1.83	0.009	0.51	0.2	0.01	3.4	0.5	<0.05	8	<0.5	<0.2
ROS 160920	Soil	43	12	0.42	122	0.057	<1	0.85	0.011	0.18	0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 160926	Soil	31	38	1.63	221	0.167	2	2.20	0.017	0.77	0.1	0.04	4.5	0.6	<0.05	6	<0.5	<0.2
ROS 160923	Soil	14	24	0.46	98	0.076	<1	1.17	0.009	0.14	0.2	0.01	1.9	0.1	<0.05	5	<0.5	<0.2
ROS 160921	Soil	10	60	1.06	123	0.138	2	1.99	0.010	0.45	0.1	0.01	4.7	0.4	<0.05	7	<0.5	<0.2
ROS 160925	Soil	31	38	1.63	225	0.164	2	2.17	0.017	0.75	0.2	0.05	4.6	0.5	<0.05	6	0.5	<0.2
ROS 160927	Soil	16	24	1.32	212	0.170	2	2.28	0.010	0.96	0.1	0.01	4.7	0.6	<0.05	9	<0.5	<0.2
ROS 160924	Soil	31	41	0.63	224	0.091	1	1.74	0.013	0.09	0.1	0.03	5.2	0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 173405	Soil	0.6	15.4	10.8	76	<0.1	11.6	9.4	669	3.73	6.3	1.2	<0.5	12.3	20	<0.1	0.3	0.1	64	0.28	0.028
ROS 173407	Soil	0.6	11.4	8.2	76	<0.1	8.5	10.2	712	4.19	4.7	1.0	<0.5	15.5	12	<0.1	0.2	<0.1	62	0.15	0.032
ROS 173408	Soil	1.0	11.3	8.3	84	<0.1	6.3	10.4	819	4.18	3.1	2.3	<0.5	20.2	22	<0.1	0.1	<0.1	61	0.25	0.030
ROS 173412	Soil	0.4	24.6	6.0	91	<0.1	8.2	10.3	673	3.64	2.1	1.7	1.0	13.3	25	<0.1	0.2	<0.1	59	0.36	0.033
ROS 164045	Soil	1.3	51.7	7.0	144	<0.1	17.4	15.9	1252	4.21	3.1	0.8	<0.5	5.5	23	0.3	0.2	0.1	89	0.27	0.074
ROS 164044	Soil	1.7	136.4	8.5	79	0.4	29.5	13.5	470	3.58	4.6	1.6	5.3	4.4	32	0.2	0.2	0.2	79	0.37	0.073
ROS 164043	Soil	1.1	90.3	6.5	106	0.1	29.0	12.2	427	3.21	3.8	1.3	2.5	6.8	27	0.2	0.3	0.1	69	0.40	0.053
ROS 164042	Soil	1.8	175.5	10.3	89	0.2	44.6	12.1	346	3.17	5.4	1.9	4.1	5.2	35	0.3	0.3	0.2	77	0.40	0.063
ROS 164041	Soil	3.5	627.8	6.5	75	0.2	31.1	12.6	285	3.72	2.7	2.2	3.9	13.9	50	0.1	0.2	0.4	62	0.30	0.071
ROS 164040	Soil	2.3	32.1	9.7	63	0.2	18.0	9.8	296	2.97	5.4	1.5	2.8	4.3	27	0.2	0.3	0.2	69	0.31	0.062
ROS 164038	Soil	1.0	19.8	8.2	51	<0.1	16.8	8.8	384	2.70	6.4	0.7	1.7	3.4	24	<0.1	0.4	0.1	49	0.33	0.044
ROS 164039	Soil	0.9	82.6	8.1	81	<0.1	87.6	23.7	487	4.14	3.4	1.1	3.3	4.2	50	0.1	0.3	<0.1	116	0.68	0.115
ROS 164678	Soil	3.8	30.2	13.4	219	0.1	2.3	13.2	1262	5.17	0.5	3.1	1.8	9.9	91	0.2	<0.1	0.3	90	0.16	0.028
ROS 164439	Soil	1.4	14.1	8.0	58	0.2	8.7	5.2	170	2.33	5.2	2.0	1.9	4.7	33	0.1	0.3	0.3	46	0.17	0.047
ROS 164438	Soil	1.0	20.3	9.8	79	0.3	9.3	5.4	203	2.16	4.3	1.7	2.0	3.9	31	0.1	0.2	0.4	41	0.16	0.040
ROS 164677	Soil	0.7	17.3	5.0	144	<0.1	8.4	13.5	753	4.37	3.9	0.8	<0.5	3.8	34	<0.1	0.1	<0.1	93	0.18	0.035
ROS 164437	Soil	1.3	18.6	10.9	93	0.2	11.7	8.0	276	2.77	5.4	1.9	2.5	5.3	29	0.3	0.3	0.3	60	0.19	0.052
ROS 164454	Soil	0.6	14.9	12.8	110	<0.1	7.8	5.9	414	2.03	3.1	0.7	0.6	7.0	9	<0.1	0.1	<0.1	39	0.11	0.017
ROS 164674	Soil	1.3	32.5	4.1	69	<0.1	6.9	11.2	520	3.53	2.3	2.7	<0.5	18.0	26	<0.1	0.2	<0.1	61	0.16	0.030
ROS 164675	Soil	0.7	37.0	5.2	137	<0.1	5.8	23.0	1197	6.07	1.7	0.8	1.3	3.2	76	<0.1	0.1	<0.1	171	0.45	0.056



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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173405	Soil	15	21	0.92	134	0.211	1	2.59	0.015	0.98	0.1	0.01	4.6	0.5	<0.05	9	<0.5	<0.2
ROS 173407	Soil	11	12	1.10	141	0.216	<1	2.46	0.009	0.98	0.1	<0.01	5.6	0.6	<0.05	10	<0.5	<0.2
ROS 173408	Soil	19	11	1.14	108	0.207	<1	2.77	0.008	1.17	0.1	<0.01	4.6	0.8	<0.05	11	<0.5	<0.2
ROS 173412	Soil	24	13	1.14	156	0.174	<1	2.06	0.017	0.91	<0.1	<0.01	4.7	0.5	<0.05	9	<0.5	<0.2
ROS 164045	Soil	14	16	1.14	320	0.202	<1	2.53	0.012	1.03	0.1	<0.01	4.1	0.5	<0.05	9	<0.5	<0.2
ROS 164044	Soil	18	42	0.82	393	0.134	1	1.85	0.016	0.27	0.1	0.03	4.5	0.2	<0.05	6	0.6	<0.2
ROS 164043	Soil	19	37	0.82	314	0.153	<1	1.72	0.016	0.36	<0.1	0.02	4.1	0.2	<0.05	6	<0.5	0.2
ROS 164042	Soil	16	71	0.91	351	0.124	1	1.72	0.016	0.15	0.1	0.01	4.8	0.1	<0.05	5	0.6	<0.2
ROS 164041	Soil	31	44	0.99	359	0.151	<1	2.12	0.017	0.62	<0.1	<0.01	3.9	0.5	0.09	6	1.2	<0.2
ROS 164040	Soil	15	27	0.59	283	0.100	<1	1.55	0.015	0.13	0.2	0.02	4.2	<0.1	<0.05	5	0.8	<0.2
ROS 164038	Soil	11	26	0.50	246	0.074	1	1.44	0.015	0.06	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164039	Soil	14	126	1.59	431	0.154	<1	2.00	0.032	0.27	<0.1	<0.01	5.4	0.1	<0.05	7	0.6	<0.2
ROS 164678	Soil	25	4	1.71	354	0.195	<1	3.03	0.017	1.93	<0.1	0.01	6.1	0.6	0.06	9	0.7	0.4
ROS 164439	Soil	20	19	0.45	128	0.097	1	1.66	0.010	0.17	<0.1	0.04	2.3	0.2	<0.05	6	<0.5	0.2
ROS 164438	Soil	22	19	0.45	137	0.088	<1	1.56	0.010	0.15	0.1	0.04	2.0	0.2	<0.05	5	<0.5	0.2
ROS 164677	Soil	11	11	1.45	254	0.253	<1	2.74	0.012	1.45	<0.1	<0.01	2.7	0.6	<0.05	9	<0.5	<0.2
ROS 164437	Soil	24	22	0.49	168	0.106	1	1.97	0.011	0.17	0.1	0.04	2.7	0.2	<0.05	7	0.6	<0.2
ROS 164454	Soil	12	13	0.75	113	0.108	<1	1.29	0.007	0.49	<0.1	<0.01	3.3	0.2	<0.05	5	<0.5	<0.2
ROS 164674	Soil	35	10	0.88	121	0.188	<1	2.06	0.012	0.75	<0.1	<0.01	4.2	0.4	<0.05	7	0.5	<0.2
ROS 164675	Soil	11	8	2.45	786	0.294	<1	3.84	0.025	2.25	<0.1	<0.01	2.8	0.7	<0.05	11	<0.5	<0.2



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Project: ROS
Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000611.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 164553	Soil	1.5	36.9	7.3	78	0.1	18.0	10.6	302	3.30	3.6	1.1	1.0	3.0	25	0.2	0.2	0.1	84	0.36	0.068
REP ROS 164553	QC	1.5	34.9	6.9	74	0.1	16.5	10.5	301	3.26	3.5	1.0	1.2	3.1	24	0.1	0.2	<0.1	84	0.37	0.065
ROS 164510	Soil	0.4	26.4	7.7	48	<0.1	20.9	9.7	311	2.47	7.9	0.8	2.1	3.4	20	<0.1	0.4	0.1	51	0.26	0.049
REP ROS 164510	QC	0.4	26.1	7.6	50	<0.1	21.3	9.8	317	2.53	8.0	0.7	2.1	3.3	20	<0.1	0.4	0.1	52	0.27	0.048
ROS 173045	Soil	0.5	24.9	16.9	68	0.1	18.3	7.5	459	2.44	5.4	0.8	2.0	3.1	35	0.3	0.6	0.1	49	1.36	0.043
REP ROS 173045	QC	0.4	29.5	16.6	71	0.1	19.7	7.7	479	2.44	5.3	0.7	1.6	3.0	36	0.3	0.7	0.1	48	1.42	0.044
ROS 164167	Soil	1.4	25.8	8.3	86	0.3	22.4	8.5	246	2.77	2.4	1.5	1.3	4.5	28	0.3	0.1	0.3	50	0.17	0.047
REP ROS 164167	QC	1.3	24.3	8.1	76	0.3	21.5	8.5	239	2.72	2.1	1.5	1.6	4.7	29	0.3	0.1	0.3	51	0.16	0.049
ROS 164408	Soil	1.9	30.3	9.6	142	<0.1	10.8	10.8	848	4.53	3.0	3.1	0.6	22.8	98	<0.1	0.2	0.2	84	0.48	0.053
REP ROS 164408	QC	2.0	29.7	8.8	141	<0.1	11.3	10.4	816	4.44	2.7	3.1	0.7	22.0	95	<0.1	0.2	0.2	77	0.44	0.053
ROS 163936	Soil	1.1	17.0	11.6	53	<0.1	14.4	6.0	262	2.79	7.5	0.7	<0.5	5.0	19	<0.1	0.4	0.2	63	0.22	0.031
REP ROS 163936	QC	1.1	17.0	11.4	50	<0.1	13.5	6.2	259	2.70	7.6	0.6	2.6	4.9	19	<0.1	0.4	0.2	60	0.21	0.028
ROS 160486	Soil	1.4	52.9	5.5	100	0.1	8.1	14.1	583	3.64	2.5	0.7	0.8	3.4	23	0.1	0.1	<0.1	97	0.19	0.040
REP ROS 160486	QC	1.4	54.3	5.7	106	0.1	7.9	14.3	614	3.77	2.7	0.7	<0.5	3.6	24	0.1	0.1	<0.1	103	0.19	0.040
ROS 163697	Soil	1.6	52.0	7.8	109	0.1	74.1	16.8	383	3.22	3.6	1.6	0.9	5.8	42	0.1	0.2	0.3	78	0.31	0.053
REP ROS 163697	QC	1.5	51.1	7.7	105	0.1	71.0	15.8	364	3.06	3.3	1.5	11.4	5.3	39	0.1	0.2	0.3	75	0.29	0.053
ROS 160074	Soil	0.5	15.2	5.4	41	0.1	15.9	6.9	144	1.92	3.8	0.5	2.1	1.4	15	0.1	0.2	0.1	40	0.24	0.053
REP ROS 160074	QC	0.6	15.6	5.7	42	0.1	15.2	6.9	148	1.99	4.0	0.5	1.0	1.4	15	<0.1	0.2	0.1	41	0.24	0.053
ROS 164449	Soil	1.5	82.9	5.2	251	<0.1	4.2	19.4	1095	7.77	1.6	0.5	<0.5	3.1	116	<0.1	<0.1	<0.1	191	0.22	0.030
REP ROS 164449	QC	1.6	83.3	5.1	255	<0.1	4.3	19.3	1086	7.73	1.9	0.6	<0.5	3.2	118	<0.1	0.1	<0.1	188	0.21	0.028
ROS 151299	Soil	1.1	13.0	10.0	38	<0.1	12.9	6.9	238	2.30	5.8	0.5	0.6	3.1	25	<0.1	0.6	0.1	51	0.55	0.038
REP ROS 151299	QC	1.0	13.9	10.6	40	<0.1	13.2	6.9	239	2.33	6.1	0.5	1.2	3.2	27	<0.1	0.6	0.1	52	0.55	0.038
ROS 151306	Soil	0.3	22.6	6.7	61	<0.1	16.1	9.7	467	2.50	5.6	0.6	2.6	3.6	26	<0.1	0.4	0.1	60	0.66	0.049
REP ROS 151306	QC	0.3	21.6	6.4	59	<0.1	16.0	9.5	437	2.41	5.3	0.6	4.2	3.4	25	<0.1	0.4	0.1	58	0.65	0.047
ROS 149522	Soil	0.6	27.9	8.1	50	<0.1	37.4	10.1	376	2.36	12.4	0.4	3.4	3.2	34	<0.1	0.7	0.1	58	1.60	0.028
REP ROS 149522	QC	0.5	27.5	8.1	51	<0.1	37.6	9.4	367	2.31	11.7	0.4	8.1	3.2	32	<0.1	0.5	0.1	55	1.60	0.031
ROS 173222	Soil	0.5	25.1	7.5	59	0.1	21.9	9.3	351	2.18	6.4	0.9	3.0	2.8	41	0.2	0.6	0.1	51	0.95	0.050
REP ROS 173222	QC	0.6	25.9	8.1	58	0.1	17.3	8.5	353	2.17	6.0	0.9	5.4	2.6	40	0.3	0.5	0.1	51	0.95	0.053

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.



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Project: ROS
Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000611.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 164553	Soil	11	23	0.85	389	0.130	<1	1.51	0.029	0.37	<0.1	<0.01	5.2	0.2	0.09	6	0.6	<0.2
REP ROS 164553	QC	10	22	0.79	385	0.128	<1	1.51	0.028	0.35	<0.1	0.01	5.0	0.1	0.09	5	0.5	<0.2
ROS 164510	Soil	14	29	0.56	288	0.074	<1	1.61	0.015	0.06	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 164510	QC	15	29	0.53	279	0.075	<1	1.59	0.015	0.06	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 173045	Soil	16	23	0.73	213	0.089	2	1.84	0.012	0.19	<0.1	0.11	6.1	0.1	<0.05	6	<0.5	<0.2
REP ROS 173045	QC	16	24	0.73	213	0.087	2	1.79	0.012	0.18	<0.1	0.10	5.9	0.1	<0.05	6	0.6	0.3
ROS 164167	Soil	27	31	0.83	324	0.159	<1	1.89	0.011	0.57	<0.1	0.04	2.9	0.5	<0.05	7	0.8	<0.2
REP ROS 164167	QC	27	31	0.84	319	0.164	<1	1.90	0.011	0.57	<0.1	0.05	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 164408	Soil	63	18	1.11	364	0.242	<1	2.81	0.034	1.22	0.1	<0.01	5.2	0.7	<0.05	11	<0.5	0.3
REP ROS 164408	QC	60	16	1.05	338	0.228	<1	2.74	0.033	1.17	0.2	<0.01	5.4	0.6	<0.05	11	<0.5	<0.2
ROS 163936	Soil	18	28	0.44	232	0.070	1	1.78	0.012	0.08	0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
REP ROS 163936	QC	18	27	0.41	238	0.070	1	1.72	0.011	0.08	0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 160486	Soil	11	14	1.15	209	0.225	<1	2.33	0.012	0.73	<0.1	0.01	2.3	0.3	<0.05	7	0.7	<0.2
REP ROS 160486	QC	12	14	1.23	219	0.233	<1	2.46	0.013	0.77	<0.1	0.02	2.5	0.3	<0.05	8	<0.5	<0.2
ROS 163697	Soil	19	86	1.29	332	0.167	1	2.09	0.018	0.41	0.1	0.02	3.4	0.2	<0.05	7	<0.5	<0.2
REP ROS 163697	QC	18	79	1.27	316	0.157	<1	2.00	0.016	0.40	0.1	<0.01	3.2	0.2	0.05	6	<0.5	<0.2
ROS 160074	Soil	7	32	0.53	140	0.077	2	1.34	0.014	0.07	0.2	0.06	2.4	<0.1	<0.05	5	<0.5	<0.2
REP ROS 160074	QC	7	32	0.54	138	0.077	2	1.38	0.021	0.07	0.2	0.06	2.4	<0.1	0.05	5	<0.5	<0.2
ROS 164449	Soil	12	4	2.30	755	0.278	<1	4.21	0.018	2.38	<0.1	<0.01	5.3	0.7	<0.05	13	<0.5	<0.2
REP ROS 164449	QC	12	5	2.24	746	0.279	1	4.17	0.018	2.31	<0.1	<0.01	5.2	0.6	<0.05	12	0.6	<0.2
ROS 151299	Soil	10	25	0.33	248	0.052	2	1.49	0.011	0.13	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
REP ROS 151299	QC	11	26	0.34	254	0.055	2	1.52	0.012	0.13	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 151306	Soil	14	26	0.90	221	0.120	2	1.69	0.017	0.20	0.1	0.03	6.6	0.1	<0.05	6	<0.5	<0.2
REP ROS 151306	QC	14	24	0.85	215	0.114	<1	1.61	0.017	0.20	0.1	0.03	6.3	<0.1	<0.05	6	<0.5	<0.2
ROS 149522	Soil	15	44	0.86	185	0.066	<1	1.40	0.020	0.07	0.2	0.04	3.8	<0.1	<0.05	4	0.9	<0.2
REP ROS 149522	QC	15	40	0.85	190	0.063	<1	1.40	0.025	0.07	0.2	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173222	Soil	12	31	0.54	307	0.055	<1	1.37	0.025	0.06	<0.1	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
REP ROS 173222	QC	12	29	0.52	307	0.056	<1	1.34	0.022	0.06	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2

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Client: **Taku Gold Corp**
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 12, 2010

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI10000611.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 151321	Soil	0.7	32.3	10.5	63	0.1	23.5	9.6	396	2.39	7.7	1.1	6.1	3.4	38	0.3	0.6	0.2	53	0.81	0.052
REP ROS 151321	QC	0.6	31.7	10.2	60	0.1	22.3	9.1	364	2.36	7.5	1.1	6.3	3.4	36	0.3	0.7	0.2	52	0.78	0.054
ROS 152641	Soil	0.8	22.6	10.6	69	0.2	19.3	8.6	343	2.61	6.3	0.9	2.9	5.1	28	0.2	1.2	0.1	62	0.63	0.060
REP ROS 152641	QC	0.8	23.1	11.3	71	0.2	19.9	8.8	363	2.75	6.8	0.9	2.8	5.5	29	0.2	1.2	0.1	61	0.65	0.059
ROS 173407	Soil	0.6	11.4	8.2	76	<0.1	8.5	10.2	712	4.19	4.7	1.0	<0.5	15.5	12	<0.1	0.2	<0.1	62	0.15	0.032
REP ROS 173407	QC	0.5	11.3	8.9	81	<0.1	8.6	10.3	735	4.17	4.7	1.0	0.5	16.1	13	<0.1	0.1	<0.1	65	0.15	0.030
ROS 164043	Soil	1.1	90.3	6.5	106	0.1	29.0	12.2	427	3.21	3.8	1.3	2.5	6.8	27	0.2	0.3	0.1	69	0.40	0.053
REP ROS 164043	QC	1.2	87.7	6.1	103	0.1	27.9	11.7	420	3.16	3.7	1.2	1.6	6.8	27	0.2	0.3	0.1	67	0.38	0.053
Reference Materials																					
STD DS7	Standard	22.0	112.9	69.5	402	1.0	55.5	9.4	640	2.45	50.8	4.7	80.9	4.6	78	6.0	6.5	4.6	88	0.94	0.073
STD DS7	Standard	22.4	129.3	70.1	454	1.1	63.7	10.3	711	2.61	57.4	5.1	85.1	4.8	78	6.7	6.4	4.8	96	1.03	0.090
STD DS7	Standard	21.5	113.2	73.4	390	1.0	53.5	9.3	635	2.41	50.4	5.3	70.0	5.0	75	6.3	6.0	4.9	84	0.92	0.074
STD DS7	Standard	21.2	103.2	66.8	375	1.0	53.5	8.5	609	2.28	50.5	4.7	60.0	4.7	79	6.4	6.1	4.7	80	0.93	0.075
STD DS7	Standard	22.2	111.5	71.1	398	1.0	57.6	9.9	671	2.46	52.4	4.7	64.7	4.7	76	6.3	5.6	4.4	90	1.02	0.081
STD DS7	Standard	19.3	102.1	63.8	378	1.0	51.5	8.9	602	2.31	51.3	4.3	67.1	4.4	65	5.9	5.2	4.2	82	0.92	0.073
STD DS7	Standard	19.3	99.7	56.2	373	0.9	51.8	9.2	608	2.28	49.8	4.1	64.3	3.8	68	5.7	5.0	3.9	80	0.87	0.072
STD DS7	Standard	20.3	111.7	69.4	388	1.0	54.8	9.3	633	2.42	49.4	4.7	68.5	4.9	76	6.1	6.0	4.5	87	0.92	0.076
STD DS7	Standard	20.7	105.2	67.9	367	1.0	52.6	9.1	619	2.24	46.4	4.9	74.7	4.2	68	5.7	5.6	4.3	85	0.88	0.069
STD DS7	Standard	21.0	114.5	76.6	431	1.0	56.1	9.7	664	2.53	54.5	5.1	78.2	4.7	74	7.2	6.6	5.2	88	1.01	0.081
STD DS7	Standard	19.6	104.2	65.5	380	0.9	54.3	9.0	610	2.26	49.3	4.8	56.6	4.7	67	5.4	5.7	4.4	82	0.90	0.073
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 12, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000611.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 151321	Soil	13	29	0.50	386	0.060	2	1.45	0.026	0.06	0.5	0.05	3.5	<0.1	0.06	5	<0.5	<0.2
REP ROS 151321	QC	13	27	0.50	388	0.062	2	1.44	0.026	0.06	0.5	0.05	3.5	<0.1	0.05	5	<0.5	<0.2
ROS 152641	Soil	19	35	0.50	421	0.059	3	1.49	0.016	0.12	0.3	0.08	3.3	<0.1	<0.05	5	<0.5	0.3
REP ROS 152641	QC	20	37	0.53	435	0.063	2	1.50	0.018	0.12	0.3	0.09	3.4	<0.1	<0.05	6	<0.5	0.2
ROS 173407	Soil	11	12	1.10	141	0.216	<1	2.46	0.009	0.98	0.1	<0.01	5.6	0.6	<0.05	10	<0.5	<0.2
REP ROS 173407	QC	11	12	1.10	144	0.226	<1	2.50	0.010	1.01	0.2	<0.01	5.7	0.6	<0.05	11	<0.5	<0.2
ROS 164043	Soil	19	37	0.82	314	0.153	<1	1.72	0.016	0.36	<0.1	0.02	4.1	0.2	<0.05	6	<0.5	0.2
REP ROS 164043	QC	18	36	0.82	306	0.149	1	1.72	0.017	0.34	0.1	0.02	4.1	0.2	<0.05	6	0.7	<0.2
Reference Materials																		
STD DS7	Standard	14	206	1.05	397	0.128	36	1.01	0.100	0.49	3.5	0.23	2.2	4.0	0.23	5	3.3	0.9
STD DS7	Standard	13	228	1.19	432	0.134	41	1.17	0.104	0.51	3.7	0.26	2.5	4.3	0.25	6	3.8	1.7
STD DS7	Standard	14	195	1.02	405	0.125	40	1.00	0.093	0.45	3.7	0.20	2.4	4.3	0.19	5	3.4	1.2
STD DS7	Standard	14	189	1.02	413	0.125	36	1.04	0.108	0.49	3.5	0.22	2.6	3.8	0.19	5	3.2	1.5
STD DS7	Standard	15	217	1.06	427	0.135	38	1.03	0.104	0.48	3.7	0.21	2.8	4.0	0.24	5	3.5	1.2
STD DS7	Standard	12	198	1.00	389	0.115	37	0.92	0.095	0.45	3.2	0.19	2.6	3.7	0.20	5	3.7	1.3
STD DS7	Standard	12	194	0.98	379	0.124	35	0.98	0.092	0.45	3.2	0.20	2.4	3.8	0.19	5	2.8	1.6
STD DS7	Standard	13	192	1.07	402	0.127	39	1.08	0.098	0.49	3.7	0.18	2.8	4.1	0.19	5	3.7	1.5
STD DS7	Standard	12	204	0.98	370	0.126	33	0.97	0.094	0.45	3.5	0.24	2.3	3.9	0.20	4	3.3	<0.2
STD DS7	Standard	13	206	1.10	426	0.121	44	1.09	0.115	0.53	3.7	0.24	3.0	4.9	0.23	5	4.2	1.9
STD DS7	Standard	13	190	1.02	375	0.119	39	0.95	0.098	0.44	3.5	0.20	2.2	4.0	0.18	4	3.0	1.7
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Val D'Or QC J9P 1S5 Canada

Project: ROS

Report Date: November 12, 2010

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI10000611.1

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



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Page: 3 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000611.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 16, 2010
Report Date: November 12, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000612.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS4
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 12, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000612.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164865	Soil		0.9	12.9	7.8	65	<0.1	6.7	7.0	883	3.03	2.7	1.9	0.6	26.4	13	<0.1	0.2	0.1	34	0.15	0.040
ROS 164863	Soil		0.7	12.0	5.2	67	<0.1	10.3	6.8	458	2.63	4.0	1.3	0.9	8.6	24	<0.1	0.2	0.1	49	0.33	0.053
ROS 164862	Soil		0.8	17.1	7.0	45	<0.1	13.2	6.8	241	2.15	5.6	1.1	1.8	4.4	26	<0.1	0.5	0.2	47	0.34	0.047
ROS 164860	Soil		0.8	20.7	7.3	46	<0.1	18.7	8.4	322	2.25	8.0	1.1	3.7	4.5	29	<0.1	0.4	0.1	52	0.39	0.056
ROS 164858	Soil		0.7	23.1	8.1	48	<0.1	18.2	8.7	389	2.26	7.1	1.4	3.6	4.6	34	<0.1	0.6	0.1	51	0.45	0.053
ROS 164868	Soil		0.6	6.4	3.9	43	<0.1	4.0	4.6	203	1.79	1.5	1.0	<0.5	14.6	18	<0.1	0.2	0.1	22	0.14	0.054
ROS 164866	Soil		0.7	10.2	3.9	76	<0.1	6.9	6.2	819	3.07	3.0	1.1	<0.5	22.0	9	<0.1	0.3	<0.1	34	0.10	0.038
ROS 164864	Soil		0.6	9.2	5.3	46	<0.1	6.4	3.7	379	1.90	2.9	1.5	2.5	16.5	15	<0.1	0.2	0.1	22	0.19	0.047
ROS 164752	Soil		1.1	43.2	8.6	96	<0.1	21.8	7.8	415	3.48	5.0	1.3	1.3	8.6	58	<0.1	0.3	0.2	62	0.16	0.032
ROS 164751	Soil		0.9	39.9	7.7	74	<0.1	25.1	10.3	503	3.60	5.3	1.9	1.7	7.5	47	<0.1	0.3	0.1	84	0.27	0.044
ROS 164749	Soil		0.7	22.7	6.5	79	<0.1	26.3	10.9	406	3.33	4.6	1.5	<0.5	10.8	18	<0.1	0.2	0.2	51	0.21	0.039
ROS 164747	Soil		0.7	31.4	7.2	80	<0.1	29.0	13.4	426	3.74	5.9	1.3	<0.5	12.3	11	<0.1	0.3	0.2	58	0.10	0.024
ROS 164861	Soil		0.7	19.9	6.9	43	<0.1	15.8	6.7	233	2.08	6.6	1.2	2.1	4.4	27	<0.1	0.4	0.1	49	0.37	0.053
ROS 164753	Soil		0.9	13.6	8.7	70	0.1	21.0	10.7	392	2.77	5.6	0.7	<0.5	4.8	40	0.1	0.3	0.1	57	0.27	0.026
ROS 160500	Soil		0.8	24.8	9.5	73	<0.1	26.1	10.5	269	3.13	7.7	1.1	1.7	10.9	17	<0.1	0.4	0.2	53	0.12	0.023
ROS 164859	Soil		1.1	19.2	8.2	45	<0.1	17.2	8.1	309	2.20	6.2	1.1	1.3	4.8	29	<0.1	0.5	0.2	51	0.39	0.043
ROS 160676	Soil		0.8	21.8	14.1	81	<0.1	14.8	9.4	440	3.11	6.1	1.9	13.2	26.0	22	<0.1	0.4	0.4	50	0.28	0.046
ROS 164857	Soil		0.7	28.1	7.6	55	<0.1	20.8	8.5	368	2.42	7.2	1.4	8.7	5.6	35	0.1	0.6	0.2	52	0.49	0.049
ROS 164856	Soil		0.7	26.8	7.6	54	0.1	18.3	8.5	393	2.36	7.2	1.1	1.5	5.6	32	0.1	0.6	0.2	50	0.45	0.044
ROS 160496	Soil		0.9	37.7	9.1	65	0.1	24.3	8.6	206	3.04	4.5	1.6	2.4	7.3	22	<0.1	0.3	0.3	58	0.17	0.018
ROS 159120	Soil		3.6	13.1	4.4	41	<0.1	4.3	4.4	331	3.95	2.8	2.3	<0.5	16.0	33	<0.1	0.2	0.1	46	0.09	0.040
ROS 159119	Soil		3.8	13.3	3.8	41	<0.1	4.0	4.2	326	4.01	2.8	2.2	<0.5	15.5	32	<0.1	0.1	0.1	44	0.07	0.040
ROS 159123	Soil		0.6	14.8	5.2	69	<0.1	9.2	9.1	555	3.36	4.7	1.3	<0.5	16.6	33	<0.1	0.2	0.1	63	0.24	0.038
ROS 159125	Soil		0.7	13.5	7.4	66	<0.1	14.1	11.9	816	3.27	5.1	0.3	0.7	2.5	35	<0.1	0.4	0.1	80	0.28	0.046
ROS 159122	Soil		1.4	19.7	6.5	57	<0.1	11.7	7.6	448	3.61	5.5	2.0	0.6	12.2	46	<0.1	0.3	0.1	68	0.27	0.031
ROS 159127	Soil		0.7	13.3	6.5	87	<0.1	14.4	13.8	461	3.25	4.3	0.3	1.2	2.2	23	0.1	0.3	0.1	77	0.17	0.047
ROS 159124	Soil		1.1	13.2	7.5	60	<0.1	15.4	9.5	400	2.88	7.1	0.5	0.8	3.2	17	<0.1	0.4	0.1	65	0.14	0.030
ROS 159121	Soil		1.8	23.8	6.0	42	<0.1	4.7	3.9	359	3.66	4.8	1.6	<0.5	14.9	51	<0.1	0.2	0.1	53	0.07	0.045
ROS 159126	Soil		0.7	29.9	6.0	69	<0.1	10.2	10.5	547	3.83	5.1	1.3	<0.5	10.2	133	<0.1	0.2	<0.1	74	0.51	0.036
ROS 159117	Soil		1.2	12.6	7.0	46	<0.1	10.0	6.8	235	3.98	9.3	0.8	1.0	5.0	15	0.1	0.5	0.2	87	0.08	0.054

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Project: ROS
 Report Date: November 12, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164865	Soil	36	9	0.45	150	0.087	2	1.79	0.007	0.48	0.1	<0.01	4.8	0.3	<0.05	7	<0.5	0.3
ROS 164863	Soil	25	17	0.68	204	0.110	1	1.61	0.013	0.46	0.1	0.01	3.9	0.2	<0.05	7	<0.5	<0.2
ROS 164862	Soil	16	23	0.37	220	0.065	<1	1.36	0.012	0.05	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 164860	Soil	15	26	0.40	265	0.069	1	1.38	0.014	0.05	0.2	0.03	3.8	<0.1	<0.05	4	0.6	<0.2
ROS 164858	Soil	17	26	0.44	264	0.067	2	1.45	0.017	0.05	0.2	0.04	3.6	<0.1	<0.05	4	0.6	<0.2
ROS 164868	Soil	28	8	0.22	74	0.040	<1	0.87	0.013	0.23	0.1	<0.01	2.9	0.1	<0.05	4	<0.5	<0.2
ROS 164866	Soil	25	11	0.67	129	0.151	2	1.64	0.006	0.71	0.1	0.02	3.8	0.4	<0.05	8	<0.5	<0.2
ROS 164864	Soil	40	9	0.20	124	0.023	1	0.89	0.006	0.13	0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
ROS 164752	Soil	21	34	0.93	185	0.193	<1	2.04	0.011	0.64	<0.1	<0.01	2.8	0.4	0.06	7	<0.5	<0.2
ROS 164751	Soil	30	33	1.19	360	0.191	<1	2.25	0.013	0.80	0.1	0.01	3.4	0.4	0.07	7	<0.5	<0.2
ROS 164749	Soil	29	37	0.90	515	0.192	2	1.95	0.014	0.76	0.1	0.02	3.9	0.5	<0.05	8	<0.5	<0.2
ROS 164747	Soil	20	41	1.20	333	0.229	<1	2.49	0.009	0.88	<0.1	0.02	3.9	0.5	<0.05	9	<0.5	<0.2
ROS 164861	Soil	15	25	0.40	223	0.069	1	1.37	0.015	0.04	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 164753	Soil	9	30	0.71	170	0.132	1	1.80	0.016	0.42	0.1	0.01	2.2	0.2	<0.05	6	<0.5	<0.2
ROS 160500	Soil	20	35	0.87	170	0.139	<1	2.20	0.008	0.46	0.1	0.02	3.1	0.3	<0.05	7	<0.5	<0.2
ROS 164859	Soil	15	29	0.41	228	0.079	<1	1.54	0.016	0.05	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160676	Soil	42	26	0.65	178	0.104	1	1.66	0.012	0.37	0.2	<0.01	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 164857	Soil	17	26	0.50	270	0.080	1	1.56	0.020	0.06	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 164856	Soil	18	26	0.46	259	0.076	<1	1.50	0.025	0.06	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160496	Soil	20	39	0.75	178	0.143	<1	2.24	0.012	0.28	<0.1	<0.01	3.1	0.3	0.05	6	<0.5	<0.2
ROS 159120	Soil	42	8	0.95	128	0.156	<1	2.47	0.010	0.74	<0.1	0.01	3.6	0.5	0.08	8	<0.5	<0.2
ROS 159119	Soil	38	8	0.96	123	0.157	<1	2.42	0.010	0.76	<0.1	0.01	3.5	0.5	0.06	8	<0.5	<0.2
ROS 159123	Soil	36	15	0.86	142	0.162	<1	2.14	0.006	0.99	<0.1	<0.01	3.8	0.4	<0.05	9	0.6	<0.2
ROS 159125	Soil	7	22	0.89	400	0.145	2	2.09	0.011	0.54	0.1	0.01	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 159122	Soil	18	18	0.82	182	0.166	<1	2.27	0.010	0.68	<0.1	0.01	3.6	0.4	<0.05	9	<0.5	0.3
ROS 159127	Soil	6	26	0.91	167	0.140	<1	2.27	0.010	0.42	0.1	0.01	1.9	0.2	<0.05	7	<0.5	<0.2
ROS 159124	Soil	9	25	0.63	205	0.108	<1	1.85	0.009	0.32	0.1	<0.01	2.6	0.2	<0.05	6	<0.5	<0.2
ROS 159121	Soil	30	11	0.89	193	0.159	<1	2.24	0.011	0.63	<0.1	<0.01	4.3	0.4	0.15	8	<0.5	0.3
ROS 159126	Soil	16	16	1.09	288	0.173	<1	3.22	0.013	1.14	<0.1	<0.01	3.3	0.3	<0.05	9	0.6	0.3
ROS 159117	Soil	10	22	0.59	83	0.129	<1	1.99	0.007	0.17	0.1	0.02	2.7	0.2	<0.05	9	<0.5	<0.2

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Project: ROS
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159118	Soil	1.4	14.6	9.6	58	<0.1	15.7	11.1	374	4.06	9.9	0.8	1.0	4.2	23	<0.1	0.5	0.2	93	0.12	0.048
ROS 159116	Soil	1.3	14.0	12.8	72	0.1	8.4	7.2	322	2.73	5.4	1.9	0.8	4.5	43	0.3	0.3	0.2	61	0.19	0.049
ROS 164750	Soil	0.5	34.6	6.2	67	<0.1	35.8	8.8	344	3.35	1.7	2.5	0.7	21.8	56	<0.1	0.1	0.1	45	0.42	0.123
ROS 164748	Soil	0.6	32.1	4.4	51	<0.1	30.9	13.1	472	4.15	3.6	2.3	2.1	17.3	19	<0.1	0.2	0.2	51	0.18	0.042
ROS 160499	Soil	4.6	74.4	49.3	100	0.3	28.1	9.9	330	4.00	5.0	2.0	1.3	5.9	22	0.1	0.3	0.9	65	0.08	0.061
ROS 160675	Soil	0.7	23.0	16.1	92	<0.1	13.7	9.4	444	3.23	5.8	2.4	18.9	31.2	22	<0.1	0.4	0.4	47	0.28	0.046
ROS 160497	Soil	1.1	55.1	8.7	80	<0.1	46.6	14.1	328	4.33	1.9	1.3	0.7	10.3	35	<0.1	0.1	0.5	63	0.17	0.037
ROS 160670	Soil	0.5	15.0	6.9	45	<0.1	11.8	6.0	246	1.91	4.6	0.9	2.1	6.0	27	<0.1	0.4	0.2	41	0.34	0.046
ROS 160677	Soil	0.7	18.1	8.6	50	<0.1	14.0	7.0	305	2.29	6.0	1.3	2.5	8.2	25	<0.1	0.4	0.2	46	0.33	0.048
ROS 160671	Soil	0.7	17.4	5.6	45	<0.1	12.1	6.4	289	2.10	5.5	1.0	1.3	7.7	24	<0.1	0.4	0.1	43	0.31	0.053
ROS 160674	Soil	0.7	22.9	10.9	53	<0.1	17.0	7.3	299	2.28	5.9	1.5	6.0	7.5	29	<0.1	0.5	0.2	44	0.35	0.059
ROS 160672	Soil	0.6	18.0	6.7	44	<0.1	13.8	5.8	193	1.96	5.2	1.0	3.5	5.2	27	<0.1	0.5	0.1	42	0.34	0.047
ROS 160668	Soil	0.6	10.2	6.0	36	<0.1	9.8	5.4	214	1.78	4.3	0.7	1.5	4.9	19	<0.1	0.3	0.1	42	0.24	0.035
ROS 160669	Soil	0.7	11.0	7.5	45	<0.1	12.5	7.7	264	2.08	5.5	0.8	1.0	6.0	24	<0.1	0.4	0.2	45	0.31	0.044
ROS 160667	Soil	0.5	17.3	7.8	50	<0.1	13.6	5.7	182	2.01	5.2	1.3	2.8	6.1	26	<0.1	0.4	0.2	43	0.33	0.039
ROS 160678	Soil	0.9	19.2	9.9	53	<0.1	12.8	8.5	391	2.29	6.1	1.7	2.9	8.3	26	<0.1	0.4	0.2	51	0.30	0.047
ROS 160673	Soil	0.5	23.5	6.5	52	<0.1	13.9	6.3	325	2.42	4.5	1.9	3.9	10.0	27	<0.1	0.4	0.3	40	0.36	0.058
ROS 160498	Soil	6.6	94.0	72.9	150	0.4	23.5	7.9	368	4.85	5.3	2.3	<0.5	4.4	21	0.3	0.2	1.2	84	0.08	0.081
ROS 163720	Soil	0.8	29.7	5.3	77	<0.1	15.6	11.9	486	3.46	5.1	0.9	1.0	5.7	33	<0.1	0.3	<0.1	85	0.35	0.023
ROS 164623	Soil	1.1	28.5	13.0	133	0.1	27.8	10.7	435	3.37	5.2	1.6	1.0	12.9	22	0.1	0.3	0.2	52	0.16	0.023
ROS 164622	Soil	0.5	57.7	6.6	97	<0.1	43.6	11.7	568	4.24	2.3	2.9	<0.5	20.3	21	<0.1	0.2	0.3	48	0.13	0.043
ROS 164620	Soil	2.1	131.7	10.8	136	<0.1	25.0	12.5	357	3.89	1.8	5.9	1.3	16.0	32	0.3	0.1	0.5	48	0.08	0.047
ROS 164621	Soil	2.9	75.7	14.5	124	<0.1	39.2	14.4	398	3.89	2.9	1.3	0.6	4.2	51	0.2	0.2	0.4	82	0.18	0.050
ROS 164619	Soil	2.2	136.1	11.4	135	<0.1	25.3	11.8	367	3.95	1.6	6.3	1.1	17.4	34	0.4	<0.1	0.5	47	0.09	0.047
ROS 164618	Soil	0.5	39.7	7.9	91	<0.1	61.7	18.4	321	3.68	1.1	2.7	1.0	15.5	69	0.1	<0.1	0.5	63	0.51	0.039
ROS 163718	Soil	1.2	33.3	7.7	58	0.4	15.6	11.2	616	2.93	4.5	2.3	1.9	6.6	42	0.1	0.3	0.2	61	0.37	0.052
ROS 160394	Soil	0.7	26.8	8.3	91	<0.1	21.0	9.4	406	3.05	5.3	1.3	0.5	8.7	31	0.1	0.3	0.2	59	0.16	0.040
ROS 160395	Soil	0.9	37.6	8.4	109	<0.1	19.7	8.3	393	2.85	3.6	1.7	1.5	9.4	40	0.3	0.2	0.3	45	0.17	0.044
ROS 160396	Soil	1.1	31.3	9.6	109	<0.1	15.4	10.1	379	2.56	4.3	1.4	1.0	7.9	49	0.3	0.4	0.3	51	0.22	0.028
ROS 160397	Soil	0.7	28.2	8.8	62	<0.1	18.9	8.4	256	2.53	6.7	1.2	3.0	5.8	30	<0.1	0.5	0.2	56	0.27	0.026

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159118	Soil	10	30	0.77	183	0.132	<1	2.81	0.009	0.35	0.1	0.02	3.9	0.2	<0.05	9	0.5	0.2
ROS 159116	Soil	24	17	0.55	144	0.117	<1	1.89	0.009	0.28	<0.1	0.01	2.3	0.3	<0.05	8	0.5	0.4
ROS 164750	Soil	53	45	1.13	200	0.222	<1	2.27	0.012	1.01	<0.1	<0.01	3.3	0.6	<0.05	9	<0.5	<0.2
ROS 164748	Soil	53	43	1.31	396	0.271	<1	2.53	0.010	1.16	<0.1	<0.01	3.9	0.8	<0.05	10	0.6	0.2
ROS 160499	Soil	22	40	1.06	527	0.124	1	2.14	0.017	0.40	0.1	0.02	2.8	0.3	0.28	7	0.9	<0.2
ROS 160675	Soil	50	22	0.66	181	0.096	2	1.62	0.010	0.42	0.2	<0.01	4.1	0.4	<0.05	7	<0.5	<0.2
ROS 160497	Soil	23	58	1.05	473	0.214	<1	3.53	0.019	1.06	<0.1	<0.01	3.3	0.6	0.06	8	<0.5	0.2
ROS 160670	Soil	18	22	0.40	233	0.074	2	1.34	0.017	0.07	0.2	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160677	Soil	23	24	0.47	218	0.072	1	1.45	0.013	0.08	0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160671	Soil	18	22	0.42	198	0.084	<1	1.18	0.019	0.16	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160674	Soil	21	26	0.47	258	0.066	1	1.38	0.013	0.09	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 160672	Soil	15	23	0.41	222	0.071	<1	1.29	0.018	0.06	0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160668	Soil	14	19	0.32	192	0.068	<1	1.20	0.018	0.04	0.2	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
ROS 160669	Soil	16	23	0.39	210	0.076	<1	1.46	0.014	0.06	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	0.2
ROS 160667	Soil	20	23	0.40	238	0.071	<1	1.39	0.018	0.06	0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160678	Soil	33	24	0.41	215	0.080	<1	1.53	0.012	0.09	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160673	Soil	28	22	0.55	197	0.073	1	1.34	0.016	0.26	<0.1	0.03	4.3	0.1	<0.05	5	<0.5	<0.2
ROS 160498	Soil	14	60	1.16	326	0.184	<1	2.37	0.026	0.94	<0.1	<0.01	3.5	0.5	0.51	7	1.5	<0.2
ROS 163720	Soil	17	23	1.13	186	0.199	<1	2.27	0.016	0.81	0.1	0.02	3.3	0.3	<0.05	7	<0.5	<0.2
ROS 164623	Soil	75	39	1.04	295	0.173	<1	2.62	0.011	0.52	<0.1	0.02	3.1	0.4	<0.05	7	<0.5	<0.2
ROS 164622	Soil	99	82	1.40	689	0.269	<1	2.49	0.014	1.09	<0.1	<0.01	4.1	0.7	0.17	7	<0.5	<0.2
ROS 164620	Soil	35	35	1.25	507	0.181	<1	2.68	0.013	1.16	<0.1	<0.01	4.7	0.6	0.13	7	<0.5	<0.2
ROS 164621	Soil	16	86	1.50	991	0.204	<1	3.08	0.026	0.53	<0.1	<0.01	4.5	0.4	0.18	9	0.7	<0.2
ROS 164619	Soil	37	35	1.26	525	0.174	<1	2.71	0.013	1.15	<0.1	<0.01	4.6	0.6	0.14	7	<0.5	0.3
ROS 164618	Soil	61	59	1.00	441	0.218	<1	3.63	0.037	1.06	<0.1	<0.01	4.3	0.6	<0.05	8	<0.5	<0.2
ROS 163718	Soil	33	22	0.66	262	0.117	1	2.04	0.014	0.42	<0.1	0.03	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 160394	Soil	26	30	0.76	336	0.152	<1	1.97	0.011	0.37	<0.1	0.02	2.4	0.2	0.10	6	<0.5	<0.2
ROS 160395	Soil	34	27	0.69	260	0.148	<1	1.79	0.011	0.49	<0.1	0.01	2.4	0.3	0.09	6	<0.5	<0.2
ROS 160396	Soil	25	24	0.64	207	0.133	<1	1.75	0.012	0.30	<0.1	0.01	2.9	0.2	<0.05	5	<0.5	<0.2
ROS 160397	Soil	18	33	0.56	267	0.107	<1	1.71	0.014	0.07	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000612.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160398	Soil		1.0	26.9	9.3	61	0.1	19.3	8.4	255	2.49	6.3	1.4	1.8	5.9	28	<0.1	0.4	0.2	56	0.29	0.034
ROS 160399	Soil		1.0	18.8	7.9	65	<0.1	15.9	10.6	373	2.90	6.2	0.9	7.6	6.7	31	<0.1	0.3	0.1	62	0.26	0.022
ROS 151122	Soil		0.5	21.1	8.4	42	<0.1	20.3	9.1	401	2.33	8.6	1.3	1.8	2.9	34	<0.1	0.5	0.1	56	0.84	0.046
ROS 151120	Soil		0.6	23.0	8.7	43	<0.1	22.8	9.7	405	2.37	7.5	0.6	3.0	3.7	33	<0.1	0.5	0.2	59	1.52	0.021
ROS 164625	Soil		1.0	25.5	7.3	45	<0.1	27.3	12.4	325	3.41	8.1	1.2	0.9	10.4	16	<0.1	0.4	0.2	58	0.15	0.043
ROS 164627	Soil		0.7	56.6	14.3	111	<0.1	32.3	17.4	571	3.57	3.5	1.4	<0.5	10.9	32	0.1	0.2	0.1	66	0.29	0.047
ROS 164629	Soil		2.2	53.8	9.2	115	<0.1	39.7	17.5	645	4.06	3.1	2.5	<0.5	16.4	48	0.1	0.2	0.2	49	0.24	0.058
ROS 163721	Soil		0.9	39.2	4.7	86	<0.1	10.2	13.8	653	3.74	2.5	1.0	<0.5	5.9	39	<0.1	0.2	<0.1	94	0.40	0.040
ROS 163719	Soil		1.1	26.6	2.8	114	<0.1	9.5	16.0	992	4.59	1.4	1.5	0.7	10.8	34	<0.1	0.1	<0.1	119	0.42	0.066
ROS 164626	Soil		0.9	16.6	6.3	55	<0.1	26.0	13.4	486	3.58	5.6	1.0	0.7	10.6	17	<0.1	0.3	0.2	56	0.14	0.029
ROS 164628	Soil		2.2	58.7	9.5	125	<0.1	42.6	18.9	676	4.22	3.0	2.8	<0.5	18.3	42	0.1	0.1	0.2	50	0.24	0.057
ROS 163723	Soil		2.1	127.4	8.0	72	1.0	26.1	26.6	1237	4.27	4.5	4.2	2.2	7.8	51	0.3	0.4	0.2	94	0.69	0.054
ROS 163717	Soil		1.1	45.8	3.1	104	<0.1	8.5	17.1	922	4.96	2.7	1.2	1.8	4.1	30	<0.1	0.2	<0.1	130	0.32	0.062
ROS 160264	Soil		0.8	24.3	5.3	68	<0.1	12.3	11.7	611	3.49	3.0	1.4	2.3	7.4	80	<0.1	0.2	<0.1	77	1.00	0.046
ROS 160252	Soil		0.9	61.6	17.1	151	<0.1	12.9	9.2	743	3.95	5.4	1.8	<0.5	14.9	15	0.2	0.3	0.1	64	0.13	0.029
ROS 163724	Soil		1.1	33.5	5.1	56	<0.1	6.4	6.6	226	2.02	2.1	0.5	4.6	2.2	32	<0.1	0.1	0.1	49	0.20	0.032
ROS 160253	Soil		0.8	23.2	17.3	84	<0.1	17.3	9.2	521	2.89	7.9	1.5	2.8	6.9	36	0.1	0.5	0.2	57	0.48	0.039
ROS 160254	Soil		0.8	30.9	20.0	80	<0.1	18.6	10.5	414	2.81	7.2	0.8	5.2	5.1	30	0.2	0.6	0.2	64	0.41	0.061
ROS 164624	Soil		0.8	21.6	5.8	43	<0.1	28.4	13.3	552	4.11	4.4	2.1	<0.5	15.6	19	<0.1	0.2	0.3	45	0.19	0.046
ROS 163722	Soil		2.2	112.1	5.9	141	<0.1	10.7	20.0	910	5.22	0.9	1.6	0.7	5.1	69	<0.1	<0.1	0.1	140	0.59	0.047
ROS 151111	Soil		0.6	14.7	6.1	58	<0.1	14.9	7.5	259	2.37	5.5	0.4	8.2	2.2	23	<0.1	0.3	<0.1	52	0.31	0.033
ROS 152503	Soil		1.0	16.2	9.4	61	<0.1	8.5	8.3	257	2.46	5.2	1.9	2.9	12.1	27	<0.1	2.8	0.1	35	0.29	0.021
ROS 152507	Soil		0.6	18.5	7.4	108	<0.1	13.9	13.3	619	3.39	4.4	0.5	49.5	3.0	86	0.1	1.0	<0.1	81	0.71	0.117
ROS 152511	Soil		0.7	31.3	8.5	61	0.1	26.8	9.7	422	2.33	9.3	0.5	6.2	3.7	56	0.2	0.8	0.2	51	1.46	0.069
ROS 152514	Soil		0.8	27.6	8.6	56	0.1	22.0	10.2	387	2.48	10.5	0.9	4.7	3.5	43	0.2	0.7	0.2	56	0.66	0.063
ROS 152513	Soil		0.8	26.6	8.1	55	<0.1	22.8	9.4	344	2.26	8.7	0.7	4.6	3.6	42	0.1	0.7	0.2	48	0.69	0.062
ROS 152504	Soil		0.5	24.3	5.5	106	<0.1	18.5	16.0	533	3.54	3.8	0.8	2.8	6.9	57	<0.1	0.7	<0.1	84	0.64	0.075
ROS 152508	Soil		0.5	32.3	8.5	69	0.1	20.4	9.1	297	2.35	6.0	1.7	5.3	4.3	43	0.2	0.8	0.2	52	0.65	0.063
ROS 151112	Soil		0.5	23.9	5.5	68	<0.1	14.2	9.6	321	2.59	5.3	0.5	2.7	3.0	34	<0.1	0.3	0.1	56	0.44	0.061
ROS 152515	Soil		0.9	58.6	5.4	158	<0.1	17.9	19.5	379	5.04	5.1	0.8	9.4	4.8	15	<0.1	1.1	0.1	80	0.23	0.063

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Project: ROS
 Report Date: November 12, 2010

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CERTIFICATE OF ANALYSIS

WHI10000612.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160398	Soil	18	32	0.55	287	0.103	<1	1.74	0.013	0.07	0.1	0.03	3.9	0.1	<0.05	5	<0.5	<0.2
ROS 160399	Soil	16	27	0.64	223	0.132	1	2.18	0.013	0.26	0.1	0.01	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 151122	Soil	12	27	0.50	289	0.059	<1	1.43	0.022	0.05	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 151120	Soil	15	29	0.62	223	0.068	<1	1.67	0.016	0.05	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 164625	Soil	16	35	0.79	193	0.170	1	2.12	0.008	0.54	<0.1	0.01	2.6	0.4	<0.05	6	<0.5	<0.2
ROS 164627	Soil	29	55	1.71	391	0.238	<1	2.81	0.016	1.02	<0.1	<0.01	3.0	0.4	<0.05	7	0.6	<0.2
ROS 164629	Soil	22	42	1.56	406	0.233	<1	2.88	0.010	1.19	<0.1	<0.01	2.7	0.5	<0.05	8	0.6	<0.2
ROS 163721	Soil	14	21	1.37	188	0.242	<1	2.49	0.014	1.22	0.1	<0.01	2.8	0.4	<0.05	7	<0.5	<0.2
ROS 163719	Soil	19	20	1.71	192	0.277	<1	2.84	0.013	1.66	0.1	0.01	5.1	0.5	<0.05	10	<0.5	<0.2
ROS 164626	Soil	10	37	1.37	510	0.227	<1	2.67	0.016	0.74	0.1	0.02	3.4	0.5	<0.05	8	<0.5	<0.2
ROS 164628	Soil	25	42	1.52	399	0.235	<1	2.91	0.012	1.19	<0.1	0.01	2.7	0.6	<0.05	8	<0.5	<0.2
ROS 163723	Soil	47	30	0.89	500	0.159	<1	3.27	0.016	0.62	0.1	0.07	5.2	0.2	<0.05	8	<0.5	<0.2
ROS 163717	Soil	9	14	2.00	442	0.302	1	3.11	0.020	1.97	<0.1	0.01	2.9	0.4	<0.05	8	<0.5	<0.2
ROS 160264	Soil	21	17	1.17	182	0.192	<1	3.28	0.015	1.14	<0.1	<0.01	3.3	0.4	<0.05	8	<0.5	<0.2
ROS 160252	Soil	21	13	1.21	150	0.213	1	2.70	0.011	1.17	<0.1	<0.01	6.1	0.5	<0.05	10	<0.5	<0.2
ROS 163724	Soil	8	16	0.69	128	0.121	2	1.39	0.011	0.40	0.2	0.03	2.1	0.2	0.08	5	<0.5	<0.2
ROS 160253	Soil	18	26	0.67	222	0.120	1	1.89	0.018	0.37	0.1	0.03	5.3	0.2	<0.05	6	0.7	<0.2
ROS 160254	Soil	15	25	0.82	213	0.113	2	1.57	0.018	0.24	0.2	0.02	3.3	0.1	<0.05	5	0.6	<0.2
ROS 164624	Soil	15	35	1.20	356	0.259	2	2.58	0.009	1.06	<0.1	<0.01	3.4	0.7	<0.05	8	0.7	0.4
ROS 163722	Soil	14	35	2.46	317	0.279	<1	3.55	0.019	1.65	0.2	<0.01	3.9	0.6	<0.05	10	0.8	<0.2
ROS 151111	Soil	7	27	0.82	176	0.118	2	1.55	0.010	0.25	0.1	<0.01	2.1	0.1	<0.05	5	<0.5	0.3
ROS 152503	Soil	26	13	0.42	652	0.009	3	1.57	0.006	0.14	<0.1	0.05	3.0	0.1	<0.05	5	0.6	<0.2
ROS 152507	Soil	10	37	1.02	240	0.139	<1	2.12	0.013	0.14	0.4	0.01	4.2	<0.1	<0.05	9	<0.5	<0.2
ROS 152511	Soil	13	26	0.73	328	0.077	2	1.25	0.032	0.07	0.2	0.04	3.4	<0.1	<0.05	4	0.7	<0.2
ROS 152514	Soil	13	28	0.58	312	0.076	2	1.44	0.025	0.07	0.2	0.04	3.7	<0.1	<0.05	4	0.8	<0.2
ROS 152513	Soil	12	25	0.55	309	0.069	2	1.32	0.027	0.06	0.2	0.04	3.2	<0.1	<0.05	4	0.8	<0.2
ROS 152504	Soil	19	46	1.62	361	0.217	2	2.47	0.016	0.42	<0.1	0.01	2.8	0.4	<0.05	7	<0.5	<0.2
ROS 152508	Soil	18	27	0.57	424	0.078	2	1.55	0.019	0.06	0.3	0.05	4.0	<0.1	<0.05	4	0.7	<0.2
ROS 151112	Soil	11	18	0.84	192	0.151	1	1.74	0.012	0.23	0.1	0.02	3.1	0.1	<0.05	7	<0.5	<0.2
ROS 152515	Soil	23	38	2.30	169	0.024	<1	3.29	0.006	0.17	0.2	0.05	7.9	0.1	<0.05	9	0.9	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 152506	Soil	0.6	20.5	8.2	76	0.2	11.0	8.6	334	2.58	4.7	1.1	4.9	4.1	44	0.1	1.1	0.1	52	0.46	0.047
ROS 151113	Soil	0.3	20.1	4.9	53	<0.1	16.2	8.9	423	2.25	5.5	0.4	1.0	3.4	26	<0.1	0.4	<0.1	51	0.48	0.048
ROS 151118	Soil	0.7	13.7	8.9	46	<0.1	17.1	8.4	377	2.49	8.4	0.6	1.0	3.2	29	<0.1	0.4	0.2	59	0.84	0.017
ROS 151114	Soil	0.1	14.3	5.9	87	<0.1	15.3	11.3	617	2.44	4.3	0.3	1.6	4.1	19	<0.1	0.3	<0.1	47	0.57	0.076
ROS 151117	Soil	0.5	20.3	7.6	44	<0.1	19.6	8.9	431	2.58	8.2	0.6	4.0	4.2	31	<0.1	0.5	0.1	60	0.68	0.040
ROS 151119	Soil	0.6	32.0	7.4	49	<0.1	26.0	9.2	366	2.45	10.2	0.5	2.4	3.6	41	<0.1	0.6	0.1	58	1.40	0.052
ROS 160400	Soil	1.0	18.4	9.4	81	<0.1	16.1	8.5	294	2.81	8.1	0.9	2.4	5.5	27	<0.1	0.4	0.2	67	0.24	0.022
ROS 151121	Soil	0.4	28.0	7.5	45	<0.1	23.9	9.5	402	2.33	9.8	0.5	17.2	3.5	37	<0.1	0.5	0.1	51	0.65	0.072
ROS 164151	Soil	2.0	77.9	4.2	154	0.2	8.4	8.6	502	4.88	4.5	1.5	<0.5	6.8	34	0.2	0.3	0.1	47	0.22	0.044
ROS 164152	Soil	1.5	15.9	7.2	61	0.2	9.2	9.0	469	2.69	6.3	1.0	<0.5	7.3	23	<0.1	0.3	0.2	56	0.19	0.037
ROS 164153	Soil	1.3	19.8	9.0	59	<0.1	12.6	8.2	329	2.79	6.6	1.2	2.1	6.9	26	<0.1	0.4	0.2	58	0.19	0.021
ROS 164154	Soil	1.2	19.4	7.8	55	<0.1	15.8	7.5	305	2.90	7.4	1.0	2.8	7.1	23	<0.1	0.4	0.3	62	0.15	0.017
ROS 164155	Soil	1.5	21.6	7.8	54	0.3	12.0	6.1	246	2.46	5.2	1.4	1.8	5.3	27	0.1	0.3	0.4	55	0.19	0.027
ROS 151115	Soil	0.5	32.7	8.0	52	<0.1	26.5	9.9	432	2.51	8.8	0.5	2.7	3.6	42	<0.1	0.6	0.2	52	0.72	0.055
ROS 151116	Soil	0.4	22.6	7.2	48	<0.1	22.6	9.2	450	2.65	8.5	0.5	3.4	4.2	31	<0.1	0.5	0.1	63	0.72	0.042
ROS 152509	Soil	0.5	34.2	8.9	55	0.1	21.0	11.7	344	2.42	6.6	2.1	2.8	4.1	41	0.1	0.9	0.1	60	0.61	0.060
ROS 152512	Soil	0.9	30.3	8.4	65	0.1	27.6	10.1	435	2.46	9.4	0.6	0.9	3.8	46	0.2	0.8	0.1	54	0.92	0.072
ROS 152510	Soil	0.9	29.9	8.6	62	0.1	26.0	10.2	374	2.44	8.6	0.5	4.2	4.1	36	0.2	0.8	0.2	55	0.56	0.070
ROS 173382	Soil	0.2	10.3	4.3	107	<0.1	9.0	12.2	627	1.97	3.6	0.6	1.6	2.4	19	<0.1	0.2	<0.1	35	0.36	0.047
ROS 173390	Soil	0.6	32.3	6.8	49	0.1	23.4	9.6	417	2.12	10.3	0.4	2.1	2.3	63	0.2	0.6	0.1	53	3.79	0.041
ROS 173392	Soil	2.4	41.7	11.9	106	0.2	56.6	15.7	3781	2.97	19.8	0.9	2.3	5.3	28	3.7	1.5	0.1	62	1.50	0.110
ROS 173394	Soil	0.9	31.9	10.8	47	0.1	22.8	9.8	270	2.01	9.1	0.5	1.7	1.5	63	0.3	1.7	0.1	40	5.32	0.083
ROS 149509	Soil	0.5	25.3	7.5	52	0.1	21.3	9.2	324	2.12	7.0	1.2	2.2	2.9	33	0.2	0.7	0.1	48	0.73	0.049
ROS 149510	Soil	0.8	25.6	10.8	63	0.2	17.3	8.8	367	2.31	6.8	0.9	2.2	3.5	29	0.2	1.0	0.4	52	0.66	0.057
ROS 149511	Soil	0.7	25.2	10.1	57	0.1	17.4	9.1	390	2.27	7.3	1.0	2.2	3.3	30	0.1	0.9	0.2	52	0.70	0.054
ROS 149512	Soil	0.4	23.5	8.0	55	0.1	16.9	8.6	345	2.14	6.2	0.9	1.6	2.6	36	0.2	0.7	0.1	48	0.90	0.046
ROS 173061	Soil	0.4	29.4	2.4	83	<0.1	8.8	11.0	432	3.08	3.5	0.4	<0.5	2.8	14	<0.1	0.2	<0.1	74	0.26	0.085
ROS 173062	Soil	0.4	32.1	2.5	84	<0.1	8.3	11.5	422	3.00	3.7	0.4	0.6	2.9	15	<0.1	0.2	<0.1	68	0.24	0.087
ROS 173060	Soil	0.3	17.2	6.3	85	<0.1	13.5	9.5	363	2.47	5.4	0.4	5.2	3.2	68	<0.1	0.3	<0.1	53	0.52	0.041
ROS 173059	Soil	0.2	37.2	7.8	77	<0.1	27.4	12.2	542	2.76	3.1	0.5	3.2	2.2	83	0.1	0.1	<0.1	62	3.40	0.106

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 Report Date: November 12, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
ROS 152506	Soil	19	21	0.62	480	0.067	2	1.77	0.011	0.10	0.2	0.04	3.4	<0.1	<0.05	7	<0.5	<0.2
ROS 151113	Soil	11	25	0.89	208	0.131	1	1.51	0.016	0.32	0.2	0.02	4.3	0.1	<0.05	5	0.7	<0.2
ROS 151118	Soil	12	30	0.56	235	0.066	<1	1.76	0.014	0.06	0.1	0.02	4.1	<0.1	<0.05	5	0.6	<0.2
ROS 151114	Soil	17	21	1.31	201	0.132	<1	1.76	0.009	0.36	<0.1	<0.01	5.0	0.2	<0.05	6	<0.5	<0.2
ROS 151117	Soil	15	27	0.64	256	0.087	1	1.38	0.019	0.08	0.2	0.02	4.8	<0.1	<0.05	5	0.8	<0.2
ROS 151119	Soil	15	28	0.75	202	0.082	2	1.40	0.024	0.07	0.2	0.04	4.1	<0.1	<0.05	4	0.6	<0.2
ROS 160400	Soil	14	30	0.63	194	0.114	<1	2.01	0.016	0.11	<0.1	0.01	3.0	0.2	<0.05	6	0.8	<0.2
ROS 151121	Soil	13	26	0.57	233	0.066	2	1.21	0.026	0.06	0.2	0.04	3.7	<0.1	<0.05	3	<0.5	<0.2
ROS 164151	Soil	14	13	0.57	237	0.125	1	2.32	0.011	0.63	<0.1	0.01	1.9	0.5	<0.05	7	0.7	<0.2
ROS 164152	Soil	19	21	0.53	159	0.123	<1	1.64	0.010	0.26	0.1	0.01	2.4	0.2	<0.05	7	<0.5	<0.2
ROS 164153	Soil	21	28	0.57	169	0.114	2	1.79	0.012	0.19	<0.1	0.02	2.9	0.2	<0.05	6	0.5	<0.2
ROS 164154	Soil	14	28	0.58	151	0.118	1	1.87	0.011	0.15	0.1	<0.01	2.8	0.2	<0.05	6	1.1	<0.2
ROS 164155	Soil	20	22	0.48	179	0.093	<1	1.69	0.012	0.11	0.1	0.03	2.5	0.1	<0.05	6	0.5	<0.2
ROS 151115	Soil	15	26	0.63	264	0.075	2	1.35	0.029	0.07	0.2	0.02	3.8	<0.1	<0.05	4	0.5	<0.2
ROS 151116	Soil	17	27	0.71	252	0.090	2	1.37	0.020	0.08	0.2	0.04	5.2	<0.1	<0.05	4	0.5	<0.2
ROS 152509	Soil	17	30	0.54	425	0.075	1	1.60	0.019	0.05	0.3	0.06	4.2	<0.1	<0.05	5	1.1	<0.2
ROS 152512	Soil	14	27	0.69	330	0.084	3	1.30	0.032	0.08	0.2	0.03	3.5	<0.1	<0.05	4	0.6	0.3
ROS 152510	Soil	15	27	0.58	331	0.077	2	1.35	0.029	0.07	0.2	0.04	3.3	<0.1	<0.05	4	0.9	<0.2
ROS 173382	Soil	9	10	1.25	59	0.128	<1	1.27	0.008	0.14	<0.1	0.01	3.8	0.1	<0.05	5	<0.5	<0.2
ROS 173390	Soil	11	26	0.82	271	0.061	1	1.21	0.029	0.05	0.2	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173392	Soil	35	29	1.09	1103	0.044	<1	1.79	0.009	0.18	0.3	0.70	7.4	0.2	0.05	6	0.9	0.3
ROS 173394	Soil	8	23	0.69	158	0.029	3	1.00	0.019	0.08	0.2	0.11	2.7	<0.1	0.06	3	<0.5	<0.2
ROS 149509	Soil	12	25	0.48	285	0.055	<1	1.25	0.023	0.04	0.2	0.04	3.2	<0.1	0.07	4	<0.5	<0.2
ROS 149510	Soil	13	25	0.50	271	0.044	<1	1.19	0.019	0.05	0.3	0.04	3.3	<0.1	0.06	5	<0.5	<0.2
ROS 149511	Soil	13	26	0.45	279	0.047	1	1.19	0.019	0.05	0.3	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 149512	Soil	13	25	0.45	282	0.043	1	1.26	0.019	0.04	0.2	0.04	2.9	<0.1	0.06	4	<0.5	<0.2
ROS 173061	Soil	6	11	1.04	117	0.242	<1	1.97	0.007	0.65	<0.1	<0.01	3.5	0.5	<0.05	9	<0.5	<0.2
ROS 173062	Soil	6	10	1.05	118	0.236	<1	2.08	0.007	0.58	0.2	<0.01	3.0	0.5	<0.05	8	<0.5	0.2
ROS 173060	Soil	8	23	0.99	127	0.132	<1	2.08	0.008	0.24	<0.1	<0.01	3.0	0.1	<0.05	8	<0.5	<0.2
ROS 173059	Soil	9	43	1.73	152	0.182	<1	1.96	0.010	0.29	0.1	0.02	3.5	0.1	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 173056	Soil	0.5	18.4	5.7	68	<0.1	15.7	8.9	319	2.31	7.2	0.7	1.6	3.4	25	<0.1	0.4	<0.1	47	0.35	0.044
ROS 173058	Soil	0.1	67.8	2.2	77	<0.1	37.9	24.9	551	3.95	2.2	0.2	<0.5	0.7	41	<0.1	<0.1	<0.1	114	0.63	0.085
ROS 173057	Soil	0.1	18.6	3.7	54	<0.1	17.3	11.9	474	1.72	4.0	0.3	2.3	1.8	48	<0.1	0.1	<0.1	47	4.76	0.033
ROS 173053	Soil	1.5	22.2	14.3	72	<0.1	15.8	9.5	480	2.57	4.9	0.4	1.6	3.6	22	<0.1	0.5	0.1	53	0.55	0.033
ROS 173052	Soil	0.5	27.5	13.7	64	0.1	21.8	9.2	417	2.34	7.6	0.4	2.6	3.4	37	0.2	0.5	0.1	49	1.23	0.052
ROS 173055	Soil	0.4	10.9	3.1	90	<0.1	8.3	11.0	639	3.21	3.5	0.3	2.3	3.3	13	<0.1	0.2	<0.1	58	0.33	0.079
ROS 173054	Soil	0.3	15.2	3.6	87	<0.1	11.0	9.7	494	2.89	3.5	0.4	0.7	4.3	11	<0.1	0.2	<0.1	59	0.27	0.050
ROS 173051	Soil	0.5	24.4	10.4	55	0.1	19.6	9.0	378	2.44	7.4	0.8	2.4	3.4	33	0.1	0.5	0.1	54	0.81	0.046
ROS 173397	Soil	0.6	36.9	8.2	50	0.1	26.3	9.8	391	2.35	10.2	0.5	24.7	2.6	39	<0.1	0.6	0.2	57	2.04	0.042
ROS 173395	Soil	0.4	27.5	8.7	50	<0.1	25.4	9.9	384	2.50	9.2	0.4	1.2	2.1	32	0.1	0.4	0.2	56	1.39	0.033
ROS 173396	Soil	0.3	31.7	9.9	47	0.1	23.7	9.2	450	2.27	8.9	0.5	1.9	2.0	37	0.1	0.6	0.2	54	2.02	0.036
ROS 173393	Soil	0.7	24.2	9.7	57	0.5	22.5	10.2	451	2.31	8.3	0.7	5.7	1.8	70	0.2	1.9	0.1	43	4.24	0.073
ROS 173379	Soil	0.3	37.8	5.0	63	<0.1	18.3	7.9	385	2.41	4.6	0.7	3.8	2.6	75	0.2	0.3	<0.1	64	5.78	0.067
ROS 166011	Soil	0.3	17.7	3.5	87	<0.1	10.6	10.0	563	2.94	3.2	0.3	2.2	4.0	15	<0.1	0.3	<0.1	58	0.36	0.047
ROS 173385	Soil	0.1	10.6	8.3	98	<0.1	11.3	11.8	950	2.55	8.0	0.6	2.0	4.2	50	<0.1	0.7	0.1	37	3.43	0.080
ROS 173383	Soil	0.3	22.3	3.2	97	<0.1	16.9	12.8	698	3.29	4.2	0.3	2.1	2.7	65	<0.1	0.3	<0.1	78	3.58	0.088
ROS 149501	Soil	1.0	44.8	22.3	127	<0.1	17.5	15.5	1040	3.71	5.5	0.6	<0.5	5.3	49	0.2	3.5	0.1	71	0.37	0.077
ROS 149502	Soil	0.8	11.3	8.5	53	0.1	15.9	8.4	561	2.23	6.1	0.4	6.1	3.9	20	0.1	0.7	0.1	53	0.24	0.029
ROS 149503	Soil	0.7	13.4	11.8	107	<0.1	19.1	15.0	987	3.50	7.5	0.5	0.6	3.3	35	0.1	1.3	0.1	75	0.42	0.124
ROS 149504	Soil	0.7	19.8	10.5	75	<0.1	17.2	9.3	312	2.83	7.3	0.9	2.3	5.1	26	0.1	2.2	0.1	63	0.35	0.033
ROS 149505	Soil	0.8	34.7	11.4	74	0.3	21.7	9.7	375	2.92	8.8	0.8	13.9	5.2	29	0.1	4.3	0.1	59	0.68	0.052
ROS 149506	Soil	0.5	36.2	9.9	62	0.2	20.3	8.6	300	2.15	5.7	1.1	2.9	2.9	45	0.2	1.5	0.1	45	1.69	0.056
ROS 149507	Soil	0.6	27.3	8.6	68	0.1	21.4	8.3	333	2.42	7.0	0.6	3.1	4.1	34	0.2	0.9	0.2	52	0.66	0.051
ROS 149508	Soil	0.6	25.1	8.1	56	0.1	20.1	9.8	372	2.29	7.4	1.1	2.5	3.5	33	0.1	0.8	0.1	52	0.68	0.054
ROS 151001	Soil	4.0	37.6	17.5	44	0.2	16.0	10.3	316	2.35	5.7	1.4	35.6	5.6	27	<0.1	0.7	0.3	45	0.42	0.029
ROS 151003	Soil	0.6	26.8	8.7	49	0.1	16.4	8.2	310	1.82	5.5	1.2	10.9	3.7	33	0.1	0.6	0.2	37	0.75	0.040
ROS 150997	Soil	1.4	29.0	19.5	66	<0.1	15.7	7.7	303	2.42	11.4	0.8	7.6	6.8	15	0.1	0.7	0.2	42	0.17	0.020
ROS 151000	Soil	0.6	26.0	9.2	47	0.2	16.0	8.7	199	2.15	6.2	0.8	60.3	4.7	22	<0.1	0.7	0.2	43	0.39	0.029
ROS 150999	Soil	0.6	33.7	9.5	59	<0.1	25.8	10.2	414	2.40	10.4	0.4	13.0	3.3	30	0.2	0.6	0.2	50	1.08	0.034
ROS 151002	Soil	3.1	35.1	17.3	78	0.2	18.6	10.6	363	2.55	6.1	0.8	16.8	4.9	33	0.2	0.6	0.2	48	0.72	0.042

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 173056	Soil	12	24	0.75	154	0.110	<1	1.53	0.009	0.22	0.1	0.01	4.1	<0.1	<0.05	6	<0.5	<0.2
ROS 173058	Soil	7	67	3.53	406	0.302	<1	3.49	0.014	1.34	0.1	<0.01	3.3	0.2	<0.05	9	<0.5	<0.2
ROS 173057	Soil	6	17	2.35	179	0.114	<1	1.72	0.008	0.38	<0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 173053	Soil	13	23	0.93	252	0.129	<1	1.69	0.015	0.28	<0.1	0.03	6.0	0.1	<0.05	7	<0.5	<0.2
ROS 173052	Soil	13	25	0.78	274	0.087	<1	1.51	0.026	0.13	0.1	0.05	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 173055	Soil	7	15	1.41	232	0.156	<1	1.93	0.009	0.54	<0.1	0.01	9.9	0.2	<0.05	9	<0.5	<0.2
ROS 173054	Soil	20	19	1.20	208	0.164	<1	1.66	0.009	0.61	<0.1	0.01	10.3	0.3	<0.05	8	<0.5	<0.2
ROS 173051	Soil	13	28	0.64	272	0.089	1	1.47	0.028	0.09	0.1	0.05	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 173397	Soil	13	28	0.57	305	0.056	1	1.48	0.031	0.05	0.2	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173395	Soil	12	29	0.53	260	0.047	2	1.55	0.028	0.05	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173396	Soil	12	27	0.50	307	0.054	2	1.48	0.028	0.05	0.1	0.05	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173393	Soil	11	24	0.72	261	0.034	4	1.05	0.022	0.13	0.1	0.10	3.3	<0.1	0.08	3	<0.5	<0.2
ROS 173379	Soil	10	24	1.75	249	0.155	<1	1.64	0.022	0.14	0.2	0.03	4.7	<0.1	0.06	6	<0.5	<0.2
ROS 166011	Soil	16	17	1.18	197	0.134	<1	1.73	0.009	0.38	<0.1	0.02	8.8	0.2	<0.05	8	<0.5	<0.2
ROS 173385	Soil	23	23	1.57	135	0.072	2	1.64	0.015	0.22	<0.1	0.01	5.7	0.1	<0.05	7	<0.5	0.2
ROS 173383	Soil	11	22	1.65	356	0.199	<1	1.73	0.021	0.61	0.2	<0.01	8.8	0.3	<0.05	8	<0.5	<0.2
ROS 149501	Soil	10	25	0.72	357	0.065	<1	2.16	0.017	0.16	<0.1	0.07	4.3	<0.1	<0.05	10	<0.5	<0.2
ROS 149502	Soil	10	28	0.45	343	0.066	1	1.52	0.013	0.10	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	0.2
ROS 149503	Soil	8	42	1.02	295	0.081	1	2.18	0.015	0.09	0.2	0.01	4.1	<0.1	<0.05	10	<0.5	<0.2
ROS 149504	Soil	19	32	0.60	447	0.051	1	1.77	0.014	0.08	0.1	0.08	4.3	<0.1	<0.05	6	<0.5	<0.2
ROS 149505	Soil	20	31	0.49	543	0.049	3	1.85	0.021	0.09	0.1	0.14	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 149506	Soil	18	25	0.43	493	0.044	2	1.49	0.018	0.06	0.2	0.18	4.0	<0.1	0.07	5	<0.5	<0.2
ROS 149507	Soil	14	28	0.51	318	0.065	1	1.53	0.025	0.06	0.2	0.06	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 149508	Soil	13	27	0.51	327	0.056	<1	1.49	0.023	0.05	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 151001	Soil	16	25	0.37	736	0.045	<1	1.48	0.013	0.07	1.7	0.04	3.5	<0.1	<0.05	4	0.8	<0.2
ROS 151003	Soil	13	21	0.38	399	0.052	1	1.19	0.013	0.05	0.5	0.05	2.6	<0.1	<0.05	4	0.7	<0.2
ROS 150997	Soil	9	23	0.41	470	0.027	1	1.47	0.008	0.11	0.3	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
ROS 151000	Soil	11	25	0.42	435	0.041	<1	1.46	0.011	0.08	0.5	0.04	2.8	<0.1	<0.05	4	<0.5	0.6
ROS 150999	Soil	13	26	0.74	241	0.049	<1	1.48	0.018	0.06	0.4	0.11	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151002	Soil	18	28	0.55	613	0.067	<1	1.66	0.014	0.10	1.0	0.08	3.7	<0.1	<0.05	5	0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 151006	Soil	0.6	33.1	7.9	56	0.1	27.1	9.9	392	2.22	8.6	0.8	6.7	3.1	34	0.2	0.6	0.1	49	0.65	0.061
ROS 151004	Soil	0.5	24.8	8.2	47	0.1	18.1	10.6	524	2.06	7.4	1.4	5.9	2.9	35	0.2	0.6	0.1	47	0.77	0.049
ROS 151013	Soil	0.8	18.0	6.9	60	<0.1	15.6	11.5	623	1.94	6.8	0.8	7.8	1.3	42	0.3	0.6	0.1	42	1.24	0.052
ROS 151364	Soil	0.8	30.5	8.7	67	0.1	25.8	10.4	437	2.36	8.7	0.5	3.4	3.6	51	0.4	0.8	0.2	56	1.35	0.071
ROS 165634	Soil	0.5	27.6	9.5	78	0.1	19.4	11.2	426	2.69	6.8	0.9	41.8	6.3	27	<0.1	0.6	0.1	57	0.51	0.038
ROS 165633	Soil	0.5	5.3	9.7	76	<0.1	6.3	6.0	280	1.70	3.8	0.2	2.9	1.1	23	<0.1	0.4	<0.1	38	0.34	0.026
ROS 151024	Soil	0.2	21.3	4.8	72	<0.1	12.9	10.4	632	2.10	4.2	1.5	3.0	2.1	32	0.2	0.4	<0.1	49	1.38	0.062
ROS 151022	Soil	0.3	19.9	6.3	47	<0.1	16.1	7.8	318	2.02	6.8	1.3	5.0	1.9	39	<0.1	0.5	0.1	41	1.09	0.058
ROS 151023	Soil	0.3	24.4	7.3	55	<0.1	20.5	10.8	398	2.29	8.7	0.9	5.0	3.3	23	0.2	0.6	0.1	48	0.63	0.056
ROS 151325	Soil	0.5	19.2	4.8	168	<0.1	16.6	18.0	811	4.64	6.4	0.5	3.3	3.6	56	0.1	1.8	<0.1	105	0.96	0.200
ROS 151368	Soil	0.5	27.3	7.8	48	0.1	24.8	10.8	457	2.45	11.7	0.5	6.8	2.8	33	0.1	0.6	0.1	54	1.41	0.058
ROS 151369	Soil	0.4	30.2	7.7	46	0.1	25.0	10.4	463	2.29	10.4	0.7	5.7	2.1	35	0.1	0.7	0.1	49	1.38	0.056
ROS 151353	Soil	0.5	21.4	10.1	54	0.2	15.1	7.5	309	2.00	7.0	1.1	10.1	1.9	35	0.1	1.0	0.1	42	1.15	0.050
ROS 151351	Soil	0.4	23.0	11.0	57	0.1	16.6	10.9	574	2.34	8.2	1.2	8.8	3.1	31	0.2	0.7	0.2	48	0.92	0.053
ROS 151352	Soil	0.6	17.6	9.8	52	0.1	13.0	8.4	424	1.96	7.1	0.9	7.5	2.0	34	0.2	0.9	0.1	41	1.20	0.049
ROS 151012	Soil	0.9	19.8	7.6	65	0.1	15.4	8.4	450	1.91	6.7	0.9	5.3	1.7	46	0.3	0.8	0.1	44	1.24	0.058
ROS 151011	Soil	0.7	21.7	8.4	60	0.1	17.4	9.2	445	2.09	7.7	1.0	6.2	2.1	40	0.2	0.8	0.1	49	0.96	0.059
ROS 165638	Soil	0.4	24.9	12.1	89	<0.1	14.1	10.3	375	2.55	7.1	0.5	10.4	4.6	25	0.2	0.5	0.2	50	0.59	0.070
ROS 165636	Soil	0.4	28.0	11.0	50	0.2	20.2	8.7	418	2.07	7.3	0.5	48.7	3.0	34	0.2	0.6	0.2	43	1.12	0.051
ROS 165639	Soil	0.3	23.3	11.6	56	0.1	16.1	8.7	324	2.07	6.6	0.8	9.1	2.6	34	0.3	0.5	0.1	44	0.99	0.055
ROS 165637	Soil	0.6	28.7	15.2	64	0.1	20.8	9.5	459	2.44	8.5	0.7	16.2	3.8	29	0.2	0.5	0.2	52	0.79	0.050
ROS 165635	Soil	0.3	26.9	9.2	45	0.3	21.1	8.6	378	2.07	7.3	0.6	52.2	2.2	36	0.1	0.6	0.2	43	1.24	0.052
ROS 151025	Soil	0.2	15.3	5.9	102	<0.1	14.4	12.8	823	2.70	4.7	0.4	2.8	4.0	18	0.1	0.3	0.1	60	0.71	0.068
ROS 151365	Soil	0.6	26.1	8.3	47	<0.1	24.6	11.0	402	2.48	10.3	0.7	4.7	3.7	28	<0.1	0.6	0.2	59	0.74	0.029
ROS 151339	Soil	0.1	7.8	3.1	109	<0.1	14.2	14.2	921	2.21	5.5	0.2	2.5	2.8	17	<0.1	0.2	<0.1	42	0.65	0.077
ROS 151324	Soil	0.9	25.9	6.3	99	<0.1	18.8	13.6	538	3.35	8.4	0.5	7.2	3.2	31	0.2	0.7	<0.1	83	0.71	0.131
ROS 164994	Soil	0.8	13.9	5.6	78	<0.1	11.9	8.1	839	3.12	3.6	1.4	2.2	20.9	17	<0.1	0.3	<0.1	49	0.36	0.064
ROS 164992	Soil	0.9	15.3	11.8	66	0.1	12.6	16.6	1456	2.72	5.0	1.7	4.1	10.5	30	0.2	0.4	0.2	45	0.40	0.076
ROS 164991	Soil	0.9	15.2	11.3	62	0.1	11.3	7.6	322	2.27	3.9	1.8	3.5	10.2	40	<0.1	0.3	0.2	43	0.52	0.071
ROS 164993	Soil	0.6	19.9	6.4	66	<0.1	15.7	10.2	305	2.17	5.3	1.0	3.8	3.8	34	0.2	0.4	0.1	48	0.56	0.075

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 151006	Soil	12	24	0.54	325	0.057	1	1.27	0.021	0.05	0.2	0.03	2.9	<0.1	<0.05	4	0.5	<0.2
ROS 151004	Soil	12	22	0.39	396	0.046	<1	1.26	0.014	0.04	0.3	0.03	2.9	<0.1	<0.05	4	0.8	0.2
ROS 151013	Soil	10	19	0.41	299	0.037	2	1.03	0.013	0.04	0.3	0.05	2.1	<0.1	<0.05	3	0.6	<0.2
ROS 151364	Soil	12	25	0.66	295	0.073	1	1.29	0.032	0.11	0.1	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 165634	Soil	13	29	0.80	323	0.054	<1	1.83	0.011	0.09	0.8	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 165633	Soil	3	13	0.50	136	0.035	<1	1.26	0.011	0.07	0.4	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
ROS 151024	Soil	14	14	0.93	287	0.102	1	1.49	0.011	0.40	<0.1	0.04	7.2	0.1	<0.05	5	0.7	<0.2
ROS 151022	Soil	11	20	0.51	257	0.055	1	1.18	0.014	0.06	0.2	0.04	3.1	<0.1	<0.05	4	0.7	<0.2
ROS 151023	Soil	13	22	0.63	231	0.079	<1	1.34	0.018	0.11	0.1	0.03	3.7	<0.1	<0.05	4	0.6	<0.2
ROS 151325	Soil	6	37	1.09	298	0.057	<1	2.20	0.011	0.33	0.1	0.10	6.3	<0.1	<0.05	13	0.5	0.2
ROS 151368	Soil	13	26	0.81	263	0.059	<1	1.43	0.019	0.05	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151369	Soil	12	22	0.82	288	0.052	1	1.40	0.015	0.04	0.2	0.05	3.0	<0.1	<0.05	4	0.6	<0.2
ROS 151353	Soil	12	21	0.43	415	0.036	1	1.25	0.014	0.05	0.7	0.08	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151351	Soil	13	20	0.44	347	0.043	1	1.21	0.013	0.05	0.4	0.08	2.9	<0.1	<0.05	4	0.6	<0.2
ROS 151352	Soil	11	18	0.40	316	0.037	2	1.15	0.015	0.05	0.4	0.05	2.3	<0.1	<0.05	3	0.7	0.2
ROS 151012	Soil	10	21	0.49	288	0.043	2	1.16	0.015	0.06	0.3	0.06	2.4	<0.1	0.11	4	0.5	<0.2
ROS 151011	Soil	11	21	0.50	319	0.046	1	1.29	0.016	0.05	0.3	0.05	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 165638	Soil	12	21	0.65	242	0.065	<1	1.44	0.014	0.13	0.7	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 165636	Soil	14	22	0.62	472	0.046	1	1.46	0.015	0.07	1.6	0.11	2.9	<0.1	<0.05	4	0.7	0.4
ROS 165639	Soil	14	22	0.48	344	0.045	<1	1.37	0.015	0.06	0.4	0.06	2.8	<0.1	<0.05	4	<0.5	0.2
ROS 165637	Soil	16	27	0.60	401	0.059	2	1.58	0.016	0.07	0.6	0.07	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 165635	Soil	12	23	0.51	374	0.042	2	1.40	0.014	0.05	1.8	0.10	3.0	<0.1	<0.05	4	<0.5	0.5
ROS 151025	Soil	30	32	1.34	259	0.129	1	1.89	0.012	0.57	0.1	0.02	8.4	0.2	<0.05	7	0.5	<0.2
ROS 151365	Soil	15	30	0.57	241	0.073	1	1.51	0.021	0.05	0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
ROS 151339	Soil	8	17	1.98	165	0.190	<1	1.90	0.010	0.37	<0.1	<0.01	7.4	0.1	<0.05	8	<0.5	<0.2
ROS 151324	Soil	9	22	0.91	256	0.062	1	1.64	0.014	0.25	0.2	0.03	4.4	<0.1	<0.05	8	<0.5	0.5
ROS 164994	Soil	44	16	0.69	132	0.130	1	1.49	0.013	0.54	0.1	<0.01	6.0	0.3	<0.05	8	0.5	<0.2
ROS 164992	Soil	41	21	0.45	285	0.069	<1	1.49	0.012	0.16	0.2	0.04	4.0	0.2	<0.05	5	<0.5	<0.2
ROS 164991	Soil	41	22	0.49	168	0.071	1	1.48	0.014	0.18	0.2	0.04	4.3	0.1	<0.05	5	<0.5	<0.2
ROS 164993	Soil	14	22	0.56	208	0.070	1	1.30	0.018	0.10	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164989	Soil	0.7	13.7	48.7	112	<0.1	7.8	11.1	643	4.37	4.7	3.8	2.3	40.1	17	<0.1	0.2	0.2	43	0.22	0.065
ROS 164987	Soil	0.8	17.0	6.8	46	<0.1	14.1	8.3	357	2.21	5.7	1.1	2.3	5.9	26	<0.1	0.4	0.2	49	0.36	0.049
ROS 164988	Soil	0.6	49.3	15.4	90	<0.1	8.7	10.7	582	3.82	4.5	3.4	1.7	44.2	19	<0.1	0.2	0.4	42	0.20	0.044
ROS 164990	Soil	1.3	23.3	51.5	105	<0.1	5.9	8.3	365	3.73	2.7	3.8	0.9	35.8	16	<0.1	0.2	0.4	39	0.18	0.068
ROS 173225	Soil	0.8	42.3	70.6	152	1.1	17.3	13.9	408	3.75	148.1	0.6	4.7	6.4	68	0.2	3.3	0.4	96	1.20	0.135
ROS 159172	Soil	0.5	21.6	6.8	66	0.1	16.8	9.6	367	2.18	5.3	1.2	3.3	3.8	39	0.2	0.4	0.1	49	0.70	0.068
ROS 149535	Soil	0.3	31.1	5.9	86	<0.1	54.3	16.6	483	3.57	4.1	0.6	0.5	2.9	65	<0.1	0.2	<0.1	78	0.76	0.133
ROS 173228	Soil	0.5	32.2	9.3	51	<0.1	25.1	9.9	398	2.48	8.8	0.5	3.0	3.7	44	<0.1	0.5	0.2	56	0.89	0.038
ROS 164117	Soil	1.1	10.3	7.7	96	<0.1	4.7	8.8	1326	3.50	2.7	2.4	0.6	18.5	22	<0.1	0.2	0.1	40	0.34	0.046
ROS 159264	Soil	0.8	15.7	9.0	47	<0.1	14.6	6.5	173	2.23	6.4	1.2	3.8	7.1	25	<0.1	0.4	0.2	49	0.34	0.053
ROS 159055	Soil	1.2	8.3	4.0	56	<0.1	4.8	9.2	647	3.56	2.6	1.4	1.4	13.5	14	<0.1	0.2	<0.1	42	0.19	0.028
ROS 164119	Soil	1.1	9.5	7.8	86	<0.1	4.7	8.5	1191	3.16	2.6	2.3	0.9	17.7	21	<0.1	0.1	0.1	37	0.32	0.049
ROS 151005	Soil	0.6	24.9	8.4	52	0.1	20.4	9.8	440	2.25	7.8	1.1	4.3	3.9	33	0.1	0.6	0.2	52	0.65	0.047
ROS 150998	Soil	0.5	33.2	13.2	77	0.2	37.0	10.1	590	2.26	7.8	0.6	18.2	3.4	50	0.2	0.8	0.2	57	3.09	0.039
ROS 151007	Soil	0.7	29.0	8.1	59	0.1	26.4	10.1	416	2.35	8.8	0.7	5.2	3.6	44	0.2	0.7	0.2	54	0.82	0.068
ROS 151008	Soil	0.7	26.3	7.3	58	0.1	22.1	8.9	395	2.26	7.7	1.0	2.5	3.3	47	0.2	0.7	0.1	52	0.83	0.064
ROS 164196	Soil	0.7	19.2	7.5	51	0.1	14.7	6.1	248	2.17	5.3	1.2	1.6	5.4	27	<0.1	0.3	0.1	48	0.34	0.033
ROS 164197	Soil	0.9	26.4	7.6	53	0.2	16.5	7.2	336	2.26	6.1	1.5	5.9	5.7	31	0.1	0.3	0.2	50	0.41	0.045
ROS 164199	Soil	0.7	16.8	6.3	74	<0.1	11.5	8.9	458	3.00	5.2	1.6	1.7	10.9	26	<0.1	0.3	0.2	57	0.34	0.030
ROS 164195	Soil	0.7	14.2	6.6	55	<0.1	12.9	8.5	423	2.74	6.0	1.4	1.1	8.8	29	<0.1	0.3	0.1	55	0.33	0.028
ROS 164201	Soil	0.9	20.1	7.4	61	<0.1	15.5	8.3	311	2.67	7.6	1.2	2.1	7.7	24	<0.1	0.5	0.2	57	0.24	0.018
ROS 164203	Soil	5.6	54.4	4.4	82	<0.1	6.3	6.7	458	5.19	3.4	7.4	1.5	22.1	59	<0.1	0.3	1.1	41	0.16	0.027
ROS 164198	Soil	0.8	19.8	7.0	63	<0.1	11.2	7.5	410	2.41	5.0	1.2	1.5	7.0	28	0.1	0.3	0.1	49	0.38	0.047
ROS 164200	Soil	0.6	13.4	6.4	47	<0.1	12.7	7.4	297	2.19	6.3	1.0	2.3	6.3	24	<0.1	0.3	0.1	48	0.35	0.050
ROS 164202	Soil	4.4	48.8	4.6	79	<0.1	6.7	6.7	462	4.93	3.4	7.0	1.4	21.8	50	<0.1	0.3	1.1	42	0.16	0.027
ROS 164204	Soil	0.4	24.0	4.9	57	<0.1	7.4	8.5	491	3.18	2.8	2.0	1.2	18.3	49	<0.1	0.1	0.1	48	0.62	0.031
ROS 164206	Soil	0.4	20.9	8.6	130	<0.1	7.0	8.1	541	3.69	2.6	3.5	1.2	17.5	46	<0.1	0.2	0.2	67	0.53	0.040
ROS 164205	Soil	1.2	24.0	5.5	95	<0.1	6.0	7.0	552	4.32	2.6	2.7	0.9	17.6	53	<0.1	0.2	0.5	44	0.25	0.030
ROS 164118	Soil	1.1	12.2	9.5	89	<0.1	7.8	9.3	1123	3.38	3.9	2.4	0.8	17.8	25	0.1	0.3	0.1	45	0.35	0.041
ROS 164150	Soil	1.0	12.1	8.1	86	<0.1	8.0	9.0	1071	3.34	4.2	2.2	1.4	16.8	24	<0.1	0.2	0.1	44	0.32	0.040

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 Report Date: November 12, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164989	Soil	112	13	0.87	132	0.152	<1	2.24	0.003	1.07	<0.1	0.02	7.5	0.9	<0.05	10	<0.5	<0.2
ROS 164987	Soil	19	27	0.47	222	0.086	<1	1.49	0.011	0.07	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164988	Soil	87	14	0.70	154	0.156	<1	2.02	0.002	0.87	0.4	<0.01	6.0	0.8	<0.05	8	<0.5	<0.2
ROS 164990	Soil	72	9	0.53	87	0.085	1	1.44	<0.001	0.68	0.3	<0.01	3.9	0.6	<0.05	6	<0.5	<0.2
ROS 173225	Soil	21	24	0.81	192	0.047	1	2.48	0.007	0.08	0.1	0.15	5.8	<0.1	<0.05	12	0.6	<0.2
ROS 159172	Soil	16	23	0.56	217	0.075	2	1.33	0.016	0.10	0.2	0.04	3.5	<0.1	<0.05	4	0.5	<0.2
ROS 149535	Soil	14	102	1.43	428	0.216	<1	2.55	0.005	0.88	<0.1	<0.01	2.9	0.2	<0.05	10	<0.5	<0.2
ROS 173228	Soil	14	29	0.66	295	0.082	1	1.66	0.023	0.07	0.2	0.03	4.5	<0.1	<0.05	5	0.6	<0.2
ROS 164117	Soil	36	9	1.66	130	0.153	<1	2.48	0.005	0.97	<0.1	<0.01	4.8	0.5	<0.05	9	0.6	<0.2
ROS 159264	Soil	21	25	0.47	188	0.075	1	1.53	0.015	0.07	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 159055	Soil	12	10	1.24	108	0.140	<1	2.76	0.003	0.70	<0.1	<0.01	3.6	0.5	<0.05	9	0.6	<0.2
ROS 164119	Soil	33	9	1.54	123	0.136	<1	2.24	0.008	0.88	<0.1	<0.01	4.3	0.5	<0.05	9	0.8	<0.2
ROS 151005	Soil	13	26	0.45	311	0.060	<1	1.40	0.016	0.05	0.2	0.03	3.2	<0.1	<0.05	5	0.5	<0.2
ROS 150998	Soil	17	48	1.53	269	0.029	1	2.17	0.009	0.08	0.5	0.26	4.5	<0.1	<0.05	6	0.9	<0.2
ROS 151007	Soil	13	28	0.57	331	0.071	1	1.38	0.027	0.07	0.2	0.03	3.4	<0.1	<0.05	4	0.6	<0.2
ROS 151008	Soil	13	27	0.57	314	0.071	2	1.35	0.023	0.07	0.2	0.03	3.3	<0.1	<0.05	4	0.8	<0.2
ROS 164196	Soil	18	22	0.56	230	0.082	<1	1.60	0.012	0.08	<0.1	0.03	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 164197	Soil	22	24	0.56	250	0.077	<1	1.54	0.013	0.07	0.1	0.04	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 164199	Soil	29	19	0.77	190	0.144	<1	1.96	0.007	0.49	0.2	0.01	4.2	0.3	<0.05	7	<0.5	<0.2
ROS 164195	Soil	17	22	0.67	188	0.127	1	1.85	0.010	0.31	<0.1	0.02	3.2	0.2	<0.05	6	0.5	<0.2
ROS 164201	Soil	21	26	0.57	165	0.111	<1	1.85	0.013	0.23	<0.1	0.01	3.3	0.1	<0.05	6	<0.5	<0.2
ROS 164203	Soil	65	10	0.63	194	0.127	<1	2.12	0.013	0.54	<0.1	0.01	3.1	0.9	<0.05	7	0.6	0.6
ROS 164198	Soil	21	19	0.65	208	0.116	1	1.65	0.008	0.22	0.1	0.02	3.4	0.1	<0.05	6	0.5	<0.2
ROS 164200	Soil	19	21	0.53	132	0.099	1	1.35	0.011	0.13	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164202	Soil	64	11	0.63	192	0.137	<1	2.20	0.008	0.54	<0.1	0.01	3.0	0.7	<0.05	7	0.7	0.4
ROS 164204	Soil	29	11	0.77	179	0.164	<1	2.53	0.009	0.69	<0.1	<0.01	4.6	0.4	<0.05	9	<0.5	<0.2
ROS 164206	Soil	61	10	0.89	155	0.223	<1	2.73	0.008	0.81	<0.1	<0.01	5.7	0.4	<0.05	11	<0.5	<0.2
ROS 164205	Soil	43	11	0.69	337	0.157	<1	2.54	0.007	0.73	<0.1	0.01	4.3	0.4	<0.05	8	<0.5	0.2
ROS 164118	Soil	33	14	1.46	142	0.144	<1	2.41	0.011	0.81	<0.1	<0.01	4.6	0.5	<0.05	8	<0.5	<0.2
ROS 164150	Soil	33	14	1.44	147	0.145	<1	2.43	0.008	0.78	<0.1	<0.01	4.7	0.5	<0.05	8	<0.5	<0.2

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Project: ROS
 Report Date: November 12, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164149	Soil	1.0	10.9	8.6	94	<0.1	6.7	8.8	1170	3.40	3.7	2.3	0.8	17.7	23	0.1	0.2	0.1	45	0.34	0.043
ROS 164148	Soil	0.7	21.3	4.2	142	<0.1	4.8	8.1	999	3.61	2.3	1.8	<0.5	9.2	78	0.1	0.2	<0.1	42	0.66	0.034
ROS 164146	Soil	0.6	20.7	4.3	149	<0.1	5.6	9.2	1048	3.94	2.6	1.8	<0.5	10.5	70	<0.1	0.2	<0.1	47	0.67	0.033
ROS 164144	Soil	1.1	13.1	7.9	90	<0.1	13.2	9.7	487	3.32	5.9	1.2	1.2	9.2	15	0.2	0.2	0.2	66	0.21	0.046
ROS 164147	Soil	0.8	17.7	4.5	135	<0.1	5.8	10.2	1031	4.09	2.7	1.8	0.6	10.6	58	<0.1	0.2	<0.1	51	0.62	0.032
ROS 164145	Soil	2.2	16.8	6.9	125	<0.1	15.1	15.2	1081	4.36	2.0	3.5	<0.5	10.6	17	<0.1	0.1	<0.1	87	0.26	0.042
ROS 149513	Soil	0.6	25.6	8.3	60	<0.1	18.2	8.6	418	2.14	6.2	1.0	3.2	2.4	52	0.3	1.0	0.2	46	1.23	0.058
ROS 149530	Soil	0.3	14.3	4.5	52	<0.1	13.7	13.6	493	2.29	5.1	0.4	6.1	3.1	25	<0.1	0.4	0.1	58	0.37	0.038
ROS 149521	Soil	1.0	41.3	11.9	88	0.1	57.2	11.5	1664	2.71	16.4	0.8	1.9	5.0	73	1.0	1.7	0.1	73	6.21	0.061
ROS 149519	Soil	0.3	9.7	13.9	134	<0.1	8.4	9.5	490	2.93	20.5	0.5	2.8	2.5	242	0.2	1.4	<0.1	75	2.01	0.074
ROS 149517	Soil	0.6	21.2	13.9	80	0.1	16.2	10.2	681	2.46	5.8	0.5	2.3	4.4	55	0.3	0.8	0.2	47	1.42	0.029
ROS 149518	Soil	0.3	16.0	15.3	133	<0.1	8.9	9.1	588	2.91	5.2	1.1	1.0	8.3	37	0.1	1.0	0.2	46	0.45	0.040
ROS 149520	Soil	1.3	41.8	9.2	73	0.2	23.3	10.3	337	2.99	12.5	0.4	10.3	3.9	40	0.1	1.2	0.1	67	1.78	0.052
ROS 164995	Soil	0.5	10.0	5.2	45	<0.1	7.5	7.2	758	1.76	4.5	0.4	<0.5	3.8	22	<0.1	0.3	0.1	37	0.32	0.048
ROS 140533	Soil	0.6	21.7	9.0	46	<0.1	21.8	8.9	356	2.46	9.3	0.3	2.1	3.6	30	<0.1	0.6	0.1	52	1.21	0.015
ROS 159171	Soil	1.4	22.2	11.9	91	0.2	16.9	14.3	1322	2.96	6.3	1.8	2.7	9.0	42	0.3	0.4	0.2	56	0.50	0.062
ROS 159173	Soil	1.1	37.4	19.8	101	0.1	16.1	13.4	754	3.62	9.4	2.0	5.3	10.3	31	<0.1	0.3	0.3	68	0.62	0.045
ROS 166018	Soil	0.6	31.1	14.6	83	0.5	22.8	12.1	991	2.98	7.5	1.4	4.9	2.6	87	0.4	2.7	0.3	49	1.33	0.053
ROS 159170	Soil	1.2	21.4	9.1	86	<0.1	15.7	10.8	621	3.24	5.8	1.6	1.7	8.1	27	0.2	0.3	0.2	57	0.36	0.065
ROS 166017	Soil	0.9	27.3	10.7	55	0.1	22.1	9.5	469	2.55	9.9	0.8	2.5	3.6	35	0.3	1.1	0.1	53	1.03	0.039
ROS 173364	Soil	0.9	35.4	10.2	52	0.2	21.8	8.2	330	2.36	8.9	3.6	3.2	4.0	45	0.1	1.3	0.2	44	0.80	0.055
ROS 173363	Soil	1.0	29.6	15.0	77	0.3	17.0	9.5	505	2.84	6.2	1.0	4.8	8.8	27	<0.1	1.9	0.3	44	0.55	0.028
ROS 141853	Soil	0.4	38.0	10.9	46	0.1	25.7	9.7	372	2.34	9.9	0.5	5.6	2.4	76	0.1	0.6	0.1	52	4.83	0.038
ROS 141854	Soil	0.6	28.7	6.0	46	<0.1	29.0	10.5	340	2.28	10.2	0.7	4.6	2.2	87	0.2	0.8	<0.1	51	8.61	0.054
ROS 140535	Soil	0.6	24.9	10.5	58	0.9	11.2	7.0	566	1.90	6.8	1.1	5.1	4.0	128	0.2	2.1	0.2	25	9.69	0.071
ROS 140534	Soil	0.5	27.2	10.6	55	0.9	12.6	6.8	565	1.91	7.2	1.0	5.2	4.0	116	0.2	1.9	0.2	28	8.68	0.071
ROS 160531	Soil	1.0	29.0	7.9	72	<0.1	15.5	9.6	647	3.05	7.3	2.7	2.8	10.3	30	0.1	0.3	0.2	56	0.45	0.047
ROS 160536	Soil	0.2	9.9	3.2	87	<0.1	7.0	9.2	1150	3.83	1.8	0.9	<0.5	19.8	25	<0.1	0.1	<0.1	57	0.39	0.034
ROS 160533	Soil	0.5	12.6	9.8	97	<0.1	7.0	9.2	837	3.59	3.7	1.1	1.0	14.5	16	<0.1	0.2	0.1	53	0.22	0.051
ROS 160532	Soil	0.9	13.2	7.8	52	<0.1	14.1	6.6	345	2.53	6.3	0.7	4.0	5.1	18	<0.1	0.4	0.2	53	0.24	0.031

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 164149	Soil	34	12	1.55	140	0.150	<1	2.49	0.007	0.89	<0.1	0.01	4.9	0.5	<0.05	9	0.6	<0.2
ROS 164148	Soil	25	8	1.52	155	0.173	<1	3.00	0.004	0.64	0.2	<0.01	2.9	0.4	<0.05	11	<0.5	<0.2
ROS 164146	Soil	26	9	1.61	167	0.188	<1	3.35	0.005	0.73	0.2	<0.01	3.2	0.4	<0.05	12	<0.5	<0.2
ROS 164144	Soil	14	20	0.88	134	0.147	1	2.43	0.007	0.28	0.1	0.01	5.0	0.2	<0.05	9	<0.5	<0.2
ROS 164147	Soil	21	10	1.72	184	0.194	<1	3.82	0.006	0.83	0.2	<0.01	3.8	0.5	<0.05	13	<0.5	<0.2
ROS 164145	Soil	34	29	2.02	244	0.201	<1	3.38	0.007	1.28	<0.1	<0.01	5.5	0.6	<0.05	11	<0.5	<0.2
ROS 149513	Soil	12	29	0.51	312	0.043	2	1.27	0.018	0.05	0.2	0.06	3.0	<0.1	<0.05	4	0.8	<0.2
ROS 149530	Soil	9	24	1.39	154	0.128	1	1.78	0.009	0.27	<0.1	0.01	5.8	0.1	<0.05	6	<0.5	<0.2
ROS 149521	Soil	47	32	2.77	332	0.037	2	1.74	0.007	0.10	0.3	0.24	10.3	0.2	<0.05	6	1.2	<0.2
ROS 149519	Soil	9	17	0.92	206	0.044	1	3.71	0.011	0.09	0.3	0.05	5.7	<0.1	<0.05	16	<0.5	<0.2
ROS 149517	Soil	18	26	0.63	537	0.051	2	1.56	0.014	0.14	0.2	0.05	3.7	<0.1	<0.05	5	0.5	<0.2
ROS 149518	Soil	16	17	1.03	194	0.182	<1	1.81	0.010	0.46	0.1	0.02	4.0	0.3	<0.05	8	<0.5	<0.2
ROS 149520	Soil	21	24	0.63	162	0.035	2	1.41	0.014	0.13	0.2	0.14	5.7	<0.1	<0.05	5	0.5	<0.2
ROS 164995	Soil	8	12	0.86	155	0.120	<1	1.29	0.008	0.17	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 140533	Soil	13	28	0.48	248	0.064	1	1.40	0.017	0.05	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 159171	Soil	43	26	0.62	288	0.075	<1	1.80	0.012	0.14	0.1	0.05	4.5	0.1	<0.05	7	<0.5	<0.2
ROS 159173	Soil	41	22	1.03	207	0.156	2	1.89	0.018	0.54	0.2	0.04	5.4	0.4	<0.05	6	0.7	<0.2
ROS 166018	Soil	16	25	0.68	593	0.027	4	1.47	0.016	0.10	0.2	0.25	4.9	<0.1	<0.05	4	0.7	<0.2
ROS 159170	Soil	27	26	0.74	234	0.107	<1	1.85	0.013	0.29	0.1	0.02	5.5	0.2	<0.05	6	<0.5	<0.2
ROS 166017	Soil	17	24	0.50	299	0.053	2	1.45	0.016	0.09	0.2	0.08	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173364	Soil	19	26	0.51	340	0.053	2	1.31	0.020	0.07	0.2	0.08	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 173363	Soil	30	21	0.52	333	0.037	<1	1.74	0.011	0.12	0.1	0.11	4.0	<0.1	<0.05	5	0.6	0.3
ROS 141853	Soil	12	26	0.72	292	0.059	2	1.50	0.022	0.06	0.2	0.13	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 141854	Soil	12	30	1.52	207	0.046	1	1.42	0.017	0.06	0.2	0.16	5.1	<0.1	<0.05	4	0.5	<0.2
ROS 140535	Soil	19	11	0.50	585	0.008	2	0.99	0.012	0.10	0.2	0.35	2.0	<0.1	<0.05	3	0.8	<0.2
ROS 140534	Soil	19	12	0.47	532	0.011	2	1.03	0.012	0.11	0.2	0.30	2.2	<0.1	<0.05	3	0.7	<0.2
ROS 160531	Soil	38	23	0.69	212	0.123	<1	1.63	0.016	0.27	0.1	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
ROS 160536	Soil	55	8	1.75	122	0.216	<1	3.19	0.012	0.97	0.2	<0.01	6.2	0.6	<0.05	12	0.7	<0.2
ROS 160533	Soil	30	14	1.11	148	0.126	<1	2.01	0.009	0.84	<0.1	0.01	4.9	0.4	<0.05	9	<0.5	<0.2
ROS 160532	Soil	13	22	0.56	163	0.099	<1	1.48	0.016	0.22	0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2

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 Report Date: November 12, 2010

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 149527	Soil	0.2	48.9	4.6	59	0.2	20.7	9.9	456	1.95	2.5	2.1	1.7	1.5	56	0.2	0.3	<0.1	50	1.78	0.073
ROS 149515	Soil	0.6	29.9	8.9	67	0.2	17.5	8.9	369	2.25	5.7	0.9	3.3	2.3	52	0.1	0.9	0.2	49	1.04	0.059
ROS 149516	Soil	0.5	22.6	9.3	63	0.1	18.8	8.4	241	2.60	17.4	1.6	3.3	3.5	42	0.1	0.6	0.2	50	0.90	0.065
ROS 149514	Soil	0.5	33.7	8.8	62	0.1	21.3	9.1	442	2.30	6.9	1.1	2.7	2.7	50	0.2	0.9	0.2	51	1.07	0.052
ROS 149531	Soil	0.4	23.1	6.4	63	<0.1	19.1	9.3	382	2.57	6.3	0.5	7.5	4.0	21	<0.1	0.5	0.1	58	0.31	0.038
ROS 149534	Soil	0.2	38.7	6.5	68	<0.1	28.2	12.8	505	2.50	5.1	0.4	2.9	2.5	26	<0.1	0.3	<0.1	66	0.67	0.062
ROS 149538	Soil	0.3	39.9	3.9	84	<0.1	12.0	13.4	626	3.23	3.2	0.5	2.8	2.2	50	<0.1	0.2	<0.1	106	0.54	0.063
ROS 149532	Soil	0.5	17.3	7.1	53	<0.1	18.6	10.0	848	2.30	6.2	0.4	1.2	3.5	22	<0.1	0.5	0.1	51	0.33	0.031
ROS 173227	Soil	0.4	26.1	8.7	45	0.1	21.2	8.7	420	2.14	7.5	1.4	2.3	1.9	68	0.2	0.6	0.1	47	1.51	0.046
ROS 149536	Soil	0.3	34.7	5.2	72	<0.1	49.7	15.1	432	3.17	4.1	0.5	2.1	2.8	43	<0.1	0.3	<0.1	71	0.57	0.110
ROS 173231	Soil	0.5	24.1	11.2	49	<0.1	19.8	9.8	452	2.52	6.6	0.6	1.5	3.8	25	<0.1	0.4	0.1	56	0.46	0.021
ROS 173226	Soil	0.4	31.3	9.3	56	0.1	23.2	9.8	439	2.37	8.5	0.4	2.1	3.4	46	<0.1	0.5	0.1	55	1.60	0.044
ROS 173224	Soil	0.5	25.5	8.4	54	<0.1	19.4	7.6	339	2.05	10.6	0.7	1.7	1.5	53	0.2	0.6	0.1	43	1.64	0.065
ROS 173229	Soil	0.6	23.4	8.6	41	<0.1	22.7	9.3	381	2.44	8.8	0.5	4.8	3.4	32	<0.1	0.5	0.1	55	0.74	0.031
ROS 173230	Soil	0.5	31.3	8.4	48	<0.1	26.6	10.4	407	2.47	9.7	0.5	6.1	3.4	55	<0.1	0.6	0.1	53	1.53	0.028
ROS 149537	Soil	0.3	12.8	5.1	70	<0.1	17.2	13.3	356	2.41	4.2	0.3	3.2	2.0	23	<0.1	0.2	<0.1	66	0.37	0.033
ROS 173409	Soil	0.5	10.3	6.1	65	<0.1	5.7	7.5	620	3.22	3.4	1.5	0.7	23.3	23	<0.1	0.2	0.1	41	0.31	0.029
ROS 173416	Soil	0.4	8.1	3.9	35	<0.1	5.7	8.1	445	2.18	2.5	1.5	1.7	20.4	13	<0.1	0.2	<0.1	30	0.16	0.023
ROS 173411	Soil	0.5	17.4	5.8	85	<0.1	11.8	11.6	719	3.78	3.9	1.5	2.0	14.9	20	<0.1	0.3	<0.1	66	0.28	0.038
ROS 173406	Soil	0.6	10.6	6.9	83	<0.1	13.2	12.0	877	3.96	6.2	1.7	1.0	13.3	26	<0.1	0.3	0.1	71	0.24	0.044
ROS 164050	Soil	1.3	42.3	17.4	140	0.2	19.3	14.2	686	4.07	6.4	0.6	0.7	5.0	29	0.3	0.3	0.1	94	0.25	0.044
ROS 164049	Soil	1.6	43.4	4.3	179	<0.1	13.4	17.3	1065	5.81	2.1	1.2	1.1	5.7	26	0.3	0.1	<0.1	137	0.25	0.060
ROS 164048	Soil	0.8	33.0	8.3	73	0.1	21.3	10.1	470	2.83	7.9	0.9	2.0	4.8	28	0.2	0.5	0.1	61	0.39	0.033
ROS 160241	Soil	1.4	55.9	10.7	129	0.2	41.8	10.0	296	3.62	4.6	1.3	4.2	4.8	32	0.2	0.2	0.1	109	0.25	0.034
ROS 164034	Soil	0.7	19.7	5.2	42	<0.1	17.2	8.1	295	2.52	5.8	0.4	10.6	2.9	15	<0.1	0.4	<0.1	57	0.22	0.031
ROS 160248	Soil	1.7	178.5	7.5	68	0.3	23.0	9.9	257	3.67	3.6	2.1	2.8	9.2	32	<0.1	0.2	0.2	73	0.19	0.043
ROS 160247	Soil	2.0	169.8	7.3	137	0.2	25.2	20.8	745	4.21	3.6	0.9	1.2	4.7	33	0.3	0.2	0.2	52	0.20	0.052
ROS 160245	Soil	2.3	621.2	11.2	295	0.3	35.7	15.1	588	8.02	2.0	1.5	10.6	2.3	39	0.7	0.1	0.4	254	0.51	0.092
ROS 164037	Soil	0.5	18.0	4.3	45	<0.1	13.1	8.5	332	2.39	4.3	0.6	2.8	3.0	20	<0.1	0.3	<0.1	44	0.32	0.048
ROS 164033	Soil	0.7	26.9	6.2	53	<0.1	20.9	11.8	452	3.01	6.7	0.7	4.0	3.2	26	<0.1	0.4	0.1	56	0.36	0.039

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Project: ROS
 Report Date: November 12, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 149527	Soil	13	31	1.62	223	0.106	1	1.75	0.013	0.24	<0.1	0.07	4.4	0.2	<0.05	5	0.7	<0.2
ROS 149515	Soil	15	26	0.57	344	0.051	1	1.38	0.018	0.05	0.2	0.08	3.5	<0.1	<0.05	5	0.8	<0.2
ROS 149516	Soil	20	24	0.51	281	0.054	1	1.43	0.017	0.06	0.2	0.04	3.8	<0.1	<0.05	4	0.8	<0.2
ROS 149514	Soil	16	26	0.57	366	0.055	1	1.47	0.020	0.04	0.2	0.07	3.7	<0.1	<0.05	4	0.7	<0.2
ROS 149531	Soil	14	25	0.70	213	0.104	<1	1.37	0.013	0.25	0.2	0.02	6.6	0.1	<0.05	5	<0.5	<0.2
ROS 149534	Soil	10	44	1.81	249	0.144	1	2.04	0.019	0.32	0.1	0.02	4.6	0.1	<0.05	5	<0.5	<0.2
ROS 149538	Soil	7	18	1.74	309	0.231	<1	2.46	0.013	0.82	0.1	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2
ROS 149532	Soil	12	24	0.58	276	0.088	<1	1.41	0.014	0.12	0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173227	Soil	12	24	0.59	310	0.060	1	1.46	0.020	0.05	0.1	0.04	3.4	<0.1	<0.05	4	1.0	<0.2
ROS 149536	Soil	11	99	1.40	425	0.189	<1	2.24	0.011	0.78	<0.1	<0.01	3.2	0.2	<0.05	8	<0.5	<0.2
ROS 173231	Soil	16	27	0.77	236	0.089	<1	1.86	0.013	0.08	0.1	0.02	6.9	0.1	<0.05	5	<0.5	<0.2
ROS 173226	Soil	12	26	0.79	262	0.083	<1	1.64	0.024	0.08	0.1	0.09	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 173224	Soil	10	21	0.55	254	0.045	4	1.20	0.033	0.08	0.2	0.06	2.2	<0.1	0.06	4	<0.5	<0.2
ROS 173229	Soil	11	28	0.55	248	0.068	1	1.55	0.017	0.05	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	0.2
ROS 173230	Soil	13	27	0.57	268	0.074	1	1.44	0.029	0.06	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	0.2
ROS 149537	Soil	6	26	1.26	165	0.135	<1	1.81	0.009	0.39	<0.1	<0.01	5.1	0.2	<0.05	6	<0.5	0.2
ROS 173409	Soil	37	10	1.05	109	0.057	<1	2.13	0.007	0.52	<0.1	<0.01	4.2	0.2	<0.05	9	<0.5	<0.2
ROS 173416	Soil	15	9	0.44	102	0.100	<1	1.32	0.009	0.44	<0.1	<0.01	1.8	0.2	<0.05	5	<0.5	0.2
ROS 173411	Soil	35	17	1.04	164	0.201	<1	2.40	0.014	1.00	0.1	0.02	5.6	0.5	<0.05	9	<0.5	0.2
ROS 173406	Soil	27	20	0.94	210	0.188	<1	2.68	0.010	0.87	0.1	<0.01	4.0	0.5	<0.05	10	<0.5	<0.2
ROS 164050	Soil	9	31	1.31	165	0.180	<1	3.00	0.012	0.91	0.1	<0.01	3.1	0.3	<0.05	9	<0.5	0.2
ROS 164049	Soil	19	25	2.16	241	0.334	<1	3.62	0.013	2.08	<0.1	<0.01	2.8	0.8	<0.05	13	<0.5	<0.2
ROS 164048	Soil	16	30	0.61	226	0.102	<1	1.71	0.018	0.25	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160241	Soil	28	118	1.58	458	0.175	1	2.80	0.017	0.33	<0.1	<0.01	6.9	0.3	0.08	10	1.1	<0.2
ROS 164034	Soil	8	28	0.52	183	0.087	<1	1.50	0.013	0.06	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 160248	Soil	32	41	0.87	240	0.163	<1	2.12	0.015	0.60	<0.1	0.02	3.4	0.4	0.09	7	<0.5	<0.2
ROS 160247	Soil	17	20	0.67	289	0.203	<1	2.26	0.013	0.70	<0.1	0.02	2.8	0.4	<0.05	7	<0.5	<0.2
ROS 160245	Soil	13	25	1.60	587	0.213	<1	3.11	0.025	1.23	<0.1	0.03	11.5	0.7	0.05	12	1.4	<0.2
ROS 164037	Soil	10	19	0.49	194	0.078	<1	1.22	0.020	0.11	0.2	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 164033	Soil	12	32	0.69	268	0.110	1	1.80	0.020	0.13	0.2	0.03	4.1	0.1	<0.05	5	<0.5	0.3

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164036	Soil	0.5	17.9	4.0	46	<0.1	13.6	8.0	338	2.35	4.4	0.5	1.3	2.9	21	<0.1	0.3	<0.1	44	0.32	0.051
ROS 164035	Soil	0.5	20.6	6.0	47	<0.1	19.2	8.2	333	2.49	6.2	0.6	1.6	3.2	22	<0.1	0.4	0.1	50	0.30	0.038
ROS 160539	Soil	0.3	15.0	3.7	71	<0.1	6.6	10.1	603	3.58	2.4	1.8	1.7	19.7	47	<0.1	0.1	<0.1	58	0.55	0.049
ROS 160541	Soil	0.7	12.8	4.5	78	<0.1	7.8	12.5	726	4.46	3.8	1.3	<0.5	12.6	18	<0.1	0.2	0.1	62	0.22	0.023
ROS 160537	Soil	0.9	17.7	7.2	78	<0.1	17.0	10.5	645	4.11	8.2	1.0	0.6	8.2	27	<0.1	0.3	0.2	77	0.28	0.026
ROS 160534	Soil	0.6	20.9	7.0	63	<0.1	17.0	8.4	473	3.07	6.3	1.0	6.3	11.1	22	<0.1	0.4	0.1	56	0.23	0.021
ROS 160535	Soil	0.3	9.8	2.9	81	<0.1	7.1	9.5	1114	3.86	1.9	0.9	1.2	18.6	24	<0.1	0.1	<0.1	61	0.43	0.039
ROS 160538	Soil	0.5	13.0	3.7	70	<0.1	8.9	10.8	746	4.23	3.3	1.3	1.0	11.9	24	<0.1	0.2	<0.1	72	0.33	0.035
ROS 160540	Soil	1.2	12.2	6.2	72	<0.1	9.3	8.5	610	3.81	3.3	1.0	1.8	9.8	12	<0.1	0.3	0.1	70	0.14	0.039
ROS 160530	Soil	0.9	31.9	7.3	65	<0.1	17.2	9.5	584	3.04	8.0	2.6	1.5	9.0	27	<0.1	0.4	0.2	59	0.47	0.043
ROS 173415	Soil	0.7	15.5	5.8	61	<0.1	10.3	8.3	440	2.80	3.7	1.6	1.2	9.8	24	<0.1	0.2	0.1	51	0.33	0.040
ROS 173414	Soil	0.4	19.9	4.5	53	<0.1	10.0	7.9	431	2.84	3.0	1.9	1.7	10.7	27	<0.1	0.2	0.1	55	0.34	0.034
ROS 160915	Soil	1.0	23.5	3.4	90	<0.1	3.7	8.6	709	3.81	1.2	2.7	1.2	15.7	27	<0.1	0.1	0.2	53	0.33	0.053
ROS 160913	Soil	0.3	11.6	4.5	48	<0.1	5.2	5.7	332	2.28	1.4	1.5	1.5	10.5	22	<0.1	0.1	<0.1	40	0.22	0.015
ROS 160911	Soil	0.6	18.5	5.8	48	<0.1	10.8	6.7	362	2.76	3.4	2.3	1.5	12.3	24	<0.1	0.2	0.1	51	0.31	0.027
ROS 160917	Soil	0.8	22.3	11.5	61	<0.1	11.0	7.7	239	3.15	4.6	1.8	1.6	24.5	16	<0.1	0.6	0.2	40	0.28	0.048
ROS 173410	Soil	0.2	13.6	5.4	86	<0.1	5.5	11.6	945	4.53	1.5	1.8	1.1	20.8	28	<0.1	<0.1	<0.1	71	0.56	0.048
ROS 173413	Soil	0.3	12.8	3.0	69	<0.1	6.3	9.6	680	3.76	1.8	1.7	2.0	15.2	30	<0.1	0.1	<0.1	60	0.34	0.040
ROS 164081	Soil	0.6	15.9	5.0	46	<0.1	7.8	5.3	156	1.78	3.5	0.5	1.7	1.1	18	<0.1	0.2	0.1	39	0.18	0.042
ROS 163847	Soil	4.5	266.5	18.9	259	0.2	14.6	14.4	1102	5.02	4.2	2.0	2.2	5.3	46	0.2	0.2	0.9	105	0.48	0.060
ROS 160265	Soil	1.5	38.0	3.6	83	<0.1	14.2	16.0	898	4.93	3.6	1.3	0.9	7.6	56	<0.1	0.2	<0.1	114	0.33	0.061
ROS 163845	Soil	1.7	43.8	4.1	130	0.1	10.6	16.2	721	4.76	2.4	1.1	1.0	4.1	60	<0.1	0.1	<0.1	123	0.62	0.049
ROS 164077	Soil	1.8	66.5	6.2	80	0.6	17.4	15.0	584	3.75	4.5	2.1	2.7	5.2	39	<0.1	0.3	0.1	92	0.49	0.034
ROS 163848	Soil	5.1	272.7	24.5	331	0.2	14.4	19.2	1257	5.92	3.5	2.1	1.6	5.8	52	0.2	0.2	0.9	130	0.60	0.065
ROS 160255	Soil	1.5	54.6	5.6	96	0.2	32.8	18.3	1288	4.20	2.3	2.0	1.3	10.7	37	0.1	0.2	<0.1	97	0.64	0.048
ROS 160256	Soil	0.9	35.1	8.4	126	0.2	19.4	19.9	800	4.77	4.8	1.1	0.9	6.4	33	0.1	0.3	<0.1	115	0.41	0.034
ROS 159095	Soil	0.6	22.7	5.2	55	<0.1	16.0	9.6	489	3.07	4.7	1.9	9.4	11.5	28	0.1	0.3	0.1	66	0.33	0.053
ROS 160855	Soil	0.4	12.9	3.5	96	<0.1	8.9	8.9	933	3.57	4.2	1.7	<0.5	19.2	26	<0.1	0.2	<0.1	46	0.36	0.037
ROS 159099	Soil	0.8	24.8	6.7	51	0.1	15.8	7.7	266	2.28	7.0	1.7	13.4	3.8	28	0.2	0.4	0.1	50	0.37	0.061
ROS 159091	Soil	0.3	15.2	5.5	84	<0.1	11.1	10.6	841	4.19	4.6	2.0	0.7	20.4	16	<0.1	0.2	0.1	68	0.19	0.042

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Project: ROS
 Report Date: November 12, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164036	Soil	10	19	0.51	182	0.074	<1	1.29	0.021	0.11	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164035	Soil	11	26	0.54	262	0.093	<1	1.58	0.017	0.08	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160539	Soil	37	11	0.91	160	0.206	<1	2.52	0.019	1.01	<0.1	0.01	4.4	0.4	<0.05	9	<0.5	<0.2
ROS 160541	Soil	12	12	1.22	222	0.203	<1	2.64	0.011	1.34	<0.1	0.02	3.9	0.4	<0.05	10	<0.5	<0.2
ROS 160537	Soil	8	27	0.96	189	0.187	<1	2.49	0.010	0.87	0.2	0.01	4.7	0.3	<0.05	9	<0.5	<0.2
ROS 160534	Soil	41	24	0.71	125	0.132	<1	1.98	0.013	0.33	0.1	<0.01	3.8	0.2	<0.05	7	<0.5	<0.2
ROS 160535	Soil	57	9	1.82	121	0.213	<1	3.21	0.012	0.98	0.2	<0.01	5.8	0.6	<0.05	13	<0.5	<0.2
ROS 160538	Soil	12	13	1.16	154	0.257	<1	2.73	0.011	1.34	<0.1	<0.01	5.1	0.6	<0.05	12	<0.5	<0.2
ROS 160540	Soil	9	19	0.88	139	0.176	<1	2.27	0.013	0.93	0.2	0.02	4.7	0.4	<0.05	10	<0.5	<0.2
ROS 160530	Soil	32	26	0.69	229	0.117	<1	1.79	0.016	0.22	0.1	0.04	5.1	0.1	<0.05	6	<0.5	<0.2
ROS 173415	Soil	22	18	0.67	172	0.147	<1	1.64	0.016	0.49	<0.1	0.02	3.7	0.3	<0.05	6	<0.5	<0.2
ROS 173414	Soil	31	16	0.72	164	0.158	<1	1.74	0.014	0.54	0.1	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 160915	Soil	19	6	0.99	169	0.181	<1	2.24	0.014	1.18	0.1	0.01	5.0	0.4	<0.05	9	<0.5	<0.2
ROS 160913	Soil	20	9	0.54	145	0.123	<1	1.74	0.021	0.58	<0.1	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
ROS 160911	Soil	30	15	0.66	175	0.123	<1	1.84	0.012	0.52	<0.1	0.03	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 160917	Soil	27	14	0.33	105	0.046	<1	1.31	0.011	0.18	0.1	0.02	4.7	0.2	<0.05	5	<0.5	<0.2
ROS 173410	Soil	33	9	1.30	141	0.265	<1	3.40	0.011	1.43	0.2	<0.01	6.3	0.7	<0.05	13	<0.5	<0.2
ROS 173413	Soil	28	11	0.98	159	0.214	<1	2.31	0.012	1.15	<0.1	<0.01	5.0	0.5	<0.05	9	<0.5	<0.2
ROS 164081	Soil	8	17	0.44	96	0.081	2	1.14	0.011	0.13	0.1	0.03	1.6	<0.1	0.07	5	<0.5	<0.2
ROS 163847	Soil	13	33	1.55	263	0.187	<1	2.71	0.012	0.74	0.3	0.02	4.1	0.3	<0.05	9	1.0	<0.2
ROS 160265	Soil	16	21	1.88	291	0.258	<1	3.12	0.015	1.70	<0.1	<0.01	5.0	0.5	<0.05	11	<0.5	<0.2
ROS 163845	Soil	10	24	1.95	281	0.289	<1	3.25	0.020	1.60	<0.1	0.02	2.7	0.5	<0.05	10	0.5	<0.2
ROS 164077	Soil	30	24	1.06	265	0.175	<1	2.41	0.015	0.76	0.1	0.05	3.7	0.2	<0.05	8	<0.5	<0.2
ROS 163848	Soil	15	37	2.00	311	0.255	<1	3.33	0.014	1.19	0.2	0.02	4.6	0.5	<0.05	10	0.8	<0.2
ROS 160255	Soil	35	32	1.31	335	0.243	1	3.03	0.019	1.16	<0.1	0.01	4.1	0.4	<0.05	10	<0.5	<0.2
ROS 160256	Soil	16	24	1.60	296	0.232	1	3.20	0.010	1.31	0.1	0.01	6.2	0.3	<0.05	10	<0.5	<0.2
ROS 159095	Soil	22	56	0.79	175	0.141	<1	1.77	0.020	0.49	0.2	0.01	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 160855	Soil	32	11	1.29	114	0.185	<1	2.40	0.009	0.72	<0.1	<0.01	5.6	0.3	<0.05	9	<0.5	<0.2
ROS 159099	Soil	20	25	0.45	238	0.064	1	1.52	0.017	0.06	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159091	Soil	31	17	1.13	181	0.207	<1	2.49	0.008	1.30	0.1	<0.01	7.4	0.5	<0.05	10	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159093	Soil	0.4	7.6	4.2	69	<0.1	8.9	12.3	777	4.32	3.6	1.4	0.5	20.1	26	<0.1	0.2	<0.1	70	0.24	0.035
ROS 159094	Soil	0.4	17.1	6.1	96	<0.1	7.7	14.5	963	4.72	3.5	2.3	0.8	18.3	36	<0.1	0.2	0.2	69	0.24	0.041
ROS 159097	Soil	0.8	36.1	8.2	71	0.2	30.6	10.9	461	2.54	9.7	0.8	7.9	3.3	50	0.4	0.8	0.2	54	0.97	0.077
ROS 159092	Soil	0.4	10.0	4.7	71	<0.1	10.5	11.4	791	3.86	3.5	0.8	<0.5	10.0	26	<0.1	0.2	<0.1	65	0.27	0.038
ROS 163789	Soil	1.0	18.1	6.4	60	0.2	13.8	13.0	517	2.74	4.5	0.4	2.0	3.2	18	<0.1	0.3	0.1	69	0.20	0.025
ROS 163844	Soil	0.9	19.6	7.8	58	<0.1	23.1	10.5	362	3.06	10.0	0.6	5.0	5.0	22	<0.1	0.5	0.1	70	0.24	0.033
ROS 163842	Soil	0.6	22.6	4.5	83	<0.1	11.4	17.1	704	4.57	4.1	0.5	0.6	2.7	75	<0.1	0.2	<0.1	105	0.36	0.048
ROS 163787	Soil	1.2	40.2	4.0	90	<0.1	11.6	15.1	776	4.54	2.5	1.4	8.7	7.1	37	<0.1	0.1	<0.1	131	0.51	0.057
ROS 163786	Soil	0.8	44.9	4.9	117	<0.1	17.0	14.3	823	4.30	4.3	1.2	2.0	10.2	38	<0.1	0.3	<0.1	93	0.33	0.050
ROS 164600	Soil	1.0	18.3	6.2	54	<0.1	14.7	9.3	383	2.47	4.8	1.0	1.7	5.4	21	<0.1	0.4	0.1	58	0.22	0.020
ROS 163784	Soil	9.4	35.9	6.5	90	<0.1	15.6	14.4	868	4.39	6.4	1.4	2.0	8.1	25	<0.1	0.3	<0.1	114	0.26	0.052
ROS 163846	Soil	1.2	26.8	5.8	72	0.2	11.6	9.8	464	2.99	4.8	1.3	1.3	5.3	33	<0.1	0.3	0.1	69	0.44	0.051
ROS 163788	Soil	1.1	40.7	4.5	92	<0.1	12.0	16.1	807	4.66	2.7	1.4	1.3	7.2	40	<0.1	0.2	<0.1	132	0.51	0.053
ROS 163843	Soil	0.7	99.6	4.0	62	<0.1	15.0	11.9	501	3.77	5.5	0.7	4.3	5.5	29	<0.1	0.2	<0.1	77	0.22	0.043
ROS 160493	Soil	1.0	16.4	13.7	110	0.1	8.7	6.8	373	2.59	2.7	1.2	3.1	3.9	38	0.2	0.1	0.1	52	0.26	0.037
ROS 163785	Soil	1.0	22.0	7.2	64	<0.1	21.5	9.8	337	3.03	8.9	0.6	5.1	4.6	25	<0.1	0.5	0.1	70	0.22	0.023
ROS 164080	Soil	0.7	15.6	4.2	46	0.1	6.2	4.3	117	1.57	2.4	0.7	2.1	0.7	19	0.1	0.1	<0.1	23	0.18	0.061
ROS 164078	Soil	1.4	51.3	7.7	85	0.4	17.2	10.8	372	2.85	3.6	1.8	2.8	5.3	48	0.1	0.2	0.2	70	0.62	0.056
ROS 164082	Soil	0.8	20.8	6.7	60	<0.1	11.4	12.1	465	2.85	5.4	0.7	8.2	2.3	21	0.1	0.3	0.1	75	0.23	0.048
ROS 164079	Soil	0.7	11.9	4.3	50	0.1	4.8	3.9	152	1.65	2.2	0.7	4.0	1.2	20	<0.1	0.1	0.1	27	0.17	0.051



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159093	Soil	18	13	1.11	133	0.262	<1	2.52	0.008	1.43	0.2	<0.01	5.0	0.6	<0.05	10	<0.5	<0.2
ROS 159094	Soil	33	12	1.16	217	0.220	<1	2.62	0.012	1.66	<0.1	0.01	6.0	0.7	<0.05	10	<0.5	<0.2
ROS 159097	Soil	13	28	0.66	347	0.076	3	1.36	0.031	0.10	0.2	0.04	3.5	<0.1	0.05	4	0.7	<0.2
ROS 159092	Soil	15	13	1.09	185	0.227	1	2.43	0.013	1.14	0.2	0.01	4.3	0.6	<0.05	10	<0.5	<0.2
ROS 163789	Soil	9	26	0.77	181	0.134	1	1.68	0.014	0.44	0.1	<0.01	2.6	0.2	<0.05	5	<0.5	0.2
ROS 163844	Soil	11	34	0.59	184	0.117	2	1.83	0.013	0.28	0.2	0.01	3.8	0.1	<0.05	5	<0.5	0.2
ROS 163842	Soil	7	19	1.55	341	0.270	<1	3.29	0.017	1.58	0.1	<0.01	2.1	0.4	<0.05	9	<0.5	<0.2
ROS 163787	Soil	17	28	2.16	331	0.239	<1	3.34	0.021	1.61	<0.1	0.01	5.8	0.4	<0.05	9	<0.5	<0.2
ROS 163786	Soil	20	27	1.42	178	0.239	<1	2.85	0.016	1.33	0.1	<0.01	4.1	0.5	<0.05	9	<0.5	<0.2
ROS 164600	Soil	16	28	0.57	188	0.114	2	1.61	0.014	0.24	0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
ROS 163784	Soil	16	23	1.20	242	0.196	1	2.33	0.011	0.97	0.1	0.01	6.4	0.3	<0.05	9	<0.5	<0.2
ROS 163846	Soil	17	22	0.83	174	0.141	<1	1.89	0.020	0.46	0.1	0.02	3.5	0.2	<0.05	6	<0.5	<0.2
ROS 163788	Soil	17	29	2.23	342	0.257	<1	3.34	0.021	1.63	0.1	<0.01	6.0	0.4	<0.05	10	<0.5	<0.2
ROS 163843	Soil	15	21	1.13	169	0.212	1	2.62	0.013	1.09	0.1	<0.01	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 160493	Soil	16	16	0.80	142	0.139	<1	2.02	0.013	0.46	0.1	0.03	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 163785	Soil	12	29	0.75	125	0.136	1	1.90	0.013	0.38	<0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
ROS 164080	Soil	8	14	0.31	86	0.065	<1	1.11	0.010	0.15	<0.1	0.05	1.7	0.1	0.10	4	<0.5	<0.2
ROS 164078	Soil	27	25	0.85	303	0.141	1	2.20	0.015	0.42	0.1	0.05	3.7	0.2	0.05	7	<0.5	<0.2
ROS 164082	Soil	10	23	0.64	113	0.107	<1	1.79	0.011	0.14	0.2	0.02	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 164079	Soil	8	13	0.38	79	0.078	1	1.22	0.010	0.21	<0.1	0.04	1.6	0.1	0.10	4	<0.5	<0.2



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Project: ROS
 Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000612.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 164865	Soil	0.9	12.9	7.8	65	<0.1	6.7	7.0	883	3.03	2.7	1.9	0.6	26.4	13	<0.1	0.2	0.1	34	0.15	0.040
REP ROS 164865	QC	1.1	13.0	7.5	63	<0.1	5.7	6.3	852	2.85	2.5	1.8	2.0	25.3	12	<0.1	0.2	0.1	31	0.14	0.040
ROS 159116	Soil	1.3	14.0	12.8	72	0.1	8.4	7.2	322	2.73	5.4	1.9	0.8	4.5	43	0.3	0.3	0.2	61	0.19	0.049
REP ROS 159116	QC	1.4	15.3	13.5	75	<0.1	8.6	7.5	345	2.88	5.6	2.0	1.2	5.2	45	0.2	0.2	0.2	63	0.20	0.051
ROS 160499	Soil	4.6	74.4	49.3	100	0.3	28.1	9.9	330	4.00	5.0	2.0	1.3	5.9	22	0.1	0.3	0.9	65	0.08	0.061
REP ROS 160499	QC	4.5	71.3	49.0	95	0.3	27.1	9.9	326	3.99	4.9	2.0	1.4	5.9	20	0.2	0.3	0.9	68	0.08	0.060
ROS 164621	Soil	2.9	75.7	14.5	124	<0.1	39.2	14.4	398	3.89	2.9	1.3	0.6	4.2	51	0.2	0.2	0.4	82	0.18	0.050
REP ROS 164621	QC	2.8	73.8	14.7	126	<0.1	39.0	14.4	392	3.81	3.0	1.3	1.0	4.3	49	0.2	0.2	0.4	82	0.18	0.048
ROS 160394	Soil	0.7	26.8	8.3	91	<0.1	21.0	9.4	406	3.05	5.3	1.3	0.5	8.7	31	0.1	0.3	0.2	59	0.16	0.040
REP ROS 160394	QC	0.8	26.3	8.5	90	<0.1	22.0	9.1	397	3.07	5.3	1.3	1.8	8.7	30	0.1	0.3	0.2	59	0.16	0.042
ROS 151111	Soil	0.6	14.7	6.1	58	<0.1	14.9	7.5	259	2.37	5.5	0.4	8.2	2.2	23	<0.1	0.3	<0.1	52	0.31	0.033
REP ROS 151111	QC	0.5	14.3	6.2	57	<0.1	15.7	7.7	264	2.37	5.7	0.4	3.1	2.3	24	<0.1	0.3	<0.1	53	0.33	0.031
ROS 164152	Soil	1.5	15.9	7.2	61	0.2	9.2	9.0	469	2.69	6.3	1.0	<0.5	7.3	23	<0.1	0.3	0.2	56	0.19	0.037
REP ROS 164152	QC	1.5	15.5	7.1	62	0.2	9.8	9.4	473	2.68	6.1	1.0	1.5	7.2	23	<0.1	0.3	0.3	56	0.18	0.037
ROS 173062	Soil	0.4	32.1	2.5	84	<0.1	8.3	11.5	422	3.00	3.7	0.4	0.6	2.9	15	<0.1	0.2	<0.1	68	0.24	0.087
REP ROS 173062	QC	0.4	33.0	2.7	81	<0.1	7.9	10.6	426	2.96	3.9	0.4	1.2	3.0	15	<0.1	0.2	<0.1	67	0.25	0.084
ROS 166011	Soil	0.3	17.7	3.5	87	<0.1	10.6	10.0	563	2.94	3.2	0.3	2.2	4.0	15	<0.1	0.3	<0.1	58	0.36	0.047
REP ROS 166011	QC	0.3	18.2	3.7	88	<0.1	10.5	9.9	571	3.00	3.3	0.3	1.4	4.0	15	<0.1	0.3	<0.1	57	0.35	0.047
ROS 150999	Soil	0.6	33.7	9.5	59	<0.1	25.8	10.2	414	2.40	10.4	0.4	13.0	3.3	30	0.2	0.6	0.2	50	1.08	0.034
REP ROS 150999	QC	0.5	31.9	9.5	56	0.1	24.7	10.0	399	2.29	9.6	0.4	13.3	3.4	30	0.1	0.6	0.1	52	1.06	0.032
ROS 151365	Soil	0.6	26.1	8.3	47	<0.1	24.6	11.0	402	2.48	10.3	0.7	4.7	3.7	28	<0.1	0.6	0.2	59	0.74	0.029
REP ROS 151365	QC	0.6	25.7	8.0	46	<0.1	24.4	11.0	386	2.52	10.0	0.6	5.1	3.6	28	<0.1	0.5	0.1	59	0.71	0.030
ROS 159264	Soil	0.8	15.7	9.0	47	<0.1	14.6	6.5	173	2.23	6.4	1.2	3.8	7.1	25	<0.1	0.4	0.2	49	0.34	0.053
REP ROS 159264	QC	0.7	16.1	8.4	49	<0.1	14.8	6.4	176	2.28	6.3	1.1	2.1	7.1	25	<0.1	0.4	0.2	50	0.32	0.051
ROS 164148	Soil	0.7	21.3	4.2	142	<0.1	4.8	8.1	999	3.61	2.3	1.8	<0.5	9.2	78	0.1	0.2	<0.1	42	0.66	0.034
REP ROS 164148	QC	0.7	20.9	4.3	138	<0.1	5.0	8.0	984	3.57	2.3	1.8	<0.5	9.4	75	<0.1	0.2	<0.1	42	0.66	0.034
ROS 149521	Soil	1.0	41.3	11.9	88	0.1	57.2	11.5	1664	2.71	16.4	0.8	1.9	5.0	73	1.0	1.7	0.1	73	6.21	0.061
REP ROS 149521	QC	0.9	38.9	11.5	82	0.1	53.5	10.4	1607	2.59	15.4	0.8	1.6	5.0	73	1.0	1.5	0.1	70	6.68	0.063

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Project: ROS
Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000612.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 164865	Soil	36	9	0.45	150	0.087	2	1.79	0.007	0.48	0.1	<0.01	4.8	0.3	<0.05	7	<0.5	0.3
REP ROS 164865	QC	35	8	0.42	139	0.085	1	1.72	0.007	0.45	0.1	0.02	4.7	0.3	<0.05	7	<0.5	<0.2
ROS 159116	Soil	24	17	0.55	144	0.117	<1	1.89	0.009	0.28	<0.1	0.01	2.3	0.3	<0.05	8	0.5	0.4
REP ROS 159116	QC	25	17	0.57	153	0.114	<1	1.89	0.009	0.30	0.1	0.01	2.4	0.3	<0.05	9	0.7	0.4
ROS 160499	Soil	22	40	1.06	527	0.124	1	2.14	0.017	0.40	0.1	0.02	2.8	0.3	0.28	7	0.9	<0.2
REP ROS 160499	QC	20	40	1.05	474	0.123	1	2.12	0.017	0.39	0.1	0.02	2.9	0.2	0.25	7	0.8	<0.2
ROS 164621	Soil	16	86	1.50	991	0.204	<1	3.08	0.026	0.53	<0.1	<0.01	4.5	0.4	0.18	9	0.7	<0.2
REP ROS 164621	QC	16	83	1.47	1026	0.206	<1	3.02	0.019	0.53	<0.1	<0.01	4.5	0.4	0.17	8	<0.5	0.2
ROS 160394	Soil	26	30	0.76	336	0.152	<1	1.97	0.011	0.37	<0.1	0.02	2.4	0.2	0.10	6	<0.5	<0.2
REP ROS 160394	QC	26	30	0.74	335	0.148	<1	1.91	0.012	0.36	<0.1	0.01	2.4	0.2	0.09	6	<0.5	<0.2
ROS 151111	Soil	7	27	0.82	176	0.118	2	1.55	0.010	0.25	0.1	<0.01	2.1	0.1	<0.05	5	<0.5	0.3
REP ROS 151111	QC	7	28	0.84	177	0.121	1	1.60	0.010	0.26	0.1	0.01	2.3	0.1	<0.05	5	<0.5	<0.2
ROS 164152	Soil	19	21	0.53	159	0.123	<1	1.64	0.010	0.26	0.1	0.01	2.4	0.2	<0.05	7	<0.5	<0.2
REP ROS 164152	QC	19	20	0.53	158	0.119	<1	1.64	0.010	0.27	0.1	0.02	2.5	0.3	<0.05	6	0.5	<0.2
ROS 173062	Soil	6	10	1.05	118	0.236	<1	2.08	0.007	0.58	0.2	<0.01	3.0	0.5	<0.05	8	<0.5	0.2
REP ROS 173062	QC	6	11	1.01	115	0.235	<1	1.92	0.007	0.55	0.1	<0.01	3.2	0.4	<0.05	8	<0.5	<0.2
ROS 166011	Soil	16	17	1.18	197	0.134	<1	1.73	0.009	0.38	<0.1	0.02	8.8	0.2	<0.05	8	<0.5	<0.2
REP ROS 166011	QC	16	17	1.21	198	0.133	<1	1.79	0.009	0.36	0.1	0.02	8.7	0.2	<0.05	9	<0.5	<0.2
ROS 150999	Soil	13	26	0.74	241	0.049	<1	1.48	0.018	0.06	0.4	0.11	3.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 150999	QC	13	24	0.73	240	0.049	2	1.46	0.020	0.06	0.3	0.10	3.5	<0.1	<0.05	4	<0.5	0.3
ROS 151365	Soil	15	30	0.57	241	0.073	1	1.51	0.021	0.05	0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
REP ROS 151365	QC	14	29	0.55	242	0.069	<1	1.47	0.019	0.05	0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159264	Soil	21	25	0.47	188	0.075	1	1.53	0.015	0.07	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
REP ROS 159264	QC	21	25	0.48	180	0.075	2	1.54	0.010	0.07	0.1	0.02	3.3	<0.1	<0.05	5	0.6	<0.2
ROS 164148	Soil	25	8	1.52	155	0.173	<1	3.00	0.004	0.64	0.2	<0.01	2.9	0.4	<0.05	11	<0.5	<0.2
REP ROS 164148	QC	25	7	1.45	150	0.169	<1	2.90	0.003	0.63	0.2	<0.01	2.9	0.3	<0.05	11	0.5	<0.2
ROS 149521	Soil	47	32	2.77	332	0.037	2	1.74	0.007	0.10	0.3	0.24	10.3	0.2	<0.05	6	1.2	<0.2
REP ROS 149521	QC	44	31	2.89	310	0.036	1	1.64	0.006	0.09	0.2	0.26	9.6	0.2	<0.05	5	1.1	<0.2

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Project: ROS
Report Date: November 12, 2010

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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	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160531	Soil	1.0	29.0	7.9	72	<0.1	15.5	9.6	647	3.05	7.3	2.7	2.8	10.3	30	0.1	0.3	0.2	56	0.45	0.047
REP ROS 160531	QC	1.2	27.1	7.5	70	<0.1	15.7	9.2	627	2.99	6.9	2.6	3.6	10.3	28	<0.1	0.4	0.2	54	0.42	0.046
ROS 149537	Soil	0.3	12.8	5.1	70	<0.1	17.2	13.3	356	2.41	4.2	0.3	3.2	2.0	23	<0.1	0.2	<0.1	66	0.37	0.033
REP ROS 149537	QC	0.3	12.7	5.0	70	<0.1	17.2	13.5	368	2.46	4.4	0.3	1.2	2.1	22	<0.1	0.2	<0.1	67	0.36	0.034
ROS 160911	Soil	0.6	18.5	5.8	48	<0.1	10.8	6.7	362	2.76	3.4	2.3	1.5	12.3	24	<0.1	0.2	0.1	51	0.31	0.027
REP ROS 160911	QC	0.7	20.9	5.8	50	<0.1	10.7	7.5	375	2.84	3.9	2.2	2.5	12.1	26	<0.1	0.2	0.2	52	0.34	0.028
ROS 164077	Soil	1.8	66.5	6.2	80	0.6	17.4	15.0	584	3.75	4.5	2.1	2.7	5.2	39	<0.1	0.3	0.1	92	0.49	0.034
REP ROS 164077	QC	1.7	61.5	6.0	75	0.5	14.9	13.1	543	3.45	4.2	2.0	2.5	4.9	38	<0.1	0.3	0.1	85	0.44	0.031
ROS 163844	Soil	0.9	19.6	7.8	58	<0.1	23.1	10.5	362	3.06	10.0	0.6	5.0	5.0	22	<0.1	0.5	0.1	70	0.24	0.033
REP ROS 163844	QC	0.9	20.0	7.6	58	<0.1	21.0	10.3	360	2.92	9.7	0.6	2.2	5.0	23	<0.1	0.6	0.1	66	0.24	0.034
Reference Materials																					
STD DS7	Standard	17.9	103.7	64.0	357	0.9	51.3	8.4	580	2.21	46.6	4.6	62.3	4.6	69	6.0	5.7	4.4	79	0.87	0.067
STD DS7	Standard	21.6	111.0	70.9	372	1.0	54.6	9.3	624	2.33	49.0	5.1	72.4	5.0	72	6.5	5.9	4.5	88	0.94	0.075
STD DS7	Standard	18.7	99.6	62.6	365	0.9	53.5	8.9	568	2.20	45.2	4.2	67.5	4.1	62	4.8	5.1	4.2	80	0.86	0.068
STD DS7	Standard	19.8	115.0	66.8	390	1.0	55.1	9.4	614	2.34	50.1	4.6	68.0	4.4	71	6.2	5.7	4.2	85	0.92	0.078
STD DS7	Standard	20.4	112.2	68.5	405	0.9	56.0	9.3	642	2.40	51.1	4.7	58.4	4.7	68	5.7	5.6	4.3	85	0.93	0.074
STD DS7	Standard	20.2	98.1	66.1	374	0.9	51.8	9.0	595	2.31	48.4	4.8	82.2	4.6	72	5.6	5.7	4.4	82	0.88	0.071
STD DS7	Standard	19.0	105.1	66.3	400	1.0	53.9	9.5	611	2.28	51.9	4.8	75.5	4.3	68	6.5	6.0	4.5	78	0.93	0.075
STD DS7	Standard	19.5	101.6	67.5	378	0.9	52.2	8.6	589	2.26	49.4	4.7	67.7	4.5	79	5.6	6.0	4.6	80	0.91	0.071
STD DS7	Standard	19.7	102.4	67.6	381	1.0	51.2	8.7	604	2.25	48.4	4.7	73.0	4.5	71	5.8	6.1	4.7	80	0.89	0.073
STD DS7	Standard	21.0	115.6	60.8	394	1.0	57.3	9.3	658	2.50	53.3	4.3	72.0	4.3	73	6.5	5.9	4.2	87	1.00	0.082
STD DS7	Standard	21.0	112.1	72.9	431	1.2	57.7	9.4	660	2.52	52.8	5.1	119.5	4.7	73	6.3	6.5	5.1	85	0.95	0.077
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 12, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000612.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 160531	Soil	38	23	0.69	212	0.123	<1	1.63	0.016	0.27	0.1	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
REP ROS 160531	QC	35	22	0.67	206	0.120	<1	1.62	0.014	0.27	0.1	0.03	5.3	0.1	<0.05	6	<0.5	<0.2
ROS 149537	Soil	6	26	1.26	165	0.135	<1	1.81	0.009	0.39	<0.1	<0.01	5.1	0.2	<0.05	6	<0.5	0.2
REP ROS 149537	QC	6	27	1.24	158	0.136	<1	1.93	0.012	0.37	<0.1	<0.01	5.2	0.2	<0.05	6	<0.5	<0.2
ROS 160911	Soil	30	15	0.66	175	0.123	<1	1.84	0.012	0.52	<0.1	0.03	4.1	0.2	<0.05	6	<0.5	<0.2
REP ROS 160911	QC	31	17	0.66	191	0.134	<1	1.88	0.020	0.54	<0.1	0.03	4.7	0.2	<0.05	6	<0.5	0.3
ROS 164077	Soil	30	24	1.06	265	0.175	<1	2.41	0.015	0.76	0.1	0.05	3.7	0.2	<0.05	8	<0.5	<0.2
REP ROS 164077	QC	30	22	0.97	257	0.167	1	2.20	0.017	0.70	0.1	0.05	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 163844	Soil	11	34	0.59	184	0.117	2	1.83	0.013	0.28	0.2	0.01	3.8	0.1	<0.05	5	<0.5	0.2
REP ROS 163844	QC	11	34	0.58	183	0.112	2	1.79	0.011	0.26	0.9	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	185	0.98	366	0.116	34	0.98	0.088	0.45	3.4	0.21	2.5	3.9	0.16	5	2.9	1.6
STD DS7	Standard	14	200	1.04	401	0.128	37	1.03	0.098	0.47	3.6	0.21	2.6	3.9	0.19	4	2.6	1.6
STD DS7	Standard	12	193	0.96	356	0.108	33	0.89	0.089	0.43	3.4	0.19	2.4	3.7	0.22	5	3.0	1.6
STD DS7	Standard	13	196	1.06	411	0.125	40	1.04	0.102	0.50	3.4	0.20	2.5	4.0	0.18	5	3.0	1.1
STD DS7	Standard	12	197	1.03	395	0.120	38	1.00	0.096	0.49	3.5	0.22	2.3	4.1	0.16	5	3.1	1.8
STD DS7	Standard	12	187	0.99	381	0.117	35	1.02	0.095	0.45	3.5	0.20	2.6	4.0	0.19	5	3.2	0.8
STD DS7	Standard	12	181	1.02	396	0.117	36	1.00	0.096	0.52	3.5	0.21	2.3	3.8	0.18	5	3.0	1.3
STD DS7	Standard	13	179	0.99	384	0.122	36	1.00	0.097	0.45	3.3	0.21	2.4	3.8	0.18	5	3.6	1.3
STD DS7	Standard	12	177	1.01	377	0.118	41	0.98	0.095	0.45	3.4	0.20	2.5	4.0	0.17	4	2.9	0.9
STD DS7	Standard	13	202	1.09	428	0.133	44	1.09	0.106	0.51	4.0	0.24	2.8	4.5	0.21	6	3.9	1.0
STD DS7	Standard	13	194	1.08	430	0.124	40	1.02	0.097	0.52	4.2	0.24	2.2	4.3	0.21	5	3.4	1.0
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: ROS

Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000612.1

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



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Report Date: November 12, 2010

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QUALITY CONTROL REPORT

WHI10000612.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 18, 2010
Report Date: November 10, 2010
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI10000613.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS4
P.O. Number
Number of Samples: 76

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	76	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	76	Dry at 60C			WHI
1DX2	76	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 10, 2010

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

WHI10000613.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159096	Soil	0.8	29.7	7.1	67	<0.1	26.1	10.9	474	3.14	6.4	3.3	1.5	10.1	31	<0.1	0.4	0.1	64	0.41	0.063
ROS 159090	Soil	0.5	48.7	5.7	69	<0.1	15.0	11.8	747	3.74	3.8	1.0	<0.5	10.3	22	<0.1	0.2	<0.1	81	0.23	0.035
ROS 159088	Soil	0.7	12.6	7.3	61	<0.1	12.7	8.3	490	3.20	6.0	0.8	2.7	7.6	25	<0.1	0.4	0.1	56	0.21	0.050
ROS 159098	Soil	1.0	32.9	9.6	60	<0.1	24.8	10.9	415	2.69	10.8	0.7	2.4	3.8	40	0.2	0.8	0.2	55	0.60	0.055
ROS 163825	Soil	0.9	28.5	9.2	56	<0.1	23.8	9.6	323	2.79	9.4	1.4	1.6	8.3	18	<0.1	0.6	0.2	62	0.17	0.027
ROS 163827	Soil	0.8	32.2	6.7	55	<0.1	24.5	9.6	375	3.09	5.4	1.3	0.8	9.8	19	0.1	0.3	0.2	52	0.21	0.036
ROS 163829	Soil	0.8	46.8	8.6	91	0.2	44.4	14.9	676	3.84	3.0	0.7	<0.5	5.5	18	0.1	0.2	0.1	49	0.32	0.026
ROS 163818	Soil	1.2	84.1	7.6	96	0.3	23.6	10.7	372	3.98	3.9	1.5	0.8	5.6	27	0.2	0.2	0.2	80	0.20	0.042
ROS 163824	Soil	0.4	43.7	3.8	44	<0.1	39.3	16.9	456	3.62	4.0	0.8	1.7	9.4	13	<0.1	0.2	0.3	74	0.19	0.040
ROS 163820	Soil	0.8	203.0	7.7	119	0.2	43.6	15.2	297	4.75	3.8	1.7	<0.5	8.5	50	0.1	0.2	0.3	105	0.19	0.045
ROS 163822	Soil	1.0	24.3	8.6	59	<0.1	29.0	12.4	319	3.19	8.5	0.8	<0.5	7.4	18	<0.1	0.5	0.2	58	0.16	0.028
ROS 163819	Soil	0.9	70.2	7.1	131	<0.1	77.4	22.6	803	5.82	5.2	1.8	<0.5	13.0	11	0.2	0.3	0.1	112	0.21	0.077
ROS 163821	Soil	1.3	94.7	7.9	90	0.2	30.0	8.9	213	3.55	3.2	3.1	5.6	11.0	39	0.2	0.2	0.5	64	0.27	0.053
ROS 163823	Soil	0.6	39.3	6.4	75	<0.1	31.1	13.1	285	2.93	6.0	1.1	1.3	9.4	28	<0.1	0.3	0.2	50	0.16	0.021
ROS 163826	Soil	0.6	27.3	8.3	68	0.1	26.5	11.3	457	2.82	5.6	1.1	1.2	7.7	26	0.1	0.3	0.2	65	0.34	0.056
ROS 163828	Soil	0.6	22.6	6.3	45	<0.1	36.7	15.4	324	3.65	6.8	0.7	<0.5	12.8	28	<0.1	0.3	0.1	66	0.24	0.025
ROS 160280	Soil	0.6	14.1	5.0	44	0.1	5.8	4.2	170	1.45	2.3	1.0	<0.5	1.3	27	<0.1	0.1	<0.1	23	0.20	0.055
ROS 160276	Soil	1.7	50.8	5.3	94	<0.1	10.2	13.0	542	3.57	3.4	1.7	0.8	4.7	102	0.1	0.2	0.2	75	1.55	0.045
ROS 160271	Soil	1.0	41.9	6.5	109	<0.1	17.8	19.7	1128	4.89	2.7	1.3	<0.5	8.4	29	0.2	0.2	<0.1	101	0.46	0.080
ROS 160279	Soil	0.7	14.4	5.6	52	<0.1	6.5	5.4	227	2.13	3.0	0.7	1.1	2.2	29	0.1	0.1	<0.1	41	0.18	0.043
ROS 160283	Soil	0.4	15.4	4.7	44	0.1	6.6	5.3	159	1.58	3.2	0.6	0.8	1.3	20	<0.1	0.2	<0.1	29	0.21	0.053
ROS 160278	Soil	0.8	13.2	6.7	62	<0.1	5.7	4.8	243	2.09	3.0	0.9	<0.5	2.5	32	0.1	0.1	0.1	38	0.19	0.049
ROS 160277	Soil	0.8	11.9	7.0	83	<0.1	6.8	5.7	294	2.30	2.6	1.0	0.7	3.1	44	<0.1	0.1	0.1	42	0.23	0.051
ROS 160281	Soil	1.5	16.5	5.8	73	<0.1	6.9	6.5	342	2.76	3.3	0.8	<0.5	2.8	37	<0.1	0.1	0.2	59	0.21	0.044
ROS 160282	Soil	0.7	16.9	5.9	50	0.1	6.5	5.2	228	1.98	3.0	0.8	3.3	2.1	24	0.1	0.2	<0.1	39	0.19	0.048
ROS 160274	Soil	1.9	104.4	4.4	119	<0.1	9.9	19.8	881	5.82	2.2	0.8	<0.5	3.6	85	0.2	0.1	<0.1	142	0.33	0.048
ROS 160273	Soil	1.6	51.0	7.2	106	<0.1	15.9	19.9	1031	4.61	4.1	0.9	1.0	6.8	36	0.2	0.2	0.2	93	0.26	0.050
ROS 160261	Soil	1.1	22.5	5.5	87	<0.1	13.4	19.3	785	4.50	6.2	0.9	0.9	4.3	29	<0.1	0.3	0.1	101	0.37	0.062
ROS 163836	Soil	1.5	18.5	7.1	77	<0.1	14.8	13.5	383	3.30	6.8	1.2	0.7	9.0	60	<0.1	0.2	0.1	79	0.31	0.036
ROS 163833	Soil	0.6	42.3	26.2	274	<0.1	36.8	13.0	691	3.84	3.7	1.3	<0.5	10.1	32	0.2	0.1	0.2	58	0.32	0.042

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 10, 2010

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CERTIFICATE OF ANALYSIS

WHI10000613.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159096	Soil	22	37	0.83	239	0.128	1	1.58	0.019	0.38	0.2	0.03	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 159090	Soil	15	19	1.35	153	0.189	2	2.35	0.011	1.11	<0.1	<0.01	6.2	0.4	<0.05	9	<0.5	<0.2
ROS 159088	Soil	14	18	0.76	152	0.137	2	1.96	0.009	0.68	0.1	<0.01	3.8	0.3	<0.05	7	<0.5	<0.2
ROS 159098	Soil	12	28	0.64	304	0.068	1	1.52	0.027	0.08	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163825	Soil	22	37	0.61	153	0.087	2	1.72	0.010	0.11	0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 163827	Soil	29	31	1.01	208	0.174	2	1.78	0.013	0.63	0.1	0.01	3.1	0.4	<0.05	6	<0.5	<0.2
ROS 163829	Soil	11	49	1.24	124	0.214	<1	1.92	0.010	0.99	<0.1	<0.01	3.2	0.4	<0.05	8	<0.5	<0.2
ROS 163818	Soil	19	27	0.90	279	0.221	<1	2.21	0.015	0.82	<0.1	0.01	3.5	0.4	<0.05	8	<0.5	<0.2
ROS 163824	Soil	22	76	1.65	102	0.219	1	2.25	0.012	1.19	0.1	<0.01	5.7	0.6	<0.05	12	<0.5	0.2
ROS 163820	Soil	42	39	1.15	342	0.205	<1	2.67	0.023	0.85	<0.1	0.02	5.6	0.6	0.20	8	0.7	0.2
ROS 163822	Soil	13	40	0.78	196	0.142	1	1.89	0.013	0.37	0.1	0.01	2.8	0.3	<0.05	6	<0.5	<0.2
ROS 163819	Soil	32	77	1.62	355	0.347	1	3.20	0.019	1.76	0.1	0.01	6.9	0.8	<0.05	12	<0.5	<0.2
ROS 163821	Soil	34	38	0.95	223	0.132	<1	2.12	0.018	0.64	<0.1	0.02	4.1	0.4	0.12	7	<0.5	0.3
ROS 163823	Soil	23	33	0.82	217	0.130	<1	1.78	0.013	0.49	0.1	<0.01	3.6	0.3	<0.05	6	<0.5	0.2
ROS 163826	Soil	20	45	0.97	288	0.148	<1	1.69	0.013	0.36	0.1	0.01	4.3	0.2	<0.05	7	<0.5	<0.2
ROS 163828	Soil	21	50	1.65	135	0.235	1	2.87	0.012	0.93	0.1	<0.01	5.1	0.5	<0.05	11	<0.5	<0.2
ROS 160280	Soil	10	13	0.32	96	0.070	<1	1.19	0.010	0.23	<0.1	0.05	1.6	0.2	0.07	4	<0.5	<0.2
ROS 160276	Soil	16	17	1.08	234	0.141	<1	3.77	0.019	0.87	<0.1	0.01	2.2	0.3	<0.05	9	0.6	<0.2
ROS 160271	Soil	27	22	1.71	304	0.249	<1	3.19	0.021	1.78	0.1	0.02	4.4	0.6	<0.05	10	<0.5	<0.2
ROS 160279	Soil	10	14	0.57	101	0.125	1	1.57	0.009	0.35	0.1	0.04	1.9	0.2	0.05	6	<0.5	<0.2
ROS 160283	Soil	8	15	0.37	109	0.066	1	1.13	0.010	0.18	0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
ROS 160278	Soil	11	14	0.55	104	0.109	<1	1.50	0.009	0.38	0.1	0.05	2.3	0.2	0.07	6	<0.5	<0.2
ROS 160277	Soil	13	16	0.64	144	0.110	<1	1.72	0.011	0.42	<0.1	0.04	2.2	0.2	0.10	6	0.7	0.2
ROS 160281	Soil	12	15	0.78	123	0.140	<1	1.87	0.010	0.56	0.1	0.03	1.9	0.4	0.06	7	<0.5	<0.2
ROS 160282	Soil	10	16	0.55	102	0.096	<1	1.46	0.009	0.31	<0.1	0.04	2.2	0.2	0.06	5	<0.5	0.3
ROS 160274	Soil	12	17	2.07	525	0.323	<1	3.72	0.014	1.90	<0.1	0.01	2.7	0.5	<0.05	10	<0.5	<0.2
ROS 160273	Soil	17	24	1.40	272	0.239	<1	3.07	0.009	1.46	<0.1	0.01	3.4	0.6	<0.05	9	<0.5	<0.2
ROS 160261	Soil	11	20	1.36	342	0.245	<1	2.79	0.012	1.17	0.1	0.02	3.5	0.3	<0.05	7	<0.5	<0.2
ROS 163836	Soil	22	19	1.06	158	0.165	<1	2.49	0.014	0.62	0.1	0.01	4.0	0.3	<0.05	8	<0.5	<0.2
ROS 163833	Soil	27	52	1.54	174	0.260	<1	2.79	0.011	1.23	<0.1	<0.01	3.8	0.6	<0.05	11	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163832	Soil	0.8	699.3	246.8	5564	3.1	37.2	20.5	2167	4.33	7.3	0.8	6.0	3.9	22	18.2	0.6	5.2	40	0.75	0.068
ROS 163837	Soil	1.0	16.0	9.9	63	<0.1	21.0	9.6	371	2.84	9.1	0.7	1.0	5.2	27	0.2	0.5	0.2	61	0.28	0.051
ROS 163838	Soil	0.8	23.8	6.9	80	<0.1	14.0	7.7	451	3.04	5.9	1.6	10.0	10.4	25	0.1	0.4	0.1	59	0.28	0.049
ROS 163840	Soil	1.1	22.3	5.4	59	0.1	9.7	8.3	528	3.06	3.7	2.0	<0.5	11.9	43	<0.1	0.2	0.1	56	0.24	0.024
ROS 163834	Soil	1.0	29.6	7.5	76	<0.1	17.4	12.4	439	4.70	6.9	0.7	<0.5	4.5	72	<0.1	0.3	<0.1	98	0.23	0.044
ROS 163831	Soil	0.7	105.6	16.9	160	0.3	35.0	13.1	615	2.59	7.8	0.6	6.2	4.9	38	0.3	0.6	0.3	44	1.86	0.029
ROS 163830	Soil	0.6	59.3	10.5	126	<0.1	37.1	13.9	476	3.09	4.4	0.7	<0.5	3.2	29	0.1	0.3	0.2	66	0.40	0.043
ROS 163839	Soil	1.1	19.8	9.8	85	0.2	11.4	8.0	405	3.09	4.5	1.2	0.9	6.7	69	0.2	0.3	0.2	66	0.41	0.044
ROS 163841	Soil	1.4	37.2	7.0	50	<0.1	22.0	9.3	295	2.97	10.1	0.8	1.4	5.5	38	<0.1	0.5	0.1	71	0.25	0.027
ROS 163835	Soil	1.0	11.9	6.8	60	<0.1	13.9	10.9	256	3.30	6.5	1.2	2.5	6.9	34	<0.1	0.4	0.1	67	0.20	0.036
ROS 149556	Soil	0.8	28.3	9.5	65	0.3	21.1	8.9	379	2.43	8.3	0.6	5.4	3.4	36	0.2	1.7	0.2	47	0.97	0.063
ROS 164584	Soil	0.8	29.4	8.9	113	0.2	26.6	10.5	374	3.07	6.6	0.9	1.2	5.3	24	0.1	0.4	0.2	63	0.21	0.028
ROS 149551	Soil	0.7	65.0	29.0	140	0.3	12.8	10.7	563	3.22	7.4	0.9	2.1	7.9	34	0.2	1.2	0.2	53	0.38	0.035
ROS 164587	Soil	0.7	52.8	7.4	129	<0.1	31.0	10.3	675	4.27	2.4	2.4	1.8	14.7	64	<0.1	0.1	0.1	53	0.31	0.091
ROS 164586	Soil	0.6	14.3	19.6	96	0.1	63.3	11.7	539	2.21	4.0	0.4	1.1	2.7	26	0.1	0.2	0.1	58	0.47	0.100
ROS 164583	Soil	0.6	16.9	3.9	52	<0.1	31.0	12.0	432	3.38	3.5	1.2	<0.5	11.1	13	<0.1	0.2	0.2	51	0.18	0.055
ROS 164582	Soil	0.6	15.9	6.2	52	<0.1	31.0	12.4	381	3.51	7.1	0.7	1.4	7.6	23	<0.1	0.4	0.2	65	0.25	0.034
ROS 164585	Soil	0.8	22.9	9.7	78	0.2	27.7	11.6	837	2.80	7.1	0.4	1.1	3.7	24	0.1	0.5	0.1	60	0.29	0.048
ROS 164581	Soil	0.7	12.1	6.6	91	<0.1	26.9	14.6	425	3.13	4.2	0.6	1.2	3.8	15	0.2	0.3	0.2	69	0.17	0.058
ROS 164578	Soil	0.9	87.7	7.9	83	0.1	35.6	13.0	192	4.03	3.0	1.8	2.2	11.8	39	0.1	0.2	0.4	62	0.17	0.058
ROS 164580	Soil	1.1	66.1	7.7	200	<0.1	147.0	21.1	513	4.02	4.7	2.3	1.9	8.8	51	0.3	0.3	0.2	101	0.41	0.086
ROS 164762	Soil	1.3	10.5	7.0	71	0.1	10.9	7.5	349	2.84	4.0	1.3	1.1	8.6	31	<0.1	0.3	0.3	53	0.16	0.041
ROS 164760	Soil	0.8	13.5	6.8	53	<0.1	16.4	8.9	275	2.85	6.8	0.6	4.0	5.3	24	<0.1	0.4	0.1	62	0.17	0.027
ROS 164579	Soil	1.8	56.3	12.5	145	0.2	54.7	11.9	331	3.64	2.5	1.4	2.3	7.3	61	0.2	0.2	0.5	69	0.36	0.055
ROS 164764	Soil	0.9	16.3	7.7	52	<0.1	21.3	9.7	308	2.80	8.3	0.6	3.5	5.2	22	<0.1	0.5	0.1	66	0.19	0.040
ROS 164759	Soil	0.3	23.8	6.8	85	<0.1	10.1	10.1	549	3.79	3.8	1.4	1.7	14.3	710	<0.1	0.2	<0.1	63	0.64	0.024
ROS 164577	Soil	0.9	121.5	6.6	84	0.1	39.8	13.8	280	4.36	3.6	2.0	1.7	12.9	54	<0.1	0.2	0.3	71	0.23	0.065
ROS 164758	Soil	4.7	144.3	11.3	205	0.2	9.7	8.3	780	4.86	4.4	3.6	2.6	17.7	51	0.1	0.2	0.9	70	0.17	0.030
ROS 164576	Soil	1.0	61.9	7.4	51	0.2	18.5	8.0	177	3.14	3.9	1.7	2.8	7.8	30	<0.1	0.2	0.3	61	0.18	0.030
ROS 164761	Soil	0.7	21.3	4.4	47	<0.1	7.8	11.3	291	2.68	3.0	2.8	2.4	17.6	81	<0.1	0.2	0.1	45	0.90	0.019

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 163832	Soil	12	30	0.46	101	0.054	<1	1.24	0.011	0.09	<0.1	0.13	4.2	<0.1	<0.05	4	0.9	<0.2
ROS 163837	Soil	11	33	0.54	230	0.085	1	1.79	0.011	0.16	0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 163838	Soil	15	19	0.96	176	0.141	<1	1.93	0.010	0.63	0.1	0.02	4.4	0.3	<0.05	7	<0.5	<0.2
ROS 163840	Soil	23	14	0.80	158	0.166	<1	1.89	0.015	0.70	<0.1	0.02	3.8	0.4	<0.05	7	<0.5	<0.2
ROS 163834	Soil	8	26	1.31	162	0.210	<1	3.15	0.011	1.23	<0.1	0.01	3.4	0.5	<0.05	9	<0.5	0.4
ROS 163831	Soil	18	31	0.60	144	0.075	<1	1.58	0.012	0.05	<0.1	0.09	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163830	Soil	10	30	0.75	115	0.106	<1	1.42	0.008	0.38	<0.1	0.01	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 163839	Soil	17	17	0.86	147	0.161	<1	2.37	0.017	0.75	0.1	0.02	2.9	0.3	<0.05	7	<0.5	<0.2
ROS 163841	Soil	16	31	0.71	188	0.107	1	2.05	0.011	0.25	0.1	0.03	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 163835	Soil	23	22	0.84	152	0.136	1	2.24	0.011	0.60	<0.1	0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 149556	Soil	13	23	0.50	399	0.040	2	1.26	0.017	0.08	0.2	0.09	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 164584	Soil	15	39	0.90	218	0.144	1	1.85	0.010	0.55	0.2	0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 149551	Soil	14	23	0.81	255	0.049	<1	1.99	0.008	0.17	0.2	0.06	2.9	<0.1	<0.05	6	0.9	<0.2
ROS 164587	Soil	66	52	1.38	286	0.288	<1	2.68	0.011	1.56	<0.1	<0.01	3.2	0.7	0.18	9	<0.5	<0.2
ROS 164586	Soil	12	84	1.02	201	0.112	<1	1.62	0.012	0.34	0.1	0.02	2.9	0.1	<0.05	6	<0.5	0.2
ROS 164583	Soil	21	42	1.26	226	0.246	<1	2.08	0.009	1.25	0.1	<0.01	3.5	0.5	<0.05	8	<0.5	<0.2
ROS 164582	Soil	15	43	0.99	249	0.183	<1	2.04	0.009	0.86	0.1	0.02	3.5	0.4	<0.05	8	<0.5	<0.2
ROS 164585	Soil	10	35	0.66	272	0.097	1	1.76	0.011	0.17	<0.1	0.02	3.0	0.1	<0.05	6	<0.5	<0.2
ROS 164581	Soil	10	42	0.84	185	0.139	<1	2.31	0.010	0.37	0.1	0.02	2.9	0.2	<0.05	9	<0.5	<0.2
ROS 164578	Soil	33	48	1.06	197	0.167	1	2.80	0.011	0.91	<0.1	0.01	3.1	0.6	0.05	7	<0.5	<0.2
ROS 164580	Soil	28	108	1.87	600	0.175	1	2.33	0.013	0.45	0.2	0.03	4.6	0.2	0.05	7	<0.5	<0.2
ROS 164762	Soil	17	18	0.51	205	0.074	<1	1.74	0.012	0.21	<0.1	0.01	2.6	0.2	0.07	6	<0.5	<0.2
ROS 164760	Soil	9	26	0.62	142	0.111	<1	1.98	0.011	0.34	<0.1	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2
ROS 164579	Soil	21	65	1.18	600	0.173	<1	2.96	0.016	0.83	<0.1	0.01	3.9	0.5	0.08	8	<0.5	<0.2
ROS 164764	Soil	10	30	0.56	158	0.085	1	2.01	0.008	0.19	0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
ROS 164759	Soil	43	9	1.30	297	0.211	<1	3.58	0.017	1.21	<0.1	<0.01	4.6	0.5	<0.05	12	<0.5	<0.2
ROS 164577	Soil	28	51	1.01	260	0.175	<1	2.76	0.016	0.91	<0.1	0.01	3.0	0.7	0.09	8	<0.5	0.3
ROS 164758	Soil	41	10	1.29	162	0.188	<1	2.81	0.016	0.82	<0.1	0.02	5.9	0.7	0.08	10	0.8	0.4
ROS 164576	Soil	23	37	0.78	244	0.132	<1	2.14	0.014	0.48	<0.1	0.02	2.7	0.3	0.15	6	<0.5	<0.2
ROS 164761	Soil	70	9	0.75	100	0.124	<1	3.18	0.048	0.47	<0.1	0.02	3.5	0.3	0.06	8	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164766	Soil	0.8	32.7	4.9	129	<0.1	9.7	12.3	907	5.43	4.5	2.1	1.0	9.2	21	<0.1	0.2	0.1	134	0.16	0.044
ROS 164768	Soil	0.9	22.1	5.6	82	<0.1	14.2	13.4	531	3.66	5.3	0.7	1.0	4.3	23	<0.1	0.3	0.1	88	0.22	0.033
ROS 164763	Soil	0.9	14.0	7.1	60	<0.1	18.4	9.2	292	3.03	8.5	1.0	0.6	7.6	25	<0.1	0.4	0.1	67	0.22	0.049
ROS 164765	Soil	0.8	24.2	6.8	66	<0.1	17.7	13.0	501	3.73	8.0	0.8	2.2	4.3	18	<0.1	0.4	0.1	90	0.18	0.040
ROS 149559	Soil	0.5	24.0	8.5	69	0.1	18.0	8.8	381	2.36	6.7	0.9	4.3	2.6	44	0.2	1.4	0.1	50	1.21	0.069
ROS 149558	Soil	0.4	23.7	7.3	53	0.1	19.7	8.7	371	2.09	7.1	1.0	3.9	2.2	44	0.2	1.2	0.1	47	1.45	0.058
ROS 149560	Soil	0.6	24.3	8.6	53	0.1	20.7	8.9	338	2.31	7.9	0.8	3.8	2.6	42	0.1	1.1	0.1	53	1.10	0.052
ROS 149552	Soil	0.9	19.1	9.6	79	0.1	15.9	8.9	363	3.25	7.6	0.9	3.3	11.0	22	<0.1	1.5	0.1	70	0.27	0.037
ROS 149553	Soil	1.0	29.0	21.1	89	0.3	25.1	10.5	470	2.88	9.9	0.6	4.1	5.9	32	0.3	2.2	0.2	48	3.48	0.075
ROS 149550	Soil	0.8	10.8	8.6	90	<0.1	17.1	9.9	336	2.57	4.6	0.5	1.8	3.8	29	0.1	0.5	0.1	67	0.31	0.051
ROS 149557	Soil	0.6	23.5	8.8	60	0.1	20.5	9.7	374	2.28	7.2	1.1	5.3	2.7	51	0.2	1.1	0.1	52	1.31	0.058
ROS 149554	Soil	0.7	38.9	12.0	76	0.1	31.0	11.0	464	2.99	10.3	0.6	4.0	4.8	31	0.3	1.1	0.2	66	1.20	0.054
ROS 149555	Soil	0.5	34.8	10.4	63	0.1	25.8	9.6	389	2.58	8.5	1.0	4.2	4.0	39	0.2	0.9	0.2	52	1.15	0.052
ROS 149561	Soil	0.6	27.8	10.3	58	0.2	19.7	9.9	471	2.39	7.2	1.2	11.0	3.2	43	<0.1	1.1	0.2	50	1.01	0.049
ROS 164769	Soil	0.8	14.6	8.1	57	<0.1	16.4	10.2	476	2.50	4.9	0.4	1.3	3.3	21	0.1	0.4	0.1	55	0.19	0.030
ROS 164767	Soil	0.7	16.4	7.6	71	<0.1	17.7	9.7	410	2.81	5.4	0.5	0.6	4.4	23	<0.1	0.4	0.1	59	0.22	0.029



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Project: ROS
 Report Date: November 10, 2010

Page: 4 of 4 Part 2

CERTIFICATE OF ANALYSIS

WHI10000613.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 164766	Soil	24	17	1.83	380	0.269	<1	2.71	0.009	1.76	<0.1	0.01	10.7	0.5	0.05	12	<0.5	<0.2
ROS 164768	Soil	12	21	1.22	194	0.181	<1	2.39	0.013	0.91	0.1	<0.01	2.8	0.3	<0.05	7	<0.5	<0.2
ROS 164763	Soil	14	29	0.64	176	0.100	<1	2.30	0.009	0.38	0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 164765	Soil	11	27	1.03	198	0.174	<1	2.33	0.011	0.80	0.1	0.02	4.1	0.2	<0.05	7	0.6	<0.2
ROS 149559	Soil	14	30	0.58	323	0.049	3	1.40	0.019	0.07	0.3	0.09	3.2	<0.1	0.05	4	<0.5	<0.2
ROS 149558	Soil	12	23	0.45	370	0.050	2	1.33	0.017	0.06	0.1	0.07	2.9	<0.1	0.09	4	0.5	<0.2
ROS 149560	Soil	12	26	0.48	310	0.054	2	1.41	0.020	0.06	0.2	0.06	3.2	<0.1	0.06	4	<0.5	<0.2
ROS 149552	Soil	23	28	0.70	191	0.027	<1	2.11	0.008	0.07	0.3	0.04	4.0	<0.1	<0.05	8	<0.5	<0.2
ROS 149553	Soil	19	28	0.42	423	0.043	3	1.56	0.016	0.12	0.5	0.35	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 149550	Soil	10	32	0.49	259	0.074	<1	1.87	0.011	0.09	0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 149557	Soil	13	25	0.47	436	0.057	2	1.44	0.019	0.08	0.2	0.08	3.2	<0.1	0.09	4	<0.5	<0.2
ROS 149554	Soil	19	34	0.67	408	0.076	1	1.87	0.020	0.09	0.2	0.13	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 149555	Soil	14	28	0.62	361	0.058	2	1.44	0.024	0.06	0.2	0.07	3.8	<0.1	<0.05	5	0.6	<0.2
ROS 149561	Soil	15	26	0.50	342	0.057	2	1.41	0.019	0.06	0.2	0.06	3.4	<0.1	<0.05	5	0.8	<0.2
ROS 164769	Soil	9	27	0.50	197	0.095	1	1.49	0.014	0.22	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164767	Soil	10	25	0.64	187	0.115	1	1.68	0.011	0.33	0.1	<0.01	2.9	0.2	<0.05	5	0.5	<0.2



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Project: ROS
Report Date: November 10, 2010

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

WHI10000613.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
ROS 159090	Soil	0.5	48.7	5.7	69	<0.1	15.0	11.8	747	3.74	3.8	1.0	<0.5	10.3	22	<0.1	0.2	<0.1	81	0.23	0.035
REP ROS 159090	QC	0.5	48.1	5.6	72	<0.1	15.2	12.0	722	3.67	4.3	0.9	<0.5	10.2	22	<0.1	0.2	<0.1	81	0.23	0.036
ROS 160271	Soil	1.0	41.9	6.5	109	<0.1	17.8	19.7	1128	4.89	2.7	1.3	<0.5	8.4	29	0.2	0.2	<0.1	101	0.46	0.080
REP ROS 160271	QC	0.9	40.6	6.6	108	<0.1	17.6	19.5	1154	4.81	2.5	1.3	1.1	8.3	29	0.2	0.1	<0.1	99	0.46	0.077
ROS 164760	Soil	0.8	13.5	6.8	53	<0.1	16.4	8.9	275	2.85	6.8	0.6	4.0	5.3	24	<0.1	0.4	0.1	62	0.17	0.027
REP ROS 164760	QC	0.8	12.7	6.9	50	<0.1	15.5	8.0	266	2.76	6.4	0.7	0.8	5.0	24	<0.1	0.4	0.2	61	0.16	0.027
ROS 164764	Soil	0.9	16.3	7.7	52	<0.1	21.3	9.7	308	2.80	8.3	0.6	3.5	5.2	22	<0.1	0.5	0.1	66	0.19	0.040
REP ROS 164764	QC	0.9	15.8	7.5	51	<0.1	21.5	9.8	301	2.81	7.9	0.6	3.1	5.2	20	<0.1	0.5	0.1	64	0.18	0.038
Reference Materials																					
STD DS7	Standard	21.5	113.2	73.4	390	1.0	53.5	9.3	635	2.41	50.4	5.3	70.0	5.0	75	6.3	6.0	4.9	84	0.92	0.074
STD DS7	Standard	21.4	110.4	69.9	398	0.9	57.9	9.1	640	2.41	51.0	5.1	72.2	4.6	74	6.3	6.3	4.8	84	0.95	0.079
STD DS7	Standard	19.8	97.7	63.9	385	1.0	53.6	9.1	620	2.37	52.9	4.6	79.3	4.5	69	6.6	6.2	4.6	86	0.94	0.081
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
Report Date: November 10, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI10000613.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 159090	Soil	15	19	1.35	153	0.189	2	2.35	0.011	1.11	<0.1	<0.01	6.2	0.4	<0.05	9	<0.5	<0.2
REP ROS 159090	QC	15	19	1.34	153	0.198	<1	2.37	0.014	1.11	0.1	<0.01	6.3	0.4	<0.05	9	<0.5	<0.2
ROS 160271	Soil	27	22	1.71	304	0.249	<1	3.19	0.021	1.78	0.1	0.02	4.4	0.6	<0.05	10	<0.5	<0.2
REP ROS 160271	QC	26	22	1.63	294	0.248	<1	3.14	0.021	1.73	0.1	0.02	4.4	0.6	<0.05	10	<0.5	<0.2
ROS 164760	Soil	9	26	0.62	142	0.111	<1	1.98	0.011	0.34	<0.1	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2
REP ROS 164760	QC	9	25	0.60	137	0.108	<1	1.88	0.010	0.32	<0.1	0.01	2.4	0.2	<0.05	5	<0.5	<0.2
ROS 164764	Soil	10	30	0.56	158	0.085	1	2.01	0.008	0.19	0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
REP ROS 164764	QC	10	30	0.54	163	0.088	<1	1.89	0.008	0.19	0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	14	195	1.02	405	0.125	40	1.00	0.093	0.45	3.7	0.20	2.4	4.3	0.19	5	3.4	1.2
STD DS7	Standard	13	189	1.08	402	0.120	39	1.06	0.098	0.48	3.6	0.20	2.6	4.4	0.21	5	3.5	1.7
STD DS7	Standard	13	193	1.07	415	0.119	38	1.06	0.099	0.49	3.6	0.22	2.5	3.9	0.22	5	3.1	1.5
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 26, 2010
Report Date: November 22, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000630.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS5
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

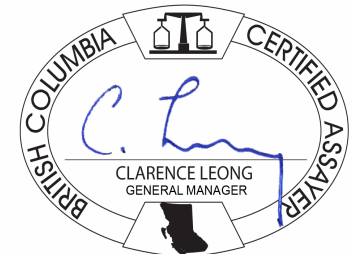
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 22, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000630.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 173292	Soil	0.7	18.3	7.9	66	<0.1	12.2	8.0	252	2.43	6.3	0.6	3.0	4.3	17	<0.1	0.5	0.2	46	0.31	0.020
ROS 173293	Soil	0.4	30.3	8.7	48	0.1	24.9	9.2	285	2.49	10.2	0.6	7.3	3.6	30	<0.1	0.5	0.1	52	0.61	0.055
ROS 173294	Soil	1.6	25.3	15.4	26	0.7	13.9	5.7	108	1.71	4.3	0.7	123.4	9.5	22	<0.1	0.5	0.3	28	0.38	0.019
ROS 173296	Soil	0.6	29.1	14.5	67	<0.1	21.3	9.8	411	2.43	7.3	1.3	7.1	4.5	27	<0.1	0.6	0.1	51	0.58	0.041
ROS 173295	Soil	0.9	42.2	14.8	53	0.3	21.4	8.8	343	2.23	7.9	0.7	35.7	3.9	40	0.1	0.7	0.2	43	1.01	0.055
ROS 152584	Soil	0.6	27.1	8.8	47	<0.1	24.7	10.3	407	2.54	10.0	0.8	7.2	4.2	30	<0.1	0.6	0.1	57	0.53	0.053
ROS 151327	Soil	0.8	44.0	8.8	93	<0.1	21.7	14.3	425	3.45	12.3	0.7	1.5	3.8	70	<0.1	1.2	<0.1	92	0.81	0.073
ROS 173304	Soil	1.0	28.9	10.3	68	0.2	19.5	9.8	500	2.56	7.8	0.6	8.1	3.5	39	0.2	1.0	0.2	54	0.92	0.058
ROS 173302	Soil	0.7	22.9	10.2	71	0.1	20.1	9.5	431	2.40	7.8	0.7	9.5	2.9	35	0.2	0.6	0.1	52	1.04	0.071
ROS 173297	Soil	0.7	29.9	15.4	81	0.1	19.2	9.7	405	2.51	7.6	0.8	14.4	3.7	36	0.2	0.6	0.2	55	1.09	0.047
ROS 152633	Soil	0.5	34.0	8.4	53	0.1	24.1	9.3	315	2.48	11.0	0.6	3.5	2.8	32	0.2	0.7	0.1	55	1.24	0.070
ROS 152635	Soil	0.5	30.6	7.8	54	0.1	26.4	10.2	476	2.35	9.5	0.8	4.7	3.0	37	0.2	0.8	0.1	53	1.29	0.074
ROS 152634	Soil	0.5	31.2	7.4	52	<0.1	23.6	9.4	513	2.09	8.6	1.3	3.4	2.2	54	0.4	0.8	0.1	48	1.95	0.073
ROS 152632	Soil	0.6	29.4	8.4	56	<0.1	25.1	9.1	328	2.34	9.6	0.8	2.8	2.8	39	0.2	0.7	0.1	54	1.63	0.067
ROS 152631	Soil	0.5	27.5	8.2	56	<0.1	21.6	9.0	331	2.31	9.0	0.5	4.8	2.5	36	0.2	0.6	0.1	49	1.59	0.062
ROS 152630	Soil	0.5	24.4	7.1	55	<0.1	21.0	9.1	344	2.05	7.2	1.3	3.9	1.8	44	0.2	0.6	0.1	46	1.79	0.064
ROS 159688	Soil	0.8	21.3	6.8	51	<0.1	16.0	9.6	395	3.02	6.8	0.9	1.1	7.7	26	<0.1	0.3	0.1	62	0.31	0.025
ROS 159692	Soil	1.2	34.8	8.9	64	<0.1	25.1	10.2	373	3.00	8.1	0.9	5.7	6.9	34	<0.1	0.6	0.2	66	0.42	0.053
ROS 159697	Soil	1.1	22.9	8.2	49	<0.1	18.6	7.8	277	2.44	6.8	1.3	2.6	5.1	30	<0.1	0.4	0.1	54	0.37	0.040
ROS 159691	Soil	0.9	18.7	6.8	46	<0.1	14.7	7.5	234	2.33	5.7	0.7	1.5	4.9	24	<0.1	0.4	0.1	58	0.26	0.020
ROS 159686	Soil	0.8	15.6	6.2	68	<0.1	12.0	10.8	531	3.73	4.6	1.1	0.8	6.5	23	<0.1	0.2	0.1	66	0.29	0.041
ROS 159701	Soil	0.9	34.0	8.8	73	0.1	21.3	9.8	430	2.86	6.6	1.5	3.2	6.3	43	0.1	0.4	0.2	61	0.75	0.070
ROS 159703	Soil	0.9	14.6	6.9	62	<0.1	15.9	8.6	470	2.81	6.1	1.2	1.1	13.7	20	<0.1	0.2	<0.1	51	0.32	0.048
ROS 159706	Soil	1.2	21.1	6.7	52	0.1	12.7	12.2	633	2.50	5.1	2.4	1.3	6.2	55	<0.1	0.3	<0.1	49	0.91	0.081
ROS 159704	Soil	0.8	13.9	6.3	60	<0.1	15.3	8.6	489	2.81	6.8	1.2	1.5	14.2	20	<0.1	0.3	<0.1	50	0.32	0.052
ROS 159698	Soil	0.7	20.0	6.7	97	<0.1	13.6	7.3	312	2.41	4.9	1.2	1.4	5.1	31	<0.1	0.3	0.1	46	0.33	0.045
ROS 159702	Soil	0.7	24.1	6.6	48	<0.1	16.6	8.4	484	2.11	5.1	2.0	1.4	3.4	64	0.2	0.4	0.1	43	1.36	0.067
ROS 159705	Soil	0.7	12.4	4.8	50	<0.1	9.4	8.5	615	2.17	4.7	1.0	<0.5	5.9	42	<0.1	0.2	<0.1	43	0.75	0.080
ROS 159240	Soil	1.2	30.0	10.1	63	<0.1	22.3	10.1	345	2.92	7.5	0.9	3.3	9.9	22	0.1	0.5	0.2	58	0.27	0.026
ROS 159241	Soil	0.9	28.6	9.6	58	<0.1	26.7	9.5	399	2.72	9.8	1.1	5.2	8.5	21	<0.1	0.6	0.2	56	0.30	0.039

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 173292	Soil	8	23	0.54	332	0.036	<1	1.67	0.011	0.06	0.5	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 173293	Soil	17	28	0.53	678	0.052	<1	1.49	0.023	0.05	0.2	0.08	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 173294	Soil	27	21	0.20	1379	0.013	<1	1.11	0.006	0.09	2.2	0.07	2.4	<0.1	<0.05	3	<0.5	0.5
ROS 173296	Soil	17	30	0.57	360	0.054	<1	1.53	0.014	0.05	0.3	0.08	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 173295	Soil	21	26	0.48	788	0.033	1	1.29	0.016	0.08	0.7	0.10	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 152584	Soil	14	30	0.49	259	0.067	<1	1.27	0.025	0.06	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 151327	Soil	14	31	0.95	203	0.124	1	1.98	0.018	0.08	0.3	0.03	7.0	<0.1	<0.05	9	<0.5	<0.2
ROS 173304	Soil	16	29	0.58	595	0.059	1	1.61	0.024	0.07	0.3	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173302	Soil	13	27	0.55	284	0.050	1	1.35	0.023	0.07	0.4	0.07	2.9	<0.1	<0.05	5	<0.5	<0.2
ROS 173297	Soil	15	29	0.59	355	0.067	1	1.67	0.017	0.06	0.5	0.07	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 152633	Soil	13	27	0.70	301	0.060	1	1.41	0.023	0.06	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 152635	Soil	13	27	0.58	290	0.066	2	1.30	0.026	0.07	0.3	0.04	3.0	<0.1	<0.05	4	0.5	<0.2
ROS 152634	Soil	12	24	0.63	295	0.057	3	1.28	0.024	0.06	0.3	0.04	2.6	<0.1	0.06	4	0.8	<0.2
ROS 152632	Soil	13	29	0.82	230	0.067	2	1.48	0.022	0.06	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 152631	Soil	13	26	0.72	188	0.062	1	1.46	0.022	0.06	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 152630	Soil	11	24	0.58	229	0.054	2	1.31	0.019	0.06	0.1	0.04	2.6	<0.1	0.07	4	0.6	0.2
ROS 159688	Soil	21	27	0.69	213	0.130	<1	1.92	0.016	0.19	0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 159692	Soil	18	35	0.65	276	0.115	<1	1.79	0.029	0.16	0.1	0.03	4.6	0.1	<0.05	6	<0.5	<0.2
ROS 159697	Soil	15	31	0.54	237	0.095	<1	1.54	0.018	0.09	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 159691	Soil	15	26	0.54	186	0.114	<1	1.32	0.018	0.11	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 159686	Soil	16	20	0.89	130	0.177	<1	2.70	0.010	0.53	0.1	0.02	3.5	0.3	<0.05	10	<0.5	<0.2
ROS 159701	Soil	20	27	0.80	320	0.082	<1	1.86	0.018	0.16	<0.1	0.04	4.3	0.1	<0.05	6	<0.5	<0.2
ROS 159703	Soil	30	36	0.63	129	0.079	<1	1.58	0.014	0.24	<0.1	0.02	4.0	0.1	<0.05	7	<0.5	<0.2
ROS 159706	Soil	42	17	0.56	188	0.054	<1	1.64	0.017	0.12	<0.1	0.05	3.8	<0.1	<0.05	6	0.5	<0.2
ROS 159704	Soil	32	31	0.62	131	0.081	<1	1.61	0.013	0.24	0.1	0.01	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 159698	Soil	17	24	0.71	240	0.123	<1	1.88	0.021	0.35	<0.1	0.01	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 159702	Soil	17	20	0.63	280	0.061	<1	1.55	0.015	0.08	<0.1	0.05	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 159705	Soil	15	14	0.63	132	0.064	<1	1.40	0.012	0.13	0.2	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159240	Soil	25	31	0.70	173	0.109	1	1.77	0.015	0.21	0.2	0.04	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 159241	Soil	26	33	0.55	168	0.075	<1	1.38	0.014	0.11	0.2	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159234	Soil		1.1	10.6	11.8	67	<0.1	18.4	9.0	794	2.55	7.3	0.5	2.0	4.3	13	0.2	0.4	0.2	61	0.18	0.034
ROS 159225	Soil		0.7	26.6	8.5	49	0.1	21.1	9.2	420	2.44	6.7	1.6	2.7	4.9	36	0.1	0.6	0.2	49	0.51	0.044
ROS 152585	Soil		0.7	28.0	11.8	48	0.2	18.5	7.5	263	2.04	6.5	2.2	2.8	3.5	35	0.2	1.0	0.2	42	0.93	0.057
ROS 173314	Soil		0.5	23.1	9.0	63	<0.1	19.8	9.9	498	2.52	8.2	0.6	8.7	1.9	38	0.2	0.5	0.1	54	1.12	0.063
ROS 173301	Soil		1.0	18.9	8.5	47	0.1	15.4	9.3	487	2.01	6.7	1.1	90.0	1.7	38	0.2	0.5	0.1	44	1.05	0.058
ROS 151402	Soil		0.3	25.4	7.8	48	<0.1	21.6	8.6	401	2.03	8.8	0.5	1.6	1.5	37	0.2	0.5	0.1	44	1.85	0.062
ROS 151408	Soil		0.4	26.4	7.8	48	0.1	20.1	8.1	418	1.87	9.4	0.9	2.8	1.5	41	0.2	0.8	0.1	41	2.05	0.062
ROS 152582	Soil		1.5	23.5	11.1	50	0.2	19.3	8.0	398	2.36	6.9	1.3	6.2	6.5	35	<0.1	0.7	0.2	44	0.73	0.046
ROS 151407	Soil		0.4	28.5	8.4	52	<0.1	23.6	8.6	293	2.10	8.4	0.7	3.1	2.6	38	0.3	0.8	0.1	48	1.87	0.067
ROS 151393	Soil		1.0	16.1	14.2	55	0.1	17.4	9.0	267	2.95	8.4	0.6	3.6	3.7	14	0.1	1.6	0.2	68	0.17	0.025
ROS 151394	Soil		1.0	27.0	14.8	66	0.3	22.8	8.2	772	2.01	3.1	2.0	1.8	4.0	73	0.6	2.8	0.1	34	1.98	0.071
ROS 151403	Soil		1.3	14.7	15.2	55	0.2	17.8	9.0	289	3.15	7.9	0.5	1.9	3.4	13	0.2	1.9	0.2	65	0.15	0.024
ROS 151400	Soil		0.5	28.5	11.0	78	0.3	17.5	10.6	425	2.57	6.8	2.3	6.2	5.7	49	0.4	2.4	0.2	51	1.51	0.077
ROS 151391	Soil		0.4	27.7	13.1	69	0.3	17.8	11.1	317	2.63	7.0	2.7	6.5	6.6	49	0.2	2.6	0.1	52	1.45	0.071
ROS 173298	Soil		0.6	22.1	12.9	70	0.1	17.1	9.2	326	2.55	7.0	0.8	13.4	4.2	30	0.2	0.5	0.2	56	0.72	0.056
ROS 173299	Soil		0.7	30.1	10.7	63	0.1	18.6	9.5	312	2.33	7.1	0.8	12.1	3.7	33	0.2	0.5	0.1	50	0.86	0.062
ROS 151401	Soil		0.6	27.2	11.4	66	0.3	19.7	9.9	471	2.39	7.2	1.7	9.1	4.4	55	0.2	2.2	0.1	47	1.61	0.069
ROS 173303	Soil		0.7	23.1	9.1	71	<0.1	20.3	9.3	400	2.55	7.6	0.8	5.9	3.0	36	0.2	0.6	0.1	56	0.96	0.071
ROS 159344	Soil		0.9	44.6	5.8	70	<0.1	15.6	14.7	535	4.40	4.1	3.1	1.6	6.3	44	<0.1	0.3	0.2	95	0.51	0.049
ROS 159678	Soil		1.3	53.3	5.8	42	0.3	8.6	4.2	160	2.02	3.3	1.5	9.3	1.9	22	<0.1	0.2	0.1	37	0.17	0.053
ROS 159685	Soil		0.9	12.8	7.9	48	<0.1	10.7	5.7	274	2.54	5.0	0.8	2.7	5.1	19	<0.1	0.3	0.1	63	0.15	0.014
ROS 159694	Soil		1.2	26.3	6.6	54	<0.1	14.9	7.5	306	2.47	5.2	1.1	2.8	6.7	29	<0.1	0.4	0.2	51	0.31	0.035
ROS 159687	Soil		0.9	19.7	8.2	49	<0.1	17.0	8.8	319	2.74	6.4	1.2	1.2	6.4	24	<0.1	0.4	0.1	60	0.25	0.015
ROS 159679	Soil		3.0	150.7	5.4	70	0.2	15.0	11.1	436	3.48	2.8	2.2	2.2	6.4	48	<0.1	0.1	0.1	92	0.21	0.052
ROS 159699	Soil		1.5	72.7	13.6	121	<0.1	16.3	14.2	644	3.23	3.3	2.2	4.3	6.2	61	0.2	0.3	0.5	66	0.80	0.068
ROS 159682	Soil		0.9	9.9	5.9	28	0.1	4.6	2.5	162	1.23	1.5	0.8	1.4	2.3	15	0.1	0.1	0.1	32	0.09	0.024
ROS 159684	Soil		0.7	17.1	6.9	54	<0.1	13.1	8.1	374	2.67	5.0	0.9	0.5	7.6	22	<0.1	0.3	0.1	54	0.30	0.034
ROS 163476	Soil		1.0	22.8	8.1	154	<0.1	23.3	10.2	1459	3.21	4.0	1.9	2.6	18.4	30	<0.1	0.4	0.3	44	0.49	0.029
ROS 163483	Soil		1.1	30.3	8.5	59	<0.1	24.7	7.8	379	2.74	6.5	1.5	3.3	9.8	30	<0.1	0.5	0.2	48	0.43	0.056
ROS 163485	Soil		1.0	24.2	7.0	47	<0.1	18.3	6.6	258	2.26	5.4	1.1	3.1	10.0	23	<0.1	0.4	0.2	44	0.32	0.036

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159234	Soil	7	38	0.40	162	0.057	<1	1.36	0.007	0.08	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
ROS 159225	Soil	14	26	0.54	309	0.072	<1	1.45	0.020	0.06	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	0.4
ROS 152585	Soil	14	24	0.43	331	0.043	1	1.21	0.017	0.04	0.2	0.06	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 173314	Soil	11	24	0.70	243	0.047	1	1.37	0.016	0.05	0.2	0.06	2.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173301	Soil	10	21	0.40	341	0.036	1	1.10	0.013	0.03	0.7	0.06	2.1	<0.1	<0.05	3	<0.5	<0.2
ROS 151402	Soil	10	23	0.67	234	0.039	2	1.16	0.016	0.04	0.2	0.04	2.3	<0.1	<0.05	3	0.5	<0.2
ROS 151408	Soil	9	21	0.56	241	0.039	2	1.18	0.015	0.04	0.1	0.05	2.3	<0.1	0.06	3	<0.5	<0.2
ROS 152582	Soil	20	24	0.44	326	0.048	1	1.34	0.017	0.08	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 151407	Soil	11	25	0.78	215	0.053	2	1.44	0.019	0.05	0.2	0.05	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 151393	Soil	10	30	0.46	368	0.036	1	2.39	0.008	0.06	0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
ROS 151394	Soil	52	30	0.46	1197	0.017	4	1.25	0.012	0.09	0.1	0.21	3.6	<0.1	0.08	4	<0.5	<0.2
ROS 151403	Soil	10	29	0.41	324	0.037	<1	2.17	0.009	0.06	0.2	0.05	2.1	<0.1	<0.05	6	<0.5	<0.2
ROS 151400	Soil	33	24	0.52	674	0.045	3	1.52	0.014	0.08	0.2	0.18	4.2	<0.1	<0.05	5	0.7	<0.2
ROS 151391	Soil	24	25	0.48	594	0.043	3	1.45	0.014	0.08	0.2	0.19	3.8	<0.1	0.05	5	<0.5	<0.2
ROS 173298	Soil	14	28	0.60	297	0.066	1	1.47	0.016	0.06	1.5	0.07	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 173299	Soil	15	25	0.54	298	0.062	<1	1.32	0.018	0.06	1.3	0.07	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151401	Soil	21	27	0.48	594	0.042	3	1.42	0.015	0.07	0.2	0.16	3.4	<0.1	0.07	5	0.7	<0.2
ROS 173303	Soil	14	27	0.64	352	0.065	<1	1.52	0.021	0.07	0.4	0.05	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159344	Soil	21	29	1.17	248	0.128	<1	2.56	0.025	0.32	<0.1	0.01	5.6	<0.1	<0.05	8	<0.5	<0.2
ROS 159678	Soil	10	20	0.48	106	0.081	1	1.30	0.010	0.20	0.1	0.06	2.6	0.1	0.08	5	0.7	<0.2
ROS 159685	Soil	13	20	0.61	114	0.124	<1	2.06	0.010	0.10	0.1	0.02	2.3	0.1	<0.05	8	<0.5	<0.2
ROS 159694	Soil	17	23	0.57	210	0.114	<1	1.66	0.016	0.18	0.1	0.03	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 159687	Soil	21	30	0.60	193	0.108	<1	1.97	0.012	0.09	0.1	0.03	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 159679	Soil	18	33	1.40	222	0.196	<1	2.78	0.013	0.93	0.1	0.04	6.0	0.3	0.11	9	0.6	<0.2
ROS 159699	Soil	19	23	0.82	180	0.118	<1	2.48	0.020	0.29	<0.1	0.03	6.2	0.2	<0.05	9	<0.5	<0.2
ROS 159682	Soil	13	10	0.23	64	0.077	<1	1.13	0.012	0.09	<0.1	0.03	1.5	0.1	<0.05	7	<0.5	<0.2
ROS 159684	Soil	17	22	0.73	145	0.133	<1	1.97	0.014	0.23	0.1	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 163476	Soil	48	29	1.66	344	0.101	<1	2.48	0.022	0.45	0.2	0.02	5.5	0.3	<0.05	8	<0.5	<0.2
ROS 163483	Soil	23	31	0.54	276	0.079	<1	1.72	0.016	0.19	0.1	0.04	5.1	0.1	<0.05	6	<0.5	<0.2
ROS 163485	Soil	19	25	0.45	203	0.085	<1	1.43	0.014	0.18	0.1	0.02	4.3	0.1	<0.05	5	0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000630.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159700	Soil		4.8	65.7	15.0	88	0.1	38.1	11.3	502	3.87	4.4	3.1	3.3	14.1	64	0.2	0.3	0.7	61	0.52	0.063
ROS 159680	Soil		1.2	20.0	8.9	73	0.2	13.6	6.8	281	2.79	5.1	1.6	2.0	4.2	22	0.1	0.3	0.2	68	0.17	0.036
ROS 159681	Soil		1.3	13.2	10.9	93	<0.1	15.1	6.6	491	2.88	3.8	1.8	1.5	5.9	39	0.2	0.2	0.1	61	0.27	0.040
ROS 163486	Soil		1.0	17.2	7.6	59	<0.1	16.9	9.2	414	2.83	7.0	1.0	3.1	9.0	23	<0.1	0.4	0.1	49	0.32	0.052
ROS 159236	Soil		2.8	21.7	51.8	64	0.2	8.4	10.1	617	2.78	22.0	1.7	2.0	16.7	22	0.3	0.5	0.3	20	1.59	0.035
ROS 159233	Soil		1.0	22.4	14.6	80	<0.1	30.5	16.4	678	3.79	3.5	2.1	<0.5	21.3	18	<0.1	0.3	0.2	81	0.42	0.066
ROS 159242	Soil		0.7	31.3	9.5	58	0.1	26.3	11.1	427	2.65	8.1	1.0	3.8	5.3	36	<0.1	0.6	0.2	54	0.63	0.045
ROS 159232	Soil		0.7	19.2	16.0	92	<0.1	28.1	16.4	830	3.70	3.9	2.6	<0.5	24.3	23	0.2	0.3	0.6	73	0.58	0.073
ROS 159235	Soil		1.4	33.6	12.2	119	<0.1	15.8	15.5	711	4.46	6.3	1.6	2.1	12.2	21	<0.1	0.4	0.4	79	0.46	0.119
ROS 159238	Soil		1.2	24.7	24.8	102	<0.1	14.0	13.3	725	4.09	4.4	2.9	1.7	27.0	22	<0.1	0.3	0.3	54	0.52	0.085
ROS 159237	Soil		0.8	79.7	48.1	123	<0.1	8.3	10.4	437	3.21	1.9	2.6	<0.5	29.2	16	0.1	0.2	0.4	38	0.37	0.071
ROS 159239	Soil		0.8	30.9	9.1	53	<0.1	23.4	9.8	297	2.66	7.5	0.6	2.2	6.1	31	<0.1	0.5	0.2	58	0.39	0.036
ROS 160851	Soil		0.8	20.0	8.0	56	<0.1	16.4	10.6	496	2.28	6.8	1.4	2.5	5.6	26	0.2	0.3	0.1	47	0.47	0.064
ROS 160848	Soil		0.9	32.5	10.0	69	0.1	24.3	10.4	341	2.76	9.1	0.7	1.3	4.9	29	0.1	0.6	0.2	58	0.49	0.057
ROS 160845	Soil		0.6	69.5	68.5	244	<0.1	61.5	23.9	893	5.39	6.9	1.9	3.4	21.0	21	0.2	0.3	0.3	83	0.55	0.106
ROS 159505	Soil		1.0	30.7	9.0	54	0.1	25.3	10.3	415	2.57	8.3	1.5	3.1	3.9	42	<0.1	0.6	0.2	57	0.63	0.055
ROS 159502	Soil		0.8	36.0	9.6	67	0.1	30.7	10.6	415	2.77	9.0	1.1	3.6	4.8	37	0.1	0.7	0.2	60	0.60	0.061
ROS 160850	Soil		1.0	19.4	8.7	54	<0.1	16.4	8.8	348	2.45	7.5	1.1	2.3	5.2	29	0.1	0.5	0.2	53	0.53	0.057
ROS 151392	Soil		0.5	25.3	12.0	71	0.3	18.9	10.1	505	2.39	6.9	1.7	6.3	4.8	46	0.2	2.2	0.2	50	1.29	0.067
ROS 173300	Soil		0.4	27.2	10.2	58	0.1	18.1	9.8	351	2.35	6.9	1.1	15.2	3.4	33	0.2	0.5	0.2	53	0.88	0.056
ROS 164726	Soil		0.8	37.0	8.7	66	0.2	29.3	11.4	487	2.75	10.2	1.0	7.8	4.3	48	0.2	0.7	0.2	59	0.78	0.065
ROS 164716	Soil		0.8	17.8	8.5	60	<0.1	16.0	10.4	491	3.03	6.8	1.2	1.0	9.9	27	<0.1	0.4	0.1	62	0.21	0.028
ROS 164717	Soil		0.8	16.1	7.6	87	<0.1	10.3	10.3	763	4.19	5.6	2.0	1.2	11.8	12	<0.1	0.3	0.1	77	0.13	0.037
ROS 164715	Soil		1.1	14.5	9.1	72	<0.1	14.6	11.2	577	3.91	7.0	1.2	1.5	9.9	16	<0.1	0.4	0.2	75	0.12	0.023
ROS 159512	Soil		0.9	17.7	7.6	46	<0.1	16.3	7.9	212	2.16	6.7	1.1	3.9	4.4	30	<0.1	0.4	0.1	49	0.41	0.060
ROS 162686	Soil		1.1	17.1	14.7	73	<0.1	19.6	10.2	491	3.21	7.4	1.2	1.1	11.7	20	<0.1	0.4	0.3	53	0.28	0.038
ROS 162671	Soil		0.6	23.4	6.7	69	<0.1	16.2	7.1	377	2.51	4.6	1.2	3.5	9.6	25	0.1	0.4	0.2	51	0.41	0.051
ROS 162676	Soil		0.8	25.5	8.5	55	0.1	21.9	8.9	355	2.35	7.2	1.6	2.2	3.4	40	0.1	0.5	0.2	52	0.62	0.067
ROS 159514	Soil		1.5	11.9	9.9	66	<0.1	16.6	9.3	282	2.84	7.8	0.5	<0.5	3.4	14	0.1	0.5	0.1	67	0.15	0.034
ROS 159516	Soil		0.8	17.7	6.2	79	<0.1	16.2	9.9	613	3.52	5.8	1.5	1.9	16.5	15	<0.1	0.5	0.1	57	0.18	0.035

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159700	Soil	35	41	0.70	263	0.105	<1	1.78	0.016	0.32	<0.1	0.04	4.5	0.2	0.09	8	0.6	<0.2
ROS 159680	Soil	20	23	0.65	149	0.132	<1	2.09	0.012	0.11	0.1	0.04	3.4	0.1	<0.05	9	<0.5	<0.2
ROS 159681	Soil	24	22	0.79	108	0.142	<1	2.36	0.013	0.30	0.1	0.04	3.3	0.2	<0.05	10	<0.5	<0.2
ROS 163486	Soil	14	25	0.60	223	0.104	<1	1.90	0.015	0.31	<0.1	0.03	3.8	0.1	<0.05	7	<0.5	<0.2
ROS 159236	Soil	46	8	0.19	97	0.010	1	0.64	0.008	0.08	<0.1	0.10	2.3	<0.1	<0.05	2	0.6	<0.2
ROS 159233	Soil	33	50	1.12	128	0.113	2	2.20	0.011	0.46	0.2	0.02	5.7	0.4	<0.05	7	<0.5	<0.2
ROS 159242	Soil	17	30	0.59	268	0.074	1	1.78	0.024	0.11	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159232	Soil	53	59	1.22	156	0.106	1	2.15	0.009	0.39	0.2	0.02	5.0	0.4	<0.05	7	<0.5	<0.2
ROS 159235	Soil	17	27	1.14	191	0.147	1	2.73	0.013	0.69	0.1	0.02	3.9	0.6	<0.05	9	<0.5	<0.2
ROS 159238	Soil	44	22	0.90	136	0.133	1	2.33	0.010	0.57	0.3	0.02	3.5	0.5	<0.05	10	<0.5	<0.2
ROS 159237	Soil	58	12	0.80	124	0.107	<1	1.76	0.006	0.46	0.8	0.02	2.4	0.4	<0.05	8	<0.5	<0.2
ROS 159239	Soil	18	32	0.62	195	0.091	2	1.56	0.031	0.14	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 160851	Soil	19	25	0.41	308	0.058	<1	1.28	0.019	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 160848	Soil	14	30	0.56	282	0.073	1	1.51	0.022	0.09	0.2	0.05	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160845	Soil	51	83	1.44	347	0.125	2	2.63	0.013	0.78	<0.1	0.03	7.5	0.4	<0.05	9	<0.5	<0.2
ROS 159505	Soil	14	30	0.53	321	0.072	1	1.72	0.025	0.05	0.2	0.04	3.3	<0.1	<0.05	5	0.5	0.2
ROS 159502	Soil	16	35	0.60	335	0.077	2	1.82	0.026	0.06	0.4	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160850	Soil	15	27	0.47	279	0.069	1	1.58	0.017	0.06	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 151392	Soil	21	26	0.47	583	0.043	2	1.63	0.015	0.08	0.2	0.17	3.2	<0.1	0.06	5	<0.5	<0.2
ROS 173300	Soil	15	26	0.51	348	0.055	1	1.66	0.015	0.05	0.7	0.06	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 164726	Soil	15	29	0.65	340	0.084	2	1.81	0.034	0.07	0.2	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 164716	Soil	22	25	0.68	186	0.129	<1	2.26	0.012	0.35	0.2	0.02	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 164717	Soil	21	18	1.03	144	0.194	<1	2.79	0.011	0.79	0.1	0.01	6.0	0.4	<0.05	11	<0.5	<0.2
ROS 164715	Soil	11	25	1.01	161	0.167	<1	3.15	0.011	0.48	0.1	0.01	3.7	0.2	<0.05	9	<0.5	<0.2
ROS 159512	Soil	16	24	0.43	221	0.061	<1	1.46	0.013	0.07	0.2	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 162686	Soil	15	30	0.66	169	0.111	1	1.85	0.011	0.52	0.1	0.03	5.1	0.2	<0.05	7	<0.5	0.2
ROS 162671	Soil	28	27	0.59	271	0.098	<1	1.45	0.016	0.26	0.1	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 162676	Soil	13	28	0.49	296	0.069	1	1.48	0.021	0.05	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 159514	Soil	8	29	0.42	198	0.073	<1	1.62	0.011	0.12	0.1	0.02	2.5	<0.1	0.07	6	<0.5	0.2
ROS 159516	Soil	30	21	0.84	163	0.140	<1	1.67	0.010	0.36	0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159517	Soil	0.9	28.9	10.5	73	0.1	21.5	11.4	488	2.83	9.4	1.4	4.3	8.3	37	<0.1	0.5	0.2	57	0.66	0.071
ROS 159511	Soil	1.1	23.9	6.9	49	<0.1	21.2	9.5	438	2.49	8.6	1.5	4.6	8.3	26	0.1	0.5	0.1	54	0.35	0.055
ROS 159515	Soil	0.9	16.4	5.6	84	<0.1	13.8	9.5	627	3.67	5.4	1.7	2.1	17.5	14	<0.1	0.4	0.1	57	0.16	0.036
ROS 159513	Soil	1.4	14.2	9.8	66	<0.1	17.8	11.4	392	2.94	8.3	0.8	2.6	5.8	23	0.1	0.4	0.2	66	0.32	0.046
ROS 162685	Soil	1.1	18.1	8.0	69	<0.1	15.6	9.1	511	2.89	6.0	1.6	1.3	13.3	25	<0.1	0.4	0.1	51	0.42	0.066
ROS 162680	Soil	1.0	24.5	8.7	56	<0.1	20.1	8.5	265	2.59	7.8	1.0	2.2	4.3	36	<0.1	0.6	0.2	56	0.56	0.067
ROS 159980	Soil	0.8	24.8	8.6	60	<0.1	23.2	10.6	304	2.64	9.2	1.1	4.1	3.7	35	0.2	0.6	0.2	63	0.61	0.079
ROS 159983	Soil	0.8	39.0	8.8	78	0.1	30.7	12.1	524	2.75	10.3	0.8	1.9	3.9	56	0.5	0.8	0.2	64	1.58	0.089
ROS 159979	Soil	0.9	31.8	7.9	56	0.1	19.6	13.1	466	2.70	7.8	0.8	3.9	2.5	31	0.2	0.5	0.1	73	0.56	0.086
ROS 161174	Soil	0.9	40.5	9.8	77	0.2	32.6	12.9	492	3.01	10.9	0.7	2.7	3.3	42	0.2	0.8	0.2	64	0.82	0.077
ROS 159978	Soil	0.6	23.3	6.0	49	<0.1	19.2	9.1	353	2.04	5.5	0.6	2.1	2.0	28	<0.1	0.4	0.1	52	0.51	0.064
ROS 159977	Soil	0.7	30.9	6.4	49	<0.1	19.9	10.6	382	2.33	6.4	0.7	4.7	2.2	33	0.2	0.5	0.1	59	0.65	0.065
ROS 159984	Soil	0.9	25.6	7.0	62	0.1	23.3	11.1	400	2.44	7.2	0.7	3.4	2.4	34	0.3	0.6	0.1	58	0.63	0.072
ROS 161159	Soil	0.7	18.0	5.9	51	<0.1	11.6	8.5	360	2.46	4.5	1.5	4.2	8.2	26	<0.1	0.2	0.1	51	0.30	0.037
ROS 160976	Soil	2.0	39.5	2.8	54	<0.1	32.1	18.2	473	3.22	2.8	0.5	0.7	2.0	121	<0.1	0.2	<0.1	94	1.40	0.076
ROS 160979	Soil	2.7	57.6	9.7	63	0.1	33.7	18.3	600	3.80	5.9	0.9	1.6	5.6	175	0.2	0.3	<0.1	76	0.96	0.098
ROS 160970	Soil	1.3	96.4	4.3	70	0.1	13.1	13.2	573	3.89	4.5	1.1	2.5	8.9	55	<0.1	0.3	0.1	76	0.47	0.042
ROS 160982	Soil	2.2	31.5	20.7	50	<0.1	9.1	7.7	651	2.30	2.9	1.7	2.0	60.4	8	0.2	1.7	0.2	24	0.17	0.032
ROS 160978	Soil	1.1	61.1	3.6	111	0.1	20.7	16.0	1299	5.08	6.0	0.4	1.4	1.8	21	<0.1	0.2	<0.1	84	0.57	0.085
ROS 160972	Soil	1.3	16.9	6.1	65	0.2	11.2	6.5	211	2.20	4.6	1.4	2.0	4.0	35	<0.1	0.2	0.2	43	0.27	0.045
ROS 160981	Soil	2.2	33.1	21.0	50	<0.1	7.3	7.8	723	2.22	2.6	1.4	1.6	59.2	7	0.2	1.7	0.2	22	0.15	0.031
ROS 160969	Soil	0.7	20.9	5.1	62	<0.1	21.3	11.6	451	3.03	6.3	1.0	0.7	8.1	27	<0.1	0.3	<0.1	60	0.38	0.078
ROS 163484	Soil	0.9	22.1	5.4	44	<0.1	15.3	6.3	225	2.01	4.4	0.9	2.0	8.6	19	<0.1	0.3	0.2	41	0.28	0.032
ROS 159343	Soil	0.6	33.4	6.1	48	<0.1	15.9	8.1	247	2.46	4.5	1.1	3.0	6.9	20	<0.1	0.4	0.1	53	0.23	0.033
ROS 163477	Soil	1.1	26.0	8.2	49	<0.1	19.4	8.8	327	2.41	5.7	1.1	1.9	7.8	27	<0.1	0.5	0.2	56	0.36	0.037
ROS 163487	Soil	1.0	11.8	7.0	87	<0.1	14.3	11.5	482	2.97	6.4	0.6	0.9	4.3	16	<0.1	0.3	0.1	71	0.21	0.065
ROS 159683	Soil	1.0	20.1	7.8	56	<0.1	16.9	8.1	310	2.90	6.1	2.9	1.2	8.6	27	<0.1	0.3	0.2	64	0.28	0.031
ROS 159333	Soil	1.0	25.5	6.6	68	0.3	17.7	12.6	957	2.52	6.4	0.4	<0.5	2.3	22	0.1	0.4	0.1	63	0.25	0.029
ROS 163489	Soil	1.4	33.4	7.9	65	0.1	28.2	11.1	463	2.69	8.6	1.7	4.4	4.1	41	0.3	0.6	0.2	49	0.63	0.068
ROS 163480	Soil	1.1	25.8	8.6	58	<0.1	19.5	9.3	381	2.90	6.3	1.3	2.1	10.0	24	<0.1	0.6	0.2	60	0.33	0.038

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 Report Date: November 22, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159517	Soil	24	26	0.59	228	0.090	2	1.57	0.020	0.12	0.2	0.04	3.7	0.1	0.07	5	<0.5	<0.2
ROS 159511	Soil	19	27	0.42	223	0.077	<1	1.28	0.020	0.12	0.3	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159515	Soil	33	19	0.89	153	0.139	1	1.92	0.011	0.36	0.2	0.01	5.4	0.3	<0.05	8	<0.5	<0.2
ROS 159513	Soil	13	34	0.49	227	0.072	1	1.92	0.014	0.07	0.2	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
ROS 162685	Soil	24	24	0.59	206	0.107	1	1.79	0.017	0.35	0.2	0.01	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 162680	Soil	15	29	0.53	281	0.072	2	1.75	0.026	0.06	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 159980	Soil	13	28	0.58	258	0.072	2	1.67	0.027	0.06	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 159983	Soil	14	30	0.84	360	0.086	3	1.63	0.037	0.09	0.2	0.02	3.4	<0.1	0.06	4	0.5	<0.2
ROS 159979	Soil	11	27	0.61	262	0.077	1	1.68	0.022	0.09	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 161174	Soil	14	34	0.79	310	0.079	3	1.73	0.033	0.08	0.2	0.03	3.7	<0.1	0.06	5	<0.5	<0.2
ROS 159978	Soil	9	23	0.46	239	0.057	1	1.05	0.017	0.04	0.3	0.03	2.7	<0.1	0.09	3	<0.5	<0.2
ROS 159977	Soil	9	24	0.51	256	0.063	1	1.18	0.019	0.04	0.2	0.03	3.3	<0.1	0.07	4	<0.5	<0.2
ROS 159984	Soil	11	28	0.57	311	0.069	2	1.28	0.021	0.05	0.2	0.04	3.5	<0.1	0.06	4	<0.5	<0.2
ROS 161159	Soil	25	21	0.62	180	0.135	<1	1.41	0.017	0.26	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
ROS 160976	Soil	5	76	1.72	172	0.111	<1	3.18	0.019	0.21	<0.1	0.03	7.4	<0.1	<0.05	9	<0.5	<0.2
ROS 160979	Soil	19	45	0.78	320	0.031	<1	2.21	0.038	0.05	<0.1	0.03	11.0	<0.1	<0.05	8	0.8	<0.2
ROS 160970	Soil	36	15	1.08	268	0.219	1	2.55	0.010	0.90	0.1	0.02	4.4	0.3	<0.05	8	<0.5	<0.2
ROS 160982	Soil	59	10	0.12	64	0.007	<1	0.57	0.011	0.05	0.1	0.06	3.1	<0.1	<0.05	3	<0.5	<0.2
ROS 160978	Soil	16	20	0.82	200	0.066	<1	1.50	0.010	0.30	<0.1	0.02	17.8	0.1	<0.05	10	0.7	<0.2
ROS 160972	Soil	20	20	0.45	153	0.094	1	1.51	0.014	0.13	0.1	0.05	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 160981	Soil	49	7	0.11	59	0.006	<1	0.49	0.005	0.04	0.1	0.07	2.6	<0.1	<0.05	2	<0.5	<0.2
ROS 160969	Soil	24	24	0.72	172	0.154	2	1.76	0.013	0.45	0.2	0.02	4.1	0.3	<0.05	6	<0.5	<0.2
ROS 163484	Soil	16	23	0.38	172	0.080	<1	1.25	0.013	0.16	0.1	0.03	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 159343	Soil	20	26	0.52	178	0.102	1	1.53	0.016	0.12	0.1	0.02	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 163477	Soil	23	31	0.42	234	0.104	1	1.60	0.016	0.13	0.1	0.04	5.4	0.1	<0.05	5	<0.5	<0.2
ROS 163487	Soil	8	23	0.71	178	0.126	<1	1.71	0.011	0.36	0.1	0.01	3.6	0.2	<0.05	7	<0.5	<0.2
ROS 159683	Soil	41	28	0.57	188	0.116	<1	2.24	0.013	0.14	0.1	0.03	4.3	0.1	<0.05	8	<0.5	<0.2
ROS 159333	Soil	7	30	0.57	258	0.106	1	1.37	0.014	0.27	0.2	0.03	2.4	0.1	<0.05	4	<0.5	<0.2
ROS 163489	Soil	20	27	0.49	326	0.073	2	1.37	0.017	0.10	0.2	0.04	3.8	<0.1	0.07	4	0.6	<0.2
ROS 163480	Soil	24	27	0.45	246	0.102	<1	1.82	0.018	0.20	<0.1	0.03	6.2	0.1	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164723	Soil	0.6	61.0	5.8	59	<0.1	14.1	10.4	498	2.98	3.5	1.4	3.2	10.2	42	<0.1	0.3	0.1	61	0.37	0.034
ROS 164719	Soil	0.6	18.0	5.7	59	<0.1	14.8	9.4	413	2.73	4.4	1.4	1.6	9.5	24	<0.1	0.3	0.1	57	0.26	0.029
ROS 164721	Soil	0.6	20.2	5.8	55	<0.1	15.4	9.6	418	2.74	4.6	1.0	1.4	7.7	27	<0.1	0.3	0.1	58	0.28	0.022
ROS 164722	Soil	0.7	20.1	6.8	53	<0.1	16.6	10.0	404	2.80	4.2	1.1	1.3	8.5	30	<0.1	0.4	0.1	65	0.31	0.023
ROS 164725	Soil	0.6	34.1	6.1	60	<0.1	14.9	10.3	481	2.66	4.1	0.8	1.8	6.6	37	0.1	0.4	0.1	61	0.41	0.040
ROS 164720	Soil	1.1	11.8	7.1	46	<0.1	14.1	7.9	298	2.79	7.6	0.5	1.6	4.0	16	<0.1	0.4	0.1	63	0.15	0.024
ROS 164727	Soil	0.5	15.4	4.1	57	<0.1	9.8	8.1	557	2.86	4.5	1.9	1.5	11.6	80	<0.1	0.1	0.1	49	1.20	0.058
ROS 164729	Soil	2.5	22.8	5.6	75	<0.1	7.8	11.0	434	3.52	3.5	3.1	0.5	12.5	46	<0.1	0.3	0.2	57	0.41	0.029
ROS 160967	Soil	0.3	22.6	4.9	81	<0.1	12.4	11.5	793	3.65	5.5	1.5	0.7	12.9	30	0.1	0.2	<0.1	63	0.36	0.050
ROS 162759	Soil	1.4	14.4	6.9	62	0.1	13.1	8.2	284	2.40	5.5	1.7	2.0	4.2	29	0.1	0.3	0.1	53	0.42	0.049
ROS 162758	Soil	0.9	15.0	4.7	74	<0.1	13.1	10.9	709	3.43	4.7	0.8	<0.5	10.3	40	<0.1	0.2	<0.1	61	0.47	0.030
ROS 162754	Soil	1.2	44.1	4.2	81	<0.1	15.0	17.4	772	4.03	3.9	2.3	<0.5	9.1	16	<0.1	0.2	0.1	102	0.17	0.028
ROS 160980	Soil	7.5	57.1	7.4	112	0.2	38.7	34.8	1569	6.36	10.1	1.3	<0.5	2.5	108	0.3	0.3	0.1	121	5.94	0.262
ROS 162761	Soil	1.2	116.5	7.1	72	0.3	14.0	11.5	454	3.21	7.0	2.5	1.8	7.8	37	0.1	0.3	0.3	67	0.41	0.043
ROS 162756	Soil	0.9	16.8	8.1	63	0.1	18.9	11.0	562	3.09	7.0	0.7	1.3	7.5	29	<0.1	0.4	0.1	64	0.42	0.027
ROS 162752	Soil	3.1	111.2	4.6	64	0.2	12.0	10.4	421	4.36	3.6	1.4	0.8	4.8	70	<0.1	0.2	<0.1	123	0.25	0.037
ROS 160991	Soil	1.4	24.0	8.2	66	<0.1	15.8	10.3	501	3.33	5.4	1.9	3.4	12.7	23	<0.1	0.4	0.4	57	0.40	0.035
ROS 162760	Soil	1.0	26.0	9.5	69	0.2	10.6	7.7	322	2.56	5.3	2.0	4.5	6.1	27	0.1	0.3	0.2	51	0.23	0.041
ROS 162755	Soil	1.1	22.8	7.5	97	0.1	12.7	14.4	1027	3.28	3.3	1.4	0.6	13.5	33	0.2	0.3	0.1	58	0.30	0.033
ROS 163083	Soil	4.9	55.1	7.9	84	0.3	46.0	18.3	498	3.30	6.8	3.2	1.3	2.8	69	0.5	0.5	0.1	85	1.00	0.135
ROS 160973	Soil	1.8	16.2	7.3	60	0.2	10.0	5.0	185	2.40	5.9	1.4	1.9	4.8	43	<0.1	0.3	0.4	49	0.25	0.058
ROS 162762	Soil	1.0	19.1	7.9	61	0.1	12.9	8.7	305	2.53	6.4	1.4	2.8	4.7	25	0.1	0.4	0.2	54	0.27	0.050
ROS 162757	Soil	1.2	22.4	6.4	81	<0.1	16.0	12.7	968	3.50	4.7	1.4	1.4	13.9	25	<0.1	0.3	0.1	65	0.32	0.037
ROS 163082	Soil	4.6	31.2	10.0	85	0.2	32.1	12.2	418	2.91	10.6	1.1	1.8	4.0	35	0.3	0.4	0.1	93	0.57	0.100
ROS 151446	Soil	0.8	24.8	20.3	63	<0.1	18.3	9.9	248	2.86	6.9	1.0	2.3	14.6	23	<0.1	0.7	0.2	57	0.33	0.033
ROS 151439	Soil	0.7	39.3	12.8	59	0.1	35.5	11.1	542	2.75	18.5	0.9	4.5	2.7	51	0.2	1.6	0.2	66	4.59	0.048
ROS 151441	Soil	0.5	31.7	9.6	62	0.1	27.4	9.8	480	2.41	12.8	0.6	1.9	3.2	26	0.2	1.2	0.1	53	1.23	0.055
ROS 151443	Soil	1.1	29.2	60.9	66	0.1	23.7	7.6	377	2.46	7.9	1.2	3.1	15.5	20	0.1	3.0	0.3	47	0.63	0.030
ROS 151418	Soil	0.7	38.4	12.3	57	0.1	34.2	12.2	471	2.74	11.5	0.6	4.1	3.9	37	0.1	0.9	0.2	68	3.01	0.031
ROS 151440	Soil	0.5	40.8	18.2	124	<0.1	61.6	11.2	758	2.96	24.8	1.8	1.6	4.3	16	0.7	2.7	0.2	49	1.30	0.045

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164723	Soil	25	22	0.75	231	0.178	<1	1.94	0.020	0.52	0.1	0.01	5.0	0.2	<0.05	7	<0.5	<0.2
ROS 164719	Soil	34	24	0.73	186	0.149	1	1.78	0.012	0.27	0.2	0.01	4.6	0.2	<0.05	6	<0.5	<0.2
ROS 164721	Soil	23	23	0.66	190	0.156	<1	1.80	0.022	0.27	0.1	0.02	4.4	0.2	<0.05	6	<0.5	<0.2
ROS 164722	Soil	26	28	0.68	190	0.171	<1	1.78	0.019	0.33	0.1	0.02	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 164725	Soil	18	21	0.63	212	0.158	<1	1.79	0.027	0.36	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 164720	Soil	10	24	0.50	135	0.114	<1	1.76	0.008	0.12	0.1	0.01	2.4	0.1	<0.05	6	<0.5	<0.2
ROS 164727	Soil	27	12	0.70	171	0.147	<1	2.99	0.017	0.68	<0.1	0.02	3.6	0.2	<0.05	10	<0.5	<0.2
ROS 164729	Soil	26	12	0.79	126	0.179	<1	1.92	0.011	0.51	<0.1	0.02	4.6	0.2	<0.05	8	<0.5	<0.2
ROS 160967	Soil	32	16	1.00	131	0.265	1	2.19	0.012	0.94	0.2	0.01	4.0	0.5	<0.05	9	<0.5	<0.2
ROS 162759	Soil	25	22	0.54	182	0.108	<1	1.93	0.013	0.11	0.1	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 162758	Soil	20	17	0.95	200	0.200	1	2.16	0.013	0.83	0.1	0.01	5.3	0.4	<0.05	8	<0.5	<0.2
ROS 162754	Soil	29	24	1.24	163	0.208	<1	2.30	0.012	1.08	0.1	<0.01	11.7	0.3	<0.05	9	<0.5	<0.2
ROS 160980	Soil	18	52	1.80	252	0.064	<1	2.90	0.008	0.15	<0.1	0.01	8.1	<0.1	0.09	16	1.0	<0.2
ROS 162761	Soil	33	26	0.64	214	0.142	<1	2.36	0.014	0.20	0.2	0.04	4.3	0.1	<0.05	8	<0.5	<0.2
ROS 162756	Soil	19	29	0.64	230	0.125	<1	2.03	0.011	0.27	0.1	0.01	5.4	0.1	<0.05	7	<0.5	<0.2
ROS 162752	Soil	13	35	1.43	230	0.216	<1	2.25	0.023	1.11	<0.1	0.01	8.3	0.3	0.36	8	1.1	<0.2
ROS 160991	Soil	33	29	0.75	200	0.126	<1	1.89	0.018	0.36	0.2	0.03	5.6	0.2	<0.05	7	<0.5	<0.2
ROS 162760	Soil	25	20	0.49	159	0.088	<1	1.86	0.012	0.09	0.2	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 162755	Soil	35	17	0.84	189	0.159	1	2.09	0.012	0.76	0.2	0.03	6.0	0.3	<0.05	8	<0.5	<0.2
ROS 163083	Soil	18	54	0.93	448	0.090	1	1.91	0.019	0.08	0.2	0.05	5.2	0.1	<0.05	7	2.3	<0.2
ROS 160973	Soil	16	19	0.39	152	0.071	1	1.59	0.026	0.12	0.1	0.04	2.8	<0.1	0.07	6	0.7	0.2
ROS 162762	Soil	17	24	0.47	176	0.079	1	1.84	0.013	0.08	0.1	0.04	3.0	<0.1	<0.05	6	0.5	<0.2
ROS 162757	Soil	39	21	0.97	213	0.160	1	2.53	0.013	0.56	0.1	0.02	6.0	0.3	<0.05	9	<0.5	<0.2
ROS 163082	Soil	12	44	0.87	247	0.064	<1	1.76	0.018	0.05	0.2	0.02	4.4	<0.1	<0.05	6	1.1	<0.2
ROS 151446	Soil	29	34	0.53	277	0.073	<1	1.90	0.014	0.09	0.1	0.03	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 151439	Soil	15	35	0.95	224	0.052	1	1.68	0.024	0.05	0.2	0.17	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 151441	Soil	15	27	0.51	237	0.061	2	1.34	0.022	0.05	0.3	0.09	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 151443	Soil	31	32	0.41	212	0.035	2	1.55	0.022	0.08	0.2	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
ROS 151418	Soil	16	36	1.18	224	0.061	4	1.76	0.025	0.05	0.2	0.19	5.3	<0.1	<0.05	6	<0.5	<0.2
ROS 151440	Soil	23	32	0.59	226	0.054	<1	1.39	0.010	0.23	0.3	0.22	6.2	0.2	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 151420	Soil	0.4	37.9	10.7	65	0.1	30.2	10.0	478	2.34	12.1	0.8	3.8	2.8	34	0.4	1.5	0.1	52	2.23	0.078
ROS 151424	Soil	0.3	35.0	9.8	55	0.1	26.8	10.4	527	2.38	12.6	1.2	1.9	2.4	33	0.4	1.1	0.1	52	1.79	0.069
ROS 151447	Soil	0.7	25.0	23.7	59	<0.1	16.4	8.3	292	2.56	5.8	1.7	1.2	14.3	26	<0.1	0.9	0.4	51	0.39	0.036
ROS 151437	Soil	1.0	3.2	2.3	13	<0.1	15.6	2.2	151	0.35	3.9	0.5	1.2	0.2	160	0.2	0.3	<0.1	13	18.02	0.026
ROS 151435	Soil	0.3	24.3	9.3	73	<0.1	14.5	8.1	481	2.01	4.6	0.8	1.8	4.3	14	0.2	0.6	<0.1	43	1.08	0.028
ROS 151442	Soil	0.6	28.6	11.8	55	0.2	22.5	7.8	350	2.33	11.9	1.1	1.9	5.5	25	0.2	0.9	0.2	48	1.02	0.044
ROS 151438	Soil	0.8	18.2	10.7	38	<0.1	27.0	8.7	236	2.28	10.8	0.8	4.6	2.4	76	0.2	0.9	0.1	56	10.65	0.027
ROS 151445	Soil	0.7	30.2	109.7	69	0.1	17.1	9.5	627	2.63	5.1	1.6	2.3	21.4	21	<0.1	1.1	0.3	43	0.48	0.054
ROS 151429	Soil	1.0	22.4	11.5	41	<0.1	18.6	7.1	198	2.26	6.1	0.7	1.2	5.2	20	0.1	0.7	0.1	55	0.44	0.033
ROS 151433	Soil	0.5	39.7	11.6	61	0.1	30.2	9.8	451	2.60	14.9	0.6	3.4	3.9	36	0.3	1.2	0.2	62	2.55	0.064
ROS 173139	Soil	0.7	33.1	10.4	74	<0.1	26.1	10.3	414	2.77	8.0	0.9	2.5	5.5	37	0.2	0.7	0.2	62	0.63	0.059
ROS 173140	Soil	1.2	47.6	12.5	109	<0.1	42.1	16.5	632	4.25	4.6	2.0	3.1	19.2	19	<0.1	0.3	0.1	62	0.42	0.066
ROS 173141	Soil	0.7	30.2	9.2	63	<0.1	23.3	10.1	394	2.65	6.7	1.3	3.4	6.0	32	<0.1	0.5	0.2	60	0.47	0.039
ROS 173138	Soil	0.9	22.4	9.2	76	<0.1	15.4	12.0	482	3.06	5.8	1.8	19.0	7.3	25	<0.1	0.3	0.2	62	0.61	0.067
ROS 173137	Soil	0.8	12.9	7.7	58	<0.1	10.4	8.8	427	2.17	4.6	0.8	0.8	4.9	22	<0.1	0.2	0.1	46	0.44	0.058
ROS 173136	Soil	0.7	26.9	8.0	54	<0.1	21.3	9.8	428	2.61	8.4	0.9	12.0	5.1	30	<0.1	0.5	0.1	56	0.53	0.051
ROS 173135	Soil	0.7	19.8	8.0	74	<0.1	13.6	10.0	481	2.77	5.6	0.8	3.0	7.8	20	<0.1	0.3	0.5	54	0.37	0.060
ROS 173134	Soil	2.2	65.1	6.7	95	<0.1	8.3	9.5	647	3.39	2.5	1.1	1.3	12.5	15	<0.1	0.2	2.4	39	0.28	0.047
ROS 173133	Soil	1.4	10.3	7.9	109	<0.1	6.8	9.7	827	3.59	3.5	0.9	<0.5	8.8	9	<0.1	0.2	0.1	55	0.20	0.077
ROS 173132	Soil	0.9	26.5	7.4	79	<0.1	14.6	9.9	585	3.02	4.8	1.1	2.5	8.4	20	<0.1	0.4	0.1	60	0.27	0.023
ROS 173131	Soil	1.3	15.5	8.5	80	<0.1	13.7	11.0	483	3.67	6.0	1.2	<0.5	8.4	15	<0.1	0.5	0.1	66	0.26	0.049
ROS 173130	Soil	0.7	31.3	13.4	94	<0.1	10.4	12.2	1247	3.31	3.2	2.1	2.3	15.9	43	0.1	0.3	0.2	46	2.98	0.066
ROS 159781	Soil	0.9	19.7	7.9	58	<0.1	16.2	9.3	425	2.40	6.3	0.7	3.1	3.0	30	0.2	0.4	0.2	57	0.49	0.065
ROS 159782	Soil	0.9	25.1	8.2	67	0.1	20.4	12.4	601	2.91	7.0	0.7	5.8	2.4	30	0.2	0.6	0.2	67	0.53	0.068
ROS 162751	Soil	1.7	133.6	5.9	143	0.1	14.8	25.9	965	6.11	1.9	1.0	0.9	4.6	34	<0.1	0.1	<0.1	159	0.28	0.052
ROS 162753	Soil	2.4	120.5	4.7	87	<0.1	18.5	11.7	734	5.10	5.2	2.5	3.3	10.9	47	<0.1	0.3	0.3	129	0.24	0.040
ROS 159799	Soil	1.7	16.4	10.2	72	<0.1	16.7	6.5	477	3.28	6.2	1.0	<0.5	22.6	12	<0.1	0.6	0.2	40	0.16	0.025
ROS 159798	Soil	0.9	25.0	6.5	51	0.1	15.2	7.4	424	2.60	5.8	2.6	3.8	10.1	37	<0.1	0.4	0.1	46	0.63	0.061
ROS 162599	Soil	0.2	20.4	5.4	66	<0.1	9.0	13.4	813	3.23	1.7	1.5	0.8	10.1	68	<0.1	0.2	<0.1	73	2.73	0.057
ROS 151436	Soil	0.1	12.3	3.5	36	<0.1	30.4	2.0	250	1.22	18.7	2.1	0.7	0.2	135	0.6	2.3	<0.1	21	21.34	0.052

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 151420	Soil	17	27	0.49	199	0.062	2	1.43	0.024	0.05	0.2	0.13	4.2	<0.1	<0.05	4	0.7	<0.2
ROS 151424	Soil	15	26	0.47	273	0.055	2	1.42	0.019	0.04	0.2	0.10	3.7	<0.1	<0.05	4	0.6	<0.2
ROS 151447	Soil	36	29	0.51	267	0.080	1	1.58	0.016	0.11	0.1	0.03	4.2	0.1	<0.05	5	<0.5	<0.2
ROS 151437	Soil	7	27	8.32	52	0.006	2	0.27	0.003	<0.01	0.1	0.03	0.5	<0.1	0.07	<1	0.7	<0.2
ROS 151435	Soil	18	20	0.67	283	0.087	1	1.96	0.009	0.27	<0.1	0.06	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 151442	Soil	19	26	0.46	198	0.053	2	1.48	0.023	0.06	0.2	0.07	4.1	<0.1	<0.05	4	0.5	<0.2
ROS 151438	Soil	15	42	0.43	157	0.049	<1	1.96	0.013	0.04	0.2	0.07	4.7	<0.1	<0.05	5	0.6	<0.2
ROS 151445	Soil	39	26	0.41	256	0.051	<1	1.52	0.013	0.13	0.2	0.04	4.8	0.1	<0.05	5	<0.5	<0.2
ROS 151429	Soil	22	28	0.37	257	0.061	1	1.68	0.017	0.06	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 151433	Soil	17	29	0.62	231	0.062	2	1.49	0.024	0.06	0.2	0.15	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173139	Soil	17	33	0.66	254	0.099	2	1.47	0.036	0.17	0.1	0.03	4.6	0.1	<0.05	5	<0.5	<0.2
ROS 173140	Soil	38	42	0.95	237	0.107	<1	1.96	0.015	0.65	<0.1	0.02	6.2	0.3	<0.05	7	<0.5	<0.2
ROS 173141	Soil	19	34	0.60	286	0.096	1	1.63	0.026	0.10	0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
ROS 173138	Soil	19	26	0.75	304	0.106	1	1.54	0.028	0.31	0.2	0.02	5.2	0.1	<0.05	5	<0.5	<0.2
ROS 173137	Soil	14	19	0.49	227	0.078	<1	1.07	0.016	0.18	0.2	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 173136	Soil	16	28	0.60	306	0.084	1	1.52	0.027	0.08	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	0.2
ROS 173135	Soil	25	24	0.78	200	0.132	1	1.62	0.020	0.35	0.2	0.01	3.9	0.2	<0.05	5	<0.5	<0.2
ROS 173134	Soil	34	13	0.91	203	0.152	1	1.73	0.010	0.59	0.2	0.02	4.2	0.4	<0.05	5	<0.5	<0.2
ROS 173133	Soil	9	11	0.86	162	0.168	1	1.77	0.009	0.95	0.1	<0.01	4.4	0.4	<0.05	7	<0.5	<0.2
ROS 173132	Soil	21	24	0.86	270	0.148	<1	1.83	0.015	0.30	0.1	0.03	6.1	0.2	<0.05	6	<0.5	<0.2
ROS 173131	Soil	10	24	0.62	161	0.102	2	1.75	0.012	0.41	0.2	0.02	5.5	0.2	<0.05	6	<0.5	<0.2
ROS 173130	Soil	43	11	0.84	338	0.082	2	1.46	0.011	0.44	0.3	0.04	5.1	0.2	<0.05	5	<0.5	<0.2
ROS 159781	Soil	12	24	0.51	253	0.064	2	1.26	0.020	0.07	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159782	Soil	11	30	0.71	294	0.068	2	1.54	0.019	0.09	0.2	0.04	3.8	<0.1	<0.05	5	0.7	<0.2
ROS 162751	Soil	14	43	2.58	470	0.313	<1	3.93	0.018	2.51	<0.1	<0.01	4.1	0.7	0.08	11	0.6	<0.2
ROS 162753	Soil	28	39	1.65	246	0.232	1	2.59	0.022	1.67	<0.1	0.03	12.2	0.4	0.26	11	0.7	<0.2
ROS 159799	Soil	25	23	0.45	87	0.060	<1	2.08	0.008	0.25	0.1	0.02	3.6	0.2	<0.05	7	<0.5	<0.2
ROS 159798	Soil	44	20	0.54	239	0.074	2	1.50	0.020	0.15	0.3	0.06	4.6	0.2	<0.05	5	0.6	<0.2
ROS 162599	Soil	27	19	1.00	416	0.061	1	1.91	0.010	0.50	<0.1	<0.01	6.0	0.2	<0.05	7	0.5	<0.2
ROS 151436	Soil	9	8	0.17	32	0.004	<1	0.14	0.002	<0.01	0.4	0.19	1.4	<0.1	<0.05	<1	0.8	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159797	Soil	1.2	32.0	15.2	46	<0.1	11.5	6.3	1005	2.69	3.1	1.9	3.5	22.0	20	<0.1	0.9	0.2	29	0.36	0.052
ROS 159796	Soil	1.2	15.5	11.2	35	<0.1	8.6	3.9	274	1.49	3.4	0.6	0.7	5.2	15	<0.1	0.2	<0.1	25	0.21	0.014
ROS 159800	Soil	0.9	15.8	13.5	48	<0.1	19.3	9.3	529	2.66	7.5	0.7	1.1	6.6	25	0.1	0.6	0.2	56	0.26	0.019
ROS 151421	Soil	0.2	37.4	9.4	51	0.1	25.7	9.0	435	2.38	8.4	1.1	2.8	2.6	34	0.3	1.0	0.2	49	1.85	0.057
ROS 162579	Soil	0.8	21.9	7.1	61	0.1	17.1	9.9	440	2.60	6.7	0.7	18.0	2.7	32	0.2	0.4	0.1	62	0.53	0.073
ROS 159795	Soil	1.1	15.0	9.7	34	<0.1	7.2	3.5	266	1.33	3.0	0.6	<0.5	5.0	14	<0.1	0.2	<0.1	23	0.19	0.014
ROS 162583	Soil	0.9	8.1	6.4	65	<0.1	6.4	3.0	240	2.26	4.5	0.4	0.7	2.4	12	<0.1	0.4	0.1	45	0.13	0.025
ROS 151444	Soil	0.6	25.2	19.7	57	0.2	19.3	8.3	417	2.52	8.9	1.2	1.8	6.5	30	0.2	1.0	0.2	53	0.77	0.046
ROS 159801	Soil	1.9	38.2	8.7	64	0.2	22.3	10.9	295	2.96	8.6	11.6	4.7	9.5	54	0.4	0.7	0.2	48	0.85	0.069
ROS 162577	Soil	0.8	31.1	7.3	62	0.1	27.1	9.9	452	2.51	8.8	0.8	1.1	3.8	68	0.3	0.7	0.2	54	1.77	0.086
ROS 162580	Soil	0.7	22.0	7.8	56	<0.1	21.7	9.3	273	2.56	8.1	0.8	3.4	3.5	37	0.2	0.6	0.2	60	0.60	0.065
ROS 151419	Soil	0.5	48.6	12.7	63	0.1	34.1	11.9	392	3.02	15.2	0.5	4.1	4.1	29	0.2	1.2	0.2	68	1.30	0.047
ROS 151134	Soil	0.7	32.6	9.1	61	0.1	25.7	9.2	411	2.39	9.1	0.6	2.4	3.9	44	0.3	0.9	0.2	50	0.96	0.080
ROS 151135	Soil	0.6	26.1	8.2	61	0.1	24.5	8.7	345	2.40	9.0	0.7	2.8	3.4	41	0.1	0.8	0.1	52	0.81	0.064
ROS 151132	Soil	0.4	24.4	14.2	84	0.2	17.3	9.4	403	2.87	7.5	1.3	4.2	6.5	48	0.3	2.4	0.1	60	1.00	0.064
ROS 162631	Soil	1.0	15.0	10.5	53	<0.1	11.5	6.0	308	2.67	7.4	1.0	<0.5	5.5	27	0.2	0.3	0.2	65	0.19	0.041
ROS 151128	Soil	0.5	45.7	140.0	307	2.0	23.7	18.6	1201	5.57	6.1	1.2	36.4	19.2	22	3.6	4.5	0.1	95	0.48	0.090
ROS 151137	Soil	2.9	19.6	9.3	45	<0.1	20.7	7.9	187	2.53	9.2	0.4	1.0	3.4	20	0.1	0.4	0.2	61	0.23	0.026
ROS 151127	Soil	0.7	25.3	11.7	117	0.1	16.8	12.1	480	3.91	7.9	1.1	<0.5	12.7	35	0.3	3.3	0.1	97	0.40	0.061
ROS 162633	Soil	0.6	14.0	9.0	67	<0.1	11.8	7.7	466	3.11	6.5	1.7	1.3	10.6	33	<0.1	0.3	0.1	59	0.33	0.027
ROS 151129	Soil	1.0	15.7	39.4	116	0.4	10.2	10.1	387	3.56	7.6	0.6	0.7	3.4	22	0.5	4.9	0.1	72	0.33	0.064
ROS 151131	Soil	0.6	17.5	18.3	87	0.2	17.1	9.1	316	3.17	8.6	0.9	18.0	6.8	35	0.1	2.6	0.2	69	0.54	0.043
ROS 151126	Soil	2.4	55.9	25.0	139	0.2	19.8	11.5	537	4.18	13.5	0.9	2.4	7.3	16	0.4	3.6	<0.1	83	0.42	0.062
ROS 162625	Soil	1.4	36.6	5.3	64	0.2	8.3	6.3	291	2.34	2.7	0.9	<0.5	1.8	40	<0.1	0.2	<0.1	55	0.22	0.042
ROS 151430	Soil	0.9	22.6	11.9	48	<0.1	19.5	8.4	232	2.56	7.7	1.1	2.4	8.6	23	<0.1	0.8	0.2	57	0.36	0.024
ROS 151431	Soil	1.3	10.7	10.6	40	<0.1	11.1	8.4	191	2.06	6.4	0.8	1.0	9.2	13	0.2	1.0	0.2	41	0.30	0.011
ROS 151133	Soil	0.5	27.2	14.2	98	0.2	19.1	10.6	494	3.15	7.2	1.0	8.6	7.7	47	0.2	2.5	0.2	66	0.99	0.084
ROS 162637	Soil	0.7	22.5	7.0	66	<0.1	18.2	9.2	443	3.24	5.8	1.7	3.0	12.3	31	<0.1	0.5	0.1	61	0.27	0.021
ROS 162635	Soil	0.6	17.4	6.7	61	<0.1	11.3	8.2	453	3.12	4.2	0.9	2.9	7.8	26	<0.1	0.3	0.1	56	0.30	0.023
ROS 162597	Soil	5.1	18.4	10.2	60	<0.1	6.9	8.3	569	3.62	4.5	1.2	2.4	16.1	17	<0.1	0.2	0.2	44	0.31	0.067

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 Report Date: November 22, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159797	Soil	58	8	0.39	274	0.037	2	1.26	0.012	0.33	0.1	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
ROS 159796	Soil	6	16	0.24	89	0.006	<1	1.07	0.009	0.08	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159800	Soil	14	31	0.45	244	0.062	<1	1.67	0.013	0.12	0.1	0.03	3.8	0.1	<0.05	5	0.6	0.6
ROS 151421	Soil	14	24	0.42	325	0.070	3	1.56	0.020	0.05	0.2	0.09	3.3	<0.1	0.05	4	0.8	<0.2
ROS 162579	Soil	12	25	0.58	231	0.078	2	1.43	0.024	0.09	0.3	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159795	Soil	6	13	0.22	80	0.005	<1	0.98	0.007	0.07	0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 162583	Soil	10	14	0.22	58	0.054	2	0.69	0.010	0.13	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 151444	Soil	19	28	0.50	262	0.061	2	1.71	0.019	0.06	0.2	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 159801	Soil	35	25	0.50	222	0.080	2	1.40	0.022	0.15	0.1	0.06	3.9	0.1	<0.05	5	1.1	<0.2
ROS 162577	Soil	12	27	0.84	259	0.084	3	1.20	0.034	0.13	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 162580	Soil	13	28	0.57	281	0.085	2	1.44	0.029	0.06	0.2	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 151419	Soil	19	32	0.55	267	0.084	2	2.06	0.024	0.06	0.1	0.24	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 151134	Soil	14	26	0.61	381	0.078	3	1.33	0.032	0.07	0.3	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151135	Soil	13	26	0.58	290	0.072	3	1.31	0.032	0.07	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151132	Soil	26	30	0.58	468	0.058	3	1.84	0.020	0.06	0.2	0.13	4.6	<0.1	<0.05	6	<0.5	<0.2
ROS 162631	Soil	18	23	0.46	139	0.116	<1	2.00	0.012	0.16	0.1	0.02	2.9	0.1	<0.05	8	<0.5	<0.2
ROS 151128	Soil	86	26	0.34	486	0.017	2	1.14	0.012	0.12	0.2	0.99	8.7	<0.1	<0.05	5	<0.5	0.9
ROS 151137	Soil	9	29	0.45	211	0.076	<1	1.90	0.013	0.07	0.1	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
ROS 151127	Soil	40	39	0.95	339	0.061	2	2.29	0.014	0.04	<0.1	0.38	6.5	<0.1	<0.05	11	<0.5	<0.2
ROS 162633	Soil	28	21	0.68	164	0.144	<1	2.34	0.016	0.44	0.1	0.02	4.0	0.3	<0.05	9	<0.5	<0.2
ROS 151129	Soil	8	23	0.59	296	0.023	2	1.91	0.009	0.12	0.2	0.11	3.7	<0.1	<0.05	8	<0.5	<0.2
ROS 151131	Soil	19	35	0.61	485	0.069	<1	2.14	0.017	0.06	0.1	0.11	4.4	<0.1	<0.05	7	<0.5	<0.2
ROS 151126	Soil	41	21	0.23	332	0.005	<1	1.28	0.005	0.05	<0.1	0.43	10.4	<0.1	<0.05	6	0.9	<0.2
ROS 162625	Soil	9	21	0.85	155	0.127	<1	1.84	0.013	0.54	0.1	0.03	2.7	0.2	<0.05	7	0.5	<0.2
ROS 151430	Soil	26	31	0.45	293	0.068	1	1.94	0.016	0.06	0.2	0.04	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 151431	Soil	8	21	0.27	111	0.056	<1	1.37	0.010	0.06	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
ROS 151133	Soil	27	29	0.68	361	0.057	3	1.74	0.023	0.08	0.3	0.15	5.0	<0.1	<0.05	7	<0.5	<0.2
ROS 162637	Soil	32	25	0.76	179	0.152	<1	2.16	0.022	0.33	0.1	0.02	4.1	0.2	<0.05	7	<0.5	<0.2
ROS 162635	Soil	23	21	0.82	135	0.145	<1	2.33	0.009	0.31	0.2	0.01	3.5	0.2	<0.05	8	<0.5	<0.2
ROS 162597	Soil	21	14	0.56	125	0.064	1	2.13	0.016	0.42	0.3	0.03	4.2	0.3	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 161204	Soil	1.0	16.7	6.5	55	<0.1	13.4	6.3	492	2.39	3.5	1.0	2.5	13.9	17	<0.1	0.3	0.2	40	0.22	0.045
ROS 162587	Soil	0.9	22.1	7.6	69	0.1	16.9	10.3	573	2.58	4.9	0.7	2.4	2.5	29	0.2	0.5	0.1	59	0.52	0.062
ROS 162629	Soil	0.8	19.8	8.1	68	<0.1	13.7	8.9	493	3.21	4.0	2.0	0.9	11.0	22	<0.1	0.3	0.1	61	0.19	0.022
ROS 161200	Soil	0.9	17.0	7.7	46	<0.1	14.8	7.7	231	2.47	6.3	1.0	1.2	7.7	18	<0.1	0.5	0.2	56	0.19	0.014
ROS 161202	Soil	0.9	29.1	6.3	44	<0.1	12.4	7.3	274	2.31	4.8	1.2	2.3	7.0	18	<0.1	0.4	0.1	44	0.19	0.015
ROS 162589	Soil	1.4	38.9	20.8	121	0.1	27.9	14.5	870	3.40	4.6	2.1	5.0	6.7	51	0.3	0.4	0.2	65	1.34	0.065
ROS 162630	Soil	0.7	19.6	7.2	73	<0.1	14.6	8.6	484	3.26	4.5	1.9	2.2	10.5	22	<0.1	0.2	0.1	61	0.18	0.022
ROS 161201	Soil	1.0	53.9	6.3	50	<0.1	16.0	6.8	287	2.59	5.6	0.8	1.9	7.7	23	<0.1	0.4	0.2	47	0.29	0.016
ROS 162582	Soil	0.8	19.9	6.1	56	<0.1	14.7	10.7	451	2.51	5.8	0.7	4.3	2.8	26	<0.1	0.5	0.1	61	0.47	0.083
ROS 162595	Soil	4.4	18.2	7.7	51	<0.1	11.4	7.8	680	3.02	6.5	0.7	2.4	7.8	12	<0.1	0.4	0.2	58	0.14	0.035
ROS 162628	Soil	2.9	89.8	4.3	104	<0.1	13.8	11.6	825	4.38	1.7	1.8	0.6	8.8	12	<0.1	0.1	<0.1	121	0.12	0.043
ROS 162581	Soil	0.8	18.3	6.5	53	<0.1	17.4	9.7	472	2.41	5.6	0.7	5.2	2.7	31	0.2	0.5	0.1	57	0.57	0.066
ROS 162596	Soil	2.9	24.7	6.4	50	<0.1	5.0	9.1	464	3.59	1.9	1.5	1.7	18.1	21	<0.1	0.2	0.1	47	0.29	0.043
ROS 162590	Soil	1.2	29.9	11.9	70	0.2	24.3	13.5	921	2.93	7.3	1.0	3.0	4.9	34	0.1	0.6	0.2	60	0.66	0.048
ROS 159662	Soil	0.9	15.8	6.7	45	<0.1	13.4	7.7	278	2.18	6.6	0.8	3.0	4.1	29	<0.1	0.5	0.1	52	0.44	0.067
ROS 159672	Soil	0.8	9.9	5.9	72	<0.1	12.1	8.0	403	2.34	4.2	1.1	2.0	7.2	18	<0.1	0.2	0.1	43	0.29	0.065
ROS 159669	Soil	0.9	8.8	6.3	58	<0.1	10.7	7.1	294	2.32	5.4	0.9	1.6	6.7	22	<0.1	0.3	0.1	49	0.34	0.067
ROS 159671	Soil	0.8	9.8	5.7	68	<0.1	11.5	8.2	385	2.33	4.3	1.0	8.3	6.9	19	<0.1	0.3	0.1	47	0.30	0.059
ROS 159971	Soil	1.5	20.3	7.5	58	<0.1	18.0	9.3	394	2.70	7.2	1.1	4.5	8.6	25	<0.1	0.4	0.2	55	0.37	0.053
ROS 159972	Soil	1.8	22.8	7.2	58	<0.1	18.1	8.4	324	2.33	6.7	1.1	5.4	4.6	41	0.2	0.5	0.1	51	0.66	0.076
ROS 159973	Soil	1.2	26.7	7.8	64	<0.1	23.6	8.8	358	2.72	9.2	1.4	6.1	6.9	30	<0.1	0.5	0.1	54	0.49	0.075
ROS 159974	Soil	1.9	24.6	7.6	61	<0.1	21.2	8.8	379	2.56	8.8	1.3	1.5	5.0	38	<0.1	0.4	0.1	56	0.70	0.061
ROS 159670	Soil	0.7	9.4	6.7	60	<0.1	10.5	8.1	352	2.39	5.2	1.0	2.6	7.5	22	<0.1	0.3	0.1	48	0.34	0.071
ROS 159674	Soil	1.2	25.2	7.5	63	<0.1	17.9	7.9	464	2.67	5.7	4.4	3.2	10.0	39	0.1	0.5	0.1	53	0.77	0.058
ROS 159665	Soil	0.9	13.1	6.5	67	<0.1	14.2	8.7	516	2.60	6.7	1.0	1.0	9.3	29	0.2	0.3	0.2	50	0.44	0.080
ROS 159654	Soil	0.8	11.6	6.2	58	<0.1	10.0	5.9	298	2.56	3.2	0.8	3.8	6.8	16	<0.1	0.3	0.2	50	0.20	0.037
ROS 162853	Soil	1.6	18.8	6.4	70	<0.1	13.9	9.3	734	2.92	4.4	2.3	3.5	8.5	42	<0.1	0.3	0.2	52	0.85	0.049
ROS 159965	Soil	0.4	26.9	7.5	64	<0.1	14.6	8.1	240	2.52	6.7	1.3	2.5	8.7	27	0.2	0.5	0.1	50	0.42	0.066
ROS 162852	Soil	1.6	19.5	6.6	68	<0.1	14.1	9.8	779	3.11	4.7	2.3	1.9	8.8	40	0.1	0.3	0.2	55	0.86	0.050
ROS 159673	Soil	0.6	18.7	6.2	64	<0.1	16.1	10.4	408	2.52	6.2	1.1	4.9	3.6	39	0.1	0.4	0.1	54	0.56	0.086

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 161204	Soil	26	20	0.45	188	0.064	<1	1.39	0.011	0.16	<0.1	<0.01	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 162587	Soil	13	27	0.56	265	0.066	2	1.46	0.020	0.12	0.2	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 162629	Soil	40	22	0.72	135	0.153	1	2.36	0.011	0.30	<0.1	0.02	4.7	0.3	<0.05	9	<0.5	<0.2
ROS 161200	Soil	23	32	0.51	177	0.077	1	1.64	0.011	0.08	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 161202	Soil	28	25	0.49	154	0.079	<1	1.56	0.012	0.11	0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 162589	Soil	35	43	1.13	447	0.092	2	2.05	0.020	0.39	0.2	0.09	7.0	0.2	0.06	7	0.6	<0.2
ROS 162630	Soil	40	22	0.78	138	0.158	1	2.41	0.013	0.31	<0.1	<0.01	4.5	0.2	<0.05	9	<0.5	<0.2
ROS 161201	Soil	27	27	0.51	180	0.079	1	1.62	0.013	0.11	0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 162582	Soil	12	23	0.51	229	0.067	2	1.35	0.020	0.09	0.3	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 162595	Soil	13	27	0.47	157	0.070	<1	1.78	0.010	0.16	0.4	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 162628	Soil	18	29	1.52	96	0.243	<1	2.53	0.016	1.07	<0.1	<0.01	10.0	0.4	<0.05	15	<0.5	<0.2
ROS 162581	Soil	12	26	0.54	252	0.063	2	1.32	0.021	0.05	0.3	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 162596	Soil	71	10	0.77	145	0.094	1	2.30	0.009	0.52	0.4	<0.01	5.0	0.5	<0.05	8	<0.5	<0.2
ROS 162590	Soil	25	34	0.68	387	0.086	1	1.84	0.028	0.15	0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 159662	Soil	14	24	0.45	220	0.069	<1	1.39	0.017	0.05	0.3	0.02	3.0	<0.1	<0.05	4	0.6	<0.2
ROS 159672	Soil	18	23	0.60	125	0.102	1	1.46	0.011	0.31	0.1	<0.01	3.3	0.2	<0.05	6	<0.5	0.2
ROS 159669	Soil	19	20	0.51	148	0.081	2	1.51	0.011	0.13	0.1	<0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 159671	Soil	17	23	0.56	126	0.099	1	1.45	0.011	0.24	<0.1	0.01	3.2	0.2	<0.05	6	<0.5	<0.2
ROS 159971	Soil	19	31	0.57	213	0.087	2	1.70	0.025	0.11	0.1	0.02	4.6	<0.1	<0.05	6	0.5	<0.2
ROS 159972	Soil	18	27	0.53	211	0.075	2	1.51	0.019	0.09	0.1	0.05	4.2	<0.1	<0.05	5	0.7	<0.2
ROS 159973	Soil	21	31	0.60	237	0.089	2	1.71	0.022	0.11	0.2	0.03	5.5	0.1	<0.05	6	<0.5	<0.2
ROS 159974	Soil	17	30	0.60	236	0.069	<1	1.62	0.017	0.06	0.2	0.03	4.1	<0.1	<0.05	6	0.7	<0.2
ROS 159670	Soil	21	21	0.54	143	0.095	1	1.61	0.015	0.18	0.2	0.01	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 159674	Soil	28	25	0.56	161	0.104	2	1.59	0.019	0.23	0.2	0.03	5.2	0.2	<0.05	6	1.4	<0.2
ROS 159665	Soil	22	22	0.52	186	0.087	1	1.45	0.018	0.17	<0.1	0.01	3.7	0.1	<0.05	5	0.9	<0.2
ROS 159654	Soil	19	20	0.49	179	0.105	3	1.53	0.011	0.25	0.2	0.02	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 162853	Soil	41	23	0.71	208	0.118	3	1.70	0.019	0.38	0.2	0.04	5.7	0.2	<0.05	7	0.7	0.2
ROS 159965	Soil	26	22	0.62	219	0.086	2	1.56	0.018	0.17	0.2	0.03	3.9	0.1	<0.05	6	0.6	<0.2
ROS 162852	Soil	38	25	0.75	210	0.128	2	1.70	0.019	0.41	0.2	0.03	6.0	0.3	<0.05	7	0.9	<0.2
ROS 159673	Soil	16	23	0.57	206	0.079	<1	1.37	0.022	0.10	0.2	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 162769	Soil	1.9	48.3	4.5	122	<0.1	20.2	15.1	846	4.77	2.8	0.3	1.6	2.7	32	<0.1	0.3	<0.1	102	0.68	0.080
ROS 162768	Soil	1.1	31.1	7.8	63	<0.1	21.7	9.6	333	3.02	7.8	0.6	5.3	4.9	31	<0.1	0.6	0.1	63	0.51	0.058
ROS 162770	Soil	7.1	44.0	7.2	101	<0.1	45.2	14.6	689	4.08	8.2	0.6	2.8	4.8	33	0.4	0.3	<0.1	75	0.81	0.104
ROS 162771	Soil	2.1	60.8	3.1	137	0.2	153.5	48.9	1849	8.92	3.4	2.8	2.0	2.7	121	0.3	0.1	<0.1	136	2.71	0.482
ROS 162767	Soil	0.4	17.6	4.4	65	<0.1	13.5	10.4	542	3.01	2.6	0.8	2.8	6.1	85	<0.1	0.3	<0.1	72	1.04	0.063
ROS 162772	Soil	2.0	61.1	3.2	129	0.2	152.9	47.9	1841	8.76	2.5	2.6	2.2	2.3	127	0.5	<0.1	<0.1	121	2.95	0.445
ROS 162773	Soil	2.8	28.4	7.9	63	0.2	33.1	11.0	569	2.84	7.7	1.5	3.4	2.5	43	0.4	0.4	0.1	61	0.99	0.099
ROS 162775	Soil	2.0	15.9	8.5	58	<0.1	16.2	7.4	382	2.23	5.1	1.4	1.1	11.8	24	<0.1	0.4	0.1	42	0.58	0.047
ROS 162774	Soil	0.8	16.8	13.1	44	0.1	12.9	5.2	434	1.63	4.5	1.2	26.1	13.4	17	0.2	1.0	<0.1	24	0.39	0.032
ROS 162777	Soil	0.6	27.9	7.9	45	0.1	22.7	10.1	343	2.16	6.9	1.5	1.7	2.6	44	0.2	0.5	0.1	43	0.94	0.075
ROS 162776	Soil	2.0	7.7	6.7	206	<0.1	7.5	9.1	521	3.16	3.0	0.9	<0.5	1.7	10	<0.1	0.3	<0.1	43	0.24	0.045
ROS 162766	Soil	0.7	22.6	8.3	142	<0.1	14.2	7.7	381	2.61	4.8	1.0	0.5	5.6	68	<0.1	0.3	0.1	54	0.66	0.055
ROS 152567	Soil	1.3	14.3	14.2	47	0.3	11.7	6.8	222	2.33	7.3	0.6	0.6	3.1	9	<0.1	0.9	0.2	48	0.14	0.011
ROS 152571	Soil	0.7	28.8	10.5	42	0.2	21.1	8.2	273	2.30	7.5	1.3	4.0	7.9	22	0.1	1.0	0.2	52	0.58	0.031
ROS 152569	Soil	1.3	22.1	12.8	48	0.4	21.5	8.6	183	2.61	8.4	0.9	2.8	6.9	18	<0.1	0.7	0.2	61	0.35	0.011
ROS 152570	Soil	1.2	17.3	7.8	23	0.2	6.5	2.4	136	0.98	1.8	0.4	1.3	2.3	15	0.2	0.4	0.1	26	0.39	0.014
ROS 152590	Soil	1.5	29.1	12.4	43	1.3	21.5	7.7	263	2.21	5.7	1.5	1.7	7.2	26	0.1	1.7	0.2	50	0.51	0.026
ROS 152591	Soil	2.6	46.7	25.8	40	3.7	20.0	16.2	917	2.80	7.2	2.4	2.6	8.2	45	0.3	1.5	0.3	58	0.72	0.052
ROS 152575	Soil	0.8	17.8	12.0	54	0.2	16.5	8.0	304	2.07	6.1	0.9	1.9	4.8	25	0.2	0.8	0.2	46	0.55	0.037
ROS 152587	Soil	0.5	38.8	9.8	49	0.3	33.8	9.8	515	2.06	5.7	1.8	2.7	3.5	41	0.1	2.1	0.1	50	1.47	0.071
ROS 152589	Soil	1.8	31.9	14.5	46	1.7	21.4	8.4	370	2.34	6.0	2.1	2.9	8.8	31	0.2	2.5	0.2	47	0.72	0.035
ROS 152572	Soil	0.7	28.0	10.4	53	0.4	20.7	8.4	365	2.23	7.9	1.2	2.3	3.4	31	0.3	0.9	0.2	45	1.23	0.044
ROS 152573	Soil	0.6	29.6	9.1	46	0.2	19.8	7.1	327	1.99	7.4	1.2	1.3	3.0	32	0.2	0.8	0.2	43	1.35	0.046
ROS 152568	Soil	1.2	15.6	11.0	36	0.2	20.2	7.8	198	2.59	7.6	0.6	1.2	3.5	17	<0.1	0.5	0.2	63	0.23	0.019
ROS 151422	Soil	0.2	36.3	10.9	57	<0.1	30.6	10.8	318	2.52	11.6	0.6	3.3	3.9	25	0.5	0.9	0.2	56	1.33	0.061
ROS 151428	Soil	1.2	17.4	14.0	54	<0.1	16.7	6.8	295	2.13	4.7	1.4	2.8	8.5	20	0.1	0.8	0.1	47	0.51	0.036
ROS 151426	Soil	0.4	28.0	16.1	49	0.1	18.8	8.9	350	2.27	8.5	1.5	3.3	5.9	25	<0.1	0.9	0.3	48	0.95	0.045
ROS 152673	Soil	0.5	29.9	8.6	51	0.1	23.1	8.9	414	2.22	9.4	0.8	3.4	3.2	36	0.3	0.9	0.1	49	1.19	0.060
ROS 152669	Soil	0.6	21.5	11.2	99	0.2	11.2	13.4	535	3.56	5.0	1.4	2.7	5.0	39	0.2	1.7	0.1	83	1.27	0.127
ROS 152670	Soil	0.5	32.0	7.6	62	0.1	19.1	9.9	403	2.33	7.7	0.5	8.3	2.0	51	0.2	0.7	0.1	56	1.24	0.068

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
ROS 162769	Soil	17	31	1.05	214	0.080	<1	2.61	0.017	0.33	<0.1	0.02	14.3	0.2	<0.05	11	0.5	<0.2
ROS 162768	Soil	17	31	0.64	221	0.077	1	2.03	0.016	0.09	<0.1	0.03	6.4	<0.1	<0.05	7	<0.5	<0.2
ROS 162770	Soil	23	37	0.93	185	0.008	<1	2.62	0.012	0.03	<0.1	0.02	6.2	<0.1	<0.05	10	0.8	0.2
ROS 162771	Soil	39	182	2.12	302	0.124	1	3.09	0.019	0.67	<0.1	0.01	7.5	<0.1	<0.05	22	<0.5	<0.2
ROS 162767	Soil	14	20	1.03	248	0.166	1	2.54	0.014	0.33	<0.1	0.01	4.8	0.1	<0.05	10	0.6	<0.2
ROS 162772	Soil	34	177	2.06	279	0.104	2	2.93	0.014	0.68	<0.1	0.02	6.4	<0.1	<0.05	21	0.8	<0.2
ROS 162773	Soil	17	35	0.61	310	0.048	<1	1.52	0.017	0.04	0.2	0.03	4.1	<0.1	<0.05	5	0.9	<0.2
ROS 162775	Soil	33	20	0.52	97	0.050	<1	1.22	0.012	0.12	0.1	0.03	3.4	<0.1	<0.05	5	0.8	<0.2
ROS 162774	Soil	25	11	0.26	108	0.010	<1	0.84	0.013	0.04	0.1	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
ROS 162777	Soil	15	23	0.44	241	0.047	1	1.14	0.017	0.05	0.1	0.03	2.9	<0.1	<0.05	3	0.5	<0.2
ROS 162776	Soil	4	12	0.24	66	0.027	<1	0.82	0.005	0.11	0.2	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
ROS 162766	Soil	16	24	0.75	238	0.118	<1	2.02	0.012	0.29	<0.1	0.03	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 152567	Soil	8	20	0.28	278	0.017	<1	1.18	0.008	0.04	0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
ROS 152571	Soil	28	30	0.44	305	0.052	<1	1.57	0.013	0.04	0.1	0.07	3.7	<0.1	<0.05	5	0.5	<0.2
ROS 152569	Soil	16	36	0.42	243	0.050	<1	1.86	0.010	0.04	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 152570	Soil	7	13	0.11	135	0.034	<1	0.60	0.008	0.05	0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
ROS 152590	Soil	23	32	0.36	704	0.054	<1	1.48	0.012	0.05	0.2	0.09	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 152591	Soil	36	31	0.27	838	0.044	<1	2.06	0.010	0.08	0.1	0.15	4.2	<0.1	<0.05	7	<0.5	<0.2
ROS 152575	Soil	12	25	0.39	281	0.050	<1	1.33	0.015	0.04	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 152587	Soil	16	44	0.55	364	0.051	2	1.26	0.014	0.04	0.2	0.17	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 152589	Soil	24	30	0.36	692	0.047	<1	1.61	0.015	0.05	0.2	0.14	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 152572	Soil	18	25	0.43	289	0.038	<1	1.42	0.013	0.04	0.1	0.07	3.0	<0.1	<0.05	4	<0.5	0.3
ROS 152573	Soil	20	22	0.38	241	0.043	2	1.28	0.013	0.04	0.1	0.07	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 152568	Soil	9	34	0.41	326	0.050	<1	1.80	0.010	0.03	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 151422	Soil	16	28	0.47	217	0.066	2	1.43	0.017	0.05	0.2	0.07	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151428	Soil	23	26	0.34	299	0.054	<1	1.27	0.011	0.05	0.2	0.02	2.7	<0.1	<0.05	4	0.6	<0.2
ROS 151426	Soil	25	24	0.38	254	0.041	<1	1.33	0.013	0.04	0.1	0.07	3.3	<0.1	<0.05	4	<0.5	0.2
ROS 152673	Soil	12	26	0.58	255	0.063	2	1.22	0.019	0.06	0.2	0.05	3.2	<0.1	<0.05	4	0.7	<0.2
ROS 152669	Soil	16	21	0.88	397	0.056	2	1.49	0.015	0.12	0.1	0.12	6.9	<0.1	<0.05	6	<0.5	<0.2
ROS 152670	Soil	10	26	0.70	218	0.068	1	1.26	0.018	0.07	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2

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 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 152672	Soil	0.4	29.1	8.0	50	<0.1	22.4	8.2	352	2.06	8.1	0.9	4.2	2.3	39	0.2	0.8	0.1	45	1.56	0.063
ROS 152665	Soil	0.8	10.6	9.5	78	<0.1	12.4	6.6	271	2.17	3.3	0.9	1.1	4.3	27	0.2	0.9	0.1	44	0.60	0.050
ROS 151427	Soil	0.9	13.5	13.0	52	<0.1	14.2	6.3	216	1.98	6.0	0.6	0.9	3.0	17	0.2	0.4	0.3	48	0.42	0.037
ROS 152671	Soil	0.5	31.1	8.5	51	0.1	23.2	8.7	353	2.23	9.2	0.5	3.3	3.1	37	0.3	0.8	0.1	51	1.42	0.066
ROS 151425	Soil	0.3	32.3	44.9	55	0.1	22.2	9.8	438	2.54	9.5	1.1	5.1	6.4	27	0.3	1.0	0.3	53	1.03	0.051
ROS 151423	Soil	0.2	34.2	10.7	55	0.1	28.2	9.9	275	2.37	10.2	0.8	2.7	3.4	25	0.2	1.0	0.2	56	1.02	0.054
ROS 152578	Soil	1.8	33.2	15.8	49	0.3	18.2	8.2	379	2.23	5.8	1.8	1.5	8.0	26	0.2	1.0	0.2	45	0.43	0.043
ROS 152581	Soil	3.9	14.9	13.7	52	<0.1	13.4	7.8	313	2.46	5.1	0.6	6.8	6.2	11	0.3	0.4	0.4	52	0.15	0.031
ROS 152579	Soil	1.8	18.9	9.7	34	0.1	12.8	6.5	598	1.86	3.7	0.8	2.0	3.3	21	0.2	0.5	0.2	42	0.35	0.026
ROS 152611	Soil	1.0	7.1	9.6	27	0.2	8.6	4.2	153	1.96	5.2	0.3	0.9	2.5	10	0.1	0.8	0.2	56	0.12	0.014
ROS 152612	Soil	1.1	13.3	15.8	43	0.3	12.7	6.5	258	1.94	4.6	0.5	5.9	2.2	16	0.2	0.8	0.1	46	0.37	0.025
ROS 152580	Soil	3.1	21.2	13.2	66	0.1	18.5	8.3	415	2.78	5.8	2.1	3.0	14.4	28	<0.1	0.6	0.4	50	0.47	0.047
ROS 152610	Soil	1.1	19.4	12.7	47	1.5	16.9	8.3	300	2.67	7.7	0.8	2.7	5.7	20	<0.1	3.3	0.2	54	0.24	0.025
ROS 152576	Soil	1.0	23.6	37.0	61	0.3	14.9	7.2	245	2.37	5.4	1.2	2.4	11.5	27	0.1	1.6	0.3	45	0.43	0.032
ROS 152613	Soil	1.4	13.0	14.3	53	0.3	14.0	7.5	540	1.92	4.5	0.5	7.5	4.0	20	0.1	0.8	0.1	35	0.63	0.028
ROS 152574	Soil	0.6	18.7	13.7	48	0.1	18.8	9.1	359	2.45	8.5	1.1	2.5	5.9	28	0.1	0.8	0.2	55	0.70	0.033
ROS 152609	Soil	1.4	20.6	15.4	45	1.3	15.1	5.9	223	2.33	6.1	0.9	3.0	7.8	25	<0.1	2.7	0.2	49	0.27	0.030
ROS 152577	Soil	0.7	32.2	13.3	57	0.2	23.2	9.6	369	2.56	9.3	0.7	1.9	6.4	39	0.1	0.9	0.2	53	0.82	0.066
ROS 159358	Soil	1.8	23.8	50.3	106	<0.1	13.0	11.9	950	3.79	4.5	2.6	<0.5	21.0	24	<0.1	0.3	0.6	52	0.36	0.067
ROS 162764	Soil	0.6	22.8	8.4	55	<0.1	17.0	8.0	235	2.54	7.3	1.3	2.2	5.4	34	0.1	0.5	0.2	56	0.38	0.050
ROS 162765	Soil	0.9	25.0	9.1	60	<0.1	17.0	9.4	280	2.66	7.6	1.1	3.3	4.3	30	<0.1	0.5	0.2	60	0.33	0.045
ROS 173128	Soil	0.9	27.3	9.8	53	<0.1	27.9	9.8	349	2.99	12.0	1.0	2.4	6.8	32	<0.1	0.8	0.2	64	0.36	0.029
ROS 159359	Soil	0.9	37.9	9.8	69	0.1	29.8	11.8	493	2.69	10.5	0.6	2.6	3.1	93	0.3	0.8	0.2	60	3.95	0.084
ROS 162763	Soil	1.3	15.0	7.8	61	0.1	12.0	8.1	272	2.43	5.5	1.6	1.0	4.0	32	<0.1	0.3	0.2	53	0.32	0.050
ROS 173129	Soil	0.9	18.5	8.0	46	<0.1	19.2	8.7	255	2.52	8.0	0.8	2.7	6.6	26	<0.1	0.4	0.2	54	0.30	0.024
ROS 173124	Soil	0.8	34.3	6.2	68	<0.1	21.2	12.9	509	3.19	4.9	1.5	3.3	5.3	51	0.2	0.3	0.1	75	1.10	0.112
ROS 162527	Soil	0.5	23.9	15.9	273	<0.1	26.8	13.1	948	3.65	3.6	1.7	1.1	19.0	30	0.2	0.3	0.3	52	0.49	0.058
ROS 162563	Soil	1.0	25.0	7.5	73	<0.1	19.8	10.9	701	3.19	5.8	1.3	1.6	11.4	24	<0.1	0.4	0.1	57	0.38	0.056
ROS 162561	Soil	0.7	34.0	9.2	58	0.1	22.9	10.6	499	2.61	8.4	2.6	1.7	5.3	46	0.1	0.6	0.2	56	0.66	0.060
ROS 160995	Soil	0.6	16.6	13.0	69	<0.1	12.5	8.9	373	2.73	5.2	1.1	1.5	7.7	27	<0.1	0.5	0.2	50	0.31	0.019

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Project: ROS
 Report Date: November 22, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 152672	Soil	11	23	0.59	253	0.053	2	1.11	0.017	0.05	0.2	0.04	2.8	<0.1	<0.05	3	0.9	<0.2
ROS 152665	Soil	14	20	0.47	345	0.043	<1	1.21	0.008	0.09	0.1	0.07	2.5	<0.1	<0.05	6	<0.5	<0.2
ROS 151427	Soil	11	22	0.31	185	0.045	<1	1.32	0.010	0.05	0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
ROS 152671	Soil	12	25	0.67	239	0.063	<1	1.17	0.020	0.06	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151425	Soil	31	26	0.43	252	0.053	1	1.41	0.014	0.05	0.2	0.08	4.0	<0.1	<0.05	4	0.7	<0.2
ROS 151423	Soil	15	28	0.45	252	0.058	2	1.42	0.016	0.04	0.2	0.09	4.1	<0.1	0.05	4	0.6	<0.2
ROS 152578	Soil	31	24	0.38	345	0.051	<1	1.26	0.013	0.07	0.2	0.05	3.3	<0.1	<0.05	4	<0.5	0.3
ROS 152581	Soil	10	24	0.37	150	0.059	<1	1.41	0.009	0.13	0.2	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
ROS 152579	Soil	9	19	0.28	260	0.048	<1	1.02	0.014	0.09	0.1	0.03	1.9	<0.1	<0.05	4	<0.5	0.2
ROS 152611	Soil	9	17	0.19	158	0.029	<1	1.03	0.006	0.04	0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
ROS 152612	Soil	12	21	0.30	285	0.034	2	1.44	0.010	0.05	0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 152580	Soil	36	29	0.55	285	0.072	1	1.68	0.016	0.15	0.2	0.04	4.7	0.1	<0.05	5	<0.5	<0.2
ROS 152610	Soil	16	27	0.37	648	0.032	3	1.83	0.009	0.08	0.2	0.07	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 152576	Soil	27	24	0.43	277	0.067	<1	1.53	0.020	0.11	0.2	0.06	3.5	0.1	<0.05	5	<0.5	<0.2
ROS 152613	Soil	17	23	0.31	354	0.018	2	1.40	0.008	0.06	<0.1	0.08	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 152574	Soil	14	29	0.45	302	0.066	1	1.79	0.018	0.05	0.2	0.03	3.9	<0.1	<0.05	5	0.5	<0.2
ROS 152609	Soil	32	26	0.36	562	0.045	2	1.81	0.013	0.09	0.1	0.10	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 152577	Soil	20	28	0.57	346	0.074	2	1.55	0.030	0.08	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 159358	Soil	20	23	0.73	133	0.084	1	2.30	0.009	0.43	0.2	0.02	5.0	0.4	<0.05	10	<0.5	<0.2
ROS 162764	Soil	17	28	0.51	262	0.094	1	1.80	0.019	0.06	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 162765	Soil	16	30	0.49	242	0.096	1	1.94	0.015	0.07	0.2	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
ROS 173128	Soil	21	39	0.60	264	0.097	1	1.75	0.022	0.09	0.1	0.03	6.8	<0.1	<0.05	5	<0.5	<0.2
ROS 159359	Soil	15	30	0.81	286	0.081	4	1.55	0.035	0.13	0.2	0.03	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 162763	Soil	20	22	0.47	178	0.086	1	1.84	0.012	0.11	0.1	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 173129	Soil	18	29	0.47	233	0.078	<1	1.67	0.016	0.09	0.2	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 173124	Soil	22	29	1.10	245	0.086	1	2.14	0.018	0.17	<0.1	0.04	6.0	<0.1	<0.05	7	<0.5	<0.2
ROS 162527	Soil	67	30	1.14	288	0.173	1	2.29	0.013	0.69	0.1	0.03	5.9	0.4	<0.05	8	<0.5	<0.2
ROS 162563	Soil	25	21	0.81	251	0.124	2	1.88	0.017	0.54	0.1	0.02	6.5	0.2	<0.05	7	<0.5	<0.2
ROS 162561	Soil	19	29	0.53	348	0.080	1	1.62	0.027	0.06	0.2	0.05	4.7	<0.1	<0.05	5	0.6	<0.2
ROS 160995	Soil	20	23	0.52	227	0.090	1	1.50	0.012	0.16	0.1	<0.01	4.6	0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 162565	Soil	0.6	14.3	6.9	64	<0.1	10.4	7.9	364	2.46	3.9	0.8	2.2	9.0	24	<0.1	0.2	0.1	44	0.33	0.058
ROS 160996	Soil	0.8	29.2	13.7	84	<0.1	16.6	8.0	416	2.84	4.9	1.5	2.5	9.4	23	<0.1	0.5	0.3	54	0.28	0.028
ROS 162562	Soil	0.9	27.7	8.4	54	0.1	21.1	9.0	351	2.46	8.4	2.4	2.7	4.5	46	0.2	0.6	0.2	54	0.66	0.067
ROS 160992	Soil	1.2	21.2	5.5	120	<0.1	10.7	8.6	760	3.30	3.5	2.8	1.4	13.8	19	<0.1	0.4	<0.1	45	0.31	0.037
ROS 162528	Soil	0.7	31.5	13.8	114	<0.1	23.3	11.7	533	3.26	6.1	1.3	2.5	9.4	29	0.3	0.5	0.2	62	0.44	0.040
ROS 162566	Soil	0.8	22.2	8.9	57	0.1	17.0	9.4	290	2.63	6.4	1.2	1.0	5.1	39	0.1	0.5	0.2	51	0.49	0.061
ROS 160993	Soil	0.3	8.7	2.9	75	<0.1	5.7	6.9	441	2.73	4.7	0.9	1.0	10.9	17	<0.1	0.2	<0.1	31	0.33	0.063
ROS 162526	Soil	0.8	44.2	24.9	153	<0.1	39.3	17.5	951	4.20	3.6	2.7	1.9	20.4	20	0.2	0.3	0.2	54	0.49	0.129
ROS 161006	Soil	1.1	19.9	6.7	58	<0.1	18.0	8.7	365	2.22	6.3	2.7	6.8	4.8	47	0.2	0.4	0.1	44	0.77	0.079
ROS 161003	Soil	0.8	12.5	5.6	44	<0.1	10.3	6.8	312	2.65	6.3	1.6	<0.5	13.0	18	<0.1	0.4	<0.1	38	0.21	0.023
ROS 161004	Soil	0.6	7.1	6.2	56	<0.1	7.2	5.7	426	2.72	2.7	1.4	<0.5	11.8	22	<0.1	0.3	<0.1	30	0.28	0.049
ROS 161005	Soil	0.8	22.8	8.7	76	0.1	17.6	10.9	450	2.55	5.2	3.7	7.2	4.0	39	0.2	0.5	0.1	53	0.44	0.069
ROS 161008	Soil	1.0	11.3	8.6	64	<0.1	16.5	9.8	391	3.37	4.4	0.7	1.7	7.0	18	<0.1	0.4	0.2	63	0.21	0.027
ROS 161007	Soil	0.9	11.4	8.2	64	<0.1	16.2	9.1	372	3.15	4.4	0.6	0.6	6.5	19	0.1	0.4	0.2	63	0.21	0.026
ROS 161009	Soil	2.0	15.0	5.2	48	<0.1	12.2	9.4	591	3.37	3.3	1.4	0.9	10.5	19	0.1	0.2	0.3	43	0.32	0.046
ROS 162850	Soil	0.5	19.3	7.9	64	<0.1	15.2	7.6	200	2.10	4.5	1.5	1.9	3.6	32	0.1	0.4	0.1	50	0.57	0.063
ROS 162848	Soil	0.9	13.2	7.3	68	<0.1	14.2	8.3	433	2.57	6.0	0.8	2.3	5.5	26	0.2	0.4	0.1	55	0.34	0.062
ROS 161010	Soil	1.8	14.4	5.0	48	<0.1	10.9	9.1	606	3.38	3.3	1.3	1.3	9.6	18	<0.1	0.3	0.3	44	0.33	0.051
ROS 162849	Soil	0.8	40.0	6.0	48	0.5	21.7	8.5	988	2.05	5.6	6.5	4.1	3.1	118	0.4	0.9	0.2	35	2.06	0.131
ROS 162851	Soil	0.7	20.9	8.7	68	<0.1	15.1	8.0	271	2.20	5.9	1.6	3.6	3.2	36	0.1	0.4	0.1	55	0.69	0.067



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
ROS 162565	Soil	20	19	0.57	173	0.100	<1	1.32	0.016	0.29	0.1	0.01	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 160996	Soil	28	25	0.60	243	0.119	1	1.73	0.017	0.30	0.1	0.02	6.3	0.2	<0.05	6	<0.5	<0.2
ROS 162562	Soil	16	27	0.51	302	0.080	2	1.50	0.030	0.06	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 160992	Soil	47	11	1.21	305	0.142	<1	1.93	0.009	0.46	<0.1	0.03	6.1	0.3	<0.05	8	<0.5	<0.2
ROS 162528	Soil	25	34	0.70	261	0.108	<1	2.10	0.018	0.30	<0.1	0.04	6.3	0.2	<0.05	7	<0.5	<0.2
ROS 162566	Soil	22	26	0.52	350	0.078	1	1.78	0.017	0.10	0.2	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 160993	Soil	31	7	1.11	194	0.123	<1	1.60	0.010	0.64	<0.1	<0.01	4.9	0.3	<0.05	7	<0.5	<0.2
ROS 162526	Soil	49	47	0.75	267	0.079	<1	1.94	0.015	0.68	<0.1	0.05	7.4	0.4	<0.05	7	<0.5	<0.2
ROS 161006	Soil	24	22	0.49	231	0.067	2	1.18	0.017	0.10	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 161003	Soil	19	16	0.54	157	0.089	<1	1.74	0.009	0.38	<0.1	<0.01	4.1	0.2	<0.05	6	<0.5	<0.2
ROS 161004	Soil	12	11	0.50	172	0.054	<1	1.59	0.008	0.45	<0.1	0.01	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 161005	Soil	19	26	0.54	311	0.057	<1	1.49	0.018	0.07	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 161008	Soil	10	31	0.65	174	0.093	<1	1.96	0.010	0.24	0.2	0.01	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 161007	Soil	10	31	0.61	186	0.091	<1	1.87	0.011	0.21	0.1	0.01	4.1	0.2	<0.05	8	<0.5	<0.2
ROS 161009	Soil	9	18	0.67	191	0.136	<1	1.77	0.011	0.53	0.2	0.01	4.4	0.4	<0.05	7	<0.5	<0.2
ROS 162850	Soil	16	23	0.53	209	0.068	2	1.31	0.021	0.07	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 162848	Soil	13	23	0.52	362	0.080	1	1.56	0.011	0.15	0.2	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 161010	Soil	8	17	0.66	189	0.151	<1	1.69	0.011	0.55	0.2	<0.01	4.7	0.4	<0.05	8	<0.5	<0.2
ROS 162849	Soil	156	19	0.40	623	0.025	4	1.57	0.014	0.10	<0.1	0.14	3.7	0.1	0.19	4	2.0	<0.2
ROS 162851	Soil	15	23	0.55	207	0.067	1	1.25	0.020	0.06	0.2	0.04	3.5	<0.1	0.05	4	<0.5	<0.2



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Project: ROS
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000630.1

Method	1DX15	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 152584	Soil	0.6	27.1	8.8	47	<0.1	24.7	10.3	407	2.54	10.0	0.8	7.2	4.2	30	<0.1	0.6	0.1	57	0.53	0.053
REP ROS 152584	QC	0.7	26.8	8.8	46	<0.1	24.4	10.3	405	2.54	10.2	0.8	5.5	4.3	31	<0.1	0.6	0.1	58	0.53	0.053
ROS 152634	Soil	0.5	31.2	7.4	52	<0.1	23.6	9.4	513	2.09	8.6	1.3	3.4	2.2	54	0.4	0.8	0.1	48	1.95	0.073
REP ROS 152634	QC	0.4	30.8	7.4	50	<0.1	22.9	9.6	513	2.07	8.4	1.4	1.9	2.2	52	0.3	0.8	0.1	47	1.96	0.072
ROS 151393	Soil	1.0	16.1	14.2	55	0.1	17.4	9.0	267	2.95	8.4	0.6	3.6	3.7	14	0.1	1.6	0.2	68	0.17	0.025
REP ROS 151393	QC	1.0	16.6	14.3	58	0.1	17.9	8.9	269	3.10	8.9	0.9	1.7	3.8	14	0.1	1.5	0.2	69	0.17	0.025
ROS 159680	Soil	1.2	20.0	8.9	73	0.2	13.6	6.8	281	2.79	5.1	1.6	2.0	4.2	22	0.1	0.3	0.2	68	0.17	0.036
REP ROS 159680	QC	1.2	19.9	8.9	69	0.2	13.0	6.7	270	2.71	5.2	1.5	1.2	3.9	21	<0.1	0.3	0.1	66	0.16	0.035
ROS 160851	Soil	0.8	20.0	8.0	56	<0.1	16.4	10.6	496	2.28	6.8	1.4	2.5	5.6	26	0.2	0.3	0.1	47	0.47	0.064
REP ROS 160851	QC	0.8	21.3	7.8	56	<0.1	15.8	11.2	507	2.36	6.8	1.5	6.3	5.4	27	0.2	0.4	0.1	50	0.51	0.063
ROS 162686	Soil	1.1	17.1	14.7	73	<0.1	19.6	10.2	491	3.21	7.4	1.2	1.1	11.7	20	<0.1	0.4	0.3	53	0.28	0.038
REP ROS 162686	QC	1.1	16.4	14.5	73	<0.1	16.9	10.0	506	3.16	7.2	1.2	1.1	11.6	19	0.1	0.4	0.3	53	0.27	0.037
ROS 161159	Soil	0.7	18.0	5.9	51	<0.1	11.6	8.5	360	2.46	4.5	1.5	4.2	8.2	26	<0.1	0.2	0.1	51	0.30	0.037
REP ROS 161159	QC	0.7	18.4	5.9	51	<0.1	12.7	9.2	350	2.48	4.6	1.4	2.8	8.3	27	<0.1	0.3	0.1	54	0.30	0.037
ROS 164727	Soil	0.5	15.4	4.1	57	<0.1	9.8	8.1	557	2.86	4.5	1.9	1.5	11.6	80	<0.1	0.1	0.1	49	1.20	0.058
REP ROS 164727	QC	0.5	16.3	4.3	59	<0.1	10.0	8.1	591	3.00	4.9	1.9	<0.5	11.9	83	<0.1	0.2	0.1	50	1.24	0.058
ROS 162760	Soil	1.0	26.0	9.5	69	0.2	10.6	7.7	322	2.56	5.3	2.0	4.5	6.1	27	0.1	0.3	0.2	51	0.23	0.041
REP ROS 162760	QC	1.0	25.4	9.4	67	0.2	10.8	7.6	310	2.48	5.3	1.9	1.4	6.1	25	0.1	0.3	0.2	48	0.22	0.040
ROS 151445	Soil	0.7	30.2	109.7	69	0.1	17.1	9.5	627	2.63	5.1	1.6	2.3	21.4	21	<0.1	1.1	0.3	43	0.48	0.054
REP ROS 151445	QC	0.7	29.7	111.0	66	0.1	16.1	9.0	603	2.59	5.2	1.8	1.8	21.8	21	<0.1	1.1	0.3	42	0.47	0.058
ROS 159781	Soil	0.9	19.7	7.9	58	<0.1	16.2	9.3	425	2.40	6.3	0.7	3.1	3.0	30	0.2	0.4	0.2	57	0.49	0.065
REP ROS 159781	QC	0.9	19.6	7.5	58	0.1	17.4	9.2	428	2.46	6.4	0.7	4.7	3.0	30	0.2	0.5	0.2	56	0.48	0.066
ROS 151133	Soil	0.5	27.2	14.2	98	0.2	19.1	10.6	494	3.15	7.2	1.0	8.6	7.7	47	0.2	2.5	0.2	66	0.99	0.084
REP ROS 151133	QC	0.4	27.5	14.5	96	0.2	18.6	11.6	506	3.14	7.2	1.0	6.8	7.7	49	0.2	2.3	0.2	65	0.97	0.080
ROS 162590	Soil	1.2	29.9	11.9	70	0.2	24.3	13.5	921	2.93	7.3	1.0	3.0	4.9	34	0.1	0.6	0.2	60	0.66	0.048
REP ROS 162590	QC	1.4	31.4	12.4	76	0.2	26.8	13.8	903	2.97	8.3	0.9	2.9	5.1	36	<0.1	0.6	0.2	62	0.66	0.050
ROS 159974	Soil	1.9	24.6	7.6	61	<0.1	21.2	8.8	379	2.56	8.8	1.3	1.5	5.0	38	<0.1	0.4	0.1	56	0.70	0.061
REP ROS 159974	QC	1.9	24.8	7.7	58	0.1	20.7	8.9	374	2.46	9.3	1.2	4.6	4.8	38	0.1	0.5	0.1	55	0.72	0.061

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Project: ROS
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000630.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 152584	Soil	14	30	0.49	259	0.067	<1	1.27	0.025	0.06	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
REP ROS 152584	QC	14	31	0.50	266	0.070	<1	1.31	0.022	0.06	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 152634	Soil	12	24	0.63	295	0.057	3	1.28	0.024	0.06	0.3	0.04	2.6	<0.1	0.06	4	0.8	<0.2
REP ROS 152634	QC	12	24	0.61	282	0.054	3	1.25	0.025	0.06	0.3	0.04	2.6	<0.1	<0.05	3	0.9	<0.2
ROS 151393	Soil	10	30	0.46	368	0.036	1	2.39	0.008	0.06	0.1	0.06	2.1	<0.1	<0.05	6	<0.5	<0.2
REP ROS 151393	QC	10	31	0.46	371	0.039	<1	2.42	0.008	0.05	0.2	0.06	2.2	<0.1	<0.05	7	<0.5	<0.2
ROS 159680	Soil	20	23	0.65	149	0.132	<1	2.09	0.012	0.11	0.1	0.04	3.4	0.1	<0.05	9	<0.5	<0.2
REP ROS 159680	QC	18	22	0.62	142	0.126	<1	2.15	0.012	0.10	<0.1	0.04	3.4	0.1	<0.05	9	<0.5	<0.2
ROS 160851	Soil	19	25	0.41	308	0.058	<1	1.28	0.019	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
REP ROS 160851	QC	20	26	0.43	317	0.061	1	1.38	0.014	0.07	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 162686	Soil	15	30	0.66	169	0.111	1	1.85	0.011	0.52	0.1	0.03	5.1	0.2	<0.05	7	<0.5	0.2
REP ROS 162686	QC	15	28	0.64	165	0.112	<1	1.75	0.013	0.50	0.1	0.02	5.0	0.2	<0.05	7	<0.5	0.2
ROS 161159	Soil	25	21	0.62	180	0.135	<1	1.41	0.017	0.26	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
REP ROS 161159	QC	25	21	0.61	188	0.137	<1	1.42	0.013	0.27	0.1	0.02	3.6	0.2	<0.05	5	<0.5	<0.2
ROS 164727	Soil	27	12	0.70	171	0.147	<1	2.99	0.017	0.68	<0.1	0.02	3.6	0.2	<0.05	10	<0.5	<0.2
REP ROS 164727	QC	28	13	0.68	177	0.148	<1	3.07	0.018	0.69	<0.1	0.02	3.7	0.3	<0.05	9	<0.5	<0.2
ROS 162760	Soil	25	20	0.49	159	0.088	<1	1.86	0.012	0.09	0.2	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
REP ROS 162760	QC	23	20	0.47	152	0.083	<1	1.81	0.011	0.09	0.2	0.04	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 151445	Soil	39	26	0.41	256	0.051	<1	1.52	0.013	0.13	0.2	0.04	4.8	0.1	<0.05	5	<0.5	<0.2
REP ROS 151445	QC	38	24	0.41	249	0.048	<1	1.44	0.013	0.13	0.2	0.04	4.9	0.2	<0.05	5	<0.5	<0.2
ROS 159781	Soil	12	24	0.51	253	0.064	2	1.26	0.020	0.07	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159781	QC	12	25	0.52	253	0.062	2	1.29	0.019	0.06	0.3	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 151133	Soil	27	29	0.68	361	0.057	3	1.74	0.023	0.08	0.3	0.15	5.0	<0.1	<0.05	7	<0.5	<0.2
REP ROS 151133	QC	27	31	0.67	355	0.061	3	1.76	0.023	0.08	0.2	0.17	5.2	<0.1	<0.05	7	0.6	<0.2
ROS 162590	Soil	25	34	0.68	387	0.086	1	1.84	0.028	0.15	0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
REP ROS 162590	QC	25	33	0.69	401	0.091	1	1.89	0.023	0.15	0.2	0.04	5.1	<0.1	<0.05	6	<0.5	<0.2
ROS 159974	Soil	17	30	0.60	236	0.069	<1	1.62	0.017	0.06	0.2	0.03	4.1	<0.1	<0.05	6	0.7	<0.2
REP ROS 159974	QC	17	30	0.60	243	0.075	1	1.66	0.017	0.06	0.2	0.03	4.1	<0.1	<0.05	6	<0.5	0.2

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Project: ROS
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000630.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 U ppm 0.1	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001
ROS 162775	Soil	2.0	15.9	8.5	58	<0.1	16.2	7.4	382	2.23	5.1	1.4	1.1	11.8	24	<0.1	0.4	0.1	42	0.58	0.047
REP ROS 162775	QC	1.9	17.2	8.3	57	<0.1	16.5	7.6	395	2.24	5.3	1.4	6.3	11.9	25	0.2	0.4	0.1	42	0.58	0.049
ROS 152670	Soil	0.5	32.0	7.6	62	0.1	19.1	9.9	403	2.33	7.7	0.5	8.3	2.0	51	0.2	0.7	0.1	56	1.24	0.068
REP ROS 152670	QC	0.5	35.3	8.9	71	0.1	21.9	11.4	466	2.70	8.5	0.6	4.6	2.2	58	0.2	0.8	0.1	62	1.44	0.073
ROS 152613	Soil	1.4	13.0	14.3	53	0.3	14.0	7.5	540	1.92	4.5	0.5	7.5	4.0	20	0.1	0.8	0.1	35	0.63	0.028
REP ROS 152613	QC	1.3	13.3	13.8	52	0.3	13.7	7.5	540	1.91	4.5	0.5	7.3	3.8	20	0.1	0.9	<0.1	36	0.67	0.030
ROS 160992	Soil	1.2	21.2	5.5	120	<0.1	10.7	8.6	760	3.30	3.5	2.8	1.4	13.8	19	<0.1	0.4	<0.1	45	0.31	0.037
REP ROS 160992	QC	1.2	21.1	5.5	122	<0.1	11.1	8.8	745	3.28	3.8	2.8	1.9	13.8	19	<0.1	0.4	<0.1	45	0.31	0.039
ROS 161010	Soil	1.8	14.4	5.0	48	<0.1	10.9	9.1	606	3.38	3.3	1.3	1.3	9.6	18	<0.1	0.3	0.3	44	0.33	0.051
REP ROS 161010	QC	1.9	14.6	5.0	51	<0.1	11.3	9.5	624	3.34	3.7	1.3	1.3	10.4	18	<0.1	0.2	0.3	43	0.31	0.048
Reference Materials																					
STD DS7	Standard	21.3	111.9	66.0	405	1.0	55.9	10.0	651	2.49	53.6	4.6	80.2	4.3	71	6.3	5.9	4.5	87	0.97	0.082
STD DS7	Standard	20.7	118.4	62.8	395	1.0	60.4	9.9	620	2.40	49.4	4.3	65.5	3.8	63	6.0	5.5	4.3	92	0.88	0.075
STD DS7	Standard	19.9	106.8	67.3	415	1.0	54.2	9.0	634	2.37	52.8	4.7	75.5	4.5	72	5.6	5.9	4.4	83	0.96	0.081
STD DS7	Standard	21.9	121.3	72.6	402	1.1	61.0	10.3	642	2.49	53.6	5.2	69.8	4.8	75	6.9	6.5	4.8	93	0.98	0.083
STD DS7	Standard	20.8	114.8	71.2	405	1.0	58.9	9.8	639	2.47	54.2	5.0	115.2	4.6	69	6.5	6.4	4.6	87	0.94	0.082
STD DS7	Standard	22.2	118.8	74.1	425	1.0	56.0	10.0	681	2.54	56.3	5.6	72.9	5.5	84	7.3	6.6	5.2	87	1.04	0.084
STD DS7	Standard	20.4	108.6	68.4	395	1.1	54.7	9.0	637	2.44	52.6	5.0	79.7	4.7	76	6.6	6.2	5.0	84	0.96	0.076
STD DS7	Standard	18.2	107.3	68.9	381	1.0	53.0	9.1	596	2.26	48.5	4.7	78.8	4.6	68	6.2	5.7	4.4	81	0.90	0.072
STD DS7	Standard	20.0	108.2	70.6	387	0.9	54.6	9.0	587	2.26	49.0	5.0	66.1	4.5	65	5.7	5.9	4.6	82	0.85	0.070
STD DS7	Standard	20.5	111.8	68.8	387	1.0	52.0	8.9	586	2.30	51.4	4.9	82.6	4.8	72	6.7	6.7	4.8	80	0.92	0.079
STD DS7	Standard	20.3	101.6	65.5	380	0.9	50.4	9.0	614	2.35	50.2	4.4	62.3	4.7	73	5.6	5.9	4.5	83	0.93	0.074
STD DS8	Standard	12.5	106.6	119.4	300	1.6	37.9	7.3	626	2.44	25.5	2.8	99.3	7.0	66	2.0	5.4	6.7	43	0.68	0.085
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	50	4.9	70	4.4	72	6.4	4.6	4.5	84	0.93	0.08
STD DS8 Expected		12.87	113	126	313	1710	40.6	7.9	622	2.54	27.73	2.89	151	7.91	70.74	2.35	4.89	6.67	41	0.76	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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.



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Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 22, 2010

Page: 2 of 3 Part 2

QUALITY CONTROL REPORT

WHI10000630.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 162775	Soil	33	20	0.52	97	0.050	<1	1.22	0.012	0.12	0.1	0.03	3.4	<0.1	<0.05	5	0.8	<0.2
REP ROS 162775	QC	34	21	0.53	101	0.053	1	1.24	0.015	0.12	0.2	0.04	3.6	<0.1	<0.05	5	0.5	<0.2
ROS 152670	Soil	10	26	0.70	218	0.068	1	1.26	0.018	0.07	0.2	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 152670	QC	12	30	0.79	249	0.075	2	1.41	0.020	0.08	0.2	0.04	3.9	<0.1	<0.05	5	0.5	<0.2
ROS 152613	Soil	17	23	0.31	354	0.018	2	1.40	0.008	0.06	<0.1	0.08	2.5	<0.1	<0.05	4	<0.5	<0.2
REP ROS 152613	QC	17	18	0.31	350	0.018	1	1.41	0.008	0.06	0.1	0.07	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 160992	Soil	47	11	1.21	305	0.142	<1	1.93	0.009	0.46	<0.1	0.03	6.1	0.3	<0.05	8	<0.5	<0.2
REP ROS 160992	QC	49	11	1.19	303	0.143	1	1.93	0.010	0.45	<0.1	0.03	6.0	0.3	<0.05	8	<0.5	<0.2
ROS 161010	Soil	8	17	0.66	189	0.151	<1	1.69	0.011	0.55	0.2	<0.01	4.7	0.4	<0.05	8	<0.5	<0.2
REP ROS 161010	QC	8	16	0.68	186	0.153	<1	1.70	0.009	0.56	0.2	0.01	4.6	0.4	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	12	203	1.08	391	0.123	40	1.02	0.104	0.49	3.7	0.21	2.4	4.0	0.18	5	3.6	1.1
STD DS7	Standard	11	200	1.05	392	0.131	37	0.98	0.088	0.47	3.6	0.21	2.4	4.2	0.25	5	3.0	0.9
STD DS7	Standard	13	199	1.09	390	0.118	35	1.10	0.098	0.49	3.9	0.20	2.6	4.2	0.20	5	2.8	1.4
STD DS7	Standard	13	211	1.12	439	0.127	42	1.03	0.096	0.51	3.8	0.22	2.3	4.1	0.26	5	3.1	1.8
STD DS7	Standard	12	200	1.08	418	0.119	41	1.09	0.092	0.49	3.9	0.20	2.1	4.1	0.19	5	3.4	1.3
STD DS7	Standard	16	206	1.14	428	0.135	43	1.13	0.114	0.53	3.7	0.24	3.0	4.7	0.19	5	3.7	1.1
STD DS7	Standard	13	199	1.05	406	0.125	40	1.05	0.098	0.51	3.6	0.24	2.3	4.3	0.20	5	3.8	1.9
STD DS7	Standard	12	189	1.02	374	0.110	37	0.99	0.097	0.47	3.6	0.23	2.7	4.0	0.13	5	3.0	0.6
STD DS7	Standard	12	185	0.97	349	0.116	35	0.91	0.082	0.44	3.6	0.21	2.1	3.9	0.23	5	2.6	1.3
STD DS7	Standard	13	170	1.05	397	0.127	41	0.92	0.102	0.48	3.9	0.23	2.6	4.1	0.26	5	3.2	1.7
STD DS7	Standard	13	187	1.01	395	0.116	38	1.04	0.097	0.43	3.6	0.20	2.3	3.8	0.18	5	3.2	1.0
STD DS8	Standard	16	113	0.63	280	0.120	1	0.94	0.091	0.41	3.1	0.19	2.2	5.2	0.17	5	5.0	4.5
STD DS7 Expected		13	192	1.05	410	0.124	39	1.0195	0.089	0.44	3.4	0.21	2.5	4.2	0.19	5	3.5	1.18
STD DS8 Expected		17.2	117.9	0.62	279	0.13	12	0.96	0.09	0.4	3.18	0.192	2.77	5.58	0.17	5	5.9	5.15
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: ROS

Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000630.1

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



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 26, 2010
Report Date: November 22, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000631.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS5
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 160890	Soil	1.1	13.8	7.4	45	<0.1	14.8	7.1	253	2.22	6.6	1.1	1.3	7.8	22	<0.1	0.3	0.1	47	0.34	0.053
ROS 160892	Soil	0.8	9.1	7.9	45	<0.1	10.3	6.5	398	1.99	4.6	0.7	0.6	4.2	18	<0.1	0.2	0.2	45	0.24	0.056
ROS 160891	Soil	0.8	13.3	6.9	44	<0.1	12.9	6.7	199	1.96	5.5	0.9	2.1	4.5	27	<0.1	0.3	0.1	46	0.40	0.046
ROS 160889	Soil	0.8	9.9	7.2	72	<0.1	9.9	8.4	503	2.41	3.4	1.7	0.9	14.2	16	<0.1	0.2	<0.1	40	0.28	0.068
ROS 159955	Soil	1.6	8.8	9.0	65	<0.1	8.7	11.0	1045	3.54	1.9	1.3	<0.5	11.0	49	<0.1	0.6	0.1	52	1.62	0.090
ROS 159963	Soil	1.3	23.8	7.8	61	<0.1	15.6	8.6	345	2.10	4.2	1.8	<0.5	7.5	29	0.2	0.3	0.1	45	0.60	0.060
ROS 159964	Soil	0.7	17.3	7.2	51	<0.1	10.1	8.8	455	2.18	5.0	2.2	1.2	7.7	34	0.1	0.3	0.1	42	0.64	0.045
ROS 159956	Soil	3.8	39.7	21.2	132	<0.1	21.2	14.6	1492	4.86	4.2	1.5	1.3	10.7	36	0.2	0.3	0.2	77	0.36	0.058
ROS 159954	Soil	0.7	20.1	7.4	72	<0.1	11.0	13.2	723	3.93	4.4	1.5	0.7	11.9	19	<0.1	0.5	0.1	59	0.31	0.069
ROS 159953	Soil	0.7	19.9	5.3	68	<0.1	13.7	7.6	494	2.68	3.9	0.7	1.4	7.4	17	<0.1	0.3	<0.1	38	0.30	0.050
ROS 159957	Soil	1.3	13.9	12.2	87	<0.1	14.8	7.7	615	2.61	5.3	1.0	<0.5	12.6	39	0.2	0.3	0.1	45	0.27	0.022
ROS 159961	Soil	3.9	28.8	8.8	64	0.1	10.3	9.4	721	2.48	4.4	2.1	4.0	10.2	25	<0.1	0.2	0.8	48	0.53	0.047
ROS 160997	Soil	0.8	23.8	11.8	75	<0.1	16.7	8.9	459	2.81	4.9	1.4	2.0	8.4	23	<0.1	0.5	0.2	58	0.34	0.025
ROS 161000	Soil	3.2	27.4	16.1	114	<0.1	15.3	7.7	489	2.81	3.8	1.4	2.0	10.7	18	0.2	0.3	0.3	46	0.34	0.065
ROS 160999	Soil	0.9	26.2	13.7	73	<0.1	16.8	11.3	493	2.78	5.0	0.7	1.5	7.9	24	<0.1	0.4	0.3	56	0.39	0.035
ROS 161040	Soil	0.7	26.6	6.6	58	<0.1	22.1	9.1	418	2.17	5.8	0.9	2.0	4.1	36	0.2	0.5	0.1	50	0.74	0.064
ROS 159998	Soil	0.8	26.6	5.3	72	0.1	10.8	12.9	1054	3.35	2.5	1.5	1.0	1.3	63	0.2	0.5	<0.1	63	1.53	0.081
ROS 159999	Soil	1.0	16.2	6.6	74	<0.1	10.7	8.6	663	2.50	3.3	1.2	2.1	3.7	47	0.2	0.3	0.1	48	1.07	0.057
ROS 161037	Soil	1.2	14.4	7.9	50	<0.1	13.9	6.9	343	2.41	5.3	1.1	0.7	8.3	18	<0.1	0.4	0.1	47	0.26	0.021
ROS 161035	Soil	2.0	9.3	8.1	70	<0.1	7.3	8.1	599	3.79	3.7	0.7	0.6	12.9	14	<0.1	0.3	<0.1	49	0.26	0.042
ROS 161036	Soil	1.1	13.7	7.4	47	<0.1	14.4	6.7	292	2.47	5.8	1.0	2.3	10.1	19	<0.1	0.3	0.1	45	0.31	0.026
ROS 161039	Soil	1.0	29.6	8.6	53	<0.1	12.7	4.7	175	2.12	3.4	5.5	2.4	18.6	28	<0.1	0.3	0.2	44	0.52	0.037
ROS 159802	Soil	1.3	33.7	8.6	69	0.2	19.2	14.1	681	2.94	7.4	1.8	3.1	3.6	44	<0.1	0.4	0.2	64	0.64	0.061
ROS 161038	Soil	1.8	18.1	8.6	49	<0.1	16.1	7.7	353	2.36	5.0	0.7	1.9	7.0	16	<0.1	0.3	0.2	45	0.22	0.030
ROS 151406	Soil	0.4	22.8	7.4	47	<0.1	20.1	8.1	373	1.99	7.5	0.6	2.4	2.1	39	0.1	0.5	0.1	47	2.31	0.057
ROS 151385	Soil	0.9	27.9	14.0	109	0.2	43.8	11.3	538	3.42	5.4	1.5	6.0	11.1	26	<0.1	2.9	0.1	71	0.63	0.083
ROS 151396	Soil	1.1	16.2	10.2	50	0.3	17.5	8.6	231	2.57	6.4	0.9	3.0	6.4	19	<0.1	1.7	0.1	57	0.32	0.026
ROS 151398	Soil	0.8	37.7	28.9	86	0.7	19.4	10.9	501	2.72	6.6	1.5	13.0	4.4	34	0.3	2.9	0.2	62	1.08	0.082
ROS 151388	Soil	0.9	40.7	16.6	91	0.7	19.9	11.3	526	3.02	7.8	1.8	9.4	5.5	39	0.3	3.6	0.1	61	1.05	0.091
ROS 151386	Soil	1.5	23.0	14.9	82	0.5	16.7	8.6	377	2.90	4.6	1.5	12.0	15.8	18	<0.1	5.3	0.1	36	0.35	0.043

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 160890	Soil	17	23	0.38	169	0.069	2	1.28	0.014	0.12	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 160892	Soil	13	18	0.30	147	0.069	<1	1.20	0.009	0.11	0.2	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
ROS 160891	Soil	14	22	0.35	201	0.067	<1	1.28	0.014	0.05	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160889	Soil	23	16	0.56	128	0.111	<1	1.51	0.012	0.47	0.1	<0.01	3.7	0.3	<0.05	6	<0.5	<0.2
ROS 159955	Soil	23	15	0.81	294	0.076	4	1.44	0.008	0.67	0.2	0.02	6.7	0.3	<0.05	5	<0.5	<0.2
ROS 159963	Soil	23	21	0.41	190	0.054	<1	1.28	0.014	0.10	0.3	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 159964	Soil	26	18	0.44	215	0.047	<1	1.23	0.012	0.13	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159956	Soil	24	74	0.66	398	0.043	2	1.57	0.008	0.33	<0.1	0.03	8.6	0.2	<0.05	6	<0.5	<0.2
ROS 159954	Soil	11	13	0.89	185	0.152	1	1.82	0.008	0.63	0.2	<0.01	5.1	0.3	<0.05	7	<0.5	<0.2
ROS 159953	Soil	20	14	0.57	183	0.097	<1	1.28	0.012	0.32	0.2	0.02	5.4	0.2	<0.05	5	<0.5	<0.2
ROS 159957	Soil	22	23	0.48	190	0.066	2	1.55	0.009	0.41	<0.1	0.01	5.7	0.2	<0.05	6	<0.5	<0.2
ROS 159961	Soil	24	19	0.53	137	0.075	<1	1.32	0.012	0.20	0.3	0.03	3.9	0.2	<0.05	5	0.5	<0.2
ROS 160997	Soil	26	29	0.68	250	0.117	<1	1.69	0.021	0.26	0.1	0.03	5.9	0.2	<0.05	6	<0.5	<0.2
ROS 161000	Soil	24	22	0.59	219	0.088	<1	1.31	0.016	0.41	0.3	0.04	4.6	0.2	<0.05	5	<0.5	<0.2
ROS 160999	Soil	19	28	0.62	244	0.120	<1	1.71	0.024	0.24	<0.1	0.03	5.1	0.2	<0.05	6	<0.5	<0.2
ROS 161040	Soil	14	22	0.58	233	0.077	2	1.25	0.023	0.10	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159998	Soil	11	12	0.50	471	0.023	2	1.16	0.010	0.13	<0.1	0.04	8.0	<0.1	<0.05	4	<0.5	<0.2
ROS 159999	Soil	16	16	0.41	286	0.034	2	1.05	0.013	0.13	<0.1	0.05	4.9	<0.1	<0.05	4	<0.5	<0.2
ROS 161037	Soil	38	26	0.45	148	0.058	<1	1.57	0.010	0.11	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 161035	Soil	9	12	0.84	145	0.167	1	2.13	0.008	0.69	0.1	<0.01	4.0	0.4	<0.05	9	<0.5	<0.2
ROS 161036	Soil	44	23	0.50	172	0.080	<1	1.51	0.014	0.16	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 161039	Soil	100	21	0.40	141	0.060	<1	1.24	0.013	0.17	0.1	0.06	4.9	0.1	<0.05	4	<0.5	<0.2
ROS 159802	Soil	20	28	0.62	260	0.079	1	1.76	0.020	0.09	0.1	0.05	4.4	<0.1	<0.05	5	0.5	<0.2
ROS 161038	Soil	19	26	0.38	158	0.058	<1	1.61	0.011	0.14	<0.1	<0.01	2.9	0.1	<0.05	5	<0.5	<0.2
ROS 151406	Soil	11	24	0.91	190	0.051	2	1.13	0.019	0.05	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
ROS 151385	Soil	30	79	0.92	505	0.077	2	1.81	0.015	0.20	<0.1	0.14	5.8	0.1	<0.05	7	<0.5	<0.2
ROS 151396	Soil	18	31	0.41	353	0.043	1	1.70	0.013	0.07	<0.1	0.06	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 151398	Soil	20	31	0.64	560	0.023	1	1.54	0.012	0.06	0.1	0.30	5.4	<0.1	<0.05	6	<0.5	<0.2
ROS 151388	Soil	36	32	0.60	844	0.033	3	1.69	0.015	0.09	0.1	0.25	6.6	<0.1	<0.05	6	0.5	<0.2
ROS 151386	Soil	43	21	0.28	420	0.011	3	1.14	0.007	0.15	<0.1	0.24	5.7	0.1	<0.05	4	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 151395	Soil	3.5	64.2	12.5	61	2.7	17.3	6.7	583	2.02	5.6	1.3	78.3	7.1	21	0.2	20.9	0.3	27	0.52	0.045
ROS 151399	Soil	0.8	25.7	16.9	75	0.4	17.5	10.3	494	2.62	8.0	1.3	9.1	5.0	37	0.3	2.2	0.1	56	0.96	0.067
ROS 164744	Soil	1.0	31.9	10.3	67	0.1	19.6	10.5	530	2.84	5.8	3.9	0.6	11.3	39	0.1	0.5	0.2	52	0.86	0.060
ROS 164740	Soil	1.1	27.0	17.0	91	<0.1	14.8	15.1	780	4.52	3.9	3.8	1.4	54.5	20	<0.1	0.2	0.2	57	0.38	0.081
ROS 164741	Soil	0.8	24.0	17.4	98	<0.1	13.6	12.6	936	4.29	3.7	3.2	<0.5	40.1	23	<0.1	0.3	0.4	57	0.47	0.079
ROS 164743	Soil	1.1	25.9	21.8	90	0.1	14.8	10.9	570	3.30	4.7	2.3	1.3	27.1	30	<0.1	0.2	0.3	46	0.71	0.070
ROS 164742	Soil	0.9	18.1	9.0	73	<0.1	14.8	8.3	853	2.92	2.5	1.5	1.0	22.8	18	<0.1	0.4	0.1	35	0.40	0.063
ROS 164879	Soil	0.7	25.9	5.6	52	0.1	10.9	7.3	338	2.56	1.9	2.2	0.7	10.8	30	<0.1	0.2	0.3	46	0.29	0.034
ROS 164880	Soil	0.5	27.2	6.9	57	0.2	14.2	7.0	337	2.60	3.8	3.5	6.1	10.9	34	0.1	0.3	0.2	52	0.43	0.060
ROS 164739	Soil	1.3	19.2	14.8	82	<0.1	22.7	11.4	485	3.33	8.9	1.1	1.2	10.9	18	<0.1	0.5	0.2	65	0.24	0.035
ROS 164738	Soil	0.9	14.8	7.7	69	<0.1	6.9	9.8	477	3.34	3.5	2.2	<0.5	20.4	22	<0.1	0.2	0.1	38	0.38	0.059
ROS 164895	Soil	1.3	10.0	6.0	74	<0.1	8.9	6.9	585	3.38	2.7	1.2	<0.5	13.7	10	<0.1	0.2	<0.1	50	0.09	0.024
ROS 164881	Soil	0.5	26.2	6.8	56	0.1	12.8	6.7	274	2.60	4.6	2.5	1.3	9.4	34	<0.1	0.3	0.2	48	0.41	0.055
ROS 164882	Soil	0.6	19.6	5.9	49	<0.1	12.8	7.8	308	2.32	5.0	1.4	0.5	6.3	35	<0.1	0.4	0.1	45	0.45	0.060
ROS 160881	Soil	0.9	27.9	8.4	54	0.1	23.3	9.7	433	2.58	8.0	1.1	3.9	4.7	37	<0.1	0.6	0.2	55	0.58	0.052
ROS 160884	Soil	0.9	27.7	7.9	50	0.1	23.3	10.2	447	2.50	8.8	1.0	3.9	4.1	39	<0.1	0.6	0.1	53	0.67	0.063
ROS 160885	Soil	0.9	20.8	7.2	46	<0.1	19.7	8.3	248	2.35	8.0	0.9	0.6	3.7	34	<0.1	0.4	0.1	51	0.51	0.055
ROS 160888	Soil	1.6	16.0	7.4	75	<0.1	11.4	7.3	669	3.04	3.1	1.2	1.0	17.4	15	<0.1	0.4	0.3	33	0.29	0.081
ROS 159785	Soil	1.4	8.8	4.9	79	<0.1	6.0	8.9	910	3.70	2.3	1.1	1.2	9.2	28	<0.1	0.3	0.2	48	0.42	0.076
ROS 159784	Soil	1.8	22.6	9.5	80	<0.1	16.8	14.6	947	3.68	6.3	0.7	2.2	4.1	15	<0.1	0.3	0.2	74	0.18	0.052
ROS 159786	Soil	2.9	7.2	7.2	122	<0.1	7.6	10.5	1291	2.86	1.9	0.8	1.9	8.5	14	0.2	0.1	0.1	31	0.17	0.057
ROS 159788	Soil	1.1	11.6	7.9	158	<0.1	4.5	11.3	1094	4.29	3.5	1.0	<0.5	11.0	9	<0.1	0.2	0.1	59	0.16	0.048
ROS 159790	Soil	2.4	44.1	18.5	122	0.4	15.2	9.4	993	3.46	22.5	0.9	0.7	10.0	15	0.5	0.5	1.2	48	0.17	0.040
ROS 159792	Soil	2.9	28.5	7.1	64	<0.1	9.4	8.3	498	3.36	4.4	1.5	2.0	16.2	13	<0.1	0.3	0.2	53	0.17	0.040
ROS 159794	Soil	1.3	9.8	7.6	82	<0.1	9.5	6.6	970	3.44	1.9	1.5	<0.5	25.7	18	<0.1	0.3	0.3	37	0.38	0.037
ROS 159793	Soil	1.0	10.8	8.0	73	<0.1	6.0	15.5	1754	4.77	2.5	2.1	0.9	12.7	20	<0.1	0.2	<0.1	94	0.48	0.084
ROS 159791	Soil	1.0	22.4	8.5	56	<0.1	17.6	7.8	279	2.92	9.5	0.7	1.1	9.7	17	<0.1	0.7	0.3	59	0.16	0.016
ROS 159789	Soil	1.1	11.5	8.5	172	<0.1	4.9	11.2	1119	4.45	3.7	1.0	<0.5	11.6	9	<0.1	0.2	0.1	60	0.16	0.053
ROS 159787	Soil	2.6	16.6	12.6	86	<0.1	12.6	10.5	675	3.68	6.4	0.6	1.8	12.2	11	<0.1	0.4	0.2	50	0.13	0.022
ROS 159783	Soil	1.4	18.6	7.6	63	<0.1	15.2	9.7	403	3.04	5.1	0.8	<0.5	4.0	18	<0.1	0.3	0.2	64	0.27	0.036

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
ROS 151395	Soil	23	21	0.25	416	0.013	3	0.90	0.010	0.13	<0.1	0.39	2.8	<0.1	<0.05	3	<0.5	0.2
ROS 151399	Soil	21	27	0.49	574	0.043	2	1.64	0.015	0.07	0.2	0.11	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 164744	Soil	42	29	0.64	226	0.099	1	1.65	0.020	0.29	0.2	0.05	4.7	0.2	<0.05	6	<0.5	<0.2
ROS 164740	Soil	106	21	0.90	134	0.158	1	2.29	0.009	0.76	0.3	0.02	8.9	0.8	<0.05	10	<0.5	<0.2
ROS 164741	Soil	62	19	1.00	167	0.174	1	2.05	0.016	0.77	0.3	<0.01	7.0	0.7	<0.05	9	<0.5	<0.2
ROS 164743	Soil	64	24	0.80	113	0.116	1	2.00	0.012	0.58	0.2	0.04	4.3	0.4	<0.05	8	<0.5	<0.2
ROS 164742	Soil	44	14	0.51	159	0.083	2	1.30	0.016	0.35	0.2	0.02	4.7	0.2	<0.05	6	0.6	<0.2
ROS 164879	Soil	25	18	0.60	181	0.109	<1	1.70	0.016	0.32	<0.1	0.02	3.4	0.2	<0.05	6	<0.5	<0.2
ROS 164880	Soil	63	23	0.54	225	0.094	1	2.12	0.018	0.22	<0.1	0.05	5.4	0.1	<0.05	7	0.7	<0.2
ROS 164739	Soil	15	37	0.67	186	0.100	<1	2.14	0.017	0.35	0.1	0.02	4.4	0.2	<0.05	7	0.6	<0.2
ROS 164738	Soil	101	11	0.74	170	0.136	<1	2.23	0.011	0.63	<0.1	<0.01	4.4	0.5	<0.05	7	0.8	<0.2
ROS 164895	Soil	27	14	0.57	99	0.123	<1	1.59	0.012	0.50	0.1	0.02	5.2	0.3	<0.05	7	<0.5	<0.2
ROS 164881	Soil	50	22	0.57	207	0.101	1	2.20	0.017	0.19	<0.1	0.03	4.3	0.1	<0.05	6	0.7	<0.2
ROS 164882	Soil	26	21	0.52	188	0.092	2	1.55	0.022	0.17	0.2	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 160881	Soil	15	33	0.54	296	0.078	2	1.71	0.033	0.06	0.2	0.04	4.7	<0.1	<0.05	5	0.7	<0.2
ROS 160884	Soil	14	30	0.51	276	0.073	1	1.50	0.029	0.06	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 160885	Soil	14	30	0.49	236	0.074	2	1.58	0.026	0.05	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 160888	Soil	36	17	0.44	181	0.081	<1	1.41	0.011	0.41	0.2	0.02	4.0	0.2	<0.05	6	0.6	<0.2
ROS 159785	Soil	19	12	0.90	384	0.107	3	1.87	0.012	0.59	<0.1	0.02	5.5	0.2	<0.05	7	0.8	<0.2
ROS 159784	Soil	18	30	0.61	192	0.095	1	2.31	0.012	0.14	0.2	0.03	6.5	0.1	<0.05	8	0.7	<0.2
ROS 159786	Soil	35	14	0.68	197	0.098	2	1.80	0.010	0.55	0.2	0.03	4.0	0.3	<0.05	7	<0.5	<0.2
ROS 159788	Soil	10	12	1.23	128	0.175	1	2.45	0.010	0.95	0.3	0.02	6.5	0.4	<0.05	11	0.7	<0.2
ROS 159790	Soil	12	29	0.49	189	0.083	1	1.81	0.013	0.34	1.1	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
ROS 159792	Soil	53	17	0.58	129	0.096	<1	1.91	0.009	0.32	0.5	0.01	5.2	0.3	<0.05	7	0.9	<0.2
ROS 159794	Soil	46	12	0.89	203	0.083	<1	1.80	0.013	0.55	0.2	0.01	5.6	0.3	<0.05	7	<0.5	<0.2
ROS 159793	Soil	46	11	1.11	335	0.148	3	2.14	0.011	0.86	0.2	0.03	13.1	0.3	<0.05	8	0.9	<0.2
ROS 159791	Soil	13	37	0.52	128	0.088	1	1.93	0.011	0.09	0.2	0.02	3.4	<0.1	<0.05	5	0.5	<0.2
ROS 159789	Soil	11	11	1.25	130	0.178	<1	2.45	0.010	0.97	0.3	0.01	6.6	0.4	<0.05	11	<0.5	<0.2
ROS 159787	Soil	11	23	0.66	182	0.144	1	2.35	0.013	0.45	0.2	<0.01	4.9	0.3	<0.05	8	<0.5	<0.2
ROS 159783	Soil	22	28	0.57	220	0.088	1	1.84	0.015	0.11	0.1	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159353	Soil	1.0	22.2	23.2	106	0.2	14.1	11.3	676	2.83	5.1	1.9	1.5	11.0	58	0.2	0.3	0.2	50	1.61	0.064
ROS 159357	Soil	1.3	12.9	771.0	1158	0.8	10.0	7.4	657	3.38	3.7	1.6	1.4	25.0	18	0.6	0.4	0.4	35	0.32	0.052
ROS 159356	Soil	1.7	20.0	26.2	98	0.3	16.4	10.0	756	3.32	8.8	1.2	2.2	8.7	19	0.2	0.5	0.4	66	0.21	0.031
ROS 159355	Soil	1.0	21.3	11.4	57	0.1	20.0	10.6	343	3.01	7.6	1.3	1.1	9.6	21	<0.1	0.4	0.2	62	0.31	0.031
ROS 163075	Soil	0.6	23.0	6.8	53	<0.1	16.3	7.5	300	2.40	5.4	1.1	1.2	6.2	35	<0.1	0.5	0.1	56	0.43	0.038
ROS 160564	Soil	0.5	29.6	6.3	79	<0.1	17.4	13.2	655	3.72	6.5	0.5	7.3	2.8	41	0.3	0.7	0.1	76	0.95	0.109
ROS 160566	Soil	1.0	34.7	7.8	70	0.1	26.3	11.5	532	2.69	10.1	0.7	2.9	3.6	64	0.4	0.8	0.1	64	1.82	0.087
ROS 160565	Soil	0.6	34.2	5.1	65	0.1	19.7	12.8	414	3.25	7.0	0.6	2.2	2.8	33	<0.1	0.4	<0.1	94	0.75	0.101
ROS 160568	Soil	0.9	29.1	6.9	62	0.1	24.8	9.7	458	2.41	8.8	0.5	<0.5	3.1	55	0.4	0.7	0.1	55	1.59	0.080
ROS 151434	Soil	0.4	27.7	8.5	46	<0.1	22.3	9.5	407	2.41	10.8	0.8	1.5	2.5	34	0.2	0.7	0.1	55	1.46	0.043
ROS 151432	Soil	0.5	30.0	32.5	73	<0.1	15.9	7.7	555	2.67	8.6	1.3	2.9	12.6	23	0.1	1.3	0.7	42	0.98	0.036
ROS 160567	Soil	0.9	22.4	6.3	50	<0.1	16.3	8.1	279	2.38	6.8	0.7	2.6	1.7	34	0.2	0.4	0.1	64	0.58	0.072
ROS 162817	Soil	0.6	27.8	6.8	53	<0.1	21.3	9.2	406	2.28	7.4	0.7	19.7	3.1	41	0.3	0.6	0.1	52	1.08	0.079
ROS 163482	Soil	0.9	27.9	8.4	50	<0.1	22.1	8.6	341	2.27	7.3	0.9	2.7	4.4	30	<0.1	0.6	0.2	48	0.46	0.049
ROS 163474	Soil	0.7	26.8	10.1	60	<0.1	18.3	8.4	285	2.50	6.6	1.0	2.9	8.3	24	<0.1	0.5	0.2	51	0.38	0.039
ROS 163488	Soil	0.8	13.0	7.4	76	<0.1	14.0	10.1	2082	2.31	4.0	0.6	0.6	3.4	31	0.3	0.3	0.1	45	0.41	0.047
ROS 159975	Soil	0.8	28.2	7.1	45	<0.1	18.4	9.1	376	2.29	7.4	0.7	1.4	2.5	28	0.2	0.4	0.1	55	0.49	0.052
ROS 162818	Soil	0.7	20.7	7.1	58	<0.1	18.3	9.5	433	2.26	7.2	0.6	2.7	2.4	31	0.2	0.4	0.1	53	0.56	0.072
ROS 162820	Soil	0.6	20.1	6.8	56	<0.1	18.2	9.5	419	2.17	6.7	0.7	2.7	2.3	29	0.2	0.5	0.1	50	0.52	0.063
ROS 162819	Soil	0.8	21.8	7.6	60	<0.1	21.8	9.5	438	2.33	8.4	0.7	2.1	2.7	34	0.2	0.6	0.1	49	0.65	0.068
ROS 159339	Soil	0.6	32.5	6.9	63	<0.1	41.3	9.9	405	2.73	3.6	3.1	1.7	9.3	35	<0.1	0.3	0.1	61	0.36	0.064
ROS 159342	Soil	0.6	18.6	7.3	46	<0.1	16.0	7.6	225	2.26	6.4	0.9	6.6	3.8	19	<0.1	0.4	0.1	50	0.24	0.036
ROS 159340	Soil	0.6	16.9	7.9	47	<0.1	14.7	7.4	221	2.40	6.4	1.1	6.5	4.0	24	<0.1	0.4	0.1	55	0.28	0.029
ROS 162821	Soil	0.7	20.5	6.7	56	<0.1	20.1	10.1	445	2.34	7.3	0.8	3.1	2.8	34	0.2	0.5	0.1	55	0.64	0.071
ROS 162670	Soil	0.8	15.0	7.8	48	<0.1	13.0	7.5	308	2.06	6.0	1.2	2.2	5.4	22	<0.1	0.3	0.1	42	0.39	0.044
ROS 162675	Soil	0.8	21.5	7.8	46	<0.1	18.5	8.1	278	2.33	7.6	1.5	2.8	4.0	30	<0.1	0.5	0.1	49	0.50	0.046
ROS 162682	Soil	0.7	23.6	7.7	50	<0.1	19.2	9.2	419	2.27	6.9	1.0	2.0	4.1	32	0.1	0.5	0.1	49	0.49	0.059
ROS 162678	Soil	0.7	21.3	7.8	47	<0.1	19.5	8.5	428	2.22	7.9	1.1	4.3	3.6	31	0.1	0.5	0.1	50	0.50	0.066
ROS 162684	Soil	0.7	18.3	7.1	51	<0.1	15.1	7.8	332	2.13	5.9	0.8	2.1	3.4	31	0.1	0.4	0.1	45	0.46	0.058
ROS 162672	Soil	0.6	27.4	7.8	50	<0.1	22.8	8.4	368	2.35	6.9	1.2	4.1	5.3	28	<0.1	0.5	0.1	49	0.47	0.047

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Project: ROS
 Report Date: November 22, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159353	Soil	48	31	0.91	117	0.099	2	1.68	0.017	0.29	0.1	0.07	3.5	0.3	<0.05	7	0.6	<0.2
ROS 159357	Soil	56	15	0.52	107	0.063	<1	2.14	0.009	0.27	0.1	0.20	3.6	0.4	<0.05	8	<0.5	<0.2
ROS 159356	Soil	10	31	0.54	153	0.112	1	2.10	0.012	0.28	0.1	0.02	3.4	0.3	<0.05	8	<0.5	<0.2
ROS 159355	Soil	25	33	0.67	180	0.093	1	2.03	0.014	0.14	0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 163075	Soil	20	29	0.55	246	0.126	<1	1.56	0.029	0.14	0.2	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
ROS 160564	Soil	12	23	0.77	236	0.089	2	1.71	0.035	0.22	0.2	0.04	7.9	<0.1	<0.05	6	0.5	<0.2
ROS 160566	Soil	14	31	0.83	341	0.090	4	1.34	0.037	0.11	0.3	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160565	Soil	11	30	0.92	279	0.117	1	1.82	0.038	0.24	0.1	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160568	Soil	12	27	0.82	296	0.082	2	1.25	0.035	0.10	0.2	0.02	3.5	<0.1	<0.05	4	0.7	<0.2
ROS 151434	Soil	14	29	0.53	256	0.065	2	1.83	0.023	0.05	0.1	0.07	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 151432	Soil	20	19	0.44	223	0.035	1	1.61	0.016	0.11	0.2	0.07	4.7	0.1	<0.05	6	<0.5	<0.2
ROS 160567	Soil	11	26	0.53	226	0.067	2	1.48	0.026	0.05	0.3	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 162817	Soil	11	24	0.59	251	0.056	1	1.05	0.023	0.07	0.3	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
ROS 163482	Soil	14	27	0.46	264	0.068	1	1.44	0.021	0.06	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 163474	Soil	22	29	0.44	257	0.075	1	1.80	0.020	0.14	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 163488	Soil	11	19	0.35	334	0.056	1	1.48	0.011	0.14	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159975	Soil	10	26	0.49	256	0.055	<1	1.46	0.018	0.04	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 162818	Soil	11	24	0.49	246	0.055	1	1.28	0.019	0.05	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 162820	Soil	10	23	0.47	231	0.051	<1	1.22	0.018	0.04	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 162819	Soil	11	25	0.50	258	0.059	1	1.14	0.023	0.06	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 159339	Soil	33	47	0.96	228	0.125	<1	1.81	0.013	0.36	0.1	0.03	4.2	0.2	<0.05	7	<0.5	<0.2
ROS 159342	Soil	13	24	0.46	177	0.074	1	1.38	0.012	0.07	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159340	Soil	17	28	0.48	188	0.082	<1	1.70	0.014	0.08	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 162821	Soil	11	25	0.52	245	0.066	2	1.25	0.025	0.06	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 162670	Soil	23	23	0.38	302	0.057	1	1.35	0.013	0.07	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 162675	Soil	13	28	0.47	247	0.066	<1	1.57	0.019	0.05	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 162682	Soil	14	26	0.46	239	0.063	1	1.49	0.019	0.05	0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 162678	Soil	13	26	0.46	220	0.064	1	1.42	0.022	0.05	0.2	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 162684	Soil	13	24	0.43	235	0.064	1	1.49	0.020	0.06	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 162672	Soil	16	29	0.47	285	0.074	<1	1.59	0.018	0.07	0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 162634	Soil	0.7	17.4	6.0	74	<0.1	10.4	9.4	686	3.75	5.3	1.5	0.9	7.1	16	<0.1	0.2	<0.1	67	0.18	0.050
ROS 159341	Soil	0.8	13.4	7.4	44	0.1	12.0	5.4	168	2.09	5.8	0.8	1.4	3.8	19	<0.1	0.3	0.2	46	0.19	0.049
ROS 163095	Soil	0.6	21.3	6.6	58	<0.1	12.6	7.8	383	2.04	2.6	1.5	1.4	4.2	37	0.2	0.3	0.1	39	0.74	0.064
ROS 162884	Soil	0.5	29.9	6.6	71	0.1	18.7	9.0	282	2.18	6.0	1.0	1.8	2.8	38	0.2	0.4	0.1	47	0.62	0.074
ROS 162883	Soil	0.8	28.2	7.0	72	0.1	18.8	11.3	440	2.76	11.9	0.9	3.1	2.9	40	0.3	0.5	0.1	52	0.65	0.092
ROS 162882	Soil	0.8	15.6	6.9	59	<0.1	8.2	5.8	441	2.09	2.4	1.7	1.0	10.3	31	0.1	0.2	<0.1	39	0.62	0.050
ROS 160738	Soil	0.5	10.7	7.9	76	<0.1	12.6	11.4	594	3.67	5.2	0.9	<0.5	10.3	24	<0.1	0.3	0.1	64	0.25	0.041
ROS 160733	Soil	0.5	12.9	7.3	87	<0.1	10.3	12.0	716	3.84	5.5	1.4	<0.5	10.6	25	<0.1	0.3	0.1	63	0.17	0.021
ROS 160739	Soil	0.6	16.2	6.1	58	<0.1	17.2	11.1	457	3.34	8.1	0.7	1.2	6.7	43	<0.1	0.4	<0.1	62	0.25	0.025
ROS 160736	Soil	0.6	9.6	8.2	81	<0.1	12.5	9.9	645	3.12	3.5	0.7	<0.5	7.2	33	<0.1	0.3	0.1	62	0.32	0.025
ROS 173110	Soil	0.6	14.3	6.0	52	<0.1	9.3	6.6	329	2.42	3.0	0.9	<0.5	5.4	33	<0.1	0.2	<0.1	47	0.34	0.038
ROS 173106	Soil	0.8	12.3	7.4	65	<0.1	13.6	8.3	418	2.68	4.7	1.6	4.6	8.2	25	<0.1	0.2	0.1	56	0.29	0.036
ROS 173111	Soil	0.5	16.1	4.2	50	<0.1	9.0	7.1	398	2.39	2.6	1.0	1.2	7.0	38	<0.1	0.2	<0.1	46	0.42	0.038
ROS 173103	Soil	1.2	13.1	7.9	61	0.1	11.9	4.8	280	1.81	4.7	0.7	2.7	2.0	20	<0.1	0.3	0.1	47	0.18	0.037
ROS 173102	Soil	1.4	43.8	6.8	61	0.2	10.2	6.4	292	2.44	4.0	1.5	1.0	3.2	23	<0.1	0.2	0.1	66	0.19	0.042
ROS 173100	Soil	1.7	56.7	5.6	50	0.2	8.1	4.6	154	1.92	2.7	1.1	1.2	1.7	21	0.1	0.2	<0.1	41	0.17	0.043
ROS 163074	Soil	0.8	17.4	6.4	46	<0.1	12.6	6.7	220	2.22	4.9	0.7	1.0	5.3	22	<0.1	0.4	0.1	48	0.22	0.022
ROS 160887	Soil	0.8	18.0	5.0	47	<0.1	12.6	5.9	283	2.22	5.8	1.5	3.6	9.4	20	<0.1	0.3	<0.1	40	0.30	0.044
ROS 163221	Soil	0.9	22.5	7.1	54	<0.1	12.7	7.1	283	2.64	5.3	2.3	1.4	7.5	30	<0.1	0.5	0.2	53	0.34	0.036
ROS 163212	Soil	3.8	193.2	3.7	129	0.2	12.2	17.2	841	5.62	2.0	1.9	2.7	4.8	50	<0.1	0.1	<0.1	157	0.48	0.060
ROS 163215	Soil	1.2	12.7	6.0	69	<0.1	9.3	8.3	501	2.68	4.6	1.8	3.2	10.5	32	<0.1	0.2	<0.1	50	0.36	0.046
ROS 163214	Soil	1.7	15.4	6.8	85	<0.1	9.2	10.5	514	3.13	3.8	1.5	2.3	9.8	26	0.2	0.2	0.1	56	0.29	0.051
ROS 163217	Soil	0.9	12.7	7.1	68	0.1	11.8	9.6	604	2.58	6.6	1.9	1.1	6.8	28	<0.1	0.3	0.2	53	0.30	0.052
ROS 163218	Soil	0.9	14.0	10.4	62	0.1	10.5	7.6	352	2.42	5.7	2.1	4.0	6.6	37	0.1	0.3	0.2	50	0.36	0.040
ROS 163220	Soil	0.7	43.3	6.0	58	0.1	9.9	7.6	313	2.61	5.0	1.1	3.2	6.2	29	<0.1	0.3	0.2	55	0.30	0.033
ROS 163216	Soil	1.0	11.6	7.6	69	<0.1	11.0	8.7	559	3.06	6.0	1.4	0.6	8.8	23	<0.1	0.2	0.2	60	0.25	0.038
ROS 163213	Soil	3.8	186.8	4.6	116	0.1	11.8	26.0	807	5.37	2.2	2.4	0.9	4.9	70	<0.1	0.1	<0.1	151	0.50	0.041
ROS 163219	Soil	0.8	14.6	7.6	60	<0.1	11.0	7.9	333	2.53	5.9	1.3	2.3	7.0	29	0.1	0.4	0.1	52	0.31	0.046
ROS 163210	Soil	1.0	80.9	5.3	143	<0.1	12.4	14.3	507	3.56	2.6	0.9	2.0	3.2	30	<0.1	0.1	<0.1	87	0.38	0.049
ROS 163211	Soil	1.2	23.5	7.2	50	0.1	18.6	9.1	255	2.61	9.2	0.4	1.4	4.0	25	0.1	0.5	0.1	59	0.29	0.019

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 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 162634	Soil	17	16	0.92	126	0.177	<1	2.56	0.010	0.87	0.1	0.01	4.6	0.5	<0.05	10	<0.5	<0.2
ROS 159341	Soil	14	22	0.40	153	0.084	<1	1.57	0.010	0.13	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
ROS 163095	Soil	22	17	0.44	298	0.050	2	1.18	0.014	0.14	0.1	0.05	4.4	<0.1	0.05	4	<0.5	<0.2
ROS 162884	Soil	13	24	0.61	213	0.073	1	1.36	0.023	0.09	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
ROS 162883	Soil	14	25	0.61	227	0.070	2	1.34	0.025	0.09	0.2	0.03	3.3	<0.1	0.06	4	<0.5	<0.2
ROS 162882	Soil	40	14	0.54	255	0.068	2	1.08	0.014	0.29	<0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 160738	Soil	15	21	0.84	204	0.164	1	2.26	0.013	0.77	0.1	<0.01	4.1	0.4	<0.05	9	<0.5	<0.2
ROS 160733	Soil	12	16	0.92	145	0.213	<1	2.70	0.013	0.82	<0.1	<0.01	3.1	0.4	<0.05	9	<0.5	<0.2
ROS 160739	Soil	9	25	0.74	213	0.175	<1	2.32	0.011	0.66	0.2	<0.01	3.5	0.3	<0.05	7	<0.5	<0.2
ROS 160736	Soil	16	21	0.68	234	0.141	<1	2.46	0.012	0.44	0.1	<0.01	2.5	0.3	<0.05	8	<0.5	<0.2
ROS 173110	Soil	14	16	0.56	94	0.125	<1	2.16	0.012	0.32	0.1	<0.01	2.1	0.2	<0.05	7	<0.5	<0.2
ROS 173106	Soil	26	21	0.67	133	0.130	1	2.17	0.012	0.21	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 173111	Soil	23	15	0.66	135	0.142	<1	2.00	0.012	0.44	<0.1	<0.01	2.3	0.2	<0.05	6	<0.5	<0.2
ROS 173103	Soil	11	21	0.36	103	0.077	<1	1.40	0.010	0.08	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
ROS 173102	Soil	13	23	0.71	102	0.117	<1	1.89	0.010	0.27	0.1	0.03	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 173100	Soil	8	19	0.52	101	0.086	<1	1.53	0.010	0.20	<0.1	0.04	2.1	0.1	<0.05	5	<0.5	<0.2
ROS 163074	Soil	14	23	0.49	151	0.105	<1	1.69	0.016	0.12	0.1	<0.01	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 160887	Soil	19	20	0.48	179	0.078	<1	1.49	0.013	0.18	0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 163221	Soil	29	25	0.53	172	0.109	1	1.89	0.014	0.12	0.1	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 163212	Soil	10	48	2.44	391	0.284	<1	3.46	0.021	1.78	<0.1	0.01	7.8	0.5	0.12	11	0.5	<0.2
ROS 163215	Soil	30	16	0.67	135	0.127	<1	1.84	0.014	0.31	0.1	0.02	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 163214	Soil	29	18	0.80	148	0.140	<1	1.95	0.012	0.38	0.2	0.02	3.4	0.2	<0.05	7	<0.5	<0.2
ROS 163217	Soil	29	21	0.55	160	0.102	<1	1.83	0.013	0.14	0.1	0.04	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 163218	Soil	25	20	0.52	139	0.108	<1	1.80	0.013	0.15	0.2	0.03	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 163220	Soil	16	20	0.57	127	0.131	<1	1.80	0.013	0.20	0.1	0.03	2.8	0.2	<0.05	6	<0.5	<0.2
ROS 163216	Soil	25	19	0.75	127	0.141	<1	1.93	0.012	0.28	0.1	0.03	3.5	0.2	<0.05	8	<0.5	<0.2
ROS 163213	Soil	11	39	2.23	353	0.280	<1	3.22	0.016	1.56	<0.1	0.02	8.3	0.7	<0.05	13	0.6	<0.2
ROS 163219	Soil	20	21	0.50	141	0.115	<1	1.62	0.015	0.14	0.2	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
ROS 163210	Soil	10	36	1.54	215	0.211	<1	2.24	0.015	1.03	0.1	0.02	2.3	0.4	<0.05	6	<0.5	<0.2
ROS 163211	Soil	8	30	0.55	202	0.100	<1	1.57	0.011	0.21	0.1	0.02	2.8	0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001
ROS 160896	Soil		5.8	391.6	5.3	70	0.3	6.1	5.4	420	5.68	2.5	1.9	14.9	10.5	95	0.1	<0.1	0.1	140	0.26	0.048
ROS 160897	Soil		6.8	363.4	5.2	92	0.2	9.6	12.7	652	4.16	2.7	1.6	2.3	7.3	60	<0.1	0.1	0.1	98	0.22	0.044
ROS 160905	Soil		0.8	16.1	10.2	54	<0.1	19.1	8.7	300	2.96	11.0	0.7	5.6	8.1	15	<0.1	0.6	0.2	62	0.12	0.024
ROS 160895	Soil		3.5	61.4	7.1	101	0.3	14.1	13.7	603	4.18	4.1	1.3	2.5	5.9	60	0.2	0.2	0.1	107	0.33	0.055
ROS 160903	Soil		0.5	10.6	5.8	86	<0.1	6.8	9.1	727	3.76	3.7	1.6	0.9	11.4	63	<0.1	0.2	<0.1	56	0.16	0.015
ROS 160900	Soil		0.8	17.9	7.9	84	<0.1	13.8	9.0	587	3.35	6.8	1.1	1.2	10.9	20	<0.1	0.4	0.1	66	0.14	0.022
ROS 160899	Soil		1.1	13.7	8.5	67	<0.1	19.5	10.4	795	3.28	8.6	1.3	2.1	7.3	16	<0.1	0.5	0.2	64	0.15	0.041
ROS 160898	Soil		1.3	60.6	7.6	67	<0.1	20.1	11.4	414	3.05	7.3	2.1	3.4	6.5	33	<0.1	0.5	0.2	73	0.26	0.019
ROS 160904	Soil		0.8	12.4	7.4	60	<0.1	12.4	10.5	471	3.36	6.5	1.1	1.5	7.2	22	<0.1	0.3	0.1	58	0.14	0.026
ROS 160902	Soil		0.6	11.0	5.6	86	<0.1	6.4	9.0	722	3.80	3.7	1.7	0.6	12.2	65	<0.1	0.2	<0.1	55	0.16	0.015
ROS 160901	Soil		0.8	15.5	7.1	64	<0.1	14.4	10.3	681	3.31	6.9	1.4	1.7	11.0	25	<0.1	0.4	0.1	62	0.18	0.025
ROS 160894	Soil		0.9	55.6	4.7	68	0.3	12.0	14.6	458	3.56	3.9	0.6	2.0	2.7	28	<0.1	0.2	<0.1	96	0.29	0.049
ROS 162789	Soil		0.7	22.3	6.4	124	<0.1	9.5	9.7	394	3.72	2.4	1.8	2.0	11.5	29	<0.1	0.2	0.1	64	0.39	0.091
ROS 162786	Soil		0.9	17.0	6.9	100	<0.1	8.6	8.4	378	3.16	2.7	1.2	1.6	10.2	20	<0.1	0.3	0.1	53	0.36	0.072
ROS 162794	Soil		0.8	19.3	7.8	72	<0.1	19.0	10.6	589	2.96	9.4	1.1	1.0	4.1	30	<0.1	0.6	0.1	51	0.43	0.040
ROS 162796	Soil		1.3	17.7	7.2	67	<0.1	13.4	7.7	469	2.59	5.7	1.4	3.0	7.4	31	0.1	0.4	0.2	42	0.46	0.060
ROS 162792	Soil		0.5	20.1	6.7	113	<0.1	12.1	6.8	501	2.62	4.1	0.7	3.3	5.1	23	<0.1	0.3	<0.1	42	0.37	0.058
ROS 162793	Soil		0.9	19.7	7.6	63	<0.1	14.6	7.5	386	2.43	6.6	1.1	1.7	5.8	29	<0.1	0.5	0.1	48	0.42	0.046
ROS 162790	Soil		0.5	16.6	5.1	115	<0.1	6.6	9.2	466	3.69	2.3	1.0	1.4	9.4	15	<0.1	0.3	<0.1	67	0.34	0.109
ROS 162791	Soil		0.5	12.4	6.5	91	<0.1	5.4	7.4	352	3.14	2.8	1.1	1.5	11.0	14	<0.1	0.3	<0.1	53	0.33	0.108
ROS 162795	Soil		0.7	14.4	5.0	68	<0.1	7.4	10.1	612	3.27	4.0	0.9	1.9	8.2	20	<0.1	0.3	<0.1	51	0.39	0.078
ROS 162788	Soil		0.8	24.3	6.3	125	<0.1	10.0	10.7	418	3.91	2.8	1.8	2.9	11.3	29	<0.1	0.3	<0.1	70	0.41	0.093
ROS 162787	Soil		0.6	20.3	6.8	58	<0.1	12.9	7.9	306	2.31	6.5	1.1	2.8	5.8	33	<0.1	0.4	0.1	52	0.38	0.022
ROS 162785	Soil		0.8	18.0	7.2	89	<0.1	14.0	10.3	497	3.12	6.1	1.3	1.6	8.9	33	<0.1	0.5	0.1	55	0.49	0.080
ROS 151017	Soil		1.1	37.6	11.7	187	<0.1	36.7	19.2	517	4.28	41.7	0.4	0.9	2.7	39	<0.1	0.7	<0.1	83	0.37	0.072
ROS 151009	Soil		0.9	22.0	7.3	54	<0.1	19.9	8.1	359	2.09	6.7	0.8	3.4	2.5	38	0.3	0.5	0.1	45	0.73	0.055
ROS 151010	Soil		0.7	24.1	7.9	55	0.1	19.7	8.8	325	2.22	6.6	1.1	2.6	2.8	40	0.1	0.7	0.1	47	0.90	0.044
ROS 162879	Soil		2.6	8.5	6.7	43	<0.1	5.9	3.6	540	1.83	2.0	0.5	1.3	3.2	14	<0.1	0.2	0.1	28	0.18	0.021
ROS 151405	Soil		1.2	28.6	17.2	96	0.3	22.4	21.9	1224	4.15	7.2	3.0	2.6	5.4	54	0.3	2.3	0.2	57	1.32	0.072
ROS 151389	Soil		0.6	24.1	15.3	77	0.4	15.3	9.0	482	2.55	6.1	1.6	8.6	5.2	35	0.3	2.7	0.1	48	0.92	0.075

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
ROS 160896	Soil	19	30	1.77	233	0.233	<1	3.15	0.102	1.64	<0.1	<0.01	10.4	0.5	1.26	10	2.7	<0.2
ROS 160897	Soil	18	24	1.44	177	0.203	<1	2.73	0.010	1.07	<0.1	0.02	6.1	0.3	<0.05	10	<0.5	<0.2
ROS 160905	Soil	11	35	0.56	126	0.103	<1	1.95	0.010	0.14	0.2	0.01	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 160895	Soil	17	35	1.46	246	0.195	<1	3.02	0.017	1.05	<0.1	0.03	5.5	0.3	0.15	10	<0.5	<0.2
ROS 160903	Soil	24	12	1.14	141	0.221	<1	2.71	0.010	0.97	0.1	0.01	4.3	0.6	<0.05	10	<0.5	<0.2
ROS 160900	Soil	20	26	0.80	164	0.156	<1	2.45	0.009	0.48	<0.1	0.01	5.0	0.4	<0.05	9	<0.5	<0.2
ROS 160899	Soil	21	29	0.59	203	0.097	<1	2.47	0.010	0.17	<0.1	0.02	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 160898	Soil	24	38	0.82	243	0.129	<1	1.90	0.015	0.17	<0.1	0.04	7.1	<0.1	<0.05	7	0.7	<0.2
ROS 160904	Soil	15	18	0.69	184	0.161	<1	2.29	0.008	0.57	0.2	0.01	2.9	0.3	<0.05	8	<0.5	<0.2
ROS 160902	Soil	25	11	1.14	139	0.223	<1	2.72	0.011	0.99	<0.1	<0.01	4.3	0.6	<0.05	10	<0.5	<0.2
ROS 160901	Soil	19	25	0.94	172	0.146	<1	2.43	0.012	0.55	<0.1	0.01	4.3	0.3	<0.05	8	<0.5	<0.2
ROS 160894	Soil	9	28	1.28	328	0.193	<1	2.13	0.017	0.73	<0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
ROS 162789	Soil	37	18	0.88	265	0.136	<1	2.14	0.011	0.78	<0.1	0.03	7.1	0.3	<0.05	10	<0.5	<0.2
ROS 162786	Soil	23	13	0.66	202	0.087	2	1.84	0.010	0.51	<0.1	0.02	5.6	0.2	<0.05	8	<0.5	<0.2
ROS 162794	Soil	11	22	0.56	221	0.104	<1	1.33	0.025	0.21	<0.1	0.03	4.9	0.1	<0.05	5	<0.5	<0.2
ROS 162796	Soil	22	18	0.43	262	0.057	2	1.23	0.015	0.19	<0.1	0.03	5.0	0.1	<0.05	4	<0.5	<0.2
ROS 162792	Soil	14	10	0.62	186	0.131	<1	1.25	0.015	0.35	<0.1	0.02	4.4	0.3	<0.05	6	<0.5	<0.2
ROS 162793	Soil	14	22	0.51	199	0.096	1	1.36	0.023	0.20	0.1	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
ROS 162790	Soil	23	12	0.85	212	0.156	1	1.76	0.009	0.94	<0.1	0.01	6.1	0.4	<0.05	9	<0.5	<0.2
ROS 162791	Soil	28	12	0.71	118	0.124	1	1.47	0.008	0.75	<0.1	0.01	6.3	0.3	<0.05	7	<0.5	<0.2
ROS 162795	Soil	15	12	0.82	172	0.171	<1	1.54	0.012	0.66	<0.1	<0.01	4.5	0.3	<0.05	6	<0.5	<0.2
ROS 162788	Soil	39	20	0.91	281	0.143	<1	2.23	0.013	0.82	<0.1	0.03	7.5	0.3	<0.05	10	<0.5	<0.2
ROS 162787	Soil	15	20	0.49	172	0.095	<1	1.26	0.022	0.11	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 162785	Soil	22	21	0.73	206	0.104	1	1.73	0.020	0.41	0.1	0.02	4.5	0.1	<0.05	7	<0.5	<0.2
ROS 151017	Soil	6	136	2.24	101	0.064	<1	2.61	0.006	0.06	0.5	0.02	5.6	<0.1	<0.05	11	<0.5	<0.2
ROS 151009	Soil	10	22	0.49	253	0.049	2	1.17	0.021	0.05	0.3	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 151010	Soil	11	24	0.47	319	0.049	1	1.31	0.019	0.05	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 162879	Soil	9	11	0.29	136	0.020	1	1.16	0.006	0.10	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
ROS 151405	Soil	52	28	0.62	636	0.026	2	1.27	0.010	0.10	0.1	0.21	6.0	<0.1	<0.05	5	<0.5	<0.2
ROS 151389	Soil	21	23	0.41	580	0.032	2	1.25	0.011	0.07	0.1	0.16	4.2	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 151397	Soil	1.0	25.2	17.6	78	0.7	14.9	8.8	454	2.71	8.8	1.1	8.3	5.1	30	0.2	3.3	0.1	47	0.87	0.079
ROS 151387	Soil	1.4	35.1	36.4	81	0.6	18.9	11.1	647	2.77	7.7	1.1	21.5	5.0	36	0.3	2.5	0.2	53	1.03	0.078
ROS 160731	Soil	0.5	16.6	9.7	80	<0.1	7.8	7.6	738	3.55	2.1	2.6	<0.5	18.7	10	<0.1	0.2	<0.1	61	0.07	0.014
ROS 160740	Soil	0.4	12.6	4.7	81	<0.1	7.9	9.9	575	3.70	3.1	0.9	0.5	18.7	47	<0.1	0.2	0.2	56	0.22	0.035
ROS 160741	Soil	0.4	18.9	3.6	51	<0.1	9.4	9.6	626	3.44	3.1	1.7	0.8	21.5	188	<0.1	0.2	0.1	49	0.28	0.034
ROS 160743	Soil	1.7	83.5	6.8	85	<0.1	12.7	10.6	528	3.98	4.4	1.7	0.8	13.3	59	<0.1	0.2	0.2	55	0.31	0.045
ROS 160742	Soil	0.8	10.2	6.3	46	0.1	12.2	7.7	367	2.38	2.6	0.5	1.0	6.6	41	<0.1	0.2	0.1	45	0.42	0.040
ROS 160737	Soil	0.6	13.2	6.8	74	<0.1	15.0	9.7	499	3.23	5.5	1.0	<0.5	13.2	16	<0.1	0.3	0.1	59	0.20	0.029
ROS 160734	Soil	0.9	14.4	8.9	76	<0.1	14.6	9.5	539	3.82	7.7	0.8	0.7	10.1	24	<0.1	0.4	0.1	69	0.11	0.019
ROS 160732	Soil	0.7	11.0	6.6	64	<0.1	12.6	9.4	569	3.25	5.0	0.3	<0.5	5.0	23	<0.1	0.3	0.1	61	0.24	0.025
ROS 151148	Soil	0.5	25.6	8.3	56	0.1	19.3	7.9	364	2.02	7.1	1.2	7.6	2.3	42	0.2	0.5	0.1	41	2.21	0.054
ROS 151144	Soil	0.7	29.5	7.5	54	0.1	24.9	9.3	371	2.31	8.5	0.5	16.3	3.9	46	0.2	0.7	0.1	51	1.36	0.077
ROS 151140	Soil	0.7	39.1	12.3	60	0.1	29.9	10.4	469	2.60	9.9	0.6	4.0	6.4	34	0.1	0.8	0.2	57	0.59	0.054
ROS 151141	Soil	0.7	36.5	10.2	46	<0.1	26.3	9.2	381	2.38	9.0	0.7	6.8	5.6	38	<0.1	0.6	0.2	51	0.80	0.050
ROS 151142	Soil	2.3	45.4	34.7	97	0.1	15.9	10.7	731	3.62	5.7	6.7	4.2	37.1	45	<0.1	1.1	0.5	48	0.42	0.034
ROS 151139	Soil	0.6	28.3	9.8	47	<0.1	24.0	9.4	355	2.47	8.2	0.9	3.4	5.5	29	<0.1	0.5	0.2	54	0.43	0.055
ROS 151138	Soil	2.0	24.6	11.2	59	0.1	36.2	13.5	1662	2.73	4.8	0.9	1.1	5.5	31	0.2	0.3	0.2	71	0.38	0.053
ROS 151145	Soil	0.7	31.2	8.9	57	0.1	26.8	10.2	388	2.46	8.5	0.7	2.4	3.6	42	0.1	0.8	0.2	54	0.90	0.055
ROS 151147	Soil	2.1	14.6	8.7	41	<0.1	19.2	8.8	240	2.36	7.4	0.5	2.7	5.9	16	0.1	0.5	0.1	57	0.19	0.021
ROS 151146	Soil	0.7	30.2	8.3	47	<0.1	26.7	9.4	333	2.44	9.3	0.5	12.9	5.0	30	0.1	0.6	0.1	55	0.52	0.041
ROS 151143	Soil	2.3	42.7	31.4	91	0.1	16.3	10.0	818	3.30	5.9	5.9	3.8	33.2	41	0.2	1.0	0.8	47	0.40	0.031
ROS 151149	Soil	0.4	21.9	6.0	43	<0.1	17.2	6.6	324	1.61	6.6	1.0	1.9	0.9	46	0.3	0.4	0.1	35	2.59	0.058
ROS 151018	Soil	0.7	27.0	14.3	167	<0.1	13.6	12.9	550	3.64	34.7	0.5	1.9	2.8	94	0.3	0.8	<0.1	86	1.08	0.115
ROS 151014	Soil	1.0	48.7	20.6	140	<0.1	17.5	18.1	660	4.62	15.2	0.8	4.6	5.4	94	0.1	2.9	0.2	90	0.79	0.066
ROS 151016	Soil	0.8	20.0	9.4	83	<0.1	19.7	11.3	317	2.91	24.1	0.5	1.8	2.6	43	0.1	0.8	<0.1	66	0.41	0.071
ROS 151015	Soil	0.9	48.1	9.4	74	0.2	23.0	11.5	453	2.91	57.6	1.1	2.4	2.8	50	0.2	1.4	0.1	75	1.26	0.061
ROS 152583	Soil	0.6	24.7	8.6	43	0.1	18.5	9.4	305	2.29	7.4	0.9	1.7	4.3	29	<0.1	0.5	0.2	50	0.51	0.040
ROS 159079	Soil	1.3	26.3	17.4	85	<0.1	19.8	13.7	453	3.63	7.3	2.3	1.7	19.2	19	<0.1	0.8	0.2	62	0.30	0.054
ROS 163475	Soil	0.8	20.0	7.5	55	0.1	16.1	7.7	328	2.15	6.0	1.1	2.0	4.0	29	0.1	0.4	0.1	45	0.50	0.053
ROS 159696	Soil	1.0	27.3	7.9	57	<0.1	18.3	8.4	302	2.44	5.5	1.5	3.7	6.1	31	<0.1	0.4	0.2	51	0.37	0.038

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 151397	Soil	22	22	0.43	653	0.020	3	1.30	0.010	0.07	0.2	0.13	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 151387	Soil	24	25	0.59	573	0.020	2	1.39	0.013	0.06	0.2	0.23	4.9	<0.1	<0.05	5	<0.5	0.3
ROS 160731	Soil	56	10	1.07	107	0.188	<1	1.99	0.008	1.11	0.1	<0.01	7.4	0.6	<0.05	11	<0.5	<0.2
ROS 160740	Soil	21	14	0.89	174	0.205	<1	2.19	0.010	1.16	<0.1	<0.01	5.7	0.5	<0.05	9	<0.5	<0.2
ROS 160741	Soil	37	12	0.88	197	0.187	<1	2.24	0.015	1.06	0.1	0.01	4.2	0.5	<0.05	8	<0.5	<0.2
ROS 160743	Soil	19	15	0.77	208	0.183	<1	2.42	0.011	0.77	0.5	0.02	4.3	0.3	<0.05	9	<0.5	<0.2
ROS 160742	Soil	11	20	0.47	235	0.105	1	1.56	0.009	0.34	0.2	0.02	2.3	0.2	<0.05	5	<0.5	<0.2
ROS 160737	Soil	19	22	0.78	129	0.149	<1	1.92	0.008	0.66	0.1	<0.01	6.5	0.3	<0.05	8	<0.5	<0.2
ROS 160734	Soil	7	25	0.74	160	0.152	<1	2.72	0.009	0.57	<0.1	0.02	3.7	0.3	<0.05	10	<0.5	<0.2
ROS 160732	Soil	6	16	0.79	292	0.154	<1	2.26	0.008	0.37	0.1	<0.01	3.3	0.3	<0.05	8	<0.5	<0.2
ROS 151148	Soil	17	23	0.52	211	0.037	3	1.15	0.014	0.05	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 151144	Soil	13	26	0.64	270	0.063	1	1.05	0.024	0.07	0.3	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
ROS 151140	Soil	18	30	0.58	273	0.061	<1	1.31	0.022	0.07	0.1	0.05	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 151141	Soil	16	27	0.54	239	0.062	1	1.25	0.020	0.06	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 151142	Soil	86	21	0.50	265	0.028	<1	1.90	0.006	0.14	<0.1	0.05	5.8	<0.1	<0.05	8	<0.5	<0.2
ROS 151139	Soil	16	31	0.50	261	0.070	<1	1.50	0.018	0.07	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
ROS 151138	Soil	15	49	0.51	425	0.082	<1	1.83	0.013	0.08	0.2	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
ROS 151145	Soil	13	28	0.60	311	0.069	2	1.44	0.038	0.06	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151147	Soil	9	30	0.39	202	0.060	<1	1.49	0.011	0.06	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 151146	Soil	15	29	0.54	270	0.065	<1	1.27	0.023	0.05	0.3	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 151143	Soil	82	23	0.46	267	0.029	<1	1.79	0.007	0.13	<0.1	0.06	5.5	<0.1	<0.05	8	<0.5	<0.2
ROS 151149	Soil	8	18	0.56	218	0.031	2	0.90	0.014	0.03	0.2	0.05	1.6	<0.1	<0.05	3	<0.5	<0.2
ROS 151018	Soil	8	27	1.11	116	0.109	<1	2.22	0.022	0.09	0.1	0.47	5.5	<0.1	<0.05	15	<0.5	<0.2
ROS 151014	Soil	18	36	1.41	314	0.077	2	2.79	0.010	0.12	0.4	0.04	5.2	<0.1	<0.05	11	0.6	<0.2
ROS 151016	Soil	9	29	0.71	173	0.083	<1	1.72	0.012	0.11	0.3	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
ROS 151015	Soil	13	31	0.71	251	0.071	2	1.70	0.019	0.06	0.2	0.06	5.0	<0.1	<0.05	7	<0.5	<0.2
ROS 152583	Soil	14	25	0.41	269	0.056	<1	1.37	0.016	0.04	0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 159079	Soil	30	32	0.86	142	0.101	<1	1.82	0.009	0.42	0.2	0.01	6.1	0.3	<0.05	8	<0.5	<0.2
ROS 163475	Soil	16	24	0.43	265	0.061	1	1.34	0.018	0.06	<0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159696	Soil	17	29	0.54	248	0.095	<1	1.68	0.015	0.09	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159224	Soil		0.7	25.5	7.9	54	<0.1	19.5	9.4	317	2.44	7.0	1.0	2.8	4.5	39	<0.1	0.6	0.2	48	0.52	0.040
ROS 160879	Soil		0.7	29.5	7.9	56	0.1	22.8	8.0	335	2.65	7.6	0.9	3.3	5.4	37	0.1	0.7	0.2	53	0.61	0.049
ROS 163092	Soil		1.0	21.0	6.5	77	<0.1	11.7	10.2	793	2.80	5.1	1.1	4.1	5.3	35	0.1	0.4	0.2	56	0.60	0.080
ROS 161175	Soil		1.0	29.7	8.5	67	<0.1	24.2	10.9	378	2.61	8.9	0.7	3.0	3.4	41	0.2	0.7	0.1	55	0.78	0.066
ROS 160893	Soil		1.1	14.3	7.4	70	<0.1	14.3	9.2	671	2.43	6.3	1.3	<0.5	7.3	28	0.2	0.3	0.1	48	0.38	0.065
ROS 160735	Soil		0.7	8.4	8.5	95	<0.1	12.4	6.8	417	2.62	6.1	0.6	1.2	2.1	16	<0.1	0.3	<0.1	54	0.17	0.038
ROS 160877	Soil		0.9	19.1	8.0	63	<0.1	15.9	8.6	416	2.56	6.1	1.0	1.6	8.4	25	0.1	0.5	0.2	50	0.43	0.053
ROS 163479	Soil		1.0	28.2	9.2	59	<0.1	23.6	11.2	499	2.53	9.2	0.9	2.5	5.8	37	0.2	0.7	0.2	58	0.55	0.051
ROS 160878	Soil		0.7	18.4	6.9	51	<0.1	14.7	6.9	318	2.44	6.0	0.9	<0.5	7.5	29	<0.1	0.5	0.2	45	0.45	0.049
ROS 159997	Soil		0.6	29.0	5.8	81	<0.1	12.5	14.1	770	3.92	5.3	0.9	1.7	2.0	41	0.2	0.6	<0.1	90	0.97	0.090
ROS 161157	Soil		1.0	20.1	3.6	46	<0.1	7.9	8.5	441	3.69	3.7	1.7	<0.5	11.9	38	<0.1	0.2	0.2	49	0.31	0.030
ROS 163093	Soil		1.0	18.1	7.2	67	0.1	11.1	7.5	618	2.43	4.5	1.2	8.6	4.3	38	0.1	0.4	0.2	44	0.56	0.068
ROS 162642	Soil		0.9	16.2	4.0	49	<0.1	7.9	8.5	435	2.98	3.5	1.4	1.6	9.6	36	<0.1	0.2	0.2	53	0.32	0.041
ROS 162654	Soil		0.9	28.1	7.8	60	<0.1	23.7	9.5	454	2.29	9.6	0.5	2.5	3.8	46	0.3	0.7	0.1	51	1.27	0.080
ROS 162643	Soil		0.7	19.0	6.2	47	<0.1	12.8	7.6	274	2.45	6.4	1.5	2.3	6.6	31	<0.1	0.3	0.2	50	0.32	0.038
ROS 162650	Soil		0.7	24.2	7.2	54	<0.1	12.6	6.0	195	2.38	5.5	1.7	2.8	6.2	32	<0.1	0.3	0.2	46	0.33	0.050
ROS 162652	Soil		0.7	19.0	7.4	53	0.1	13.4	6.2	172	2.40	6.6	1.4	3.2	5.0	30	<0.1	0.4	0.1	47	0.31	0.050
ROS 162640	Soil		0.8	40.2	5.6	62	<0.1	12.5	11.2	502	3.26	4.3	1.9	2.0	12.9	45	<0.1	0.3	0.2	61	0.50	0.039
ROS 162649	Soil		0.8	23.0	6.8	59	0.1	14.2	6.6	201	2.48	6.4	1.6	4.1	5.9	30	<0.1	0.3	0.2	49	0.29	0.047
ROS 162644	Soil		1.0	30.3	6.4	52	0.2	12.0	7.3	276	2.59	6.4	2.5	3.2	6.0	38	<0.1	0.3	0.2	46	0.32	0.048
ROS 162567	Soil		2.0	12.9	13.4	114	<0.1	5.9	8.9	496	3.54	2.4	1.8	1.5	15.0	59	<0.1	0.2	0.2	51	0.25	0.084
ROS 162569	Soil		1.1	26.6	8.6	49	<0.1	23.0	9.3	377	2.51	8.7	1.3	3.5	5.5	58	<0.1	0.6	0.2	53	0.43	0.056
ROS 162575	Soil		1.0	17.2	7.1	56	<0.1	15.4	7.1	212	2.21	6.5	1.8	4.3	6.2	32	0.1	0.3	0.1	51	0.47	0.082
ROS 163471	Soil		0.6	27.5	7.6	55	<0.1	22.5	9.8	405	2.30	9.4	0.6	4.7	3.8	52	0.2	0.7	0.1	52	1.42	0.056
ROS 162571	Soil		0.5	20.8	6.3	71	<0.1	14.3	8.2	657	2.77	5.1	1.2	1.2	17.2	15	<0.1	0.4	<0.1	40	0.30	0.070
ROS 162570	Soil		0.6	19.6	7.0	67	<0.1	14.9	7.7	669	2.81	4.9	1.2	2.8	18.2	16	<0.1	0.4	<0.1	40	0.29	0.077
ROS 162564	Soil		1.9	25.9	7.4	101	<0.1	15.3	7.1	900	2.87	4.3	1.4	2.0	12.4	17	<0.1	0.5	0.2	40	0.31	0.075
ROS 163478	Soil		1.0	26.6	8.4	60	<0.1	22.2	9.8	441	2.54	9.4	0.8	4.2	5.0	38	0.2	0.7	0.1	56	0.54	0.060
ROS 162574	Soil		0.7	8.9	6.4	69	<0.1	13.8	8.8	804	3.26	5.0	1.0	2.1	12.7	15	<0.1	0.3	<0.1	52	0.17	0.030
ROS 160994	Soil		0.6	21.6	8.7	64	<0.1	19.2	10.2	468	2.77	7.1	0.9	5.7	7.4	23	<0.1	0.5	0.1	55	0.43	0.043

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159224	Soil	15	26	0.56	288	0.080	2	1.68	0.024	0.07	0.2	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 160879	Soil	17	27	0.55	310	0.075	2	1.57	0.019	0.07	0.1	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 163092	Soil	21	18	0.47	252	0.046	4	1.18	0.011	0.15	0.2	0.04	5.0	0.1	0.06	4	0.9	<0.2
ROS 161175	Soil	12	30	0.66	251	0.066	3	1.48	0.020	0.08	0.2	0.02	3.2	<0.1	<0.05	5	0.7	<0.2
ROS 160893	Soil	23	23	0.48	171	0.069	2	1.50	0.011	0.15	0.2	0.03	3.4	0.1	<0.05	5	<0.5	<0.2
ROS 160735	Soil	6	22	0.72	186	0.129	<1	2.10	0.011	0.38	0.1	0.01	2.4	0.2	<0.05	9	<0.5	<0.2
ROS 160877	Soil	20	22	0.50	260	0.095	2	1.45	0.019	0.23	0.2	0.04	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 163479	Soil	17	33	0.50	299	0.083	2	1.73	0.024	0.09	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 160878	Soil	20	22	0.47	238	0.083	1	1.45	0.016	0.14	0.1	0.04	3.5	0.1	<0.05	5	0.5	<0.2
ROS 159997	Soil	11	17	0.51	355	0.034	3	1.41	0.014	0.10	0.1	0.06	8.4	<0.1	<0.05	5	0.7	<0.2
ROS 161157	Soil	27	12	0.81	246	0.163	<1	2.21	0.015	0.61	<0.1	<0.01	2.5	0.4	<0.05	6	<0.5	<0.2
ROS 163093	Soil	21	18	0.46	223	0.044	2	1.20	0.011	0.13	0.2	0.05	3.8	0.1	<0.05	4	0.5	<0.2
ROS 162642	Soil	24	15	0.77	198	0.157	<1	1.91	0.022	0.60	0.1	0.01	3.0	0.3	<0.05	6	<0.5	0.3
ROS 162654	Soil	12	23	0.77	317	0.070	2	1.16	0.023	0.11	0.2	0.04	2.6	<0.1	<0.05	4	0.6	<0.2
ROS 162643	Soil	21	22	0.59	188	0.105	1	1.71	0.020	0.13	0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 162650	Soil	22	22	0.53	205	0.088	1	1.83	0.013	0.14	<0.1	0.04	3.0	0.1	<0.05	6	<0.5	0.4
ROS 162652	Soil	18	21	0.50	175	0.083	1	1.75	0.010	0.11	0.1	0.06	2.5	<0.1	<0.05	5	0.5	<0.2
ROS 162640	Soil	26	18	0.98	231	0.170	<1	2.28	0.017	0.66	<0.1	0.01	3.4	0.3	<0.05	7	0.6	<0.2
ROS 162649	Soil	20	22	0.55	192	0.090	1	1.97	0.011	0.15	0.1	0.05	2.9	0.1	<0.05	6	<0.5	<0.2
ROS 162644	Soil	31	20	0.55	186	0.092	1	2.15	0.014	0.17	<0.1	0.05	3.0	0.1	<0.05	6	1.0	<0.2
ROS 162567	Soil	31	9	0.66	157	0.092	2	1.59	0.007	0.74	0.3	<0.01	5.4	0.2	<0.05	7	<0.5	<0.2
ROS 162569	Soil	19	31	0.55	277	0.079	1	1.69	0.020	0.11	0.2	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 162575	Soil	26	23	0.60	166	0.081	2	1.33	0.018	0.14	0.2	0.04	3.2	0.1	<0.05	4	<0.5	<0.2
ROS 163471	Soil	14	25	0.58	297	0.075	2	1.37	0.026	0.07	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	0.3
ROS 162571	Soil	28	14	0.65	188	0.088	1	1.70	0.009	0.49	<0.1	0.02	4.2	0.3	<0.05	6	<0.5	<0.2
ROS 162570	Soil	28	14	0.66	183	0.090	1	1.75	0.013	0.50	<0.1	0.02	4.2	0.3	<0.05	6	<0.5	<0.2
ROS 162564	Soil	30	18	0.57	278	0.065	2	1.45	0.011	0.42	0.1	0.04	3.6	0.2	<0.05	5	<0.5	<0.2
ROS 163478	Soil	16	28	0.54	286	0.093	<1	1.64	0.031	0.09	0.2	0.04	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 162574	Soil	21	19	0.82	205	0.131	1	2.20	0.009	0.38	<0.1	0.03	3.8	0.2	<0.05	8	<0.5	<0.2
ROS 160994	Soil	22	24	0.60	278	0.088	2	1.60	0.021	0.19	0.2	0.03	4.1	<0.1	<0.05	5	0.8	<0.2

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Project: ROS
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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 162576	Soil		1.8	16.3	9.8	55	0.1	18.4	7.1	264	2.30	6.4	1.4	3.6	5.9	31	0.2	0.3	0.2	49	0.44	0.043
ROS 162572	Soil		0.8	25.7	7.0	61	<0.1	19.2	8.4	342	2.84	9.7	0.6	4.8	6.1	23	<0.1	0.6	0.1	57	0.35	0.038
ROS 162573	Soil		1.0	10.6	7.7	75	<0.1	14.0	9.1	683	2.84	7.5	0.8	1.8	6.6	22	<0.1	0.4	0.1	54	0.31	0.076
ROS 162568	Soil		0.7	16.3	7.7	82	<0.1	7.8	10.2	637	3.51	3.0	1.0	0.7	15.5	26	<0.1	0.3	0.1	50	0.33	0.080
ROS 160906	Soil		0.7	14.5	6.9	48	<0.1	15.4	7.6	281	2.54	6.9	0.7	<0.5	5.7	18	<0.1	0.4	0.1	52	0.14	0.018
ROS 160908	Soil		0.7	17.8	6.1	41	<0.1	15.0	8.5	276	2.41	7.5	2.2	4.5	9.7	39	<0.1	0.4	0.1	51	0.35	0.034
ROS 159551	Soil		0.7	28.4	7.4	63	<0.1	25.6	9.2	311	2.32	5.6	0.9	3.1	3.9	39	0.2	0.6	0.1	54	0.66	0.078
ROS 159534	Soil		0.5	21.6	5.6	68	<0.1	35.3	12.2	658	3.66	3.2	1.3	1.1	12.8	47	<0.1	0.2	0.1	66	0.89	0.064
ROS 159549	Soil		0.6	33.3	6.4	67	<0.1	16.7	11.2	445	3.04	3.2	2.1	1.2	5.8	58	<0.1	0.3	0.2	70	0.92	0.062
ROS 159552	Soil		1.0	30.5	7.9	66	<0.1	27.2	10.4	447	2.46	7.8	0.6	<0.5	3.7	69	0.3	0.7	0.1	55	1.73	0.078
ROS 159548	Soil		0.4	43.3	3.4	57	<0.1	20.9	21.2	750	3.59	0.7	0.6	1.8	3.8	89	<0.1	0.3	<0.1	96	1.17	0.066
ROS 159553	Soil		0.9	32.2	8.1	66	0.1	26.0	10.2	458	2.43	8.2	0.6	3.5	4.0	67	0.3	0.7	0.1	54	1.88	0.075
ROS 159550	Soil		0.8	29.6	5.7	50	<0.1	18.1	10.1	544	2.50	2.9	2.8	1.2	7.0	47	0.2	0.3	0.2	53	0.62	0.055
ROS 159547	Soil		0.7	16.7	6.1	46	<0.1	11.6	7.2	271	2.18	4.0	1.2	3.2	5.5	27	<0.1	0.3	0.1	46	0.33	0.041
ROS 162813	Soil		1.2	38.8	8.4	72	0.1	15.4	8.5	439	2.21	3.4	2.3	2.5	7.9	36	0.1	0.3	0.2	44	0.56	0.051
ROS 162798	Soil		1.9	19.8	7.3	67	<0.1	15.7	9.9	577	3.19	5.4	1.2	1.4	11.3	21	<0.1	0.4	0.4	64	0.35	0.030
ROS 162816	Soil		1.1	26.5	7.9	71	<0.1	21.5	9.8	328	2.81	5.3	1.0	3.1	8.2	31	0.1	0.4	0.2	57	0.45	0.061
ROS 159368	Soil		0.7	9.3	5.9	56	<0.1	9.5	6.3	355	2.45	3.3	0.7	1.3	7.2	11	<0.1	0.3	<0.1	45	0.13	0.022
ROS 159653	Soil		0.5	12.2	6.0	39	<0.1	13.0	6.1	212	1.94	4.4	0.6	2.2	4.6	20	<0.1	0.4	<0.1	48	0.25	0.037
ROS 159657	Soil		0.8	17.8	7.3	49	<0.1	15.2	8.3	364	2.18	5.9	1.3	2.9	5.3	30	0.1	0.4	0.1	50	0.45	0.058
ROS 159663	Soil		0.7	18.1	6.9	47	<0.1	16.8	7.2	251	2.13	5.8	0.9	1.1	4.3	26	<0.1	0.4	0.1	50	0.37	0.050
ROS 159656	Soil		0.6	20.4	7.1	54	<0.1	16.8	8.0	390	2.22	5.3	0.9	1.2	5.2	31	<0.1	0.5	0.1	50	0.48	0.057
ROS 159650	Soil		0.7	12.8	6.8	44	<0.1	14.9	7.5	313	2.42	6.6	0.5	2.3	4.0	18	<0.1	0.4	0.1	53	0.18	0.024
ROS 159661	Soil		0.6	17.4	6.8	47	<0.1	15.3	7.0	273	2.04	4.9	1.1	3.1	4.1	31	0.1	0.4	0.1	47	0.46	0.052
ROS 159651	Soil		0.9	10.4	7.8	42	<0.1	13.8	8.1	255	2.32	7.1	0.6	1.2	5.5	16	<0.1	0.5	0.2	53	0.16	0.017
ROS 159363	Soil		1.0	8.9	6.2	36	<0.1	7.8	4.4	540	1.69	3.6	0.4	0.8	3.1	14	<0.1	0.4	0.1	44	0.18	0.029
ROS 159370	Soil		1.1	18.1	9.4	71	<0.1	42.8	15.4	398	3.86	4.8	1.2	<0.5	6.2	24	<0.1	0.5	0.3	78	0.31	0.020
ROS 159668	Soil		0.8	12.9	7.7	43	<0.1	15.4	7.8	229	2.40	7.1	0.6	2.6	3.8	14	<0.1	0.4	0.1	56	0.14	0.031
ROS 162797	Soil		2.3	21.6	4.2	74	<0.1	11.4	11.6	506	3.74	3.3	1.1	1.0	7.6	18	<0.1	0.3	0.1	83	0.33	0.067
ROS 162811	Soil		0.8	11.2	6.8	65	<0.1	7.6	7.4	514	2.75	1.8	1.2	<0.5	9.3	36	<0.1	0.2	0.1	53	0.59	0.047

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 162576	Soil	31	27	0.43	240	0.071	<1	1.64	0.012	0.10	0.2	0.05	3.1	0.1	<0.05	6	<0.5	<0.2
ROS 162572	Soil	13	24	0.53	197	0.084	1	1.75	0.015	0.13	<0.1	0.03	4.6	0.1	<0.05	5	0.6	<0.2
ROS 162573	Soil	10	25	0.61	199	0.091	1	1.76	0.009	0.26	0.2	0.02	3.2	0.1	<0.05	6	0.6	<0.2
ROS 162568	Soil	33	7	0.68	226	0.072	<1	1.75	0.008	0.54	0.2	0.01	5.0	0.2	<0.05	8	<0.5	<0.2
ROS 160906	Soil	11	24	0.60	129	0.100	<1	1.77	0.013	0.21	0.2	0.02	2.2	0.1	<0.05	5	0.5	0.2
ROS 160908	Soil	28	24	0.55	157	0.102	1	1.69	0.019	0.18	0.1	0.03	3.2	0.1	<0.05	5	0.5	<0.2
ROS 159551	Soil	13	27	0.60	243	0.084	2	1.26	0.033	0.10	0.2	0.03	3.2	<0.1	<0.05	4	0.5	<0.2
ROS 159534	Soil	22	29	1.17	222	0.227	1	2.85	0.010	0.63	0.2	0.01	3.8	0.4	<0.05	11	<0.5	0.2
ROS 159549	Soil	21	29	0.94	187	0.100	1	2.26	0.017	0.12	0.1	0.04	5.8	0.1	<0.05	8	0.6	<0.2
ROS 159552	Soil	12	27	0.76	326	0.080	3	1.14	0.033	0.10	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 159548	Soil	10	39	1.87	53	0.146	1	2.51	0.017	0.05	<0.1	0.03	8.5	<0.1	<0.05	9	<0.5	<0.2
ROS 159553	Soil	12	27	0.78	331	0.083	8	1.18	0.032	0.10	0.2	0.03	3.1	<0.1	<0.05	4	0.6	<0.2
ROS 159550	Soil	27	22	0.56	243	0.108	1	1.70	0.021	0.28	<0.1	0.05	3.9	0.2	<0.05	5	<0.5	<0.2
ROS 159547	Soil	14	21	0.51	188	0.102	<1	1.36	0.014	0.14	0.1	0.02	2.5	0.1	<0.05	4	<0.5	<0.2
ROS 162813	Soil	29	22	0.57	212	0.059	2	1.35	0.015	0.16	0.1	0.05	3.5	0.1	<0.05	5	0.5	<0.2
ROS 162798	Soil	24	22	0.67	255	0.087	3	1.59	0.010	0.36	0.1	0.02	6.7	0.1	<0.05	6	0.6	<0.2
ROS 162816	Soil	21	35	0.57	214	0.104	2	1.65	0.017	0.20	0.1	0.04	5.1	0.1	<0.05	5	<0.5	<0.2
ROS 159368	Soil	12	16	0.58	116	0.120	<1	1.60	0.008	0.20	0.1	0.02	2.4	0.2	<0.05	6	<0.5	<0.2
ROS 159653	Soil	16	24	0.41	231	0.075	<1	1.08	0.014	0.06	0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 159657	Soil	15	25	0.42	231	0.076	1	1.28	0.022	0.08	0.2	0.03	3.2	<0.1	<0.05	4	0.6	<0.2
ROS 159663	Soil	15	32	0.42	235	0.068	<1	1.29	0.014	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 159656	Soil	17	24	0.45	244	0.082	1	1.34	0.020	0.09	0.2	0.03	3.2	<0.1	<0.05	4	0.7	<0.2
ROS 159650	Soil	9	25	0.44	173	0.081	1	1.32	0.008	0.17	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159661	Soil	16	25	0.40	281	0.072	2	1.32	0.018	0.05	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 159651	Soil	11	25	0.36	200	0.065	12	1.33	0.009	0.09	0.1	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159363	Soil	9	15	0.22	161	0.068	1	0.72	0.007	0.11	0.1	0.02	1.6	<0.1	<0.05	4	0.5	<0.2
ROS 159370	Soil	25	95	0.98	301	0.101	2	2.06	0.008	0.23	<0.1	0.02	7.7	0.2	<0.05	7	<0.5	<0.2
ROS 159668	Soil	12	24	0.37	162	0.071	<1	1.62	0.009	0.06	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 162797	Soil	17	20	0.80	202	0.100	2	1.70	0.012	0.44	<0.1	0.02	7.9	0.2	<0.05	7	<0.5	<0.2
ROS 162811	Soil	24	12	0.73	275	0.063	2	1.58	0.009	0.31	<0.1	0.02	3.3	0.2	<0.05	5	0.6	<0.2

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			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 162804	Soil		2.9	41.5	8.0	60	<0.1	7.8	7.4	709	2.65	2.9	1.7	1.3	10.9	30	<0.1	0.2	0.2	41	0.68	0.036
ROS 162805	Soil		3.0	26.4	7.6	64	0.1	12.3	9.5	727	2.48	7.1	5.1	14.7	9.7	34	0.1	0.2	0.7	49	0.70	0.074
ROS 162803	Soil		1.7	77.9	15.9	140	0.3	9.9	8.3	796	3.10	8.2	2.2	1.5	11.1	22	0.3	0.2	2.7	47	0.42	0.040
ROS 159652	Soil		0.8	8.0	5.9	37	<0.1	10.3	4.8	180	1.75	5.5	0.5	4.6	3.2	17	<0.1	0.3	0.1	51	0.18	0.019
ROS 162808	Soil		1.8	15.2	7.1	67	<0.1	12.9	8.3	552	2.25	4.5	1.7	6.4	8.3	40	0.2	0.3	0.2	44	0.90	0.069
ROS 162810	Soil		0.9	12.9	7.7	54	<0.1	17.0	8.2	364	2.66	6.1	0.6	2.5	5.1	18	<0.1	0.3	0.1	58	0.23	0.020
ROS 162807	Soil		8.4	75.5	10.1	89	0.3	9.1	9.5	747	2.83	2.5	2.9	1.1	9.8	23	0.4	0.2	1.4	43	0.48	0.063
ROS 162809	Soil		0.6	11.2	5.5	47	<0.1	5.9	5.4	481	1.86	1.6	2.1	0.5	10.2	41	<0.1	0.2	<0.1	30	0.82	0.039
ROS 162847	Soil		0.6	18.2	5.8	73	<0.1	15.8	7.7	607	2.11	2.8	1.0	2.9	5.4	23	<0.1	0.5	<0.1	59	0.32	0.063
ROS 162525	Soil		0.6	24.7	9.1	57	<0.1	20.9	9.0	420	2.30	6.6	1.0	3.9	6.6	29	<0.1	0.5	0.1	52	0.51	0.058
ROS 162524	Soil		0.8	14.2	8.4	57	<0.1	12.6	9.4	688	2.13	3.3	1.5	5.4	5.5	25	0.2	0.2	0.1	39	0.59	0.063
ROS 162806	Soil		4.6	33.7	7.7	74	0.1	8.0	9.7	657	3.03	2.3	1.3	1.7	8.2	19	0.1	0.2	1.3	58	0.39	0.059
ROS 162812	Soil		1.8	27.9	6.6	55	<0.1	9.0	7.3	698	2.33	2.2	6.7	3.1	5.9	63	<0.1	0.2	0.1	40	1.06	0.042
ROS 162815	Soil		1.2	18.4	6.6	51	0.1	15.2	7.7	307	2.07	5.3	0.9	10.0	4.5	31	<0.1	0.4	0.1	44	0.53	0.064
ROS 162814	Soil		1.4	40.7	8.6	69	<0.1	14.7	8.6	456	2.25	4.1	2.5	1.3	7.8	35	0.2	0.3	0.2	40	0.55	0.047
ROS 162846	Soil		0.4	13.8	5.1	40	<0.1	9.8	3.6	162	1.76	3.7	1.1	2.3	16.3	17	<0.1	0.3	<0.1	29	0.29	0.054
ROS 164885	Soil		1.1	24.3	18.2	65	0.2	18.9	10.8	988	2.44	2.6	7.2	2.2	27.9	52	0.3	0.3	0.4	38	1.71	0.039
ROS 164884	Soil		0.8	30.2	7.4	68	0.1	23.6	9.9	512	2.53	6.6	0.8	7.5	4.2	32	0.2	0.5	0.1	53	0.57	0.071
ROS 164889	Soil		4.0	25.9	29.0	137	0.1	14.5	16.5	749	4.09	5.6	2.3	2.7	29.3	19	0.1	0.2	0.2	82	0.46	0.083
ROS 164891	Soil		1.2	26.5	18.6	91	<0.1	16.9	14.6	787	4.32	4.3	3.4	3.7	34.0	33	<0.1	0.3	0.2	51	0.97	0.055
ROS 164893	Soil		1.3	18.3	14.2	53	<0.1	19.0	8.8	545	2.81	6.1	1.0	1.3	15.3	16	<0.1	0.4	0.1	51	0.21	0.036
ROS 164890	Soil		1.1	17.0	11.2	79	<0.1	19.3	10.1	735	2.53	6.3	0.6	3.4	8.1	13	0.1	0.5	0.2	59	0.16	0.023
ROS 164892	Soil		0.9	30.3	6.7	52	<0.1	8.5	6.1	771	2.60	2.4	1.1	2.9	26.9	9	<0.1	0.3	<0.1	28	0.19	0.034
ROS 164894	Soil		1.0	26.8	9.2	57	<0.1	25.0	9.5	411	2.78	7.9	1.1	2.9	12.2	17	<0.1	0.6	0.1	56	0.21	0.033
ROS 164888	Soil		1.2	17.5	11.3	76	<0.1	12.8	11.2	452	3.50	5.7	1.4	1.5	7.7	16	0.1	0.3	0.2	57	0.35	0.044
ROS 160883	Soil		0.6	27.7	8.1	56	<0.1	22.7	9.4	363	2.29	8.3	0.5	2.0	4.2	36	0.1	0.6	0.1	48	0.62	0.064
ROS 160882	Soil		0.8	32.7	8.4	54	0.1	26.6	10.0	376	2.46	8.6	0.8	4.3	4.2	38	0.2	0.7	0.2	55	0.61	0.058
ROS 160886	Soil		1.0	18.8	7.6	46	<0.1	19.1	8.8	264	2.35	7.6	0.8	5.5	5.4	26	<0.1	0.4	0.2	55	0.39	0.048
ROS 163073	Soil		1.0	19.6	8.2	50	<0.1	14.0	7.3	231	2.53	6.7	0.9	1.4	5.8	23	<0.1	0.4	0.2	56	0.23	0.017
ROS 163072	Soil		0.8	17.7	6.3	47	<0.1	12.6	7.7	275	2.31	4.3	1.1	5.1	4.6	25	<0.1	0.3	0.1	52	0.29	0.027

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 162804	Soil	37	13	0.47	158	0.064	1	1.33	0.012	0.24	0.5	0.02	3.5	0.2	<0.05	5	<0.5	<0.2
ROS 162805	Soil	42	21	0.50	129	0.080	2	1.12	0.018	0.18	0.3	0.03	3.5	0.2	<0.05	4	<0.5	<0.2
ROS 162803	Soil	47	14	0.64	178	0.091	2	1.51	0.010	0.30	0.5	0.03	3.8	0.3	<0.05	6	<0.5	<0.2
ROS 159652	Soil	10	23	0.31	244	0.067	<1	0.91	0.011	0.08	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
ROS 162808	Soil	27	18	0.48	200	0.053	2	1.18	0.015	0.15	0.1	0.04	3.6	0.1	<0.05	4	0.5	<0.2
ROS 162810	Soil	16	26	0.47	228	0.070	1	1.85	0.008	0.08	0.1	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 162807	Soil	35	15	0.49	170	0.072	2	1.40	0.010	0.29	0.6	0.02	3.5	0.2	<0.05	5	<0.5	<0.2
ROS 162809	Soil	40	9	0.50	227	0.028	<1	1.30	0.007	0.21	<0.1	0.02	2.6	0.1	<0.05	4	<0.5	<0.2
ROS 162847	Soil	21	17	0.41	297	0.038	1	1.32	0.008	0.07	<0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2
ROS 162525	Soil	23	26	0.54	257	0.073	1	1.22	0.024	0.11	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 162524	Soil	20	20	0.49	312	0.063	1	1.09	0.013	0.27	0.2	0.04	3.2	0.1	<0.05	4	0.5	<0.2
ROS 162806	Soil	24	13	0.77	154	0.097	1	1.62	0.011	0.44	0.5	0.02	4.6	0.2	<0.05	6	<0.5	<0.2
ROS 162812	Soil	44	16	0.53	527	0.038	<1	1.25	0.008	0.23	<0.1	0.04	3.8	0.1	<0.05	4	0.7	<0.2
ROS 162815	Soil	18	23	0.44	184	0.061	<1	1.24	0.013	0.08	0.1	0.05	3.5	<0.1	<0.05	4	0.6	<0.2
ROS 162814	Soil	31	21	0.55	208	0.057	2	1.35	0.014	0.18	0.1	0.04	4.0	0.2	<0.05	5	0.6	<0.2
ROS 162846	Soil	35	14	0.23	111	0.018	<1	1.15	0.008	0.05	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
ROS 164885	Soil	214	29	0.44	153	0.047	2	1.23	0.011	0.21	<0.1	0.07	5.2	0.2	<0.05	4	<0.5	<0.2
ROS 164884	Soil	17	24	0.64	231	0.060	<1	1.44	0.020	0.10	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164889	Soil	71	36	1.12	235	0.109	<1	1.98	0.006	0.54	<0.1	0.04	15.0	0.7	<0.05	6	0.7	<0.2
ROS 164891	Soil	98	17	0.81	136	0.166	<1	1.92	0.010	0.69	0.1	0.03	8.1	0.8	<0.05	8	<0.5	<0.2
ROS 164893	Soil	22	27	0.42	152	0.070	<1	1.47	0.009	0.20	0.1	0.02	6.1	0.1	<0.05	5	<0.5	<0.2
ROS 164890	Soil	16	32	0.38	177	0.057	<1	1.75	0.009	0.07	<0.1	0.01	4.2	0.1	<0.05	5	<0.5	<0.2
ROS 164892	Soil	68	7	0.35	78	0.066	<1	0.90	0.007	0.27	0.2	0.04	5.0	0.2	<0.05	5	<0.5	<0.2
ROS 164894	Soil	31	33	0.52	129	0.092	<1	1.50	0.011	0.21	0.1	0.03	6.2	0.2	<0.05	5	<0.5	<0.2
ROS 164888	Soil	11	23	0.70	158	0.116	<1	1.73	0.008	0.39	0.1	0.03	6.3	0.3	<0.05	6	<0.5	<0.2
ROS 160883	Soil	14	27	0.50	254	0.072	<1	1.27	0.024	0.06	0.2	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 160882	Soil	14	29	0.54	292	0.081	1	1.46	0.030	0.06	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160886	Soil	15	33	0.42	231	0.077	<1	1.46	0.018	0.06	0.2	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 163073	Soil	16	25	0.47	155	0.116	<1	1.72	0.012	0.12	0.2	0.01	3.2	0.1	<0.05	6	<0.5	<0.2
ROS 163072	Soil	20	23	0.49	162	0.113	<1	1.64	0.014	0.13	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159335	Soil		2.1	75.3	5.7	70	0.3	19.7	9.9	579	4.45	2.8	3.0	2.9	8.3	24	<0.1	0.2	0.2	125	0.30	0.045
ROS 159337	Soil		0.9	88.6	10.2	75	0.3	198.9	28.9	770	3.52	3.6	2.8	3.0	6.2	102	0.1	0.3	0.1	99	0.77	0.131
ROS 152667	Soil		0.8	43.0	12.6	93	0.4	14.3	15.0	695	3.90	4.2	1.0	13.4	6.4	35	0.2	2.3	0.1	82	1.23	0.120
ROS 173122	Soil		0.8	59.3	6.0	63	<0.1	24.9	15.7	539	3.70	4.1	0.9	1.6	4.7	118	<0.1	0.3	<0.1	98	1.60	0.131
ROS 173113	Soil		1.8	62.9	5.3	63	<0.1	8.3	8.2	400	3.97	3.0	4.0	0.9	20.3	47	<0.1	0.2	0.7	47	0.33	0.028
ROS 173112	Soil		0.5	16.6	5.9	49	<0.1	9.7	10.5	465	3.16	3.3	1.0	1.5	12.4	34	<0.1	0.2	0.1	54	0.29	0.023
ROS 152658	Soil		0.8	14.0	12.5	71	0.1	14.9	8.8	322	2.47	5.4	0.7	3.9	6.3	23	0.2	1.4	0.2	55	0.41	0.052
ROS 152659	Soil		1.5	25.1	12.1	72	0.5	17.1	9.1	285	2.62	6.0	1.1	7.0	8.8	23	0.1	2.2	0.1	51	0.60	0.054
ROS 173120	Soil		0.5	37.8	5.0	39	<0.1	27.3	14.4	376	2.45	3.5	0.4	2.6	2.4	132	<0.1	0.2	<0.1	64	1.53	0.037
ROS 173119	Soil		1.1	48.2	8.0	60	<0.1	23.1	10.1	338	2.86	6.8	2.0	5.7	5.5	40	<0.1	0.4	0.1	66	0.58	0.054
ROS 152660	Soil		0.5	18.3	14.4	115	0.3	12.6	9.1	387	3.05	3.9	0.9	4.4	7.5	25	0.2	2.2	0.1	62	0.59	0.088
ROS 173123	Soil		0.8	35.9	4.6	79	<0.1	12.0	14.8	753	3.64	2.9	1.1	2.7	6.9	59	<0.1	0.2	<0.1	85	1.17	0.155
ROS 159336	Soil		0.8	87.1	9.4	68	0.2	186.1	25.8	560	3.70	3.3	2.4	3.0	6.5	99	<0.1	0.2	0.1	105	0.71	0.130
ROS 159338	Soil		0.8	26.1	8.5	61	<0.1	41.0	12.6	529	2.76	3.7	1.6	2.7	7.5	32	0.1	0.3	0.1	65	0.29	0.041
ROS 173108	Soil		1.1	11.7	8.7	62	<0.1	13.1	9.0	567	2.54	4.3	1.2	2.6	8.1	30	<0.1	0.3	0.1	53	0.37	0.030
ROS 173107	Soil		0.8	10.4	7.7	40	0.1	8.4	3.9	172	1.60	3.2	0.6	2.4	2.1	20	<0.1	0.2	0.1	40	0.11	0.027
ROS 152662	Soil		0.8	19.7	11.5	73	0.1	18.3	8.9	247	2.79	6.6	1.0	5.2	15.5	20	<0.1	1.0	0.1	59	0.38	0.047
ROS 152666	Soil		1.1	22.1	17.4	84	0.2	14.9	9.3	504	2.85	4.4	1.0	11.3	8.6	22	0.2	1.4	0.1	49	0.52	0.049
ROS 152657	Soil		0.7	54.3	14.0	101	1.6	31.8	12.4	1182	2.78	4.7	1.4	7.8	6.8	44	1.1	5.1	0.2	48	1.23	0.076
ROS 152656	Soil		0.4	26.6	11.2	58	0.3	20.0	11.4	634	2.67	7.6	1.8	7.1	4.9	36	0.3	1.6	0.2	53	0.85	0.056
ROS 173121	Soil		0.7	30.2	5.7	57	<0.1	18.1	7.4	230	2.57	5.1	1.3	4.8	4.5	40	<0.1	0.3	0.1	58	0.56	0.075
ROS 152653	Soil		0.7	31.2	10.9	68	0.3	19.9	9.8	531	2.54	6.7	1.6	8.5	4.1	40	0.3	1.4	0.2	50	0.92	0.064
ROS 152651	Soil		1.3	26.8	13.5	71	0.7	17.8	9.1	386	2.48	7.5	1.2	15.2	7.2	26	0.1	3.6	0.2	47	0.58	0.059
ROS 152649	Soil		1.1	38.7	45.8	166	0.3	19.8	7.9	469	2.68	6.8	1.1	25.0	7.2	22	0.3	2.8	0.3	45	0.61	0.061
ROS 152533	Soil		0.6	26.7	16.1	61	0.5	17.4	9.5	464	2.44	9.0	0.8	7.6	3.5	23	0.2	2.1	0.2	51	0.63	0.058
ROS 152654	Soil		1.0	19.6	10.8	65	0.3	17.5	10.5	591	2.58	6.7	1.1	5.5	5.7	28	0.2	1.4	0.2	54	0.55	0.061
ROS 152661	Soil		0.9	24.6	13.7	75	0.2	22.4	8.8	306	3.01	7.0	1.6	7.1	11.6	24	0.1	1.7	0.2	62	0.44	0.051
ROS 152534	Soil		0.7	27.7	10.1	51	0.2	20.1	9.1	418	2.56	8.9	0.8	9.4	4.0	26	0.1	1.3	0.1	54	0.67	0.044
ROS 152650	Soil		6.0	30.2	20.3	76	0.8	15.8	8.3	280	2.45	6.1	0.5	40.1	4.3	23	0.3	3.1	0.3	46	0.51	0.053
ROS 152535	Soil		1.2	24.3	11.7	54	0.3	18.2	7.6	239	2.53	7.5	0.6	22.2	4.2	23	0.2	2.6	0.2	50	0.50	0.029

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

WHI10000631.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159335	Soil	19	50	1.75	388	0.222	<1	2.52	0.018	1.26	<0.1	0.02	12.4	0.4	0.07	9	0.8	0.3
ROS 159337	Soil	26	137	3.16	487	0.164	2	2.62	0.015	0.32	0.1	0.04	3.7	0.1	<0.05	8	<0.5	<0.2
ROS 152667	Soil	26	23	0.82	683	0.049	<1	1.59	0.012	0.19	0.2	0.19	11.3	0.1	<0.05	6	<0.5	<0.2
ROS 173122	Soil	11	37	1.08	191	0.151	<1	3.42	0.023	0.24	<0.1	0.06	9.8	<0.1	<0.05	10	<0.5	<0.2
ROS 173113	Soil	46	15	0.63	202	0.145	<1	1.89	0.014	0.46	<0.1	0.04	5.5	0.3	<0.05	6	0.8	0.4
ROS 173112	Soil	34	18	0.76	201	0.177	<1	2.23	0.012	0.52	0.1	<0.01	3.5	0.3	<0.05	7	<0.5	<0.2
ROS 152658	Soil	16	28	0.46	352	0.054	<1	1.69	0.013	0.06	0.2	0.06	3.3	<0.1	<0.05	6	<0.5	<0.2
ROS 152659	Soil	24	28	0.40	620	0.047	2	1.56	0.013	0.10	0.1	0.12	5.1	<0.1	<0.05	5	<0.5	<0.2
ROS 173120	Soil	6	62	1.05	146	0.124	<1	3.15	0.024	0.19	<0.1	0.03	7.4	<0.1	<0.05	8	<0.5	<0.2
ROS 173119	Soil	17	38	0.60	196	0.110	<1	1.79	0.020	0.09	<0.1	0.05	6.1	<0.1	<0.05	6	<0.5	<0.2
ROS 152660	Soil	22	21	0.64	682	0.046	1	1.80	0.013	0.16	0.1	0.10	4.7	0.1	<0.05	8	<0.5	<0.2
ROS 173123	Soil	27	19	1.20	168	0.087	<1	2.27	0.010	0.39	<0.1	0.04	5.9	<0.1	<0.05	9	<0.5	<0.2
ROS 159336	Soil	23	162	2.92	483	0.180	2	2.43	0.018	0.42	0.1	0.04	3.8	0.1	0.05	8	<0.5	<0.2
ROS 159338	Soil	22	55	0.93	212	0.134	<1	1.84	0.012	0.32	0.1	0.03	3.7	0.2	<0.05	7	<0.5	<0.2
ROS 173108	Soil	16	23	0.77	120	0.133	<1	2.14	0.011	0.24	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
ROS 173107	Soil	10	16	0.31	107	0.094	<1	1.25	0.010	0.11	0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
ROS 152662	Soil	40	28	0.42	419	0.038	<1	1.59	0.011	0.05	0.2	0.06	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 152666	Soil	27	25	0.39	623	0.035	<1	1.37	0.008	0.12	0.2	0.09	4.2	<0.1	<0.05	5	<0.5	<0.2
ROS 152657	Soil	70	26	0.41	1154	0.026	4	1.71	0.016	0.09	0.2	0.37	7.2	<0.1	<0.05	6	0.7	<0.2
ROS 152656	Soil	20	27	0.41	579	0.058	2	1.62	0.016	0.06	0.2	0.10	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 173121	Soil	16	29	0.59	190	0.109	1	1.64	0.024	0.08	0.1	0.05	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 152653	Soil	20	27	0.46	737	0.053	3	1.62	0.018	0.06	0.5	0.15	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 152651	Soil	22	29	0.44	688	0.045	3	1.50	0.017	0.09	0.6	0.13	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 152649	Soil	26	30	0.53	430	0.025	<1	1.54	0.012	0.10	0.9	0.30	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 152533	Soil	14	27	0.41	518	0.034	1	1.50	0.017	0.07	0.4	0.13	4.7	<0.1	<0.05	5	<0.5	<0.2
ROS 152654	Soil	16	32	0.45	417	0.061	2	1.50	0.015	0.11	0.3	0.10	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 152661	Soil	73	38	0.58	443	0.067	<1	1.85	0.015	0.06	0.2	0.17	6.3	0.1	<0.05	7	<0.5	<0.2
ROS 152534	Soil	15	29	0.45	553	0.046	1	1.70	0.017	0.06	0.4	0.08	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 152650	Soil	14	26	0.43	365	0.040	2	1.46	0.016	0.09	0.6	0.14	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 152535	Soil	12	30	0.40	537	0.037	2	1.65	0.012	0.08	0.8	0.08	3.6	<0.1	<0.05	5	<0.5	<0.2

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.



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Project: ROS
 Report Date: November 22, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 152532	Soil	0.8	42.2	16.5	82	0.8	18.0	7.6	389	2.70	10.9	0.8	14.9	4.2	23	0.2	7.6	0.2	44	0.75	0.044
ROS 152678	Soil	1.2	27.6	13.1	94	0.1	19.2	8.8	458	3.25	6.9	0.9	7.2	13.8	17	0.1	1.9	0.2	57	0.39	0.057
ROS 152663	Soil	0.8	17.8	8.9	76	0.1	19.5	9.5	410	2.68	5.7	0.9	4.9	5.5	30	<0.1	1.0	0.1	57	0.63	0.065
ROS 152668	Soil	0.6	29.5	10.0	106	0.2	11.8	15.5	882	4.23	5.0	1.2	2.9	4.3	47	0.2	1.9	<0.1	97	1.71	0.155
ROS 162636	Soil	0.8	22.9	6.6	66	<0.1	17.1	10.5	493	3.39	5.6	1.5	1.4	11.1	32	<0.1	0.4	0.1	64	0.27	0.027
ROS 159690	Soil	1.3	21.6	6.2	52	<0.1	10.9	7.0	316	3.01	5.7	0.8	1.5	5.3	22	<0.1	0.3	0.2	59	0.18	0.027
ROS 161171	Soil	0.7	27.0	6.2	50	0.2	10.0	4.5	194	1.92	2.7	2.3	3.4	4.6	35	0.2	0.2	0.2	32	0.32	0.057
ROS 162639	Soil	0.7	26.2	6.5	53	<0.1	17.9	8.8	431	2.78	5.1	1.1	3.2	7.8	31	<0.1	0.4	0.1	57	0.38	0.037
ROS 162655	Soil	0.8	30.4	6.9	70	0.1	25.5	10.1	537	2.42	8.4	0.9	4.5	3.0	48	0.4	0.6	0.1	52	0.89	0.074
ROS 162638	Soil	0.8	30.2	7.2	63	<0.1	20.7	11.2	595	3.42	6.4	0.9	3.3	8.0	36	<0.1	0.4	0.1	71	0.47	0.039
ROS 162653	Soil	1.1	16.1	6.4	55	<0.1	15.4	7.5	248	2.54	7.7	0.8	83.1	4.0	29	0.1	0.4	0.1	54	0.34	0.058
ROS 162648	Soil	0.8	30.0	6.0	59	0.1	13.7	7.2	250	2.41	5.3	1.9	<0.5	6.5	29	0.1	0.3	0.1	49	0.33	0.056
ROS 152586	Soil	0.6	29.7	9.0	47	0.5	18.0	7.9	356	2.22	6.8	1.6	2.7	3.2	38	0.2	1.3	0.1	44	1.35	0.061
ROS 152588	Soil	2.0	27.3	8.7	43	0.6	18.2	8.5	444	2.09	6.7	1.6	9.1	5.3	40	0.1	1.5	0.1	43	1.43	0.047
ROS 160880	Soil	0.9	29.5	7.7	52	<0.1	23.5	9.1	375	2.57	7.0	1.2	4.0	4.3	37	0.1	1.9	0.1	54	0.60	0.051
ROS 152652	Soil	0.7	34.6	12.8	70	0.4	22.5	10.0	617	2.46	7.2	1.6	8.2	5.1	37	0.7	1.8	0.2	50	0.82	0.066
ROS 163473	Soil	1.1	26.6	7.3	64	<0.1	22.2	9.6	396	2.87	12.4	1.0	2.9	6.1	31	0.1	0.7	0.1	54	0.49	0.064
ROS 163472	Soil	0.7	16.0	8.9	51	<0.1	13.8	8.3	412	2.31	6.1	0.8	2.1	5.7	23	0.1	0.3	0.1	45	0.38	0.062
ROS 163481	Soil	1.4	21.5	7.8	55	<0.1	19.1	9.2	429	2.57	4.5	0.9	1.7	7.7	28	<0.1	0.5	0.2	52	0.36	0.037
ROS 173109	Soil	1.1	16.3	9.3	57	<0.1	15.1	8.3	326	2.84	6.9	1.4	3.2	7.7	21	<0.1	0.4	0.2	64	0.20	0.024



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 152532	Soil	28	24	0.32	860	0.014	2	1.54	0.011	0.07	0.4	0.27	4.8	<0.1	<0.05	5	<0.5	<0.2
ROS 152678	Soil	38	29	0.34	375	0.032	1	1.27	0.009	0.07	0.5	0.08	6.7	<0.1	<0.05	5	<0.5	<0.2
ROS 152663	Soil	14	32	0.63	409	0.079	1	1.67	0.015	0.13	0.2	0.05	3.6	0.1	<0.05	7	<0.5	<0.2
ROS 152668	Soil	16	21	1.03	516	0.082	2	1.75	0.025	0.18	0.1	0.13	10.6	<0.1	<0.05	7	<0.5	<0.2
ROS 162636	Soil	33	27	0.78	199	0.168	<1	2.25	0.016	0.37	0.1	0.03	4.7	0.2	<0.05	7	<0.5	<0.2
ROS 159690	Soil	16	20	0.61	183	0.138	<1	1.78	0.013	0.27	0.1	0.02	2.8	0.2	<0.05	7	<0.5	<0.2
ROS 161171	Soil	29	16	0.42	158	0.085	<1	1.69	0.012	0.19	<0.1	0.09	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 162639	Soil	24	28	0.68	219	0.148	<1	1.77	0.021	0.26	0.1	0.03	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 162655	Soil	13	29	0.59	301	0.077	2	1.38	0.028	0.08	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 162638	Soil	25	29	0.90	282	0.171	<1	2.17	0.027	0.33	0.1	0.03	5.2	0.2	<0.05	7	<0.5	<0.2
ROS 162653	Soil	15	25	0.49	178	0.094	1	1.50	0.015	0.08	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 162648	Soil	24	24	0.57	187	0.109	<1	1.68	0.015	0.16	0.1	0.07	4.1	0.1	<0.05	6	<0.5	<0.2
ROS 152586	Soil	16	26	0.41	412	0.053	2	1.57	0.019	0.05	0.1	0.09	3.9	<0.1	<0.05	4	<0.5	<0.2
ROS 152588	Soil	19	25	0.37	370	0.067	3	1.43	0.020	0.05	0.2	0.10	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 160880	Soil	17	31	0.49	332	0.085	<1	1.60	0.026	0.06	0.2	0.05	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 152652	Soil	22	27	0.44	723	0.052	2	1.62	0.018	0.07	0.5	0.10	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163473	Soil	17	31	0.51	277	0.090	1	1.40	0.027	0.12	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 163472	Soil	15	24	0.38	189	0.071	1	1.18	0.021	0.12	0.3	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 163481	Soil	22	33	0.45	225	0.099	<1	1.64	0.020	0.23	0.1	0.03	5.1	0.2	<0.05	5	<0.5	<0.2
ROS 173109	Soil	23	27	0.49	169	0.091	1	2.28	0.012	0.08	0.2	0.02	3.1	0.1	<0.05	8	<0.5	<0.2



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 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000631.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
MDL			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	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																							
ROS 159998	Soil		0.8	26.6	5.3	72	0.1	10.8	12.9	1054	3.35	2.5	1.5	1.0	1.3	63	0.2	0.5	<0.1	63	1.53	0.081	
REP ROS 159998	QC		0.8	26.6	5.5	74	0.1	11.5	13.2	1077	3.47	2.9	1.5	<0.5	1.4	66	0.2	0.5	<0.1	63	1.55	0.086	
ROS 151388	Soil		0.9	40.7	16.6	91	0.7	19.9	11.3	526	3.02	7.8	1.8	9.4	5.5	39	0.3	3.6	0.1	61	1.05	0.091	
REP ROS 151388	QC		1.0	40.4	16.5	95	0.7	20.6	11.5	529	3.06	8.0	1.8	9.1	5.5	39	0.3	3.6	0.1	62	1.07	0.088	
ROS 164882	Soil		0.6	19.6	5.9	49	<0.1	12.8	7.8	308	2.32	5.0	1.4	0.5	6.3	35	<0.1	0.4	0.1	45	0.45	0.060	
REP ROS 164882	QC		0.6	19.4	6.0	52	0.1	13.1	7.4	307	2.36	4.9	1.5	2.0	6.7	34	<0.1	0.4	0.1	47	0.46	0.065	
ROS 160567	Soil		0.9	22.4	6.3	50	<0.1	16.3	8.1	279	2.38	6.8	0.7	2.6	1.7	34	0.2	0.4	0.1	64	0.58	0.072	
REP ROS 160567	QC		0.8	21.5	6.1	50	<0.1	15.6	8.3	275	2.27	7.0	0.6	4.8	1.9	32	0.1	0.3	0.1	62	0.54	0.080	
ROS 163488	Soil		0.8	13.0	7.4	76	<0.1	14.0	10.1	2082	2.31	4.0	0.6	0.6	3.4	31	0.3	0.3	0.1	45	0.41	0.047	
REP ROS 163488	QC		0.9	13.2	7.3	76	<0.1	14.7	10.2	2095	2.34	4.1	0.6	2.4	3.3	32	0.3	0.3	0.1	46	0.41	0.048	
ROS 173106	Soil		0.8	12.3	7.4	65	<0.1	13.6	8.3	418	2.68	4.7	1.6	4.6	8.2	25	<0.1	0.2	0.1	56	0.29	0.036	
REP ROS 173106	QC		0.7	12.2	6.9	63	<0.1	12.9	8.0	416	2.70	4.9	1.6	2.5	8.1	24	<0.1	0.2	0.1	56	0.29	0.037	
ROS 163210	Soil		1.0	80.9	5.3	143	<0.1	12.4	14.3	507	3.56	2.6	0.9	2.0	3.2	30	<0.1	0.1	<0.1	87	0.38	0.049	
REP ROS 163210	QC		0.9	78.4	5.4	141	<0.1	12.6	14.3	502	3.54	2.3	0.9	2.8	3.5	28	0.1	0.1	<0.1	87	0.37	0.048	
ROS 160904	Soil		0.8	12.4	7.4	60	<0.1	12.4	10.5	471	3.36	6.5	1.1	1.5	7.2	22	<0.1	0.3	0.1	58	0.14	0.026	
REP ROS 160904	QC		0.8	12.1	7.3	56	<0.1	11.9	10.6	468	3.39	6.5	1.1	0.7	7.4	23	<0.1	0.3	0.1	58	0.15	0.025	
ROS 162879	Soil		2.6	8.5	6.7	43	<0.1	5.9	3.6	540	1.83	2.0	0.5	1.3	3.2	14	<0.1	0.2	0.1	28	0.18	0.021	
REP ROS 162879	QC		2.5	7.8	6.7	42	<0.1	5.5	3.5	533	1.79	2.0	0.5	1.4	3.2	13	<0.1	0.2	0.1	27	0.18	0.021	
ROS 152583	Soil		0.6	24.7	8.6	43	0.1	18.5	9.4	305	2.29	7.4	0.9	1.7	4.3	29	<0.1	0.5	0.2	50	0.51	0.040	
REP ROS 152583	QC		0.5	24.1	8.9	42	<0.1	17.9	9.2	305	2.27	7.2	0.9	5.3	4.4	29	0.1	0.5	0.1	51	0.51	0.040	
ROS 159997	Soil		0.6	29.0	5.8	81	<0.1	12.5	14.1	770	3.92	5.3	0.9	1.7	2.0	41	0.2	0.6	<0.1	90	0.97	0.090	
REP ROS 159997	QC		0.6	29.1	5.9	78	<0.1	12.4	14.0	745	3.82	5.3	0.9	1.9	1.9	40	0.2	0.6	<0.1	84	0.95	0.083	
ROS 162649	Soil		0.8	23.0	6.8	59	0.1	14.2	6.6	201	2.48	6.4	1.6	4.1	5.9	30	<0.1	0.3	0.2	49	0.29	0.047	
REP ROS 162649	QC		0.9	25.3	6.6	57	0.1	14.2	7.0	206	2.60	6.6	1.7	2.3	6.0	31	<0.1	0.3	0.2	51	0.29	0.045	
ROS 162813	Soil		1.2	38.8	8.4	72	0.1	15.4	8.5	439	2.21	3.4	2.3	2.5	7.9	36	0.1	0.3	0.2	44	0.56	0.051	
REP ROS 162813	QC		1.3	38.4	8.6	70	0.1	15.6	8.4	439	2.18	3.7	2.5	2.4	8.7	37	0.2	0.4	0.2	43	0.55	0.053	
ROS 162810	Soil		0.9	12.9	7.7	54	<0.1	17.0	8.2	364	2.66	6.1	0.6	2.5	5.1	18	<0.1	0.3	0.1	58	0.23	0.020	
REP ROS 162810	QC		0.8	13.5	8.0	58	<0.1	16.9	8.4	364	2.63	6.2	0.7	1.1	5.4	19	<0.1	0.3	0.1	59	0.23	0.021	

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Project: ROS
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000631.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 159998	Soil	11	12	0.50	471	0.023	2	1.16	0.010	0.13	<0.1	0.04	8.0	<0.1	<0.05	4	<0.5	<0.2
REP ROS 159998	QC	11	13	0.52	502	0.023	3	1.18	0.011	0.13	<0.1	0.06	8.4	<0.1	<0.05	4	<0.5	<0.2
ROS 151388	Soil	36	32	0.60	844	0.033	3	1.69	0.015	0.09	0.1	0.25	6.6	<0.1	<0.05	6	0.5	<0.2
REP ROS 151388	QC	36	31	0.60	850	0.034	3	1.70	0.015	0.09	0.1	0.23	6.7	<0.1	<0.05	6	0.7	<0.2
ROS 164882	Soil	26	21	0.52	188	0.092	2	1.55	0.022	0.17	0.2	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
REP ROS 164882	QC	27	21	0.50	187	0.094	<1	1.50	0.021	0.17	0.2	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 160567	Soil	11	26	0.53	226	0.067	2	1.48	0.026	0.05	0.3	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
REP ROS 160567	QC	11	25	0.50	223	0.063	1	1.37	0.023	0.05	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 163488	Soil	11	19	0.35	334	0.056	1	1.48	0.011	0.14	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
REP ROS 163488	QC	10	19	0.36	334	0.058	1	1.54	0.012	0.13	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
ROS 173106	Soil	26	21	0.67	133	0.130	1	2.17	0.012	0.21	0.1	0.02	3.0	0.2	<0.05	7	<0.5	<0.2
REP ROS 173106	QC	26	21	0.67	131	0.130	<1	2.12	0.011	0.21	0.1	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 163210	Soil	10	36	1.54	215	0.211	<1	2.24	0.015	1.03	0.1	0.02	2.3	0.4	<0.05	6	<0.5	<0.2
REP ROS 163210	QC	9	34	1.55	211	0.205	<1	2.17	0.015	1.02	<0.1	0.01	2.2	0.4	<0.05	7	<0.5	<0.2
ROS 160904	Soil	15	18	0.69	184	0.161	<1	2.29	0.008	0.57	0.2	0.01	2.9	0.3	<0.05	8	<0.5	<0.2
REP ROS 160904	QC	16	19	0.69	190	0.165	<1	2.31	0.009	0.57	0.1	<0.01	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 162879	Soil	9	11	0.29	136	0.020	1	1.16	0.006	0.10	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
REP ROS 162879	QC	9	10	0.28	132	0.019	<1	1.15	0.006	0.10	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
ROS 152583	Soil	14	25	0.41	269	0.056	<1	1.37	0.016	0.04	0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
REP ROS 152583	QC	14	25	0.40	270	0.059	<1	1.42	0.017	0.05	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159997	Soil	11	17	0.51	355	0.034	3	1.41	0.014	0.10	0.1	0.06	8.4	<0.1	<0.05	5	0.7	<0.2
REP ROS 159997	QC	11	17	0.50	346	0.034	3	1.32	0.013	0.09	0.1	0.05	8.0	<0.1	<0.05	5	0.6	<0.2
ROS 162649	Soil	20	22	0.55	192	0.090	1	1.97	0.011	0.15	0.1	0.05	2.9	0.1	<0.05	6	<0.5	<0.2
REP ROS 162649	QC	20	22	0.59	195	0.094	1	2.07	0.011	0.16	<0.1	0.06	3.1	0.1	<0.05	6	0.6	<0.2
ROS 162813	Soil	29	22	0.57	212	0.059	2	1.35	0.015	0.16	0.1	0.05	3.5	0.1	<0.05	5	0.5	<0.2
REP ROS 162813	QC	30	23	0.58	217	0.061	2	1.41	0.018	0.17	<0.1	0.04	3.5	0.1	<0.05	5	0.7	<0.2
ROS 162810	Soil	16	26	0.47	228	0.070	1	1.85	0.008	0.08	0.1	0.02	2.6	0.1	<0.05	6	<0.5	<0.2
REP ROS 162810	QC	16	26	0.48	223	0.071	<1	1.93	0.009	0.08	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000631.1

		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 U ppm	1DX15 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164891	Soil	1.2	26.5	18.6	91	<0.1	16.9	14.6	787	4.32	4.3	3.4	3.7	34.0	33	<0.1	0.3	0.2	51	0.97	0.055
REP ROS 164891	QC	1.1	26.2	18.7	91	<0.1	17.0	14.2	781	4.35	4.0	3.6	3.4	34.6	32	<0.1	0.3	0.2	53	0.94	0.054
ROS 173107	Soil	0.8	10.4	7.7	40	0.1	8.4	3.9	172	1.60	3.2	0.6	2.4	2.1	20	<0.1	0.2	0.1	40	0.11	0.027
REP ROS 173107	QC	0.8	10.3	7.8	40	0.1	8.3	3.9	172	1.61	3.1	0.7	2.7	2.0	20	<0.1	0.2	0.1	40	0.10	0.026
ROS 152656	Soil	0.4	26.6	11.2	58	0.3	20.0	11.4	634	2.67	7.6	1.8	7.1	4.9	36	0.3	1.6	0.2	53	0.85	0.056
REP ROS 152656	QC	0.3	25.8	11.3	57	0.4	18.9	10.9	613	2.57	6.9	1.8	6.8	4.8	35	0.2	1.5	0.2	50	0.80	0.052
ROS 162636	Soil	0.8	22.9	6.6	66	<0.1	17.1	10.5	493	3.39	5.6	1.5	1.4	11.1	32	<0.1	0.4	0.1	64	0.27	0.027
REP ROS 162636	QC	0.9	22.0	6.3	62	<0.1	16.1	10.5	481	3.31	5.4	1.4	2.1	10.7	30	<0.1	0.4	0.1	61	0.26	0.025
Reference Materials																					
STD DS7	Standard	21.0	115.6	60.8	394	1.0	57.3	9.3	658	2.50	53.3	4.3	72.0	4.3	73	6.5	5.9	4.2	87	1.00	0.082
STD DS7	Standard	18.9	106.2	59.7	368	0.9	50.6	8.7	593	2.22	50.1	4.2	63.4	4.3	74	6.0	5.9	4.2	75	0.91	0.075
STD DS7	Standard	19.1	103.4	63.9	372	1.0	54.9	9.7	607	2.32	51.4	4.9	72.2	4.9	66	6.0	5.7	4.4	88	0.86	0.074
STD DS7	Standard	19.6	105.4	64.0	374	0.9	52.3	9.2	638	2.38	49.7	4.7	61.5	4.6	76	5.6	5.7	4.5	82	0.93	0.071
STD DS7	Standard	20.2	106.8	67.7	380	1.0	55.3	9.1	586	2.26	47.1	4.7	70.1	4.5	67	5.9	5.3	4.4	81	0.88	0.069
STD DS7	Standard	20.3	111.4	67.1	378	0.9	54.1	9.0	591	2.28	47.2	4.7	70.0	4.5	66	5.8	5.0	4.3	83	0.89	0.071
STD DS7	Standard	23.0	113.0	68.2	401	1.0	58.6	9.4	632	2.47	48.6	4.8	65.9	4.7	67	6.2	5.6	4.4	87	0.93	0.073
STD DS7	Standard	21.9	111.4	67.1	396	1.0	57.8	9.6	641	2.39	51.9	4.7	63.6	4.4	68	6.2	5.8	4.3	85	0.94	0.077
STD DS7	Standard	21.9	108.5	67.5	401	1.0	53.1	9.3	658	2.44	53.7	4.5	80.0	4.4	78	5.7	6.1	4.3	82	1.01	0.079
STD DS7	Standard	19.3	94.8	62.0	365	1.0	52.1	8.7	578	2.25	48.7	4.6	73.9	4.4	70	5.8	5.7	4.3	82	0.85	0.077
STD DS7	Standard	20.3	101.6	65.5	380	0.9	50.4	9.0	614	2.35	50.2	4.4	62.3	4.7	73	5.6	5.9	4.5	83	0.93	0.074
STD DS8	Standard	12.5	106.6	119.4	300	1.6	37.9	7.3	626	2.44	25.5	2.8	99.3	7.0	66	2.0	5.4	6.7	43	0.68	0.085
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	50	4.9	70	4.4	72	6.4	4.6	4.5	84	0.93	0.08
STD DS8 Expected		12.87	113	126	313	1710	40.6	7.9	622	2.54	27.73	2.89	151	7.91	70.74	2.35	4.89	6.67	41	0.76	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: ROS
Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000631.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 164891	Soil	98	17	0.81	136	0.166	<1	1.92	0.010	0.69	0.1	0.03	8.1	0.8	<0.05	8	<0.5	<0.2
REP ROS 164891	QC	99	18	0.81	138	0.160	<1	1.91	0.009	0.67	0.2	0.03	8.1	0.8	<0.05	8	<0.5	<0.2
ROS 173107	Soil	10	16	0.31	107	0.094	<1	1.25	0.010	0.11	0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
REP ROS 173107	QC	10	16	0.32	107	0.099	<1	1.27	0.011	0.11	0.2	0.03	2.2	0.1	<0.05	7	<0.5	<0.2
ROS 152656	Soil	20	27	0.41	579	0.058	2	1.62	0.016	0.06	0.2	0.10	4.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 152656	QC	19	25	0.40	562	0.049	<1	1.51	0.015	0.05	0.2	0.10	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 162636	Soil	33	27	0.78	199	0.168	<1	2.25	0.016	0.37	0.1	0.03	4.7	0.2	<0.05	7	<0.5	<0.2
REP ROS 162636	QC	32	26	0.79	192	0.162	1	2.25	0.017	0.37	0.2	0.03	4.6	0.2	<0.05	7	<0.5	<0.2
Reference Materials																		
STD DS7	Standard	13	202	1.09	428	0.133	44	1.09	0.106	0.51	4.0	0.24	2.8	4.5	0.21	6	3.9	1.0
STD DS7	Standard	13	178	0.99	389	0.109	35	0.99	0.091	0.44	3.7	0.18	1.9	3.6	0.14	5	3.0	1.4
STD DS7	Standard	13	206	1.01	410	0.113	32	0.97	0.087	0.45	3.5	0.21	2.4	4.0	0.17	4	3.3	1.9
STD DS7	Standard	14	193	1.02	381	0.124	39	1.00	0.094	0.45	3.5	0.22	2.7	3.7	0.16	5	2.3	1.1
STD DS7	Standard	13	193	0.97	372	0.116	35	0.95	0.085	0.46	3.6	0.21	2.4	4.4	0.16	5	3.5	1.1
STD DS7	Standard	12	197	1.01	374	0.114	35	0.99	0.093	0.45	3.4	0.19	2.4	4.0	0.16	5	3.2	0.7
STD DS7	Standard	12	199	1.07	377	0.117	36	0.99	0.094	0.47	3.7	0.21	2.6	4.1	0.15	5	2.9	1.7
STD DS7	Standard	12	198	1.07	395	0.123	40	1.04	0.101	0.48	3.7	0.20	2.2	4.0	0.21	5	3.2	1.8
STD DS7	Standard	15	202	1.14	396	0.125	40	1.11	0.108	0.49	3.7	0.21	2.9	4.0	0.20	5	3.2	0.7
STD DS7	Standard	13	183	0.99	395	0.116	36	0.98	0.091	0.45	3.5	0.21	2.3	3.9	0.17	5	2.7	1.2
STD DS7	Standard	13	187	1.01	395	0.116	38	1.04	0.097	0.43	3.6	0.20	2.3	3.8	0.18	5	3.2	1.0
STD DS8	Standard	16	113	0.63	280	0.120	1	0.94	0.091	0.41	3.1	0.19	2.2	5.2	0.17	5	5.0	4.5
STD DS7 Expected		13	192	1.05	410	0.124	39	1.0195	0.089	0.44	3.4	0.21	2.5	4.2	0.19	5	3.5	1.18
STD DS8 Expected		17.2	117.9	0.62	279	0.13	12	0.96	0.09	0.4	3.18	0.192	2.77	5.58	0.17	5	5.9	5.15
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: ROS

Report Date: November 22, 2010

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QUALITY CONTROL REPORT

WHI10000631.1

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



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Project: ROS

Report Date: November 22, 2010

Page: 3 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI10000631.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 26, 2010
Report Date: November 15, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI10000632.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS5
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

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

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

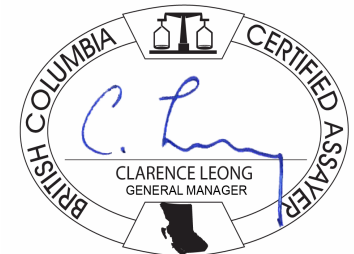
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	320	Dry at 60C			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. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: ROS
 Report Date: November 15, 2010

Page: 2 of 12 Part 1

CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	0.001
ROS 159471	Soil	0.8	14.2	5.4	82	<0.1	9.9	9.6	461	2.87	4.9	1.3	<0.5	6.9	21	<0.1	0.2	0.2	50	0.44	0.049
ROS 159475	Soil	0.9	49.4	19.0	113	<0.1	48.7	24.4	1039	4.36	11.8	1.0	2.0	10.0	25	0.1	0.4	0.2	84	0.61	0.060
ROS 161022	Soil	1.0	25.2	6.5	44	0.1	17.6	7.8	523	2.10	5.3	3.3	1.1	2.1	87	0.2	0.5	0.2	39	1.66	0.044
ROS 161017	Soil	0.9	18.8	7.1	63	0.1	15.9	10.4	818	2.42	5.5	0.7	2.0	2.1	23	0.2	0.4	0.2	56	0.38	0.062
ROS 164745	Soil	0.7	40.9	8.9	107	<0.1	15.4	18.9	977	4.95	2.5	1.5	0.9	11.7	21	<0.1	0.3	0.2	96	0.55	0.125
ROS 159474	Soil	0.8	31.0	12.2	103	<0.1	21.5	14.7	777	4.03	4.2	1.0	1.1	9.9	19	<0.1	0.3	0.2	76	0.41	0.059
ROS 161018	Soil	1.7	20.0	8.0	71	<0.1	15.4	9.6	492	2.66	5.5	0.7	1.5	2.9	20	0.2	0.7	0.2	53	0.28	0.054
ROS 161019	Soil	1.0	26.6	6.9	74	0.1	17.7	12.0	758	3.10	5.4	0.8	1.9	2.9	26	0.2	0.5	0.1	64	0.46	0.049
ROS 159472	Soil	0.7	23.2	7.6	69	0.1	17.0	10.0	722	2.63	4.1	4.1	2.2	8.9	26	0.1	0.3	0.2	48	0.59	0.068
ROS 164746	Soil	1.6	35.0	8.3	91	<0.1	12.3	11.1	449	4.69	5.9	2.5	1.0	10.3	53	<0.1	0.3	0.2	66	0.40	0.074
ROS 160846	Soil	1.1	49.7	14.2	102	<0.1	34.7	16.7	681	3.87	6.8	1.3	2.4	13.2	20	0.1	0.4	0.2	64	0.38	0.056
ROS 161020	Soil	0.8	23.3	6.2	87	<0.1	14.5	12.3	811	3.70	4.0	0.9	0.7	4.7	20	0.2	0.4	0.1	70	0.44	0.086
ROS 160849	Soil	0.7	27.4	8.8	54	<0.1	22.7	10.2	407	2.52	8.6	1.6	2.3	4.5	32	<0.1	0.5	0.2	57	0.53	0.058
ROS 159501	Soil	0.7	14.5	6.6	50	<0.1	11.6	8.8	528	2.11	5.8	1.4	5.3	5.9	25	0.1	0.4	0.2	44	0.42	0.060
ROS 159473	Soil	0.8	37.0	8.8	101	<0.1	19.6	9.4	656	3.13	6.1	1.5	3.5	11.4	17	0.1	0.5	0.3	56	0.23	0.024
ROS 161021	Soil	0.7	23.2	6.1	67	0.1	16.8	10.9	499	2.89	4.7	0.7	2.2	2.0	34	0.1	0.5	0.1	70	0.82	0.059
ROS 160963	Soil	0.6	17.1	6.4	58	<0.1	17.3	9.3	528	3.10	5.9	1.0	<0.5	10.7	16	<0.1	0.4	0.1	58	0.19	0.027
ROS 160964	Soil	0.5	20.8	4.8	89	<0.1	11.0	11.5	867	4.09	3.6	2.0	<0.5	19.7	39	<0.1	0.2	<0.1	73	0.29	0.048
ROS 162662	Soil	0.7	8.6	4.7	91	<0.1	7.7	7.8	518	3.32	3.5	1.3	<0.5	8.2	13	<0.1	0.2	<0.1	48	0.19	0.023
ROS 162661	Soil	0.9	11.5	10.9	86	<0.1	10.9	14.4	605	5.11	7.2	2.9	1.1	17.2	12	<0.1	0.5	0.2	72	0.19	0.034
ROS 160962	Soil	0.5	16.6	6.9	80	0.2	14.3	10.7	888	3.48	3.8	1.0	<0.5	12.5	35	<0.1	0.2	0.1	63	0.46	0.070
ROS 160965	Soil	0.5	18.4	4.3	72	<0.1	12.9	10.5	731	3.72	4.3	1.3	<0.5	13.9	20	<0.1	0.2	<0.1	64	0.24	0.037
ROS 162658	Soil	0.9	65.3	12.2	130	<0.1	26.1	19.8	1740	5.30	2.5	2.2	<0.5	13.9	19	0.2	0.2	0.2	83	0.42	0.079
ROS 162664	Soil	0.8	27.2	8.5	88	<0.1	16.9	10.4	622	3.10	5.0	1.1	14.9	9.4	18	<0.1	0.4	0.5	60	0.32	0.051
ROS 160928	Soil	1.0	34.8	5.5	106	<0.1	34.5	16.8	1121	4.51	4.2	2.3	<0.5	11.8	21	<0.1	0.2	0.1	91	0.26	0.055
ROS 160929	Soil	2.3	161.0	4.4	81	0.1	9.0	9.2	489	5.63	1.4	2.2	<0.5	7.6	131	<0.1	<0.1	0.2	185	0.36	0.049
ROS 162667	Soil	0.7	21.5	8.4	79	<0.1	21.5	12.6	473	3.21	6.0	1.3	1.3	7.4	25	<0.1	0.4	0.2	69	0.55	0.060
ROS 162665	Soil	0.8	27.0	8.7	85	<0.1	17.0	9.8	601	3.05	5.3	1.1	2.8	8.6	18	<0.1	0.4	0.5	59	0.31	0.049
ROS 160968	Soil	0.6	18.7	9.2	76	0.1	6.2	12.4	861	4.13	1.8	2.4	<0.5	21.5	35	<0.1	0.2	0.2	65	0.36	0.065
ROS 160974	Soil	2.5	47.8	9.5	82	<0.1	14.2	6.1	405	2.62	5.6	1.2	0.8	5.2	32	<0.1	0.2	0.2	63	0.24	0.044

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159471	Soil	19	16	0.89	249	0.110	1	1.48	0.015	0.41	0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 159475	Soil	39	82	1.42	400	0.104	2	2.44	0.015	0.47	0.2	0.04	9.5	0.3	<0.05	8	0.6	<0.2
ROS 161022	Soil	18	19	0.48	327	0.045	4	1.12	0.014	0.15	0.1	0.04	3.0	<0.1	0.06	3	0.8	<0.2
ROS 161017	Soil	12	23	0.47	316	0.041	2	1.28	0.013	0.06	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 164745	Soil	48	23	2.53	645	0.159	<1	3.05	0.018	1.08	<0.1	0.03	8.6	0.4	<0.05	11	0.6	<0.2
ROS 159474	Soil	20	24	1.05	291	0.115	<1	1.96	0.012	0.52	0.1	0.02	7.3	0.2	<0.05	7	<0.5	<0.2
ROS 161018	Soil	11	22	0.42	268	0.043	3	1.21	0.011	0.11	0.2	0.06	4.3	<0.1	<0.05	4	<0.5	<0.2
ROS 161019	Soil	13	24	0.54	454	0.045	2	1.44	0.011	0.13	0.1	0.05	7.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159472	Soil	42	28	0.58	523	0.052	2	1.33	0.012	0.24	0.2	0.06	5.6	0.1	<0.05	5	0.6	<0.2
ROS 164746	Soil	33	25	1.37	363	0.123	<1	2.19	0.050	0.66	<0.1	0.03	6.5	0.4	0.29	7	<0.5	<0.2
ROS 160846	Soil	36	38	0.94	266	0.104	1	1.83	0.012	0.49	<0.1	0.03	6.6	0.2	<0.05	7	0.6	<0.2
ROS 161020	Soil	14	21	0.64	317	0.034	3	1.39	0.009	0.21	<0.1	0.05	9.5	0.1	<0.05	5	<0.5	<0.2
ROS 160849	Soil	15	30	0.51	287	0.064	<1	1.39	0.017	0.05	0.2	0.04	3.9	<0.1	<0.05	4	0.7	<0.2
ROS 159501	Soil	24	22	0.36	298	0.052	1	1.21	0.011	0.08	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
ROS 159473	Soil	30	22	0.65	175	0.090	<1	1.37	0.012	0.25	0.1	0.04	6.0	0.2	<0.05	5	0.5	<0.2
ROS 161021	Soil	10	26	0.57	293	0.042	3	1.36	0.012	0.09	0.1	0.05	6.8	<0.1	<0.05	4	<0.5	<0.2
ROS 160963	Soil	23	25	0.69	162	0.128	<1	1.73	0.008	0.66	0.1	0.01	5.8	0.3	<0.05	7	<0.5	<0.2
ROS 160964	Soil	45	12	1.13	152	0.242	<1	2.41	0.012	1.27	0.2	0.02	6.6	0.6	<0.05	10	<0.5	<0.2
ROS 162662	Soil	18	12	1.28	231	0.128	<1	1.92	0.008	0.54	<0.1	<0.01	3.9	0.3	<0.05	7	<0.5	<0.2
ROS 162661	Soil	17	20	0.65	210	0.113	2	1.77	0.008	0.54	<0.1	0.02	7.0	0.3	<0.05	7	0.5	<0.2
ROS 160962	Soil	30	20	0.87	241	0.168	1	2.21	0.010	0.73	0.1	0.02	6.1	0.4	<0.05	8	<0.5	<0.2
ROS 160965	Soil	30	16	1.27	121	0.206	<1	2.36	0.012	1.13	0.1	0.01	6.5	0.6	<0.05	9	<0.5	<0.2
ROS 162658	Soil	30	55	1.34	1012	0.155	2	2.22	0.012	1.00	0.2	0.02	8.9	0.3	<0.05	8	<0.5	<0.2
ROS 162664	Soil	22	24	0.73	363	0.096	1	1.78	0.011	0.29	0.2	0.02	5.0	0.2	<0.05	6	<0.5	<0.2
ROS 160928	Soil	38	39	1.53	244	0.255	<1	2.65	0.014	1.52	<0.1	<0.01	9.4	0.6	<0.05	12	<0.5	<0.2
ROS 160929	Soil	16	35	1.94	289	0.256	<1	3.20	0.022	1.71	<0.1	<0.01	12.2	0.5	0.53	12	1.3	<0.2
ROS 162667	Soil	15	33	0.72	289	0.102	<1	1.66	0.021	0.33	0.2	0.03	5.1	0.2	<0.05	6	<0.5	<0.2
ROS 162665	Soil	20	24	0.72	345	0.097	<1	1.78	0.010	0.28	0.2	0.02	4.9	0.2	<0.05	6	<0.5	<0.2
ROS 160968	Soil	82	8	1.15	95	0.258	<1	2.55	0.011	1.09	0.2	0.01	4.9	0.6	<0.05	10	<0.5	<0.2
ROS 160974	Soil	17	26	0.60	109	0.105	<1	1.55	0.011	0.48	0.1	0.03	2.8	0.2	<0.05	7	0.6	0.4

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 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	
ROS 162666	Soil	0.7	30.1	10.8	81	<0.1	27.0	15.5	755	3.25	7.5	1.4	1.9	6.3	25	0.2	0.4	0.1	70	0.65	0.056
ROS 162663	Soil	1.0	36.3	8.2	112	<0.1	9.5	9.6	577	3.48	3.9	1.2	<0.5	9.1	11	<0.1	0.3	0.4	49	0.18	0.038
ROS 159540	Soil	1.2	48.2	8.3	72	<0.1	18.5	10.6	481	3.20	6.0	1.5	1.6	9.3	38	<0.1	0.4	0.2	72	0.42	0.035
ROS 159536	Soil	1.1	24.0	6.4	53	<0.1	14.6	9.1	327	2.81	6.0	1.4	<0.5	7.7	29	<0.1	0.3	0.2	60	0.32	0.030
ROS 159541	Soil	1.2	32.3	5.9	74	<0.1	10.9	9.1	437	2.74	3.0	2.6	<0.5	10.5	33	<0.1	0.2	0.2	61	0.30	0.027
ROS 160977	Soil	1.5	36.2	7.2	65	0.2	11.7	7.3	257	3.01	5.5	1.1	3.5	1.2	28	0.1	0.3	0.1	51	0.72	0.058
ROS 159530	Soil	0.8	17.3	6.7	73	<0.1	15.6	8.6	514	2.82	4.6	1.4	1.7	11.5	26	<0.1	0.3	0.1	53	0.25	0.027
ROS 159533	Soil	0.3	21.0	4.7	73	<0.1	34.0	12.0	684	3.60	3.5	1.3	<0.5	13.6	45	<0.1	0.2	0.1	62	0.88	0.069
ROS 159545	Soil	1.0	30.2	7.3	57	0.1	17.8	8.1	320	2.73	6.1	2.3	2.4	7.0	34	0.1	0.4	0.2	54	0.42	0.050
ROS 160998	Soil	0.7	18.4	9.0	69	<0.1	9.1	8.9	618	2.77	2.8	1.0	<0.5	8.5	13	<0.1	0.2	1.0	50	0.20	0.025
ROS 159538	Soil	1.2	33.8	5.0	56	<0.1	9.0	7.8	384	2.70	2.9	1.7	3.8	9.7	36	<0.1	0.2	0.3	49	0.34	0.024
ROS 159542	Soil	0.7	23.5	5.8	49	<0.1	11.1	7.1	300	2.31	4.2	1.6	0.9	7.9	28	<0.1	0.3	0.2	50	0.32	0.036
ROS 159543	Soil	1.1	33.1	7.5	52	0.2	16.0	8.0	267	2.84	5.9	2.3	1.1	8.6	29	<0.1	0.4	0.2	53	0.34	0.040
ROS 160966	Soil	0.7	10.1	6.8	49	0.1	16.5	11.3	819	2.56	3.0	0.5	1.8	5.6	26	<0.1	0.2	0.1	50	0.36	0.048
ROS 159532	Soil	0.7	18.7	5.9	54	<0.1	15.7	10.5	448	3.02	5.2	1.4	3.1	10.3	36	<0.1	0.3	0.1	56	0.34	0.035
ROS 159539	Soil	0.8	38.9	7.7	55	<0.1	15.9	8.8	339	2.74	6.3	1.1	1.9	7.9	31	<0.1	0.4	0.6	55	0.36	0.032
ROS 159544	Soil	0.8	21.6	6.0	47	<0.1	12.6	6.2	222	2.28	4.2	1.4	1.3	6.4	28	<0.1	0.3	0.2	48	0.36	0.042
ROS 160988	Soil	0.6	12.5	7.1	77	<0.1	10.3	6.9	685	3.45	4.3	1.8	<0.5	25.8	10	<0.1	0.3	0.1	44	0.11	0.031
ROS 159946	Soil	0.5	26.8	7.6	48	<0.1	22.7	9.2	401	2.29	7.3	1.0	2.3	3.4	37	<0.1	0.5	0.1	49	0.68	0.056
ROS 159949	Soil	1.1	20.3	6.4	70	<0.1	15.5	11.4	1139	3.19	5.9	1.1	1.6	11.2	28	<0.1	0.4	0.1	55	0.50	0.075
ROS 159943	Soil	1.0	22.1	8.6	74	<0.1	15.2	9.7	592	3.09	4.4	1.7	0.9	10.4	20	<0.1	0.4	0.1	56	0.33	0.054
ROS 162845	Soil	1.0	36.2	9.5	60	<0.1	25.7	10.4	442	2.99	8.0	1.1	1.3	7.6	27	<0.1	0.5	0.2	61	0.42	0.057
ROS 159947	Soil	0.7	16.2	6.8	56	<0.1	14.6	8.3	392	2.43	5.9	0.6	3.2	5.7	21	<0.1	0.4	0.1	50	0.37	0.042
ROS 159945	Soil	0.5	30.0	8.6	49	<0.1	21.9	9.2	454	2.50	7.9	1.5	4.2	4.9	30	<0.1	0.5	0.1	53	0.51	0.051
ROS 159942	Soil	0.8	28.1	8.1	61	<0.1	21.7	10.5	383	2.76	6.5	0.7	2.4	5.6	37	<0.1	0.4	0.1	58	0.47	0.048
ROS 162844	Soil	0.8	24.4	8.1	43	<0.1	21.7	8.3	257	2.44	7.9	0.7	1.3	4.2	26	<0.1	0.5	0.1	56	0.40	0.047
ROS 159952	Soil	1.4	18.6	9.0	84	<0.1	13.7	9.8	697	3.49	5.1	1.2	2.0	9.3	27	<0.1	0.3	0.2	62	0.52	0.068
ROS 159941	Soil	0.5	30.0	8.2	52	<0.1	23.0	9.6	451	2.53	8.0	0.9	2.6	4.7	42	0.1	0.6	0.1	56	0.64	0.046
ROS 159950	Soil	1.0	24.4	7.5	57	<0.1	18.3	8.6	464	2.47	6.5	1.4	2.5	6.5	30	<0.1	0.4	0.2	51	0.51	0.054
ROS 163280	Soil	1.0	27.7	12.7	151	<0.1	20.7	11.5	1302	3.38	5.6	1.1	2.1	11.5	20	0.2	0.4	0.2	54	0.43	0.053

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.



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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 162666	Soil	14	48	0.93	387	0.096	<1	1.94	0.017	0.18	0.1	0.03	4.7	<0.1	<0.05	6	0.6	<0.2
ROS 162663	Soil	11	14	0.81	165	0.110	<1	1.71	0.012	0.48	0.1	0.01	3.7	0.3	<0.05	6	<0.5	<0.2
ROS 159540	Soil	26	29	0.78	256	0.149	<1	2.08	0.020	0.48	0.1	0.02	5.1	0.2	<0.05	7	<0.5	<0.2
ROS 159536	Soil	21	23	0.62	155	0.124	<1	1.84	0.011	0.32	0.1	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 159541	Soil	30	18	0.71	175	0.155	<1	1.74	0.022	0.61	<0.1	0.02	3.8	0.3	<0.05	6	<0.5	<0.2
ROS 160977	Soil	14	18	0.43	142	0.013	<1	1.72	0.010	0.04	<0.1	0.03	4.7	<0.1	<0.05	6	0.9	<0.2
ROS 159530	Soil	34	23	0.96	155	0.129	1	2.17	0.013	0.39	0.1	<0.01	3.0	0.3	<0.05	7	<0.5	<0.2
ROS 159533	Soil	25	27	1.20	226	0.200	<1	2.79	0.011	0.69	0.2	0.01	3.8	0.4	<0.05	10	<0.5	<0.2
ROS 159545	Soil	22	27	0.54	263	0.094	1	1.78	0.018	0.13	0.1	0.04	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 160998	Soil	20	16	0.85	233	0.140	1	1.65	0.012	0.62	0.2	0.01	4.5	0.2	<0.05	7	<0.5	<0.2
ROS 159538	Soil	29	17	0.64	146	0.144	<1	1.58	0.013	0.48	<0.1	<0.01	2.6	0.3	<0.05	6	<0.5	<0.2
ROS 159542	Soil	22	20	0.54	182	0.111	1	1.41	0.017	0.23	0.1	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
ROS 159543	Soil	26	25	0.54	216	0.107	1	1.93	0.014	0.17	0.1	0.03	3.8	0.1	<0.05	6	<0.5	<0.2
ROS 160966	Soil	13	24	0.46	262	0.090	1	1.75	0.010	0.29	0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 159532	Soil	25	28	0.78	217	0.143	1	1.89	0.016	0.42	0.2	0.02	3.9	0.3	<0.05	6	<0.5	<0.2
ROS 159539	Soil	22	25	0.60	214	0.121	<1	1.79	0.018	0.25	<0.1	0.02	3.8	0.2	<0.05	6	<0.5	<0.2
ROS 159544	Soil	21	22	0.50	191	0.104	2	1.68	0.015	0.17	0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
ROS 160988	Soil	57	15	0.34	78	0.055	<1	1.60	0.007	0.29	<0.1	0.03	7.1	0.2	<0.05	7	<0.5	<0.2
ROS 159946	Soil	13	26	0.52	290	0.065	2	1.47	0.025	0.06	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 159949	Soil	21	18	0.70	319	0.125	2	1.62	0.017	0.41	0.1	0.02	4.7	0.2	<0.05	5	<0.5	<0.2
ROS 159943	Soil	27	21	0.74	240	0.111	2	1.65	0.013	0.45	<0.1	0.03	5.9	0.2	<0.05	6	<0.5	<0.2
ROS 162845	Soil	21	31	0.58	301	0.099	1	1.74	0.020	0.22	0.2	0.04	5.4	0.1	<0.05	6	<0.5	<0.2
ROS 159947	Soil	11	23	0.48	164	0.088	2	1.40	0.018	0.18	0.1	0.01	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 159945	Soil	18	27	0.59	288	0.085	2	1.35	0.025	0.08	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 159942	Soil	17	28	0.61	266	0.104	1	1.57	0.027	0.22	0.1	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
ROS 162844	Soil	14	32	0.47	257	0.078	1	1.64	0.022	0.06	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159952	Soil	25	21	0.90	302	0.107	1	2.06	0.012	0.35	0.1	0.02	5.4	0.2	<0.05	8	<0.5	<0.2
ROS 159941	Soil	17	28	0.59	341	0.091	2	1.61	0.028	0.09	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159950	Soil	23	25	0.56	249	0.089	2	1.58	0.022	0.15	0.2	0.03	4.4	<0.1	<0.05	5	0.5	<0.2
ROS 163280	Soil	26	18	0.84	354	0.112	2	1.75	0.017	0.46	0.1	0.03	4.7	0.2	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159948	Soil	0.7	37.7	9.7	60	<0.1	28.9	11.7	475	2.71	9.5	0.7	2.0	4.2	51	0.2	0.6	0.2	60	1.07	0.057
ROS 159944	Soil	0.8	31.6	12.7	70	<0.1	23.8	10.7	549	2.79	7.4	1.1	2.8	6.6	27	0.1	0.5	0.2	60	0.42	0.047
ROS 162841	Soil	0.8	16.6	6.0	38	<0.1	11.9	5.0	207	1.78	3.5	1.0	1.0	5.2	22	0.2	0.3	0.1	37	0.32	0.033
ROS 163278	Soil	0.8	19.7	12.9	92	<0.1	13.5	7.7	533	2.87	4.5	0.9	0.8	8.1	18	<0.1	0.3	0.1	51	0.28	0.025
ROS 162659	Soil	1.2	16.2	9.8	92	<0.1	23.9	15.8	859	4.75	4.2	2.1	1.0	10.8	18	<0.1	0.3	0.2	89	0.36	0.058
ROS 159991	Soil	0.8	12.0	11.1	71	0.1	13.0	5.6	416	2.42	4.3	1.2	0.8	3.1	27	0.1	0.5	0.1	41	0.42	0.034
ROS 159990	Soil	1.1	26.3	9.0	91	0.1	13.1	10.3	696	4.08	4.2	1.1	2.7	6.5	39	0.1	0.4	0.1	75	0.58	0.068
ROS 159987	Soil	1.0	18.7	9.0	63	<0.1	16.1	9.7	308	3.15	6.6	0.5	3.1	2.6	20	<0.1	0.3	0.2	86	0.35	0.045
ROS 162660	Soil	0.9	9.3	10.7	82	<0.1	13.6	14.5	1251	4.33	5.6	2.1	<0.5	18.2	15	<0.1	0.3	0.2	64	0.30	0.058
ROS 159992	Soil	0.8	22.0	8.2	67	0.2	15.9	7.1	423	2.40	5.6	1.8	2.5	2.8	37	0.2	0.5	0.1	47	0.66	0.048
ROS 159995	Soil	0.9	20.6	5.9	64	0.1	11.6	7.3	986	2.05	3.6	2.6	1.0	1.9	70	0.4	0.3	0.1	30	1.49	0.064
ROS 159996	Soil	0.5	11.8	6.7	88	<0.1	9.4	7.6	728	2.75	2.3	1.0	1.8	2.4	44	0.2	0.3	0.1	33	0.89	0.056
ROS 162669	Soil	0.6	16.8	6.3	54	0.1	12.5	6.8	340	2.01	2.8	2.1	2.5	4.5	28	<0.1	0.4	0.2	39	0.51	0.058
ROS 159993	Soil	1.7	17.4	7.2	63	0.1	11.1	7.5	705	2.56	1.9	1.8	1.2	9.4	40	0.2	0.2	0.2	38	0.68	0.050
ROS 159994	Soil	0.7	17.0	5.4	70	0.1	9.8	6.2	857	1.79	1.4	2.1	1.0	1.3	91	0.4	0.4	<0.1	30	1.62	0.066
ROS 159989	Soil	1.0	17.6	5.8	67	<0.1	13.3	9.0	447	3.14	4.1	0.5	1.9	3.5	15	<0.1	0.4	0.1	49	0.25	0.034
ROS 159988	Soil	1.0	8.5	5.5	58	0.1	6.1	2.5	282	2.17	2.1	0.5	<0.5	1.7	11	<0.1	0.6	0.1	30	0.12	0.019
ROS 159985	Soil	0.8	20.8	7.2	58	0.1	19.6	10.2	321	2.29	5.8	0.8	3.0	2.7	30	0.2	0.6	0.1	57	0.47	0.067
ROS 159986	Soil	0.7	29.3	6.5	60	0.1	15.3	10.2	397	2.67	3.8	0.6	2.8	2.6	24	0.2	0.4	0.1	68	0.48	0.062
ROS 159951	Soil	0.8	17.9	5.8	59	<0.1	15.0	7.6	468	2.62	3.7	0.8	1.7	7.7	23	0.1	0.4	0.2	45	0.39	0.057
ROS 163286	Soil	0.6	19.2	7.1	54	<0.1	16.6	7.9	305	2.08	5.6	1.0	2.2	4.1	29	<0.1	0.4	0.1	46	0.41	0.046
ROS 163287	Soil	1.0	14.5	9.0	54	<0.1	15.5	7.6	263	2.25	5.7	0.5	2.3	4.7	17	<0.1	0.4	0.2	50	0.21	0.026
ROS 164874	Soil	0.4	9.0	5.5	45	<0.1	9.6	5.5	269	2.14	2.7	0.9	2.1	5.8	25	<0.1	0.2	0.1	48	0.28	0.034
ROS 159360	Soil	0.9	31.4	8.6	57	<0.1	26.2	10.8	401	2.70	7.1	0.7	3.5	6.7	28	<0.1	0.6	0.2	61	0.46	0.041
ROS 163288	Soil	0.7	23.6	7.7	56	<0.1	21.6	9.7	357	2.44	6.9	0.6	3.3	4.8	24	0.1	0.5	0.1	53	0.33	0.050
ROS 163281	Soil	0.9	26.1	9.7	72	<0.1	20.6	10.6	493	2.73	6.2	0.7	3.1	5.5	29	0.1	0.6	0.2	55	0.46	0.039
ROS 164875	Soil	0.7	13.2	5.8	49	<0.1	11.9	7.2	275	2.37	4.0	0.8	13.9	5.9	22	<0.1	0.4	0.1	55	0.20	0.024
ROS 159361	Soil	1.6	12.7	8.0	49	<0.1	16.5	7.2	235	2.47	5.1	0.5	6.7	5.0	17	<0.1	0.4	0.1	57	0.26	0.032
ROS 163285	Soil	0.9	25.2	7.6	47	<0.1	17.2	8.8	498	2.25	5.5	1.9	2.7	4.0	34	<0.1	0.4	0.2	49	0.52	0.046
ROS 163279	Soil	0.6	18.4	34.1	115	<0.1	13.5	9.1	481	2.74	4.4	0.7	<0.5	7.4	19	<0.1	0.4	0.4	51	0.31	0.033

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Client: **Taku Gold Corp**
 680 3rd Ave, Suite 203
 Val D'Or QC J9P 1S5 Canada

Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 159948	Soil	16	31	0.62	317	0.095	2	1.78	0.033	0.08	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 159944	Soil	19	30	0.64	285	0.105	1	1.78	0.027	0.17	0.1	0.03	5.0	0.1	<0.05	5	<0.5	<0.2
ROS 162841	Soil	13	22	0.30	175	0.071	<1	1.50	0.015	0.09	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163278	Soil	14	19	0.70	247	0.104	2	1.65	0.012	0.27	<0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 162659	Soil	20	51	0.90	351	0.081	4	1.80	0.010	0.60	<0.1	0.01	7.0	0.2	<0.05	7	<0.5	<0.2
ROS 159991	Soil	25	21	0.35	1511	0.026	5	1.41	0.011	0.15	<0.1	0.04	7.1	0.1	<0.05	6	<0.5	<0.2
ROS 159990	Soil	25	20	0.64	312	0.065	1	1.64	0.012	0.30	<0.1	0.03	9.4	0.1	<0.05	6	<0.5	<0.2
ROS 159987	Soil	12	27	0.59	195	0.113	2	2.02	0.018	0.07	0.1	0.02	4.0	<0.1	<0.05	7	<0.5	<0.2
ROS 162660	Soil	22	25	0.85	378	0.156	3	1.96	0.015	0.87	0.1	0.01	6.3	0.2	<0.05	8	<0.5	<0.2
ROS 159992	Soil	21	23	0.43	843	0.048	3	1.57	0.017	0.09	<0.1	0.07	5.2	<0.1	<0.05	6	<0.5	<0.2
ROS 159995	Soil	28	14	0.34	565	0.027	3	1.00	0.012	0.11	<0.1	0.10	4.0	<0.1	0.09	3	0.8	<0.2
ROS 159996	Soil	15	13	0.29	409	0.029	3	0.93	0.008	0.12	<0.1	0.08	5.3	<0.1	0.07	4	0.9	<0.2
ROS 162669	Soil	37	19	0.36	396	0.040	1	1.24	0.011	0.08	0.1	0.07	3.9	<0.1	0.05	4	0.9	<0.2
ROS 159993	Soil	28	15	0.49	510	0.033	1	1.29	0.009	0.13	0.1	0.05	5.4	<0.1	<0.05	5	0.6	<0.2
ROS 159994	Soil	18	13	0.35	777	0.021	2	0.87	0.010	0.09	<0.1	0.09	3.7	<0.1	0.09	3	0.9	<0.2
ROS 159989	Soil	11	21	0.67	163	0.106	1	1.77	0.012	0.23	<0.1	0.02	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 159988	Soil	9	12	0.20	186	0.034	1	0.85	0.006	0.12	<0.1	0.03	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 159985	Soil	11	24	0.52	259	0.062	2	1.27	0.016	0.05	0.2	0.04	3.1	<0.1	<0.05	4	0.7	<0.2
ROS 159986	Soil	10	24	0.64	226	0.082	1	1.48	0.014	0.11	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 159951	Soil	17	19	0.73	247	0.100	<1	1.37	0.013	0.38	0.2	0.03	4.0	0.1	<0.05	5	<0.5	0.2
ROS 163286	Soil	13	24	0.43	238	0.062	<1	1.14	0.018	0.06	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 163287	Soil	14	25	0.45	208	0.063	<1	1.52	0.009	0.07	0.1	0.02	2.6	<0.1	<0.05	5	0.5	<0.2
ROS 164874	Soil	17	18	0.55	121	0.105	<1	1.37	0.011	0.24	0.1	0.01	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 159360	Soil	22	32	0.61	210	0.089	<1	1.34	0.021	0.10	0.2	0.05	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 163288	Soil	15	30	0.53	253	0.076	1	1.40	0.013	0.09	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
ROS 163281	Soil	18	28	0.55	311	0.087	<1	1.56	0.021	0.14	0.2	0.03	4.2	<0.1	<0.05	5	0.7	<0.2
ROS 164875	Soil	19	22	0.53	151	0.104	<1	1.42	0.012	0.17	<0.1	0.02	2.5	0.1	<0.05	6	<0.5	<0.2
ROS 159361	Soil	9	24	0.44	122	0.063	1	1.35	0.009	0.10	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163285	Soil	15	25	0.45	337	0.065	<1	1.29	0.017	0.05	0.2	0.03	3.5	<0.1	<0.05	4	0.9	<0.2
ROS 163279	Soil	19	21	0.72	221	0.108	<1	1.41	0.014	0.40	0.1	0.03	4.0	0.2	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164878	Soil	0.6	31.8	4.3	87	<0.1	6.7	10.2	688	3.81	1.6	2.3	1.7	18.5	28	<0.1	0.1	0.4	59	0.20	0.054
ROS 159362	Soil	1.4	17.2	8.4	58	<0.1	16.6	8.7	424	2.60	4.7	1.3	1.8	10.3	22	<0.1	0.5	0.2	58	0.31	0.031
ROS 163284	Soil	0.7	25.6	8.0	61	<0.1	21.2	8.8	522	2.07	3.6	1.9	1.7	3.7	48	0.2	0.6	0.1	43	0.81	0.045
ROS 163277	Soil	0.6	21.1	8.6	46	<0.1	19.5	9.1	240	2.55	6.7	0.5	4.3	4.6	24	<0.1	0.5	0.2	59	0.33	0.011
ROS 164837	Soil	0.6	12.0	5.8	58	<0.1	9.1	7.2	376	2.72	3.2	1.1	1.1	6.9	18	<0.1	0.3	0.1	58	0.20	0.028
ROS 159354	Soil	1.4	17.6	16.7	79	<0.1	14.2	11.4	550	3.47	4.7	1.4	2.8	7.8	18	0.2	0.3	0.3	70	0.22	0.042
ROS 159346	Soil	0.8	27.0	7.5	76	0.1	21.1	8.7	309	2.50	7.7	1.1	3.0	5.0	33	0.5	0.7	0.2	54	0.41	0.073
ROS 159693	Soil	1.4	34.4	6.8	74	<0.1	18.3	10.0	491	3.05	4.8	1.7	1.9	8.7	37	<0.1	0.5	0.3	62	0.38	0.039
ROS 159695	Soil	1.1	25.0	5.7	63	<0.1	13.7	8.4	381	2.59	4.0	1.5	1.1	6.6	36	<0.1	0.4	0.2	56	0.38	0.039
ROS 163076	Soil	0.7	27.3	7.5	56	<0.1	20.3	8.9	322	2.44	6.6	0.6	3.7	5.0	31	0.1	0.5	0.2	55	0.47	0.056
ROS 159348	Soil	0.8	28.1	7.3	55	<0.1	21.4	8.6	326	2.43	6.6	1.0	4.0	4.7	34	0.1	0.6	0.2	54	0.51	0.053
ROS 159689	Soil	1.2	23.3	5.9	79	<0.1	13.0	9.0	305	3.01	4.5	1.2	1.8	7.4	27	<0.1	0.3	0.2	62	0.21	0.021
ROS 103081	Soil	1.4	19.8	6.3	52	<0.1	18.3	7.9	238	2.30	5.7	1.0	1.3	3.4	31	0.1	0.4	0.1	58	0.43	0.057
ROS 159982	Soil	0.7	18.7	6.3	53	0.1	17.2	9.9	327	2.16	5.4	0.7	2.8	2.2	30	0.2	0.5	0.1	55	0.49	0.059
ROS 159350	Soil	0.8	29.0	7.3	63	0.1	21.7	9.1	284	2.46	6.3	0.9	7.1	4.3	35	0.2	0.6	0.2	58	0.52	0.058
ROS 159976	Soil	0.6	27.7	6.1	47	0.1	19.7	9.6	384	2.17	5.7	0.7	4.6	2.3	34	0.2	0.5	0.1	57	0.57	0.055
ROS 163079	Soil	0.8	27.8	6.9	59	<0.1	19.8	8.4	287	2.51	5.0	0.7	3.0	4.7	41	0.1	0.4	0.1	60	0.53	0.058
ROS 163080	Soil	0.7	27.6	7.3	58	<0.1	21.0	9.0	302	2.43	6.5	1.1	4.2	3.8	37	<0.1	0.5	0.1	51	0.48	0.053
ROS 159349	Soil	0.8	26.9	8.1	53	<0.1	21.8	8.7	321	2.48	7.2	1.3	4.5	4.6	32	0.1	0.6	0.2	51	0.45	0.056
ROS 162645	Soil	0.7	44.4	7.4	52	0.6	10.7	5.5	248	1.94	3.6	6.2	5.1	5.5	52	0.1	0.2	0.2	37	0.45	0.060
ROS 163078	Soil	0.7	19.9	6.4	62	<0.1	13.4	9.5	414	2.64	4.4	1.1	2.3	5.9	65	0.1	0.4	0.1	57	0.78	0.064
ROS 159981	Soil	0.8	23.1	8.1	55	0.1	21.3	9.5	317	2.33	8.0	0.7	2.8	2.9	33	0.2	0.6	0.2	53	0.51	0.060
ROS 162674	Soil	0.8	24.9	7.9	53	<0.1	21.9	9.6	361	2.44	7.0	1.4	1.8	4.7	35	0.1	0.6	0.2	50	0.52	0.052
ROS 152655	Soil	0.5	21.8	10.6	65	0.2	18.6	10.5	423	2.46	5.8	1.3	3.9	4.7	33	0.2	1.6	0.2	47	0.72	0.063
ROS 152664	Soil	0.6	16.5	9.2	57	0.2	15.1	8.7	420	2.10	4.8	1.1	5.9	3.3	35	0.2	1.1	0.2	47	0.80	0.049
ROS 162679	Soil	0.9	18.8	7.3	45	<0.1	16.0	8.3	339	2.13	7.2	0.9	4.9	3.9	30	<0.1	0.5	0.1	46	0.44	0.066
ROS 163096	Soil	0.6	18.4	6.7	57	<0.1	12.8	6.0	248	2.27	4.3	1.3	1.4	5.1	32	0.1	0.4	0.2	42	0.58	0.069
ROS 162688	Soil	0.7	18.6	7.5	62	<0.1	16.4	8.7	234	2.42	9.8	1.1	2.5	3.9	40	0.2	0.5	0.2	50	0.73	0.064
ROS 162681	Soil	0.7	21.2	7.1	47	<0.1	17.1	9.0	447	2.10	5.8	0.9	1.7	3.4	35	0.1	0.5	0.1	45	0.51	0.062
ROS 162885	Soil	0.8	18.7	6.5	54	<0.1	18.0	9.3	446	2.41	6.4	0.8	2.7	4.8	36	0.1	0.5	0.1	51	0.56	0.058

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 164878	Soil	34	11	0.76	183	0.204	<1	2.16	0.011	1.09	<0.1	<0.01	3.5	0.4	<0.05	9	<0.5	<0.2
ROS 159362	Soil	27	23	0.46	163	0.110	<1	1.69	0.015	0.17	0.2	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
ROS 163284	Soil	18	23	0.44	361	0.072	<1	1.30	0.016	0.09	0.1	0.04	3.5	<0.1	<0.05	4	1.1	<0.2
ROS 163277	Soil	15	31	0.51	221	0.083	<1	1.63	0.011	0.09	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164837	Soil	19	18	0.72	151	0.137	<1	1.79	0.012	0.34	<0.1	0.01	3.2	0.2	<0.05	7	0.5	<0.2
ROS 159354	Soil	9	28	0.82	113	0.136	1	1.83	0.011	0.38	0.1	0.02	3.4	0.3	<0.05	8	<0.5	<0.2
ROS 159346	Soil	17	26	0.54	318	0.081	<1	1.42	0.022	0.09	0.1	0.04	3.5	<0.1	<0.05	5	0.7	<0.2
ROS 159693	Soil	22	26	0.65	255	0.131	<1	1.73	0.016	0.40	0.1	0.03	4.3	0.2	<0.05	6	0.6	<0.2
ROS 159695	Soil	21	22	0.57	237	0.118	<1	1.70	0.016	0.22	<0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 163076	Soil	16	27	0.56	244	0.097	<1	1.48	0.026	0.11	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159348	Soil	16	28	0.53	274	0.081	<1	1.46	0.019	0.08	0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159689	Soil	18	21	0.70	173	0.120	<1	1.83	0.010	0.24	<0.1	0.02	3.1	0.2	<0.05	6	<0.5	<0.2
ROS 103081	Soil	13	29	0.51	230	0.066	<1	1.41	0.012	0.05	0.1	0.03	3.3	<0.1	<0.05	5	0.8	<0.2
ROS 159982	Soil	11	23	0.45	270	0.059	<1	1.26	0.017	0.05	0.2	0.03	3.0	<0.1	<0.05	4	0.7	<0.2
ROS 159350	Soil	14	28	0.56	280	0.078	1	1.36	0.027	0.07	0.2	0.04	3.7	<0.1	<0.05	4	0.6	<0.2
ROS 159976	Soil	12	24	0.47	264	0.059	<1	1.21	0.017	0.05	0.2	0.03	3.2	<0.1	<0.05	4	0.6	<0.2
ROS 163079	Soil	15	32	0.55	214	0.096	<1	1.56	0.017	0.15	<0.1	0.03	4.1	0.1	<0.05	6	0.7	<0.2
ROS 163080	Soil	13	27	0.53	279	0.070	<1	1.46	0.017	0.06	0.2	0.04	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 159349	Soil	14	25	0.52	278	0.067	1	1.42	0.017	0.07	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 162645	Soil	63	17	0.48	218	0.062	1	1.78	0.010	0.18	0.1	0.15	5.4	0.2	0.09	6	1.0	<0.2
ROS 163078	Soil	17	20	0.65	241	0.093	<1	2.04	0.019	0.23	<0.1	0.03	3.6	0.1	<0.05	7	<0.5	<0.2
ROS 159981	Soil	11	25	0.50	298	0.053	1	1.32	0.022	0.04	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 162674	Soil	14	26	0.49	297	0.065	<1	1.46	0.019	0.06	0.2	0.04	3.8	<0.1	<0.05	4	0.5	<0.2
ROS 152655	Soil	17	24	0.44	485	0.040	<1	1.30	0.012	0.07	0.3	0.09	3.8	<0.1	<0.05	4	0.6	<0.2
ROS 152664	Soil	15	24	0.44	471	0.043	2	1.34	0.010	0.07	0.3	0.07	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 162679	Soil	13	24	0.44	219	0.057	<1	1.24	0.017	0.05	0.2	0.03	3.1	<0.1	<0.05	4	0.6	<0.2
ROS 163096	Soil	21	19	0.43	241	0.049	1	1.07	0.013	0.12	0.3	0.04	3.9	<0.1	0.06	4	0.6	<0.2
ROS 162688	Soil	14	22	0.54	176	0.066	1	1.28	0.018	0.10	0.1	0.04	3.4	<0.1	0.07	4	0.6	<0.2
ROS 162681	Soil	13	28	0.45	247	0.058	1	1.30	0.016	0.05	0.2	0.03	3.2	<0.1	<0.05	4	0.5	<0.2
ROS 162885	Soil	17	24	0.53	194	0.065	1	1.26	0.016	0.08	0.2	0.03	3.2	<0.1	<0.05	5	0.6	<0.2

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 159677	Soil	2.5	74.5	4.9	50	0.2	8.9	6.0	199	2.46	3.3	1.4	1.3	2.6	24	<0.1	0.2	0.1	56	0.17	0.047
ROS 159676	Soil	1.5	67.8	4.2	113	0.2	11.7	19.0	510	3.61	2.3	1.0	0.7	3.6	35	0.1	0.1	<0.1	91	0.25	0.058
ROS 163389	Soil	0.6	22.2	7.0	54	0.1	13.0	6.8	184	2.39	5.7	1.7	4.1	5.7	31	<0.1	0.3	0.2	44	0.33	0.057
ROS 163390	Soil	0.7	12.5	6.4	41	<0.1	12.2	6.2	187	1.99	5.3	0.8	4.0	4.7	27	<0.1	0.4	0.2	43	0.30	0.046
ROS 159546	Soil	1.0	24.8	6.9	47	<0.1	17.6	7.7	266	2.36	5.9	1.8	2.2	5.3	35	<0.1	0.4	0.2	51	0.43	0.042
ROS 160907	Soil	0.6	19.2	6.5	51	<0.1	15.5	8.8	326	2.63	5.8	1.1	2.8	8.4	29	<0.1	0.4	0.1	57	0.31	0.033
ROS 161472	Soil	1.0	18.2	7.1	63	0.1	10.9	6.7	232	2.53	5.5	1.6	4.0	5.8	24	0.1	0.3	0.2	47	0.24	0.049
ROS 162641	Soil	0.8	24.0	7.6	49	<0.1	18.4	8.6	329	2.58	6.9	1.3	3.4	5.6	30	<0.1	0.5	0.2	55	0.36	0.031
ROS 159506	Soil	0.8	28.3	8.5	54	0.1	23.8	9.8	413	2.42	8.5	0.8	3.6	4.0	35	0.2	0.7	0.2	52	0.53	0.056
ROS 159510	Soil	1.0	25.0	7.4	50	<0.1	20.2	8.1	258	2.41	7.7	1.1	3.9	5.8	31	0.1	0.5	0.2	48	0.40	0.052
ROS 151019	Soil	0.4	27.1	7.0	48	0.1	22.9	9.5	382	2.31	8.2	0.7	4.9	2.6	29	0.1	0.5	0.1	48	0.89	0.051
ROS 151021	Soil	0.3	18.1	6.0	57	<0.1	17.1	9.5	432	2.21	6.4	0.8	5.0	2.7	31	<0.1	0.4	0.1	47	0.69	0.053
ROS 159508	Soil	1.0	24.8	7.3	51	<0.1	21.7	8.9	397	2.29	7.9	0.8	3.1	4.6	31	0.1	0.6	0.2	48	0.44	0.055
ROS 159509	Soil	0.7	23.9	6.9	47	<0.1	18.6	7.5	244	2.10	7.0	0.8	4.0	4.0	29	<0.1	0.6	0.2	45	0.37	0.054
ROS 159504	Soil	0.9	27.3	8.0	57	0.1	22.7	10.4	418	2.41	8.2	1.4	9.9	4.0	39	0.2	0.7	0.1	53	0.55	0.053
ROS 159507	Soil	0.8	28.5	7.9	53	0.1	22.9	9.4	402	2.49	8.1	0.8	5.8	4.0	34	0.2	0.7	0.2	51	0.51	0.055
ROS 173101	Soil	2.7	65.2	5.8	62	0.2	10.3	8.0	259	2.68	3.3	1.0	1.8	2.3	26	0.1	0.2	0.1	72	0.17	0.045
ROS 159667	Soil	1.0	16.0	7.6	59	0.1	14.0	10.3	490	2.13	5.4	1.4	2.8	4.8	34	0.2	0.4	0.2	44	0.46	0.071
ROS 162646	Soil	0.7	29.9	5.2	49	0.5	9.5	5.3	205	1.89	3.9	3.0	3.2	4.4	48	0.1	0.2	0.2	32	0.46	0.051
ROS 162647	Soil	1.1	17.6	5.7	48	<0.1	8.0	5.1	237	2.02	5.7	1.2	4.4	4.5	31	<0.1	0.3	0.2	48	0.27	0.035
ROS 162878	Soil	1.0	7.6	6.2	39	<0.1	8.5	4.6	333	2.08	5.3	0.3	3.6	2.6	15	<0.1	0.4	0.2	52	0.17	0.019
ROS 162881	Soil	0.8	13.1	5.1	55	<0.1	7.2	5.4	373	1.97	2.2	1.4	1.2	9.8	29	<0.1	0.2	0.1	35	0.50	0.046
ROS 159675	Soil	1.2	23.4	7.4	64	<0.1	18.4	8.3	411	2.45	5.4	4.2	17.4	8.6	40	0.1	0.6	0.1	48	0.75	0.055
ROS 162880	Soil	3.4	24.6	8.3	59	<0.1	9.4	4.8	366	2.64	3.2	0.6	0.7	6.4	14	<0.1	0.3	0.5	31	0.20	0.023
ROS 151020	Soil	0.5	22.2	7.7	57	<0.1	18.7	8.9	393	2.38	6.2	0.5	2.2	3.5	25	0.2	0.5	0.2	49	0.76	0.045
ROS 151404	Soil	0.4	21.8	12.4	77	0.2	18.4	10.1	344	2.41	5.2	1.9	4.7	6.3	39	0.3	2.1	0.2	45	1.12	0.073
ROS 159970	Soil	1.1	25.3	8.2	64	<0.1	18.0	7.8	236	2.20	5.6	2.8	2.2	6.3	29	0.3	0.5	0.2	43	0.48	0.063
ROS 159966	Soil	1.3	27.1	8.0	65	0.1	22.8	9.3	276	2.35	7.1	2.0	2.3	4.3	38	0.3	0.7	0.2	48	0.56	0.071
ROS 162627	Soil	2.4	170.7	4.8	57	0.7	11.0	6.0	254	2.58	2.9	1.9	3.8	3.8	32	0.2	0.1	0.1	52	0.18	0.053
ROS 159968	Soil	1.1	26.8	7.6	58	0.1	20.5	9.1	367	2.29	6.7	1.5	1.3	4.1	42	0.2	0.5	0.2	46	0.73	0.073

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159677	Soil	9	20	0.69	113	0.097	<1	1.49	0.008	0.32	<0.1	0.04	2.6	0.2	0.09	5	0.7	<0.2
ROS 159676	Soil	9	29	1.39	201	0.189	<1	2.39	0.010	0.79	0.1	0.03	2.6	0.3	0.06	8	0.5	<0.2
ROS 163389	Soil	20	21	0.49	205	0.084	<1	1.64	0.011	0.11	0.2	0.05	3.2	0.1	<0.05	6	0.7	<0.2
ROS 163390	Soil	13	21	0.45	179	0.067	<1	1.27	0.010	0.05	0.2	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
ROS 159546	Soil	17	27	0.51	231	0.090	<1	1.47	0.013	0.09	0.2	0.04	3.5	<0.1	<0.05	5	0.6	<0.2
ROS 160907	Soil	25	25	0.66	162	0.110	<1	1.78	0.011	0.19	0.1	0.03	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 161472	Soil	20	19	0.49	167	0.081	1	1.76	0.009	0.20	<0.1	0.06	3.3	0.1	<0.05	6	0.6	<0.2
ROS 162641	Soil	19	27	0.57	236	0.094	<1	1.60	0.021	0.09	0.2	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
ROS 159506	Soil	13	27	0.50	297	0.071	1	1.40	0.027	0.06	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 159510	Soil	19	27	0.43	262	0.062	<1	1.39	0.014	0.08	0.2	0.04	4.2	<0.1	<0.05	5	0.6	<0.2
ROS 151019	Soil	12	25	0.63	262	0.062	1	1.33	0.015	0.06	0.1	0.05	3.6	<0.1	<0.05	4	0.9	<0.2
ROS 151021	Soil	11	22	0.72	211	0.075	<1	1.37	0.011	0.10	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159508	Soil	15	26	0.46	283	0.063	<1	1.30	0.016	0.07	0.2	0.04	3.6	<0.1	<0.05	4	0.7	<0.2
ROS 159509	Soil	14	25	0.45	248	0.061	<1	1.37	0.014	0.05	0.2	0.03	3.7	<0.1	<0.05	4	0.7	<0.2
ROS 159504	Soil	14	27	0.51	299	0.066	2	1.46	0.026	0.05	0.2	0.04	3.7	<0.1	<0.05	4	0.8	<0.2
ROS 159507	Soil	14	26	0.47	288	0.068	<1	1.39	0.021	0.07	0.2	0.04	4.0	<0.1	<0.05	5	0.9	<0.2
ROS 173101	Soil	8	23	0.79	156	0.121	<1	1.64	0.009	0.37	<0.1	0.04	2.9	0.2	0.08	6	0.8	<0.2
ROS 159667	Soil	23	19	0.41	242	0.046	<1	1.32	0.010	0.08	0.2	0.06	3.4	<0.1	<0.05	5	0.9	<0.2
ROS 162646	Soil	43	16	0.47	178	0.065	1	1.42	0.010	0.14	<0.1	0.09	3.6	0.1	0.07	6	0.9	<0.2
ROS 162647	Soil	19	14	0.43	122	0.087	<1	1.22	0.008	0.15	<0.1	0.04	2.2	0.1	<0.05	6	<0.5	<0.2
ROS 162878	Soil	8	16	0.30	135	0.050	<1	0.99	0.007	0.09	0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
ROS 162881	Soil	36	11	0.48	226	0.059	<1	0.97	0.010	0.26	<0.1	0.01	3.7	0.2	<0.05	4	1.0	<0.2
ROS 159675	Soil	26	23	0.50	178	0.085	1	1.37	0.015	0.19	0.2	0.04	4.4	0.1	<0.05	5	0.9	<0.2
ROS 162880	Soil	10	14	0.50	166	0.032	2	1.82	0.006	0.21	0.1	0.02	2.2	0.2	<0.05	7	<0.5	<0.2
ROS 151020	Soil	12	25	0.75	196	0.085	2	1.73	0.017	0.08	0.2	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
ROS 151404	Soil	21	27	0.55	565	0.043	4	1.35	0.012	0.08	0.2	0.24	3.5	<0.1	0.06	5	<0.5	<0.2
ROS 159970	Soil	23	24	0.47	216	0.066	2	1.27	0.016	0.09	0.2	0.04	3.5	<0.1	<0.05	5	0.8	<0.2
ROS 159966	Soil	15	25	0.50	271	0.057	2	1.21	0.015	0.08	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 162627	Soil	11	25	0.80	127	0.118	1	1.90	0.011	0.51	0.1	0.05	3.7	0.2	0.07	7	1.0	<0.2
ROS 159968	Soil	23	26	0.51	251	0.060	2	1.36	0.016	0.09	0.2	0.05	3.5	<0.1	<0.05	4	0.6	<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	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
ROS 162626	Soil	2.3	107.4	5.6	33	0.5	4.7	2.1	122	1.46	1.7	1.3	5.9	1.6	34	<0.1	0.1	0.1	31	0.16	0.060
ROS 162632	Soil	1.1	11.1	7.4	55	<0.1	15.1	8.6	427	3.04	7.6	1.1	0.6	5.5	18	<0.1	0.4	0.1	55	0.10	0.030
ROS 151130	Soil	0.8	15.8	17.0	68	0.1	16.8	8.2	222	3.00	8.4	0.5	2.4	5.2	23	0.2	1.9	0.2	60	0.39	0.034
ROS 151136	Soil	0.8	20.9	7.8	63	0.1	20.8	8.5	382	2.18	7.3	0.7	2.7	2.6	38	0.2	0.7	0.2	45	0.88	0.056
ROS 159958	Soil	1.2	14.2	6.7	60	<0.1	12.7	6.3	473	2.48	5.5	1.8	<0.5	12.6	69	0.1	0.4	0.2	35	0.32	0.020
ROS 159959	Soil	0.6	20.2	7.0	69	0.1	17.4	8.0	289	1.91	4.4	1.3	2.1	2.8	42	0.2	0.5	0.1	45	0.61	0.069
ROS 159960	Soil	2.8	20.6	7.3	67	<0.1	11.0	7.6	984	2.05	3.0	1.5	3.2	9.9	29	0.1	0.3	0.2	36	0.67	0.066
ROS 159962	Soil	1.8	17.5	7.3	62	<0.1	14.6	6.2	351	2.05	6.1	1.3	2.8	3.8	33	0.2	0.4	0.2	43	0.66	0.064
ROS 164883	Soil	0.8	25.0	6.5	50	<0.1	16.8	8.0	313	2.39	5.1	1.8	3.9	5.0	33	0.1	0.4	0.2	46	0.42	0.053
ROS 164887	Soil	1.8	44.2	23.2	213	0.1	14.6	21.4	1048	5.54	4.6	1.3	<0.5	4.3	20	0.7	0.3	0.2	99	0.49	0.077
ROS 151390	Soil	0.4	27.3	9.2	63	0.3	17.7	8.8	361	2.07	5.7	2.1	6.2	4.1	52	0.2	1.9	0.1	37	1.60	0.074
ROS 164886	Soil	1.3	22.8	16.2	102	<0.1	17.7	16.7	1255	4.18	3.5	1.6	0.8	10.6	39	0.2	0.3	0.3	81	1.14	0.075
ROS 161173	Soil	0.8	31.6	7.4	59	0.1	25.5	9.4	381	2.43	8.2	0.8	2.9	3.3	35	0.2	0.6	0.2	50	0.67	0.074
ROS 162656	Soil	1.0	21.4	7.2	64	0.1	18.2	13.3	693	2.61	7.1	1.9	5.4	5.4	36	0.2	0.5	0.2	48	0.60	0.079
ROS 162802	Soil	1.9	31.9	19.2	146	0.2	11.5	10.4	1246	3.24	6.1	2.8	1.0	13.5	29	0.4	0.2	1.0	50	0.63	0.070
ROS 162800	Soil	1.2	19.2	9.1	83	<0.1	18.4	13.2	1085	3.02	6.8	1.2	2.1	6.9	32	0.2	0.3	0.3	52	0.82	0.066
ROS 162651	Soil	0.7	16.1	5.8	56	<0.1	11.6	6.4	234	2.25	5.1	1.0	5.3	5.3	25	0.1	0.3	0.1	42	0.30	0.058
ROS 162801	Soil	0.8	19.7	10.1	85	<0.1	16.0	9.6	829	2.66	5.1	3.9	1.7	10.3	31	0.2	0.3	0.2	44	0.84	0.062
ROS 162799	Soil	0.9	18.9	7.0	51	<0.1	13.9	8.3	442	2.14	4.5	1.3	3.3	4.7	30	0.2	0.4	0.1	46	0.49	0.063
ROS 163393	Soil	0.9	28.8	8.6	63	<0.1	23.5	9.4	352	2.58	7.5	0.6	1.9	4.2	33	0.1	0.6	0.2	49	0.47	0.062
ROS 163394	Soil	0.9	35.7	8.7	72	0.1	22.3	9.4	379	2.66	7.5	1.1	2.7	4.6	44	0.2	0.6	0.2	53	0.62	0.063
ROS 163391	Soil	0.8	15.9	6.7	45	<0.1	13.6	6.6	217	2.19	6.0	1.1	3.2	4.7	27	<0.1	0.4	0.1	46	0.32	0.046
ROS 163392	Soil	1.0	28.8	8.6	61	<0.1	21.4	9.2	318	2.64	7.8	1.4	3.2	5.6	33	0.1	0.6	0.2	52	0.39	0.056
ROS 159526	Soil	0.9	12.8	8.2	73	<0.1	14.2	8.6	501	3.25	5.2	0.8	2.8	5.4	24	<0.1	0.3	0.1	70	0.17	0.030
ROS 159521	Soil	0.8	20.9	6.5	55	<0.1	11.9	7.1	195	2.27	5.6	0.7	11.3	1.8	20	0.1	0.3	0.1	53	0.22	0.050
ROS 159535	Soil	1.4	21.3	7.7	51	<0.1	15.1	10.6	564	2.84	8.1	1.0	1.0	5.8	19	<0.1	0.4	0.2	56	0.19	0.039
ROS 159523	Soil	3.2	85.8	5.6	62	0.4	11.1	6.0	277	2.49	3.9	1.4	1.1	2.8	28	<0.1	0.2	0.1	57	0.19	0.050
ROS 159527	Soil	0.8	14.8	7.1	79	<0.1	18.5	13.0	599	3.64	6.5	1.1	0.6	8.3	30	0.1	0.4	0.1	63	0.19	0.037
ROS 159522	Soil	1.9	77.0	4.4	49	0.3	8.8	5.4	200	2.54	3.3	1.5	1.4	2.6	28	0.1	0.1	0.1	51	0.17	0.058
ROS 159531	Soil	0.7	20.3	6.2	71	<0.1	20.5	13.0	589	3.64	4.3	1.2	1.7	9.9	37	<0.1	0.3	0.1	73	0.49	0.041

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 162626	Soil	8	16	0.45	101	0.064	1	1.09	0.013	0.27	<0.1	0.07	2.5	0.1	0.15	5	1.1	<0.2
ROS 162632	Soil	16	23	0.67	168	0.085	1	2.18	0.009	0.22	0.1	0.02	2.4	0.2	<0.05	7	<0.5	<0.2
ROS 151130	Soil	14	32	0.55	350	0.051	1	1.95	0.010	0.05	0.1	0.07	3.4	<0.1	<0.05	6	<0.5	<0.2
ROS 151136	Soil	11	26	0.51	282	0.053	2	1.28	0.023	0.06	0.3	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 159958	Soil	26	18	0.55	146	0.054	2	1.44	0.007	0.27	0.2	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
ROS 159959	Soil	14	24	0.55	254	0.064	3	1.25	0.021	0.09	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 159960	Soil	24	19	0.51	149	0.070	2	1.22	0.012	0.21	0.4	0.05	3.6	0.2	<0.05	5	<0.5	<0.2
ROS 159962	Soil	12	26	0.52	146	0.066	3	1.23	0.017	0.11	0.2	0.03	3.0	<0.1	0.06	4	<0.5	<0.2
ROS 164883	Soil	20	23	0.50	218	0.082	1	1.53	0.015	0.10	0.2	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 164887	Soil	10	33	1.46	357	0.169	<1	2.69	0.009	0.84	0.1	0.03	7.8	0.4	<0.05	9	<0.5	<0.2
ROS 151390	Soil	24	22	0.45	713	0.042	4	1.35	0.013	0.07	0.2	0.15	3.5	<0.1	0.07	4	0.8	<0.2
ROS 164886	Soil	46	24	0.95	195	0.125	2	2.03	0.012	0.56	0.2	0.04	5.8	0.4	<0.05	8	0.6	<0.2
ROS 161173	Soil	13	28	0.56	280	0.069	2	1.32	0.024	0.06	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 162656	Soil	20	26	0.52	245	0.069	1	1.50	0.021	0.10	0.2	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 162802	Soil	60	17	0.68	269	0.100	2	1.63	0.013	0.41	0.5	0.06	6.1	0.3	0.05	6	0.7	<0.2
ROS 162800	Soil	20	28	0.75	235	0.082	2	1.48	0.016	0.19	0.2	0.03	4.1	0.1	<0.05	5	0.5	<0.2
ROS 162651	Soil	15	20	0.52	130	0.091	1	1.40	0.013	0.17	0.2	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
ROS 162801	Soil	46	25	0.55	164	0.068	2	1.41	0.016	0.18	0.2	0.04	4.7	0.1	<0.05	5	0.7	<0.2
ROS 162799	Soil	19	20	0.51	291	0.075	1	1.34	0.015	0.10	0.2	0.04	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 163393	Soil	15	30	0.58	271	0.077	1	1.55	0.029	0.09	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163394	Soil	15	29	0.60	257	0.086	2	1.58	0.031	0.12	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163391	Soil	14	24	0.47	171	0.080	<1	1.32	0.016	0.06	0.2	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 163392	Soil	17	29	0.54	286	0.088	1	1.66	0.020	0.11	0.1	0.04	4.1	<0.1	<0.05	5	0.6	<0.2
ROS 159526	Soil	14	22	0.78	101	0.176	1	2.17	0.011	0.32	0.1	0.01	3.3	0.2	<0.05	8	<0.5	<0.2
ROS 159521	Soil	10	25	0.56	119	0.091	1	1.47	0.011	0.15	0.2	0.03	2.4	0.1	<0.05	5	<0.5	<0.2
ROS 159535	Soil	12	27	0.51	173	0.103	<1	1.79	0.010	0.35	0.2	0.01	2.3	0.1	<0.05	6	<0.5	<0.2
ROS 159523	Soil	11	25	0.80	131	0.116	1	1.66	0.010	0.41	0.2	0.05	3.6	0.2	0.07	7	0.5	<0.2
ROS 159527	Soil	16	25	0.79	179	0.169	<1	2.87	0.013	0.38	0.2	0.02	3.2	0.3	<0.05	8	<0.5	<0.2
ROS 159522	Soil	10	21	0.67	130	0.093	1	1.55	0.013	0.37	0.1	0.04	3.0	0.2	0.13	5	0.7	<0.2
ROS 159531	Soil	24	34	1.10	249	0.192	2	2.72	0.012	0.63	0.1	0.02	3.7	0.3	<0.05	8	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159529	Soil	1.0	13.5	8.1	65	<0.1	17.0	8.8	522	3.19	6.2	0.9	1.2	6.6	23	0.1	0.3	0.1	68	0.28	0.035
ROS 159528	Soil	0.9	14.4	8.4	67	<0.1	17.2	8.8	383	3.12	8.1	0.9	1.2	6.5	16	<0.1	0.4	0.1	72	0.16	0.033
ROS 159537	Soil	1.2	35.8	5.5	63	<0.1	8.7	8.1	395	2.86	3.0	2.0	0.8	10.2	36	<0.1	0.2	0.3	50	0.34	0.027
ROS 159524	Soil	2.4	166.1	4.8	76	0.2	12.6	10.0	491	3.70	2.9	1.8	1.2	7.2	40	<0.1	0.1	0.1	97	0.17	0.042
ROS 160872	Soil	0.6	13.4	6.8	37	<0.1	13.5	5.8	170	2.15	6.4	0.7	2.2	3.5	20	<0.1	0.4	0.1	53	0.26	0.029
ROS 160874	Soil	0.9	30.9	9.1	58	<0.1	24.5	10.2	463	2.75	7.5	0.9	2.3	8.5	25	<0.1	0.6	0.2	62	0.35	0.027
ROS 160875	Soil	0.7	27.6	8.2	46	<0.1	21.2	9.0	321	2.50	7.5	0.7	3.0	5.2	23	<0.1	0.5	0.1	58	0.30	0.027
ROS 160876	Soil	0.8	21.5	8.1	47	<0.1	19.6	8.5	303	2.58	7.3	1.1	3.2	5.2	25	<0.1	0.5	0.1	59	0.40	0.032
ROS 160870	Soil	0.6	17.1	5.7	52	<0.1	13.8	7.7	340	2.54	5.4	1.2	1.3	10.9	23	<0.1	0.4	0.1	47	0.26	0.035
ROS 160871	Soil	1.0	38.4	7.3	51	0.2	21.4	8.1	797	2.78	6.7	4.8	7.2	12.2	47	0.1	0.4	0.2	47	0.89	0.054
ROS 162744	Soil	0.8	16.0	7.7	51	<0.1	16.9	7.5	237	2.59	7.4	0.8	2.0	6.5	19	<0.1	0.7	0.2	58	0.24	0.017
ROS 160869	Soil	1.6	17.6	9.7	48	0.2	17.6	11.2	915	2.66	5.7	1.8	4.3	8.2	24	0.1	0.5	0.2	52	0.30	0.039
ROS 173145	Soil	0.7	19.2	7.6	48	<0.1	14.7	7.1	265	2.17	6.4	1.1	3.0	3.8	33	0.1	0.4	0.2	51	0.53	0.059
ROS 173144	Soil	0.9	22.5	8.5	56	<0.1	19.3	8.5	314	2.32	8.2	1.4	13.1	4.0	32	0.1	0.5	0.1	56	0.52	0.056
ROS 159347	Soil	0.9	29.5	7.9	67	<0.1	22.3	9.4	359	2.56	8.1	0.9	2.2	5.1	37	0.2	0.6	0.2	53	0.81	0.062
ROS 164836	Soil	0.7	34.4	8.1	69	<0.1	50.1	13.2	665	3.35	4.8	2.7	0.7	10.4	34	<0.1	0.3	0.1	78	0.39	0.067
ROS 173146	Soil	1.1	8.2	7.4	65	<0.1	12.9	8.6	550	2.14	3.5	0.7	1.1	7.5	21	<0.1	0.2	0.1	41	0.37	0.072
ROS 173143	Soil	0.6	28.5	8.2	55	<0.1	20.6	9.3	322	2.49	6.9	1.3	3.0	5.4	31	0.1	0.4	0.1	55	0.47	0.052
ROS 159345	Soil	0.9	20.9	7.5	47	<0.1	19.6	8.8	243	2.69	7.7	0.9	1.7	6.1	20	<0.1	0.5	0.1	61	0.22	0.023
ROS 159352	Soil	0.9	39.6	6.9	95	0.1	31.0	10.5	552	2.44	7.1	1.3	2.6	2.3	56	1.3	0.7	0.1	55	1.24	0.088
ROS 173147	Soil	1.1	22.8	8.0	77	0.1	18.0	9.7	568	2.76	6.9	1.5	1.7	7.1	35	0.2	0.5	0.2	57	0.57	0.059
ROS 173142	Soil	0.8	29.9	9.1	55	<0.1	23.1	9.4	373	2.59	7.3	1.3	2.2	4.8	36	0.1	0.6	0.2	57	0.56	0.051
ROS 164839	Soil	0.6	15.3	6.0	55	<0.1	12.5	8.0	354	2.47	4.2	1.1	1.8	6.9	27	<0.1	0.3	<0.1	58	0.29	0.025
ROS 164872	Soil	0.6	124.6	10.0	75	0.1	297.2	39.0	797	4.45	3.9	2.8	0.9	6.7	171	0.1	0.3	<0.1	145	1.05	0.232
ROS 162842	Soil	0.6	17.4	6.0	38	<0.1	10.9	6.3	252	1.89	4.5	1.3	14.8	6.7	23	<0.1	0.4	0.1	45	0.30	0.035
ROS 173148	Soil	0.7	14.4	6.4	50	<0.1	12.8	6.0	344	2.10	5.6	1.1	1.0	3.5	40	0.1	0.4	0.1	47	0.68	0.066
ROS 164838	Soil	0.9	19.7	8.7	61	<0.1	18.0	8.8	316	2.98	7.1	1.6	1.3	5.7	29	<0.1	0.5	0.1	72	0.33	0.030
ROS 159351	Soil	1.0	24.6	7.5	55	0.1	20.0	9.5	455	2.39	7.1	1.5	2.2	3.7	37	0.2	0.5	0.1	56	0.62	0.062
ROS 162677	Soil	0.9	24.9	7.1	51	<0.1	19.0	9.4	501	2.05	6.3	1.3	2.8	2.5	48	0.3	0.5	0.1	48	0.81	0.090
ROS 162687	Soil	0.9	19.3	7.5	53	<0.1	17.7	8.3	449	2.38	6.1	3.2	1.0	5.8	41	0.2	0.4	0.2	49	0.61	0.043

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159529	Soil	16	25	0.74	157	0.130	2	2.51	0.010	0.20	0.1	0.02	2.7	0.2	<0.05	8	<0.5	<0.2
ROS 159528	Soil	13	27	0.64	135	0.124	2	2.51	0.010	0.21	0.2	0.02	2.9	0.2	<0.05	8	<0.5	<0.2
ROS 159537	Soil	30	16	0.69	152	0.150	1	1.81	0.013	0.54	<0.1	<0.01	3.0	0.3	<0.05	6	<0.5	0.3
ROS 159524	Soil	18	33	1.33	173	0.211	1	2.36	0.016	0.94	0.1	0.01	5.9	0.3	0.20	9	0.6	<0.2
ROS 160872	Soil	12	25	0.45	244	0.069	2	1.17	0.015	0.07	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
ROS 160874	Soil	20	34	0.53	270	0.099	<1	1.58	0.025	0.14	0.2	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
ROS 160875	Soil	17	30	0.54	322	0.076	1	1.50	0.021	0.06	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160876	Soil	17	33	0.52	322	0.081	1	1.56	0.019	0.07	0.2	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
ROS 160870	Soil	28	24	0.43	235	0.068	1	1.35	0.011	0.14	0.1	0.03	4.2	0.1	<0.05	4	<0.5	<0.2
ROS 160871	Soil	138	25	0.35	509	0.031	2	2.02	0.010	0.20	0.1	0.15	9.5	0.1	<0.05	6	1.5	<0.2
ROS 162744	Soil	25	31	0.51	287	0.056	1	1.83	0.011	0.07	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
ROS 160869	Soil	70	29	0.42	294	0.055	2	1.68	0.012	0.16	0.2	0.03	3.9	0.1	<0.05	6	<0.5	<0.2
ROS 173145	Soil	12	25	0.47	260	0.067	1	1.51	0.019	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
ROS 173144	Soil	14	29	0.50	262	0.076	2	1.59	0.023	0.06	0.2	0.04	3.6	<0.1	<0.05	4	0.5	<0.2
ROS 159347	Soil	17	28	0.65	272	0.088	2	1.56	0.027	0.10	0.2	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
ROS 164836	Soil	35	47	1.38	256	0.152	<1	2.38	0.016	0.43	0.1	0.02	4.6	0.2	<0.05	8	<0.5	<0.2
ROS 173146	Soil	21	23	0.56	176	0.083	1	1.36	0.013	0.23	0.2	0.02	2.8	0.1	<0.05	5	<0.5	<0.2
ROS 173143	Soil	17	29	0.54	239	0.087	<1	1.38	0.026	0.10	0.2	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
ROS 159345	Soil	15	32	0.57	170	0.088	1	1.66	0.020	0.09	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 159352	Soil	11	29	0.64	327	0.070	4	1.25	0.031	0.09	0.1	0.02	3.3	<0.1	0.08	4	0.5	<0.2
ROS 173147	Soil	28	30	0.57	290	0.072	1	1.71	0.018	0.14	0.2	0.04	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 173142	Soil	17	32	0.61	298	0.089	1	1.56	0.026	0.08	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
ROS 164839	Soil	20	24	0.66	184	0.130	<1	1.53	0.016	0.25	0.2	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 164872	Soil	25	343	4.88	717	0.210	5	2.81	0.027	0.39	0.2	0.02	2.6	<0.1	0.06	9	<0.5	<0.2
ROS 162842	Soil	18	17	0.37	178	0.086	<1	1.38	0.023	0.09	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
ROS 173148	Soil	20	21	0.37	308	0.053	2	1.28	0.017	0.07	0.2	0.06	3.0	<0.1	0.07	4	0.5	<0.2
ROS 164838	Soil	20	37	0.65	251	0.130	1	2.13	0.019	0.13	0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
ROS 159351	Soil	14	29	0.55	274	0.083	1	1.62	0.026	0.07	0.1	0.03	3.6	<0.1	<0.05	5	0.6	<0.2
ROS 162677	Soil	15	25	0.47	260	0.060	2	1.31	0.026	0.06	0.2	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 162687	Soil	104	25	0.49	207	0.077	2	1.52	0.015	0.15	0.1	0.03	3.7	<0.1	<0.05	5	0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 159969	Soil	1.1	28.9	7.9	65	<0.1	19.9	8.5	234	2.44	6.0	3.2	1.7	7.0	33	0.3	0.5	0.2	51	0.53	0.068
ROS 159967	Soil	2.1	22.3	6.5	65	0.1	18.6	17.3	809	5.68	8.2	2.6	3.6	3.6	56	0.2	0.6	0.1	58	0.67	0.073
ROS 163094	Soil	1.0	17.1	6.5	74	<0.1	11.8	7.8	634	2.87	5.0	1.4	0.8	4.4	47	0.2	0.4	0.1	57	0.88	0.068
ROS 162886	Soil	1.0	20.4	6.9	56	<0.1	17.7	9.5	400	2.59	7.0	0.9	2.3	5.7	38	0.1	0.4	0.1	59	0.61	0.066
ROS 173118	Soil	1.2	25.0	8.2	51	<0.1	17.1	8.4	297	2.75	6.7	1.0	1.9	5.0	29	<0.1	0.4	0.2	61	0.33	0.030
ROS 173114	Soil	0.8	34.1	5.4	49	<0.1	10.4	8.8	317	2.51	1.9	2.0	1.4	9.5	32	<0.1	0.3	0.2	50	0.24	0.016
ROS 173116	Soil	0.9	28.3	7.1	46	<0.1	15.3	7.6	252	2.23	4.0	0.9	1.5	6.8	30	<0.1	0.4	0.2	48	0.32	0.033
ROS 173117	Soil	0.7	30.2	6.9	45	<0.1	18.4	7.6	267	2.28	5.2	1.5	5.2	6.0	31	<0.1	0.4	0.2	49	0.35	0.040
ROS 173115	Soil	0.7	21.7	6.2	43	<0.1	12.8	7.2	243	2.27	3.6	0.9	1.3	6.2	26	<0.1	0.4	0.2	49	0.25	0.022
ROS 163077	Soil	0.7	25.9	7.4	49	<0.1	18.7	8.3	282	2.30	6.0	0.9	1.9	4.8	33	0.1	0.5	0.1	50	0.48	0.047
ROS 159334	Soil	1.3	43.7	5.5	52	0.7	13.9	6.8	235	2.83	3.4	1.6	10.1	5.7	37	<0.1	0.3	0.2	59	0.33	0.045
ROS 173105	Soil	0.8	13.8	8.0	49	<0.1	10.0	5.2	290	2.04	3.2	1.7	<0.5	3.4	18	0.1	0.2	0.1	47	0.16	0.035
ROS 173104	Soil	1.6	44.6	5.7	66	0.2	10.6	6.3	277	2.22	2.5	2.2	<0.5	3.1	28	0.1	0.2	0.1	50	0.21	0.052
ROS 159666	Soil	0.8	13.3	6.9	61	<0.1	13.7	8.0	411	2.26	5.3	0.9	1.9	7.9	28	0.1	0.3	0.2	43	0.40	0.069
ROS 160746	Soil	0.8	18.5	5.9	65	<0.1	12.7	9.7	449	2.22	3.8	0.6	2.9	2.2	47	0.1	0.3	0.1	57	0.64	0.067
ROS 163061	Soil	1.3	40.4	5.2	64	0.1	9.6	9.0	331	2.36	1.9	0.9	<0.5	2.9	33	0.1	0.1	<0.1	64	0.40	0.052
ROS 163060	Soil	2.1	88.4	7.6	97	0.2	14.7	19.2	664	4.50	2.6	1.2	0.8	3.7	42	0.1	0.2	<0.1	116	0.47	0.048
ROS 163062	Soil	1.5	45.9	6.2	67	0.2	10.6	6.8	224	2.02	3.4	1.3	5.9	2.8	35	0.1	0.2	0.1	50	0.24	0.060
ROS 160751	Soil	1.4	26.0	8.1	72	<0.1	11.8	10.4	443	2.92	5.3	1.3	1.6	6.2	23	0.2	0.4	0.1	56	0.44	0.056
ROS 164488	Soil	1.3	21.4	9.4	74	<0.1	10.4	12.4	526	2.83	11.3	1.3	<0.5	10.1	30	<0.1	0.2	0.1	58	0.32	0.055
ROS 160748	Soil	4.1	23.6	5.3	48	0.1	16.2	8.4	319	1.96	4.1	0.6	2.6	1.4	38	0.1	0.2	0.1	48	0.98	0.057
ROS 160749	Soil	3.4	24.9	4.7	87	<0.1	14.8	10.9	724	3.93	5.1	0.4	1.8	2.2	24	0.2	0.2	0.1	65	0.55	0.033
ROS 160747	Soil	3.8	19.8	6.5	80	0.1	16.3	7.9	390	2.34	4.6	1.4	2.3	1.9	29	0.3	0.2	0.1	53	0.54	0.072
ROS 160750	Soil	6.9	66.3	4.5	125	0.3	97.3	34.8	928	5.66	3.2	0.8	1.1	2.5	92	0.5	0.1	<0.1	130	2.21	0.321
ROS 164489	Soil	1.0	16.9	7.9	82	<0.1	10.1	14.0	587	2.95	10.4	1.5	<0.5	8.8	27	<0.1	0.2	<0.1	49	0.43	0.062
ROS 164491	Soil	0.8	20.0	19.7	85	<0.1	9.2	11.4	900	3.47	1.6	5.0	<0.5	37.7	15	<0.1	0.3	0.4	49	0.33	0.080
ROS 163066	Soil	1.0	11.8	7.6	58	<0.1	12.0	8.0	362	2.79	5.5	0.9	1.6	6.0	18	<0.1	0.3	0.2	64	0.17	0.035
ROS 163064	Soil	2.6	48.8	5.4	76	0.3	12.4	9.0	391	2.96	2.7	2.5	2.5	6.7	22	<0.1	0.1	0.1	69	0.20	0.053
ROS 163063	Soil	2.1	57.3	6.6	76	0.2	11.5	8.1	329	2.63	4.0	2.0	0.8	4.2	43	0.1	0.2	0.1	71	0.31	0.058
ROS 163068	Soil	1.0	10.5	6.4	56	<0.1	10.6	7.9	442	2.43	4.4	1.3	2.1	6.1	26	<0.1	0.3	0.1	55	0.27	0.043

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Project: ROS
 Report Date: November 15, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 159969	Soil	27	26	0.54	248	0.077	<1	1.47	0.019	0.11	0.2	0.06	4.0	<0.1	<0.05	5	0.8	<0.2
ROS 159967	Soil	15	28	0.51	294	0.052	2	1.21	0.017	0.08	0.1	0.04	3.7	<0.1	0.10	4	0.6	<0.2
ROS 163094	Soil	21	18	0.51	296	0.052	3	1.19	0.016	0.16	0.2	0.04	4.8	0.1	0.09	4	<0.5	<0.2
ROS 162886	Soil	18	27	0.60	196	0.083	<1	1.34	0.023	0.10	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
ROS 173118	Soil	13	33	0.55	236	0.094	<1	1.75	0.017	0.07	0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 173114	Soil	26	19	0.60	173	0.136	1	1.63	0.016	0.36	0.1	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
ROS 173116	Soil	18	27	0.51	196	0.102	<1	1.43	0.022	0.16	<0.1	0.02	3.9	0.1	<0.05	4	<0.5	<0.2
ROS 173117	Soil	17	29	0.49	240	0.088	1	1.48	0.018	0.08	0.1	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
ROS 173115	Soil	17	23	0.52	158	0.109	1	1.46	0.012	0.15	0.1	0.01	2.9	0.1	<0.05	4	<0.5	<0.2
ROS 163077	Soil	14	26	0.52	258	0.082	1	1.46	0.024	0.08	0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
ROS 159334	Soil	14	26	0.75	208	0.103	1	1.87	0.014	0.36	0.1	0.04	4.6	0.2	<0.05	6	<0.5	<0.2
ROS 173105	Soil	24	18	0.45	105	0.095	<1	1.48	0.009	0.18	0.1	0.03	2.7	0.1	<0.05	7	<0.5	<0.2
ROS 173104	Soil	21	20	0.58	152	0.095	1	1.57	0.010	0.29	<0.1	0.04	4.0	0.1	<0.05	7	0.5	<0.2
ROS 159666	Soil	19	23	0.47	179	0.073	1	1.32	0.019	0.14	0.2	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 160746	Soil	8	23	0.65	141	0.084	1	1.67	0.018	0.07	0.1	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
ROS 163061	Soil	10	23	0.92	170	0.130	<1	1.62	0.011	0.44	0.1	0.01	2.9	0.2	<0.05	5	<0.5	<0.2
ROS 163060	Soil	8	34	1.87	262	0.244	<1	2.85	0.014	1.18	0.2	0.01	3.1	0.4	<0.05	8	<0.5	<0.2
ROS 163062	Soil	12	19	0.65	173	0.099	1	1.56	0.013	0.26	0.2	0.05	3.3	0.1	<0.05	5	<0.5	<0.2
ROS 160751	Soil	27	19	0.61	154	0.073	<1	1.56	0.008	0.33	<0.1	0.05	4.9	0.3	<0.05	6	<0.5	<0.2
ROS 164488	Soil	29	18	1.02	219	0.117	<1	1.84	0.009	0.49	0.1	<0.01	2.4	0.6	<0.05	5	<0.5	<0.2
ROS 160748	Soil	9	22	0.43	118	0.031	1	1.08	0.010	0.03	<0.1	0.04	3.8	<0.1	<0.05	4	1.0	<0.2
ROS 160749	Soil	6	25	0.40	110	0.031	<1	1.36	0.010	0.04	<0.1	0.02	8.5	<0.1	<0.05	6	0.5	<0.2
ROS 160747	Soil	11	29	0.43	130	0.033	<1	1.38	0.010	0.05	<0.1	0.04	4.6	<0.1	<0.05	5	1.1	<0.2
ROS 160750	Soil	21	128	1.69	190	0.097	<1	2.49	0.018	0.32	<0.1	0.01	7.0	<0.1	<0.05	13	1.2	<0.2
ROS 164489	Soil	21	17	0.97	138	0.138	<1	1.95	0.007	0.79	0.1	<0.01	2.8	0.4	<0.05	6	<0.5	<0.2
ROS 164491	Soil	82	16	0.82	102	0.122	2	1.61	0.007	0.61	0.1	<0.01	5.9	0.5	<0.05	10	<0.5	<0.2
ROS 163066	Soil	14	23	0.59	105	0.132	<1	2.13	0.011	0.16	0.1	0.02	3.2	0.2	<0.05	8	<0.5	<0.2
ROS 163064	Soil	26	27	0.92	153	0.147	1	2.07	0.011	0.53	0.1	0.04	6.4	0.2	<0.05	8	0.7	<0.2
ROS 163063	Soil	17	24	0.74	178	0.117	<1	2.06	0.010	0.34	0.1	0.05	4.4	0.2	<0.05	8	<0.5	<0.2
ROS 163068	Soil	17	20	0.59	96	0.120	<1	1.86	0.012	0.17	0.1	0.03	2.5	0.1	<0.05	7	<0.5	<0.2

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Project: ROS
 Report Date: November 15, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163235	Soil	1.9	20.1	4.5	43	0.1	15.8	6.4	496	1.33	5.1	1.3	1.0	1.0	105	0.5	0.4	0.1	32	2.65	0.087
ROS 163234	Soil	2.2	24.2	7.7	50	0.1	20.5	8.5	298	2.12	8.6	1.5	2.4	2.8	70	0.2	0.6	0.2	51	1.30	0.074
ROS 160987	Soil	0.5	10.5	3.2	61	<0.1	9.6	7.6	647	2.91	1.6	1.1	<0.5	12.3	12	<0.1	0.2	<0.1	39	0.24	0.069
ROS 160990	Soil	0.8	10.6	4.5	50	<0.1	7.3	5.3	267	1.96	2.0	1.1	1.8	9.0	23	<0.1	0.2	0.2	32	0.45	0.056
ROS 163086	Soil	1.5	32.1	7.9	60	0.1	23.3	9.2	292	2.74	7.2	1.3	2.4	10.2	30	<0.1	0.5	0.2	62	0.47	0.035
ROS 163089	Soil	2.1	21.3	6.3	64	<0.1	15.7	8.3	465	2.75	4.7	1.5	1.6	11.6	26	0.1	0.3	0.2	51	0.44	0.057
ROS 163085	Soil	1.7	11.9	4.2	57	<0.1	9.2	5.4	315	2.33	3.5	1.2	<0.5	16.4	12	<0.1	0.2	0.1	31	0.25	0.041
ROS 163236	Soil	1.8	20.3	6.0	52	0.1	16.4	8.5	468	1.93	5.8	1.1	1.1	2.8	53	0.2	0.4	0.1	45	1.22	0.068
ROS 163070	Soil	0.5	16.5	6.0	49	<0.1	12.1	7.9	276	2.27	4.0	1.3	2.4	6.9	32	<0.1	0.3	0.1	50	0.35	0.035
ROS 163084	Soil	1.4	29.6	6.4	51	<0.1	30.3	11.2	546	2.29	6.2	2.0	4.6	2.8	55	0.2	0.5	<0.1	54	1.35	0.100
ROS 163088	Soil	1.1	14.8	6.4	45	<0.1	14.1	6.8	216	2.17	6.2	0.7	1.5	5.8	22	<0.1	0.3	0.1	52	0.32	0.040
ROS 163087	Soil	1.1	11.9	5.9	48	<0.1	11.8	5.2	155	2.22	5.8	1.1	0.9	11.8	15	<0.1	0.4	0.2	39	0.25	0.047
ROS 163065	Soil	0.9	15.4	7.9	68	0.1	12.3	8.5	462	2.84	5.5	2.3	2.2	8.3	26	0.1	0.3	0.2	57	0.27	0.044
ROS 163069	Soil	1.0	24.1	8.1	70	0.2	15.5	10.2	460	2.90	7.1	3.2	1.2	6.8	38	0.2	0.4	0.2	58	0.40	0.052
ROS 163071	Soil	0.5	48.0	5.2	49	<0.1	8.7	6.9	332	2.57	3.4	0.8	<0.5	4.7	32	<0.1	0.2	0.1	54	0.34	0.037
ROS 163067	Soil	0.9	12.2	6.4	61	<0.1	10.9	7.6	420	2.74	4.9	2.0	2.4	8.1	20	<0.1	0.3	0.1	51	0.24	0.038
ROS 162870	Soil	1.1	12.4	12.8	108	0.1	10.2	7.9	1125	2.61	3.6	2.2	<0.5	12.3	30	0.3	0.2	0.2	40	0.82	0.067
ROS 163289	Soil	0.5	16.6	7.8	63	<0.1	12.3	6.7	363	2.02	3.5	1.9	1.6	4.8	31	0.2	0.3	0.1	36	0.75	0.063
ROS 163290	Soil	0.8	11.2	6.1	85	<0.1	9.1	8.2	467	2.92	3.8	1.0	<0.5	8.6	21	<0.1	0.3	0.1	47	0.36	0.038
ROS 163291	Soil	0.7	27.2	8.3	50	<0.1	23.5	9.0	349	2.39	8.3	0.7	1.6	4.2	33	0.1	0.6	0.1	47	0.49	0.050
ROS 163292	Soil	0.8	16.6	4.9	72	<0.1	10.7	10.8	542	3.67	4.5	1.1	<0.5	8.7	23	<0.1	0.3	0.1	59	0.43	0.077
ROS 163294	Soil	0.9	11.2	8.1	69	<0.1	15.3	8.1	261	2.50	5.5	0.4	1.4	4.4	19	0.2	0.4	0.2	51	0.22	0.032
ROS 163295	Soil	0.8	10.3	6.6	47	<0.1	9.3	5.8	401	2.31	5.2	0.7	<0.5	8.5	16	<0.1	0.3	0.2	35	0.19	0.030
ROS 163293	Soil	0.7	21.2	7.5	59	<0.1	16.7	7.9	289	2.32	7.5	0.9	1.5	4.3	36	<0.1	0.4	0.1	49	0.47	0.057
ROS 163296	Soil	0.8	16.2	8.8	65	<0.1	12.8	10.7	717	3.41	5.4	1.7	1.8	14.4	18	<0.1	0.3	0.1	53	0.37	0.054
ROS 163297	Soil	1.3	80.1	15.3	63	0.2	4.7	10.5	778	3.58	2.7	2.0	1.6	21.9	16	<0.1	0.2	2.0	39	0.27	0.032
ROS 163298	Soil	1.4	25.4	7.0	67	<0.1	16.6	9.1	548	3.24	4.8	1.6	1.9	11.2	26	<0.1	0.7	0.4	52	0.35	0.029
ROS 161001	Soil	1.5	12.6	8.1	73	<0.1	11.3	10.8	983	3.64	4.1	1.3	0.5	13.7	18	<0.1	0.3	0.1	56	0.27	0.053
ROS 161002	Soil	0.9	19.6	7.7	53	<0.1	15.6	7.6	499	2.25	6.4	2.4	3.6	5.1	67	<0.1	0.4	0.2	44	0.62	0.063
ROS 164494	Soil	0.5	12.2	58.5	133	<0.1	9.6	6.3	868	2.79	3.3	3.1	<0.5	25.1	15	<0.1	0.3	0.7	34	0.29	0.051

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 163235	Soil	8	18	0.39	300	0.023	3	0.87	0.014	0.03	<0.1	0.05	1.6	<0.1	0.14	3	1.3	<0.2
ROS 163234	Soil	14	26	0.67	263	0.046	2	1.38	0.015	0.05	<0.1	0.06	3.3	<0.1	<0.05	5	1.4	<0.2
ROS 160987	Soil	14	14	0.60	108	0.117	<1	1.34	0.008	0.59	<0.1	<0.01	5.3	0.2	<0.05	7	<0.5	<0.2
ROS 160990	Soil	17	13	0.33	81	0.081	1	1.05	0.010	0.26	0.1	0.02	3.0	0.2	<0.05	5	<0.5	<0.2
ROS 163086	Soil	33	35	0.57	215	0.095	1	1.93	0.017	0.09	<0.1	0.05	6.0	<0.1	<0.05	6	0.6	<0.2
ROS 163089	Soil	33	24	0.54	220	0.091	1	1.63	0.011	0.27	0.2	0.03	4.9	0.2	<0.05	6	0.6	<0.2
ROS 163085	Soil	19	11	0.31	96	0.059	<1	0.96	0.013	0.20	<0.1	<0.01	4.2	0.1	<0.05	5	0.7	<0.2
ROS 163236	Soil	14	23	0.48	221	0.052	<1	1.23	0.013	0.04	0.2	0.04	2.9	<0.1	<0.05	4	0.6	<0.2
ROS 163070	Soil	24	22	0.53	164	0.117	<1	1.62	0.012	0.14	0.1	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 163084	Soil	16	34	0.67	266	0.069	1	1.47	0.018	0.05	<0.1	0.05	3.4	<0.1	<0.05	5	1.5	<0.2
ROS 163088	Soil	16	27	0.43	167	0.075	<1	1.34	0.011	0.09	0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163087	Soil	20	17	0.24	87	0.034	1	0.95	0.009	0.05	0.3	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
ROS 163065	Soil	36	20	0.66	158	0.133	1	2.20	0.010	0.23	0.2	0.03	3.8	0.2	0.05	8	<0.5	<0.2
ROS 163069	Soil	45	25	0.55	230	0.105	1	2.26	0.011	0.15	0.2	0.04	4.0	0.1	<0.05	7	<0.5	<0.2
ROS 163071	Soil	14	16	0.60	122	0.127	<1	1.72	0.011	0.33	0.1	0.01	2.6	0.1	<0.05	6	<0.5	<0.2
ROS 163067	Soil	29	18	0.74	140	0.117	<1	1.90	0.009	0.20	0.1	0.02	3.2	0.2	<0.05	7	<0.5	<0.2
ROS 162870	Soil	49	15	0.53	209	0.075	1	1.36	0.011	0.30	0.2	0.05	5.4	0.2	<0.05	6	0.6	<0.2
ROS 163289	Soil	20	18	0.54	296	0.064	2	1.16	0.013	0.18	0.2	0.04	3.6	0.1	<0.05	4	<0.5	<0.2
ROS 163290	Soil	14	16	0.96	204	0.111	1	1.82	0.008	0.44	<0.1	0.01	4.3	0.2	<0.05	7	<0.5	<0.2
ROS 163291	Soil	15	27	0.54	283	0.064	1	1.37	0.024	0.06	0.1	0.03	3.7	<0.1	<0.05	4	0.6	<0.2
ROS 163292	Soil	25	13	1.10	253	0.149	2	1.86	0.012	0.62	0.2	0.01	4.7	0.2	<0.05	7	0.6	<0.2
ROS 163294	Soil	8	26	0.38	185	0.056	1	1.55	0.009	0.15	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 163295	Soil	11	15	0.42	158	0.040	<1	1.40	0.007	0.25	0.4	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 163293	Soil	15	25	0.52	247	0.076	1	1.50	0.026	0.07	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 163296	Soil	42	17	0.73	166	0.097	1	1.66	0.012	0.30	0.2	0.02	5.9	0.2	<0.05	7	0.8	<0.2
ROS 163297	Soil	82	6	0.56	82	0.045	1	1.45	0.007	0.26	0.2	0.02	6.2	0.2	0.07	6	1.0	<0.2
ROS 163298	Soil	34	20	0.66	390	0.065	1	2.11	0.014	0.21	0.1	0.02	6.1	<0.1	<0.05	7	0.6	<0.2
ROS 161001	Soil	51	14	0.92	234	0.130	<1	2.19	0.010	0.75	<0.1	0.02	6.1	0.2	<0.05	8	0.6	<0.2
ROS 161002	Soil	20	22	0.46	255	0.066	<1	1.41	0.014	0.10	0.2	0.03	3.8	<0.1	<0.05	4	0.7	<0.2
ROS 164494	Soil	72	12	0.64	103	0.077	1	1.56	0.010	0.36	0.3	0.03	6.2	0.2	<0.05	8	0.7	<0.2

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 164490	Soil		0.8	19.9	17.8	88	<0.1	9.2	11.7	951	3.59	3.1	4.8	<0.5	39.2	14	<0.1	0.3	0.4	45	0.32	0.084
ROS 160752	Soil		1.2	30.6	124.1	212	<0.1	16.4	20.1	1233	4.06	6.1	0.8	1.2	3.9	29	0.6	0.3	0.2	97	0.44	0.069
ROS 162779	Soil		0.6	22.5	6.8	46	<0.1	17.0	7.0	215	1.96	6.3	1.8	1.3	3.5	48	0.3	0.5	0.1	43	1.12	0.077
ROS 160983	Soil		1.8	27.2	20.6	45	<0.1	6.6	7.1	589	2.03	3.4	1.5	<0.5	54.0	7	0.2	1.7	0.2	21	0.14	0.030
ROS 162781	Soil		2.3	23.0	7.9	55	<0.1	18.0	9.7	491	2.40	8.0	1.3	2.5	5.4	44	0.2	0.5	0.2	49	0.77	0.062
ROS 160986	Soil		0.7	11.3	6.0	55	<0.1	11.0	6.1	759	2.99	4.7	1.7	0.6	23.0	14	<0.1	0.4	<0.1	37	0.33	0.071
ROS 173125	Soil		1.3	29.2	4.9	46	<0.1	16.5	8.2	315	1.92	3.1	3.7	<0.5	2.9	59	0.3	0.4	<0.1	45	1.85	0.082
ROS 160985	Soil		1.0	57.7	8.0	73	<0.1	10.1	10.5	582	2.98	3.8	2.0	<0.5	26.6	23	<0.1	0.3	0.1	42	0.27	0.051
ROS 160975	Soil		6.1	9.5	7.5	23	0.1	2.5	1.5	69	4.75	2.2	0.5	1.5	12.0	53	<0.1	<0.1	0.7	10	0.14	0.035
ROS 160984	Soil		0.9	28.6	16.6	115	<0.1	12.2	11.8	538	3.42	3.7	1.8	0.8	28.6	34	<0.1	0.3	<0.1	45	0.40	0.069
ROS 164500	Soil		0.7	20.9	9.1	83	<0.1	15.9	10.3	587	2.84	6.3	1.0	1.4	7.5	24	0.1	0.4	0.2	53	0.40	0.044
ROS 160686	Soil		0.4	21.5	17.2	148	<0.1	51.6	22.0	972	4.09	3.5	1.2	1.2	15.2	32	<0.1	0.2	0.2	54	0.57	0.055
ROS 164497	Soil		0.5	15.6	11.9	132	<0.1	9.5	8.2	750	3.08	3.7	1.3	1.7	11.6	16	<0.1	0.3	0.1	47	0.29	0.042
ROS 162778	Soil		0.7	17.8	7.6	40	<0.1	15.2	8.6	206	2.30	9.1	1.3	1.6	4.2	40	<0.1	0.3	0.1	47	0.72	0.058
ROS 164499	Soil		0.9	15.8	8.9	69	<0.1	16.1	7.7	340	2.73	8.5	0.6	0.6	4.8	19	<0.1	0.5	0.1	56	0.26	0.019
ROS 160684	Soil		0.9	22.3	7.2	74	<0.1	11.1	7.4	535	2.61	4.6	0.7	0.9	7.5	19	0.1	0.3	0.3	41	0.40	0.065
ROS 160685	Soil		0.9	19.8	15.3	88	<0.1	19.8	12.0	811	2.45	4.1	1.3	0.7	8.4	26	0.3	0.2	0.2	38	0.60	0.065
ROS 160687	Soil		1.0	36.5	17.2	102	<0.1	35.8	15.4	555	4.27	5.9	1.5	2.0	17.0	22	<0.1	0.5	0.2	78	0.30	0.023
ROS 160744	Soil		1.5	34.9	5.9	72	<0.1	15.6	9.2	512	3.18	3.0	2.0	1.1	15.7	42	<0.1	0.3	0.2	51	0.25	0.022
ROS 164492	Soil		1.2	15.9	11.8	67	<0.1	20.4	10.0	596	2.95	7.8	1.1	1.1	9.9	26	<0.1	0.5	0.2	55	0.43	0.043
ROS 164493	Soil		1.0	16.2	7.2	76	<0.1	9.3	8.4	1161	3.27	1.1	2.4	1.8	27.5	13	<0.1	0.2	0.2	36	0.22	0.068
ROS 164495	Soil		1.2	30.7	12.0	84	0.1	27.0	10.8	450	2.89	8.6	1.5	4.0	7.7	38	0.3	0.8	0.2	55	0.59	0.072
ROS 159228	Soil		0.8	26.8	9.2	60	<0.1	22.9	10.0	408	2.52	7.8	1.1	2.3	4.9	49	0.1	0.7	0.2	55	0.69	0.070
ROS 159226	Soil		0.7	35.7	10.5	63	0.1	28.9	11.0	462	2.69	9.0	0.8	3.9	4.9	45	0.1	0.8	0.2	58	0.62	0.064
ROS 159231	Soil		0.8	26.1	12.5	79	<0.1	12.1	14.1	635	3.76	2.7	3.1	2.8	18.5	33	0.1	0.4	0.3	75	0.80	0.078
ROS 160745	Soil		2.8	42.6	8.3	81	0.1	14.7	11.2	348	2.62	2.5	7.8	10.0	4.1	43	0.2	0.2	0.1	62	0.62	0.056
ROS 159229	Soil		1.7	32.9	8.3	67	<0.1	12.2	9.9	421	2.99	3.8	2.6	3.4	12.5	47	<0.1	0.3	0.3	51	0.49	0.063
ROS 159230	Soil		1.9	37.4	9.1	82	0.1	13.1	10.8	399	2.62	3.0	2.4	2.2	4.8	48	0.2	0.2	0.1	61	0.69	0.063
ROS 159227	Soil		1.0	30.0	9.4	66	<0.1	28.2	10.8	478	2.69	8.7	0.9	7.7	4.5	46	0.1	0.7	0.1	59	0.66	0.077
ROS 163470	Soil		0.9	33.4	11.0	67	0.1	29.0	10.8	455	2.68	8.2	1.3	2.1	5.4	45	0.3	0.7	0.2	59	0.73	0.062

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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

WHI10000632.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 164490	Soil	89	14	0.86	113	0.134	1	1.64	0.007	0.73	0.1	0.01	6.4	0.5	<0.05	10	0.7	<0.2
ROS 160752	Soil	12	31	1.42	449	0.161	<1	2.54	0.009	0.79	<0.1	0.01	6.0	0.5	<0.05	7	<0.5	<0.2
ROS 162779	Soil	16	23	0.44	179	0.052	2	1.19	0.016	0.06	0.1	0.04	3.6	<0.1	<0.05	4	1.1	<0.2
ROS 160983	Soil	44	8	0.10	57	0.008	<1	0.58	0.007	0.05	0.2	0.08	2.7	<0.1	<0.05	3	0.7	<0.2
ROS 162781	Soil	29	25	0.50	258	0.060	<1	1.39	0.012	0.08	0.1	0.05	3.7	<0.1	<0.05	5	0.8	<0.2
ROS 160986	Soil	19	14	0.38	101	0.069	1	1.34	0.007	0.33	0.1	<0.01	7.0	0.2	<0.05	6	0.6	<0.2
ROS 173125	Soil	14	21	0.85	183	0.043	2	1.39	0.014	0.08	<0.1	0.04	3.4	<0.1	0.05	5	2.5	<0.2
ROS 160985	Soil	16	15	0.83	88	0.098	<1	1.62	0.008	0.36	0.5	<0.01	3.1	0.2	<0.05	8	<0.5	<0.2
ROS 160975	Soil	30	5	0.12	120	0.007	<1	0.59	0.152	0.71	<0.1	0.02	1.0	0.2	1.64	3	1.3	<0.2
ROS 160984	Soil	56	19	0.86	137	0.107	<1	1.89	0.009	0.43	0.1	<0.01	3.6	0.4	<0.05	9	<0.5	<0.2
ROS 164500	Soil	21	22	0.66	246	0.097	1	1.56	0.013	0.26	<0.1	0.02	5.1	0.2	<0.05	6	0.6	<0.2
ROS 160686	Soil	55	53	1.79	343	0.190	2	2.93	0.010	0.91	<0.1	0.01	5.1	0.6	<0.05	8	<0.5	<0.2
ROS 164497	Soil	37	11	1.10	253	0.139	<1	1.86	0.012	0.49	0.1	0.02	5.7	0.3	<0.05	8	<0.5	<0.2
ROS 162778	Soil	16	25	0.47	158	0.065	1	1.30	0.017	0.08	0.2	0.04	3.5	<0.1	<0.05	4	0.6	<0.2
ROS 164499	Soil	9	27	0.57	187	0.099	2	1.62	0.010	0.28	0.1	<0.01	3.6	0.1	<0.05	5	<0.5	<0.2
ROS 160684	Soil	14	18	0.61	218	0.087	1	1.41	0.011	0.37	0.1	<0.01	4.0	0.2	<0.05	5	<0.5	<0.2
ROS 160685	Soil	23	26	0.65	312	0.081	1	1.24	0.012	0.42	0.2	0.03	3.6	0.2	<0.05	4	<0.5	<0.2
ROS 160687	Soil	51	53	1.25	331	0.179	2	2.42	0.011	0.62	0.1	0.02	6.5	0.3	<0.05	7	0.5	<0.2
ROS 160744	Soil	45	16	0.85	154	0.190	1	1.87	0.018	0.55	0.2	0.02	3.5	0.3	<0.05	6	<0.5	<0.2
ROS 164492	Soil	10	34	0.54	189	0.100	2	1.60	0.015	0.25	0.2	0.02	3.9	0.1	<0.05	5	0.7	0.3
ROS 164493	Soil	72	9	0.59	120	0.124	<1	1.38	0.007	0.67	0.1	0.02	6.0	0.4	<0.05	8	0.5	<0.2
ROS 164495	Soil	25	31	0.57	309	0.085	2	1.70	0.023	0.09	0.2	0.04	3.9	<0.1	<0.05	5	0.8	<0.2
ROS 159228	Soil	15	28	0.57	311	0.085	2	1.47	0.029	0.06	0.2	0.04	3.2	<0.1	<0.05	4	0.7	<0.2
ROS 159226	Soil	15	32	0.64	336	0.083	2	1.58	0.032	0.07	0.2	0.03	3.8	<0.1	<0.05	5	0.5	<0.2
ROS 159231	Soil	65	24	1.07	139	0.057	<1	1.82	0.009	0.25	0.1	0.03	7.3	0.1	<0.05	8	0.7	<0.2
ROS 160745	Soil	15	26	0.81	195	0.135	<1	1.62	0.020	0.38	0.3	0.02	2.7	0.2	0.13	5	1.1	<0.2
ROS 159229	Soil	25	20	0.62	197	0.138	<1	1.94	0.017	0.37	0.1	0.02	3.6	0.2	<0.05	7	0.6	<0.2
ROS 159230	Soil	14	24	0.79	183	0.136	2	1.64	0.018	0.36	0.3	0.02	2.8	0.1	0.08	5	0.9	<0.2
ROS 159227	Soil	14	31	0.64	331	0.086	1	1.51	0.032	0.07	0.2	0.03	3.7	<0.1	<0.05	5	0.6	<0.2
ROS 163470	Soil	17	35	0.60	308	0.095	2	1.54	0.028	0.10	0.2	0.04	3.8	<0.1	<0.05	5	0.8	<0.2

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Project: ROS
 Report Date: November 15, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 164498	Soil	1.2	20.7	14.9	111	<0.1	19.2	12.8	870	3.56	6.0	1.3	1.6	10.0	20	0.2	0.4	0.1	70	0.23	0.036
ROS 160688	Soil	1.1	41.6	17.2	111	<0.1	39.3	17.8	692	3.89	6.0	1.0	2.7	13.8	30	0.2	0.6	0.3	71	0.47	0.068
ROS 163469	Soil	1.0	24.3	13.4	138	<0.1	24.3	12.4	755	4.01	4.4	1.7	2.3	13.6	30	0.1	0.5	0.3	67	0.41	0.070
ROS 160689	Soil	1.0	41.1	13.3	112	<0.1	36.4	16.4	775	4.43	6.3	1.4	2.3	13.0	35	<0.1	0.5	0.2	76	0.56	0.042
ROS 163228	Soil	3.4	72.5	10.6	115	<0.1	112.4	23.6	910	5.04	8.4	0.7	2.5	4.1	46	0.1	0.5	0.1	96	0.85	0.168
ROS 163230	Soil	4.9	65.7	7.1	120	0.2	107.2	29.0	649	6.18	3.7	1.4	5.7	4.3	62	0.3	0.4	0.1	137	1.30	0.248
ROS 163232	Soil	5.3	48.9	8.4	74	0.2	43.4	13.1	496	2.89	6.8	3.9	1.6	2.8	72	0.6	0.5	0.1	81	1.38	0.111
ROS 164496	Soil	0.9	27.6	10.9	78	0.1	24.9	10.3	453	2.57	7.6	2.4	2.7	6.5	46	0.2	0.8	0.3	51	0.76	0.074
ROS 163222	Soil	1.0	24.2	9.4	71	<0.1	18.0	8.9	288	2.86	7.0	1.8	5.2	7.4	34	<0.1	0.5	0.2	62	0.33	0.041
ROS 163226	Soil	1.5	43.5	14.2	125	<0.1	33.4	11.3	443	3.50	11.7	1.4	5.1	8.1	56	0.3	0.8	0.2	78	0.64	0.057
ROS 163224	Soil	0.9	28.2	9.6	58	<0.1	23.6	10.1	335	2.75	7.3	1.7	3.3	6.2	38	<0.1	0.6	0.2	62	0.41	0.041
ROS 163233	Soil	3.2	38.7	8.6	68	0.2	36.8	11.3	654	2.62	6.3	2.3	3.4	2.7	69	0.6	0.5	0.1	73	1.78	0.097
ROS 163225	Soil	0.9	31.7	10.7	75	<0.1	25.4	10.6	381	2.84	7.6	1.1	2.7	6.4	48	0.1	0.8	0.2	68	0.50	0.040
ROS 163227	Soil	0.7	20.2	9.6	71	<0.1	14.3	11.0	474	3.06	5.1	0.8	1.5	8.0	64	<0.1	0.4	<0.1	62	0.82	0.072
ROS 163229	Soil	2.9	46.0	12.3	82	0.2	52.1	13.5	419	3.29	8.2	0.7	3.8	5.1	50	0.1	0.7	0.2	77	0.69	0.075
ROS 163231	Soil	38.2	93.7	16.6	391	0.6	134.7	32.8	746	4.26	10.1	3.3	2.8	4.3	74	4.2	0.4	0.2	214	0.92	0.143
ROS 163223	Soil	0.8	26.2	7.7	61	<0.1	15.7	9.0	309	2.52	5.5	1.7	2.9	7.6	39	<0.1	0.5	0.2	57	0.34	0.038
ROS 162593	Soil	3.0	202.2	29.9	165	0.1	12.0	8.9	940	3.86	11.4	1.4	3.2	13.3	17	0.1	0.2	4.4	52	0.20	0.051
ROS 162591	Soil	1.1	36.0	12.3	75	0.2	27.9	12.4	579	2.94	8.9	0.7	3.0	6.7	42	0.2	0.8	0.2	64	0.58	0.063
ROS 162592	Soil	2.5	19.3	15.5	109	<0.1	15.3	10.3	663	3.75	4.6	1.7	4.1	20.5	32	0.1	0.3	0.5	45	0.22	0.060



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Project: ROS
 Report Date: November 15, 2010

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
ROS 164498	Soil	15	38	0.90	236	0.144	1	2.02	0.014	0.61	0.1	0.01	5.0	0.2	<0.05	7	0.6	<0.2
ROS 160688	Soil	36	50	0.95	350	0.133	<1	2.12	0.025	0.51	0.1	0.02	6.1	0.3	<0.05	7	0.5	<0.2
ROS 163469	Soil	40	37	1.21	313	0.169	<1	2.24	0.016	0.82	0.1	0.02	6.8	0.3	<0.05	8	0.8	<0.2
ROS 160689	Soil	24	49	1.24	333	0.144	<1	2.47	0.018	0.35	0.3	0.02	6.4	0.2	<0.05	9	0.6	<0.2
ROS 163228	Soil	19	150	1.16	244	0.060	<1	2.17	0.015	0.09	<0.1	0.03	9.8	<0.1	<0.05	10	1.0	<0.2
ROS 163230	Soil	23	141	1.25	273	0.061	<1	2.65	0.019	0.14	<0.1	0.03	7.9	<0.1	<0.05	12	0.9	<0.2
ROS 163232	Soil	21	44	0.71	389	0.068	1	1.75	0.021	0.05	0.1	0.05	4.3	<0.1	<0.05	6	2.9	<0.2
ROS 164496	Soil	21	29	0.56	298	0.090	2	1.53	0.022	0.14	0.2	0.05	3.6	<0.1	<0.05	5	0.9	<0.2
ROS 163222	Soil	23	32	0.56	233	0.115	<1	1.93	0.016	0.10	0.2	0.03	3.7	0.1	<0.05	6	0.6	0.4
ROS 163226	Soil	19	45	0.78	337	0.117	1	2.09	0.024	0.13	<0.1	0.04	5.9	0.1	<0.05	8	0.7	<0.2
ROS 163224	Soil	17	35	0.55	310	0.114	<1	1.76	0.019	0.09	0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
ROS 163233	Soil	14	38	1.51	407	0.088	2	1.87	0.018	0.06	<0.1	0.04	4.3	<0.1	0.06	6	2.3	0.3
ROS 163225	Soil	16	37	0.62	305	0.137	<1	1.93	0.029	0.12	0.1	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 163227	Soil	21	21	0.83	203	0.196	<1	2.23	0.014	0.33	<0.1	0.04	3.5	0.1	<0.05	8	<0.5	<0.2
ROS 163229	Soil	17	63	0.71	218	0.105	2	2.10	0.027	0.09	0.1	0.03	5.5	<0.1	<0.05	7	0.7	<0.2
ROS 163231	Soil	30	48	1.11	242	0.006	<1	2.21	0.012	0.04	0.2	0.03	6.1	<0.1	<0.05	9	9.2	<0.2
ROS 163223	Soil	21	27	0.56	239	0.130	<1	1.75	0.017	0.16	0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
ROS 162593	Soil	13	18	0.46	182	0.090	<1	2.00	0.009	0.39	0.5	0.02	5.0	0.5	<0.05	7	<0.5	<0.2
ROS 162591	Soil	21	33	0.64	365	0.100	<1	1.66	0.030	0.13	0.2	0.03	4.2	0.1	<0.05	6	0.6	<0.2
ROS 162592	Soil	23	25	0.38	240	0.039	<1	1.58	0.016	0.23	0.2	0.06	4.4	0.1	0.10	5	0.8	<0.2



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Project: ROS
 Report Date: November 15, 2010

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QUALITY CONTROL REPORT

WHI10000632.1

Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 159472	Soil	0.7	23.2	7.6	69	0.1	17.0	10.0	722	2.63	4.1	4.1	2.2	8.9	26	0.1	0.3	0.2	48	0.59	0.068
REP ROS 159472	QC	0.8	21.7	7.5	66	0.1	16.7	9.6	708	2.56	4.0	4.1	1.8	9.0	25	0.2	0.3	0.2	47	0.57	0.065
ROS 162667	Soil	0.7	21.5	8.4	79	<0.1	21.5	12.6	473	3.21	6.0	1.3	1.3	7.4	25	<0.1	0.4	0.2	69	0.55	0.060
REP ROS 162667	QC	0.7	21.5	8.0	78	<0.1	21.9	12.5	470	3.21	6.1	1.3	5.7	7.4	26	<0.1	0.4	0.2	68	0.55	0.058
ROS 160988	Soil	0.6	12.5	7.1	77	<0.1	10.3	6.9	685	3.45	4.3	1.8	<0.5	25.8	10	<0.1	0.3	0.1	44	0.11	0.031
REP ROS 160988	QC	0.7	13.1	7.4	79	<0.1	10.9	6.9	691	3.55	4.3	1.8	3.2	25.4	10	<0.1	0.3	0.1	44	0.11	0.032
ROS 159942	Soil	0.8	28.1	8.1	61	<0.1	21.7	10.5	383	2.76	6.5	0.7	2.4	5.6	37	<0.1	0.4	0.1	58	0.47	0.048
REP ROS 159942	QC	0.7	27.6	8.3	60	<0.1	21.5	9.7	369	2.66	6.5	0.7	1.2	5.8	36	<0.1	0.5	0.1	58	0.47	0.047
ROS 163281	Soil	0.9	26.1	9.7	72	<0.1	20.6	10.6	493	2.73	6.2	0.7	3.1	5.5	29	0.1	0.6	0.2	55	0.46	0.039
REP ROS 163281	QC	0.8	26.3	9.7	69	<0.1	21.0	10.6	483	2.89	5.4	0.7	2.9	5.4	29	0.1	0.6	0.2	57	0.47	0.037
ROS 159362	Soil	1.4	17.2	8.4	58	<0.1	16.6	8.7	424	2.60	4.7	1.3	1.8	10.3	22	<0.1	0.5	0.2	58	0.31	0.031
REP ROS 159362	QC	1.2	16.6	7.8	54	<0.1	16.9	8.6	397	2.53	3.9	1.2	1.5	9.5	20	<0.1	0.5	0.1	59	0.30	0.029
ROS 162688	Soil	0.7	18.6	7.5	62	<0.1	16.4	8.7	234	2.42	9.8	1.1	2.5	3.9	40	0.2	0.5	0.2	50	0.73	0.064
REP ROS 162688	QC	0.7	18.6	7.4	63	<0.1	16.3	8.4	243	2.38	9.7	1.1	5.2	3.8	39	0.2	0.4	0.2	48	0.73	0.063
ROS 151021	Soil	0.3	18.1	6.0	57	<0.1	17.1	9.5	432	2.21	6.4	0.8	5.0	2.7	31	<0.1	0.4	0.1	47	0.69	0.053
REP ROS 151021	QC	0.3	18.9	6.0	56	<0.1	16.7	9.8	435	2.21	6.3	0.8	2.7	2.6	29	<0.1	0.4	0.1	46	0.66	0.053
ROS 159962	Soil	1.8	17.5	7.3	62	<0.1	14.6	6.2	351	2.05	6.1	1.3	2.8	3.8	33	0.2	0.4	0.2	43	0.66	0.064
REP ROS 159962	QC	2.0	17.4	7.6	61	<0.1	14.8	6.5	362	2.11	6.0	1.3	4.3	3.8	36	0.2	0.4	0.2	43	0.66	0.067
ROS 159521	Soil	0.8	20.9	6.5	55	<0.1	11.9	7.1	195	2.27	5.6	0.7	11.3	1.8	20	0.1	0.3	0.1	53	0.22	0.050
REP ROS 159521	QC	0.9	21.1	7.0	56	<0.1	12.1	6.8	187	2.26	5.6	0.7	4.1	1.8	19	0.1	0.3	0.1	51	0.20	0.051
ROS 162744	Soil	0.8	16.0	7.7	51	<0.1	16.9	7.5	237	2.59	7.4	0.8	2.0	6.5	19	<0.1	0.7	0.2	58	0.24	0.017
REP ROS 162744	QC	0.8	16.2	8.0	52	<0.1	17.3	7.8	242	2.65	7.3	0.9	2.3	6.5	19	<0.1	0.6	0.1	57	0.23	0.016
ROS 159969	Soil	1.1	28.9	7.9	65	<0.1	19.9	8.5	234	2.44	6.0	3.2	1.7	7.0	33	0.3	0.5	0.2	51	0.53	0.068
REP ROS 159969	QC	1.1	28.6	7.9	64	<0.1	19.2	8.8	239	2.53	6.2	3.2	2.1	7.1	33	0.4	0.5	0.2	53	0.55	0.068
ROS 160747	Soil	3.8	19.8	6.5	80	0.1	16.3	7.9	390	2.34	4.6	1.4	2.3	1.9	29	0.3	0.2	0.1	53	0.54	0.072
REP ROS 160747	QC	3.4	18.3	5.9	79	0.1	15.7	7.7	398	2.29	4.5	1.3	0.7	1.9	30	0.3	0.2	0.1	51	0.54	0.073
ROS 163064	Soil	2.6	48.8	5.4	76	0.3	12.4	9.0	391	2.96	2.7	2.5	2.5	6.7	22	<0.1	0.1	0.1	69	0.20	0.053
REP ROS 163064	QC	2.6	47.4	5.2	70	0.3	10.9	8.6	384	2.78	2.4	2.4	0.8	6.4	21	<0.1	0.1	0.1	68	0.18	0.049

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.



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
ROS 159472	Soil	42	28	0.58	523	0.052	2	1.33	0.012	0.24	0.2	0.06	5.6	0.1	<0.05	5	0.6	<0.2
REP ROS 159472	QC	40	28	0.56	490	0.053	2	1.28	0.011	0.23	0.2	0.06	5.5	0.1	<0.05	5	0.6	<0.2
ROS 162667	Soil	15	33	0.72	289	0.102	<1	1.66	0.021	0.33	0.2	0.03	5.1	0.2	<0.05	6	<0.5	<0.2
REP ROS 162667	QC	16	32	0.72	283	0.099	<1	1.64	0.021	0.32	0.1	0.03	5.2	0.1	<0.05	6	<0.5	<0.2
ROS 160988	Soil	57	15	0.34	78	0.055	<1	1.60	0.007	0.29	<0.1	0.03	7.1	0.2	<0.05	7	<0.5	<0.2
REP ROS 160988	QC	56	15	0.35	80	0.056	<1	1.63	0.007	0.30	0.1	0.03	7.2	0.2	<0.05	7	<0.5	<0.2
ROS 159942	Soil	17	28	0.61	266	0.104	1	1.57	0.027	0.22	0.1	0.03	4.4	0.1	<0.05	5	<0.5	<0.2
REP ROS 159942	QC	18	28	0.59	267	0.107	2	1.62	0.030	0.22	0.1	0.03	4.3	0.1	<0.05	5	<0.5	<0.2
ROS 163281	Soil	18	28	0.55	311	0.087	<1	1.56	0.021	0.14	0.2	0.03	4.2	<0.1	<0.05	5	0.7	<0.2
REP ROS 163281	QC	18	28	0.54	313	0.086	<1	1.53	0.019	0.14	0.2	0.04	4.3	<0.1	<0.05	5	0.7	<0.2
ROS 159362	Soil	27	23	0.46	163	0.110	<1	1.69	0.015	0.17	0.2	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
REP ROS 159362	QC	26	24	0.46	164	0.106	<1	1.62	0.013	0.16	0.1	0.03	4.1	0.1	<0.05	6	0.5	<0.2
ROS 162688	Soil	14	22	0.54	176	0.066	1	1.28	0.018	0.10	0.1	0.04	3.4	<0.1	0.07	4	0.6	<0.2
REP ROS 162688	QC	14	23	0.52	173	0.066	2	1.30	0.018	0.10	0.2	0.04	3.4	<0.1	<0.05	4	0.7	<0.2
ROS 151021	Soil	11	22	0.72	211	0.075	<1	1.37	0.011	0.10	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
REP ROS 151021	QC	11	22	0.70	218	0.074	<1	1.34	0.012	0.10	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 159962	Soil	12	26	0.52	146	0.066	3	1.23	0.017	0.11	0.2	0.03	3.0	<0.1	0.06	4	<0.5	<0.2
REP ROS 159962	QC	13	26	0.51	146	0.066	3	1.24	0.018	0.11	0.3	0.04	3.1	<0.1	0.06	4	0.5	<0.2
ROS 159521	Soil	10	25	0.56	119	0.091	1	1.47	0.011	0.15	0.2	0.03	2.4	0.1	<0.05	5	<0.5	<0.2
REP ROS 159521	QC	10	23	0.58	120	0.087	1	1.44	0.011	0.15	0.2	0.03	2.3	0.1	0.05	5	<0.5	<0.2
ROS 162744	Soil	25	31	0.51	287	0.056	1	1.83	0.011	0.07	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
REP ROS 162744	QC	24	33	0.48	275	0.057	1	1.84	0.012	0.07	0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 159969	Soil	27	26	0.54	248	0.077	<1	1.47	0.019	0.11	0.2	0.06	4.0	<0.1	<0.05	5	0.8	<0.2
REP ROS 159969	QC	28	27	0.51	249	0.084	1	1.44	0.021	0.11	0.2	0.05	4.0	<0.1	<0.05	5	0.8	<0.2
ROS 160747	Soil	11	29	0.43	130	0.033	<1	1.38	0.010	0.05	<0.1	0.04	4.6	<0.1	<0.05	5	1.1	<0.2
REP ROS 160747	QC	11	27	0.41	126	0.032	<1	1.41	0.010	0.05	<0.1	0.03	4.5	<0.1	<0.05	5	1.3	<0.2
ROS 163064	Soil	26	27	0.92	153	0.147	1	2.07	0.011	0.53	0.1	0.04	6.4	0.2	<0.05	8	0.7	<0.2
REP ROS 163064	QC	26	25	0.86	150	0.141	<1	1.95	0.010	0.54	<0.1	0.05	6.3	0.2	<0.05	8	0.8	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.

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Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 15, 2010

Page: 2 of 3 Part 1

QUALITY CONTROL REPORT

WHI10000632.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 163289	Soil	0.5	16.6	7.8	63	<0.1	12.3	6.7	363	2.02	3.5	1.9	1.6	4.8	31	0.2	0.3	0.1	36	0.75	0.063
REP ROS 163289	QC	0.5	16.8	8.2	64	<0.1	12.1	6.8	372	2.05	3.6	1.8	0.6	4.6	32	0.2	0.3	0.1	35	0.76	0.062
ROS 160984	Soil	0.9	28.6	16.6	115	<0.1	12.2	11.8	538	3.42	3.7	1.8	0.8	28.6	34	<0.1	0.3	<0.1	45	0.40	0.069
REP ROS 160984	QC	0.9	27.0	16.7	114	<0.1	12.6	11.7	538	3.31	3.8	1.7	<0.5	26.2	34	<0.1	0.3	<0.1	44	0.40	0.069
ROS 159226	Soil	0.7	35.7	10.5	63	0.1	28.9	11.0	462	2.69	9.0	0.8	3.9	4.9	45	0.1	0.8	0.2	58	0.62	0.064
REP ROS 159226	QC	0.8	36.1	10.3	62	0.1	29.9	10.6	451	2.62	9.1	0.8	8.1	4.8	44	0.1	0.7	0.2	56	0.62	0.062
ROS 162591	Soil	1.1	36.0	12.3	75	0.2	27.9	12.4	579	2.94	8.9	0.7	3.0	6.7	42	0.2	0.8	0.2	64	0.58	0.063
REP ROS 162591	QC	0.9	36.4	12.6	78	0.1	28.9	12.8	591	3.06	9.6	0.8	2.4	6.8	43	0.2	0.8	0.2	65	0.61	0.065
Reference Materials																					
STD DS7	Standard	19.1	103.4	63.9	372	1.0	54.9	9.7	607	2.32	51.4	4.9	72.2	4.9	66	6.0	5.7	4.4	88	0.86	0.074
STD DS7	Standard	19.3	101.1	60.1	376	0.9	51.8	9.2	587	2.29	46.3	4.2	74.1	4.0	70	6.0	6.1	4.4	84	0.89	0.073
STD DS7	Standard	19.6	97.0	62.6	363	0.9	49.5	8.9	570	2.17	44.4	4.4	63.7	4.5	76	5.9	5.4	4.2	74	0.88	0.072
STD DS7	Standard	20.8	101.4	63.3	387	1.0	54.3	9.5	627	2.39	49.7	4.4	114.3	4.3	71	6.1	6.2	4.7	83	0.87	0.077
STD DS7	Standard	19.3	93.2	59.2	342	0.9	47.6	8.8	551	2.07	44.4	4.1	68.4	4.2	75	5.8	5.6	4.2	72	0.86	0.073
STD DS7	Standard	18.0	103.8	65.1	383	0.9	52.6	8.9	600	2.30	47.2	4.5	70.1	4.2	64	6.1	5.5	4.4	80	0.87	0.073
STD DS7	Standard	20.3	101.3	65.8	379	1.0	54.7	9.1	611	2.35	48.8	4.7	69.5	4.1	69	6.1	5.9	4.6	81	0.91	0.076
STD DS7	Standard	22.4	117.3	81.5	421	1.1	58.8	10.0	670	2.55	54.2	5.3	80.3	5.4	85	6.4	6.9	5.3	93	1.01	0.082
STD DS7	Standard	21.2	107.0	66.2	401	1.0	54.5	9.1	628	2.37	49.0	4.8	62.9	4.4	69	6.1	5.9	4.4	87	0.91	0.075
STD DS7	Standard	20.5	108.8	64.7	381	1.0	55.8	9.7	631	2.40	49.3	4.7	65.7	4.5	68	5.8	5.9	4.2	88	0.93	0.075
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Val D'Or QC J9P 1S5 Canada

Project: ROS
Report Date: November 15, 2010

Page: 2 of 3 **Part** 2

QUALITY CONTROL REPORT

WHI10000632.1

		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
ROS 163289	Soil	20	18	0.54	296	0.064	2	1.16	0.013	0.18	0.2	0.04	3.6	0.1	<0.05	4	<0.5	<0.2
REP ROS 163289	QC	20	19	0.51	290	0.064	2	1.13	0.013	0.18	0.2	0.04	3.6	0.1	<0.05	4	0.5	<0.2
ROS 160984	Soil	56	19	0.86	137	0.107	<1	1.89	0.009	0.43	0.1	<0.01	3.6	0.4	<0.05	9	<0.5	<0.2
REP ROS 160984	QC	55	18	0.86	134	0.104	<1	1.89	0.010	0.43	0.2	0.01	3.5	0.4	<0.05	9	0.6	<0.2
ROS 159226	Soil	15	32	0.64	336	0.083	2	1.58	0.032	0.07	0.2	0.03	3.8	<0.1	<0.05	5	0.5	<0.2
REP ROS 159226	QC	15	31	0.62	323	0.080	1	1.54	0.030	0.07	0.1	0.04	3.8	<0.1	<0.05	5	0.6	<0.2
ROS 162591	Soil	21	33	0.64	365	0.100	<1	1.66	0.030	0.13	0.2	0.03	4.2	0.1	<0.05	6	0.6	<0.2
REP ROS 162591	QC	22	34	0.66	362	0.104	1	1.74	0.032	0.14	0.2	0.05	4.2	0.1	<0.05	5	0.6	<0.2
Reference Materials																		
STD DS7	Standard	13	206	1.01	410	0.113	32	0.97	0.087	0.45	3.5	0.21	2.4	4.0	0.17	4	3.3	1.9
STD DS7	Standard	12	187	0.99	397	0.110	36	0.92	0.086	0.45	3.6	0.21	2.3	3.9	0.16	5	3.4	1.4
STD DS7	Standard	13	185	0.96	358	0.113	33	0.98	0.093	0.44	3.1	0.19	2.6	3.8	0.16	4	3.1	1.2
STD DS7	Standard	12	189	1.02	385	0.107	31	0.96	0.083	0.47	3.7	0.22	2.3	4.1	0.20	5	3.9	1.3
STD DS7	Standard	13	184	0.95	371	0.110	36	0.93	0.087	0.44	3.3	0.20	2.4	3.8	0.16	4	3.0	1.2
STD DS7	Standard	12	185	1.00	377	0.107	36	1.00	0.085	0.44	3.5	0.20	2.2	4.0	0.16	5	3.5	1.0
STD DS7	Standard	12	203	1.06	397	0.113	44	1.00	0.095	0.47	3.7	0.21	2.2	4.3	0.20	5	3.4	1.7
STD DS7	Standard	14	216	1.13	438	0.144	43	1.09	0.103	0.53	3.8	0.24	2.4	4.4	0.23	5	3.2	1.1
STD DS7	Standard	12	203	1.05	393	0.120	41	1.09	0.094	0.48	3.7	0.23	2.7	4.2	0.16	5	3.1	0.6
STD DS7	Standard	12	201	1.04	383	0.119	41	0.92	0.098	0.49	3.3	0.23	2.5	4.1	0.22	5	2.9	0.9
STD DS7 Expected		12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: ROS

Report Date: November 15, 2010

Page: 3 of 3 **Part** 1

QUALITY CONTROL REPORT

WHI10000632.1

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



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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	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Distribution
Receiving Lab: Canada-Whitehorse
Received: October 27, 2010
Report Date: November 16, 2010
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI10000633.1

CLIENT JOB INFORMATION

Project: ROS
Shipment ID: ROS5
P.O. Number
Number of Samples: 148

SAMPLE DISPOSAL

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

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

Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Shawn Ryan

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	148	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	148	Dry at 60C			WHI
1DX2	148	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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Project: ROS
 Report Date: November 16, 2010

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI10000633.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163386	Soil	0.6	17.8	7.2	50	<0.1	12.3	6.1	237	2.21	4.4	1.5	2.4	7.5	33	<0.1	0.2	0.1	48	0.34	0.046
ROS 161154	Soil	0.3	8.8	4.3	69	<0.1	5.3	8.5	831	3.19	1.3	3.1	1.0	25.8	61	<0.1	0.2	<0.1	40	0.71	0.037
ROS 161156	Soil	1.0	21.9	4.9	66	<0.1	12.2	10.1	667	3.60	3.4	2.8	2.1	20.6	39	<0.1	0.3	0.1	60	0.41	0.046
ROS 163496	Soil	3.1	107.6	5.8	61	0.6	10.2	5.6	255	2.42	3.4	1.2	4.6	2.9	33	0.1	0.1	0.2	58	0.14	0.037
ROS 163497	Soil	2.3	164.0	5.5	81	0.3	14.1	11.1	585	3.57	2.5	1.8	2.1	6.0	50	0.1	0.2	0.2	91	0.17	0.044
ROS 161152	Soil	4.4	13.5	6.8	63	<0.1	13.0	10.9	722	3.40	4.8	1.2	0.9	9.9	16	0.1	0.3	0.1	57	0.14	0.025
ROS 163499	Soil	1.1	11.9	9.1	60	<0.1	15.0	7.4	325	3.50	8.3	0.5	2.3	4.4	14	<0.1	0.4	0.2	66	0.11	0.024
ROS 163495	Soil	1.0	94.8	4.1	37	0.2	7.2	4.3	145	1.98	2.6	1.0	3.4	1.8	24	0.1	0.1	<0.1	36	0.15	0.053
ROS 163494	Soil	0.7	26.9	5.4	61	0.1	10.0	6.8	268	2.26	2.3	0.5	0.8	1.7	22	<0.1	0.2	0.1	50	0.18	0.045
ROS 163498	Soil	0.8	13.7	7.7	65	<0.1	11.0	6.4	431	2.53	2.9	1.3	3.7	7.1	13	0.1	0.2	0.2	52	0.12	0.028
ROS 161153	Soil	0.8	22.1	5.8	78	<0.1	11.5	10.2	634	3.55	3.5	0.6	<0.5	11.6	17	<0.1	0.3	0.1	55	0.13	0.023
ROS 161155	Soil	0.4	15.3	5.0	70	<0.1	8.3	10.3	665	3.74	2.4	1.8	0.7	14.4	39	<0.1	0.2	0.1	55	0.59	0.036
ROS 163500	Soil	0.8	12.2	6.2	63	<0.1	11.3	8.2	441	3.04	3.5	0.8	1.5	6.8	27	<0.1	0.2	0.1	60	0.19	0.032
ROS 151268	Soil	0.6	36.0	8.4	55	0.1	27.5	10.1	514	2.37	9.5	0.5	1.8	2.5	46	0.1	0.8	0.1	50	1.44	0.061
ROS 151269	Soil	0.7	23.0	14.0	64	<0.1	16.5	9.0	444	2.43	7.2	0.8	4.2	3.0	27	0.1	0.9	0.1	49	0.68	0.032
ROS 151267	Soil	1.2	17.9	15.9	107	<0.1	22.6	9.6	368	3.05	10.3	0.7	4.8	4.5	54	0.2	1.0	0.1	61	0.65	0.079
ROS 160989	Soil	0.7	13.7	6.8	65	<0.1	10.8	6.8	401	2.65	2.8	1.3	<0.5	16.9	15	<0.1	0.2	0.2	39	0.22	0.052
ROS 159366	Soil	0.9	18.0	8.6	41	<0.1	17.6	7.4	255	2.47	8.1	0.8	4.1	6.4	18	<0.1	0.4	0.2	54	0.19	0.024
ROS 159364	Soil	0.9	14.1	7.0	54	<0.1	14.7	6.8	379	2.71	5.4	0.9	<0.5	8.5	15	<0.1	0.4	0.2	47	0.17	0.021
ROS 159367	Soil	0.8	10.1	6.2	54	<0.1	10.4	5.8	378	2.61	6.1	0.9	1.1	9.1	13	<0.1	0.4	0.2	45	0.19	0.033
ROS 159660	Soil	0.8	17.7	7.2	43	<0.1	14.9	6.9	227	2.05	6.1	0.9	4.2	4.0	28	<0.1	0.4	0.2	45	0.39	0.048
ROS 159664	Soil	0.7	13.6	6.9	51	<0.1	14.3	7.4	375	2.13	5.9	0.8	1.0	5.0	28	0.1	0.3	0.1	43	0.40	0.053
ROS 159659	Soil	0.7	22.4	7.7	54	<0.1	17.0	9.0	406	2.31	6.0	1.0	2.4	4.9	32	0.2	0.5	0.2	49	0.49	0.047
ROS 159369	Soil	0.7	13.2	9.5	66	<0.1	12.7	13.1	618	4.22	2.8	1.9	2.0	10.3	16	<0.1	0.3	0.6	65	0.24	0.040
ROS 159655	Soil	0.7	31.5	8.3	62	0.1	24.7	10.5	444	2.54	8.7	0.6	2.6	5.0	34	0.3	0.7	0.2	53	0.68	0.076
ROS 159365	Soil	1.0	15.1	7.6	39	<0.1	13.1	6.8	500	2.19	5.6	0.8	2.3	5.9	18	<0.1	0.4	0.2	51	0.22	0.023
ROS 159658	Soil	0.9	28.4	8.2	55	0.1	21.2	8.7	395	2.33	6.2	1.4	2.1	5.2	34	0.2	0.5	0.2	46	0.48	0.053
ROS 162683	Soil	0.9	22.1	7.3	47	<0.1	16.8	8.5	353	2.18	7.3	0.9	3.3	4.1	34	0.1	0.4	0.1	48	0.46	0.056
ROS 162673	Soil	0.8	22.8	7.5	47	<0.1	16.9	7.5	299	2.18	5.9	1.7	5.3	4.3	33	0.1	0.4	0.2	45	0.48	0.045
ROS 173127	Soil	1.3	13.8	8.1	49	<0.1	15.8	8.2	388	2.38	5.3	0.7	3.0	6.0	28	<0.1	0.3	0.1	47	0.50	0.051

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 Report Date: November 16, 2010

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 163386	Soil	19	22	0.54	140	0.124	<1	1.45	0.015	0.15	0.1	0.02	2.5	0.1	<0.05	5	0.6	<0.2
ROS 161154	Soil	140	9	1.64	95	0.186	<1	3.38	0.012	0.49	<0.1	<0.01	3.3	0.3	<0.05	11	<0.5	<0.2
ROS 161156	Soil	46	19	0.96	212	0.224	<1	2.30	0.016	0.70	0.1	<0.01	5.4	0.4	<0.05	7	<0.5	<0.2
ROS 163496	Soil	10	23	0.74	124	0.116	2	1.61	0.009	0.40	0.1	0.05	3.4	0.2	0.05	7	<0.5	<0.2
ROS 163497	Soil	15	32	1.21	169	0.183	2	2.43	0.015	0.78	0.1	0.02	6.0	0.2	0.10	10	<0.5	<0.2
ROS 161152	Soil	16	20	0.82	163	0.156	1	2.30	0.011	0.64	0.1	0.02	4.3	0.4	<0.05	8	<0.5	<0.2
ROS 163499	Soil	9	27	0.53	99	0.103	2	1.95	0.007	0.08	0.1	0.02	2.5	0.1	<0.05	7	<0.5	<0.2
ROS 163495	Soil	8	17	0.51	125	0.081	3	1.23	0.010	0.28	<0.1	0.04	2.4	0.1	0.08	4	0.7	<0.2
ROS 163494	Soil	8	21	0.77	170	0.115	2	1.60	0.009	0.38	0.1	0.04	2.0	0.2	<0.05	5	<0.5	<0.2
ROS 163498	Soil	19	20	0.64	79	0.133	2	1.53	0.008	0.28	<0.1	<0.01	3.1	0.2	<0.05	7	<0.5	<0.2
ROS 161153	Soil	19	20	0.94	128	0.180	<1	2.39	0.009	0.43	0.2	<0.01	3.7	0.3	<0.05	8	<0.5	<0.2
ROS 161155	Soil	45	14	0.96	184	0.168	<1	2.58	0.012	0.62	0.1	0.02	4.0	0.3	<0.05	9	<0.5	<0.2
ROS 163500	Soil	17	17	0.70	140	0.152	<1	2.16	0.009	0.37	0.1	0.02	2.9	0.2	<0.05	8	<0.5	<0.2
ROS 151268	Soil	13	26	0.60	284	0.052	2	1.39	0.020	0.05	0.2	0.07	3.5	<0.1	<0.05	4	<0.5	<0.2
ROS 151269	Soil	11	23	0.49	209	0.036	2	1.36	0.013	0.06	0.3	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
ROS 151267	Soil	9	37	0.75	180	0.084	2	2.08	0.014	0.19	0.1	0.02	4.9	<0.1	<0.05	9	<0.5	<0.2
ROS 160989	Soil	31	21	0.45	119	0.085	<1	1.59	0.009	0.40	0.2	0.02	4.7	0.3	<0.05	8	<0.5	<0.2
ROS 159366	Soil	32	33	0.45	242	0.060	1	1.66	0.010	0.06	0.1	0.02	2.8	<0.1	<0.05	5	0.6	<0.2
ROS 159364	Soil	26	24	0.49	199	0.074	1	1.74	0.009	0.10	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
ROS 159367	Soil	7	19	0.48	85	0.079	<1	1.49	0.010	0.16	0.2	0.01	2.3	0.1	<0.05	6	0.6	<0.2
ROS 159660	Soil	13	23	0.42	236	0.066	1	1.35	0.013	0.04	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
ROS 159664	Soil	15	24	0.43	209	0.071	1	1.38	0.013	0.11	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 159659	Soil	16	27	0.44	284	0.080	1	1.47	0.018	0.07	0.2	0.04	3.4	<0.1	<0.05	5	<0.5	0.3
ROS 159369	Soil	37	20	1.29	294	0.169	2	2.02	0.012	1.07	0.2	<0.01	3.9	0.4	<0.05	8	<0.5	<0.2
ROS 159655	Soil	15	28	0.59	268	0.081	2	1.32	0.023	0.10	0.2	0.03	3.4	<0.1	<0.05	4	0.6	<0.2
ROS 159365	Soil	27	26	0.43	211	0.068	<1	1.47	0.009	0.07	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 159658	Soil	19	30	0.47	304	0.079	2	1.63	0.019	0.06	0.2	0.04	3.9	<0.1	<0.05	5	<0.5	0.4
ROS 162683	Soil	14	26	0.45	248	0.072	2	1.42	0.018	0.05	0.2	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 162673	Soil	14	26	0.45	283	0.074	1	1.40	0.024	0.06	0.2	0.04	3.1	<0.1	<0.05	4	0.5	<0.2
ROS 173127	Soil	14	28	0.54	140	0.068	1	1.35	0.014	0.08	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 160971	Soil	2.1	25.5	5.5	62	<0.1	10.1	7.7	445	3.01	3.0	7.2	0.6	12.0	41	<0.1	0.2	0.1	54	0.46	0.033
ROS 162780	Soil	1.0	17.7	6.1	40	<0.1	12.5	5.4	262	1.62	5.0	1.1	2.5	2.3	53	0.2	0.4	0.1	36	1.24	0.074
ROS 162588	Soil	1.1	22.1	7.2	62	0.1	15.0	12.1	880	2.52	6.0	0.6	5.2	1.9	25	0.2	0.4	0.1	60	0.46	0.060
ROS 162584	Soil	0.9	18.4	6.7	54	<0.1	16.2	8.6	465	1.99	5.6	0.6	2.2	2.2	26	0.2	0.4	0.1	45	0.41	0.054
ROS 162594	Soil	11.2	66.0	10.4	87	<0.1	7.7	8.4	588	3.41	2.6	0.7	2.1	13.3	9	<0.1	0.2	4.1	42	0.10	0.023
ROS 162586	Soil	0.7	23.4	5.9	53	<0.1	15.3	10.6	510	2.38	4.7	0.6	1.6	2.1	27	0.2	0.3	0.2	58	0.51	0.058
ROS 162585	Soil	0.9	14.8	7.1	58	<0.1	14.3	9.4	794	2.22	5.8	0.5	4.0	2.0	23	0.2	0.4	0.1	53	0.34	0.049
ROS 161203	Soil	1.2	17.1	7.0	53	<0.1	13.1	6.0	468	2.20	3.9	1.0	1.3	14.2	17	<0.1	0.2	0.2	37	0.22	0.041
ROS 161205	Soil	1.0	22.0	6.2	51	<0.1	12.6	5.9	250	1.97	3.2	2.4	1.4	11.5	22	<0.1	0.3	0.1	31	0.32	0.038
ROS 162578	Soil	0.8	20.9	7.6	58	<0.1	17.9	10.6	425	2.40	7.3	0.7	2.7	2.6	31	0.2	0.5	0.1	57	0.55	0.075
ROS 162598	Soil	2.0	21.2	7.2	78	<0.1	10.4	11.4	657	4.02	4.6	1.2	<0.5	18.0	11	<0.1	0.3	0.1	63	0.17	0.047
ROS 162865	Soil	1.4	21.7	5.8	27	<0.1	7.3	7.4	1659	1.40	2.1	3.3	0.6	1.1	45	0.2	0.2	0.2	25	1.02	0.095
ROS 162855	Soil	0.4	25.8	7.1	61	<0.1	19.8	8.6	253	2.16	5.8	1.0	2.2	3.8	30	<0.1	0.5	0.1	54	0.50	0.078
ROS 162857	Soil	1.3	36.6	7.2	58	0.1	21.2	11.8	409	3.12	4.6	2.1	1.4	5.0	67	0.2	0.6	0.1	67	0.99	0.056
ROS 162854	Soil	0.9	23.3	6.6	53	0.1	19.1	10.2	451	2.38	6.4	1.3	1.8	3.1	57	0.2	0.5	0.1	46	0.91	0.079
ROS 162860	Soil	0.5	18.0	7.5	64	<0.1	14.8	8.9	407	2.38	5.4	0.9	2.1	2.5	31	0.2	0.4	0.1	46	0.56	0.081
ROS 162858	Soil	0.6	24.0	8.0	62	<0.1	16.7	7.9	364	2.32	5.0	2.2	1.4	4.8	75	0.1	0.5	0.1	50	0.95	0.063
ROS 162859	Soil	0.5	15.5	6.7	59	<0.1	13.5	8.5	318	2.00	4.0	0.8	5.8	2.5	24	0.2	0.4	<0.1	41	0.46	0.070
ROS 161029	Soil	2.1	16.6	7.1	83	<0.1	5.4	5.6	351	3.12	3.2	0.7	1.0	7.1	9	<0.1	0.2	0.7	40	0.10	0.036
ROS 159174	Soil	0.6	21.8	7.8	73	<0.1	9.8	11.1	692	3.24	3.0	2.1	0.8	13.8	23	<0.1	0.2	0.1	57	0.19	0.028
ROS 159220	Soil	0.6	14.2	6.5	53	<0.1	12.8	6.9	310	2.53	4.9	1.5	1.0	8.2	28	<0.1	0.3	0.1	53	0.35	0.031
ROS 159222	Soil	0.5	15.2	6.0	54	<0.1	12.3	8.0	363	2.66	4.6	1.4	<0.5	9.0	29	<0.1	0.3	0.1	51	0.34	0.037
ROS 160910	Soil	0.8	24.4	6.5	50	0.2	9.6	6.3	331	2.19	4.0	1.8	1.9	6.0	26	<0.1	0.2	0.2	47	0.28	0.031
ROS 159221	Soil	0.6	12.2	5.5	60	<0.1	9.7	8.7	508	3.04	3.0	2.0	1.4	11.2	49	<0.1	0.2	<0.1	51	0.57	0.048
ROS 159223	Soil	0.7	20.4	7.7	49	<0.1	17.3	8.2	282	2.49	6.7	1.4	5.1	6.1	28	<0.1	0.4	0.1	53	0.36	0.041
ROS 159218	Soil	0.8	12.3	6.9	55	<0.1	13.3	7.9	390	2.92	5.6	1.0	1.0	7.8	21	<0.1	0.3	0.1	60	0.22	0.022
ROS 160909	Soil	1.3	17.0	8.0	45	<0.1	14.9	6.9	214	3.00	9.1	0.8	0.9	4.0	16	<0.1	0.5	0.2	65	0.15	0.030
ROS 159216	Soil	0.7	17.7	7.7	60	<0.1	17.5	8.9	363	2.89	5.9	1.3	1.0	8.3	25	<0.1	0.4	0.1	62	0.28	0.024
ROS 159219	Soil	0.8	11.8	6.7	57	<0.1	12.6	7.5	382	2.88	5.3	1.1	0.9	7.7	21	<0.1	0.4	0.1	57	0.22	0.022
ROS 159215	Soil	0.7	16.2	7.5	51	<0.1	14.3	7.9	304	2.57	5.7	1.2	2.0	6.7	29	<0.1	0.4	0.1	56	0.26	0.021

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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.2
ROS 160971	Soil	31	16	0.83	87	0.152	1	2.36	0.012	0.59	0.2	0.02	4.5	0.3	<0.05	8	<0.5	<0.2
ROS 162780	Soil	12	20	0.39	154	0.044	2	1.01	0.016	0.04	0.1	0.05	2.4	<0.1	0.05	3	<0.5	<0.2
ROS 162588	Soil	11	26	0.52	260	0.063	2	1.34	0.016	0.07	0.3	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
ROS 162584	Soil	10	24	0.45	224	0.049	1	1.21	0.017	0.06	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	0.2
ROS 162594	Soil	12	12	0.61	150	0.128	<1	1.84	0.012	0.66	0.5	0.02	3.6	0.6	<0.05	8	<0.5	<0.2
ROS 162586	Soil	10	25	0.54	255	0.064	2	1.35	0.018	0.09	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	0.2
ROS 162585	Soil	11	25	0.42	201	0.056	2	1.31	0.016	0.07	0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 161203	Soil	28	22	0.40	189	0.063	<1	1.28	0.009	0.16	0.1	0.03	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 161205	Soil	38	19	0.42	143	0.065	<1	1.09	0.013	0.16	<0.1	0.03	3.1	0.2	<0.05	4	<0.5	<0.2
ROS 162578	Soil	11	25	0.56	272	0.064	2	1.28	0.025	0.06	0.3	0.04	2.8	<0.1	0.05	4	<0.5	<0.2
ROS 162598	Soil	10	21	0.89	131	0.154	2	2.01	0.011	0.91	0.2	0.02	5.0	0.6	<0.05	9	<0.5	<0.2
ROS 162865	Soil	58	14	0.21	380	0.033	4	0.81	0.014	0.07	0.1	0.08	2.5	<0.1	0.15	3	0.7	<0.2
ROS 162855	Soil	14	27	0.60	232	0.077	2	1.25	0.030	0.06	0.2	0.03	3.8	<0.1	<0.05	4	0.5	<0.2
ROS 162857	Soil	36	29	0.67	367	0.042	3	1.76	0.019	0.15	0.1	0.05	6.5	<0.1	0.06	6	0.8	<0.2
ROS 162854	Soil	20	22	0.53	336	0.064	3	1.22	0.026	0.07	0.2	0.04	3.0	<0.1	0.06	4	0.7	<0.2
ROS 162860	Soil	13	21	0.54	254	0.067	2	1.26	0.023	0.08	0.3	0.06	3.1	<0.1	<0.05	4	<0.5	<0.2
ROS 162858	Soil	21	22	0.60	364	0.067	2	1.67	0.023	0.15	<0.1	0.04	4.5	<0.1	0.05	6	0.5	<0.2
ROS 162859	Soil	11	17	0.52	216	0.065	2	1.13	0.020	0.09	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
ROS 161029	Soil	7	10	0.44	126	0.054	1	2.03	0.008	0.27	0.3	0.02	3.3	0.2	<0.05	9	<0.5	<0.2
ROS 159174	Soil	31	17	0.95	179	0.163	<1	2.37	0.016	0.75	<0.1	<0.01	5.0	0.3	<0.05	9	<0.5	<0.2
ROS 159220	Soil	27	22	0.62	165	0.129	1	1.95	0.016	0.21	0.1	0.02	3.6	0.1	<0.05	6	<0.5	<0.2
ROS 159222	Soil	27	21	0.65	176	0.137	1	1.73	0.023	0.27	0.2	0.02	3.7	0.2	<0.05	6	<0.5	<0.2
ROS 160910	Soil	28	17	0.62	143	0.119	<1	1.51	0.011	0.23	0.1	0.03	2.5	0.2	<0.05	7	<0.5	<0.2
ROS 159221	Soil	31	18	0.80	143	0.162	<1	2.34	0.016	0.54	0.1	0.02	3.1	0.3	<0.05	8	<0.5	<0.2
ROS 159223	Soil	18	29	0.57	231	0.106	1	1.44	0.023	0.08	0.2	0.03	3.9	<0.1	<0.05	5	0.6	<0.2
ROS 159218	Soil	18	25	0.71	122	0.127	1	1.79	0.013	0.23	0.2	0.02	2.9	0.2	<0.05	7	<0.5	<0.2
ROS 160909	Soil	11	28	0.50	97	0.096	<1	1.59	0.011	0.12	0.2	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
ROS 159216	Soil	24	31	0.70	185	0.126	<1	1.75	0.017	0.19	0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
ROS 159219	Soil	17	23	0.70	127	0.128	1	1.89	0.014	0.23	0.1	0.02	3.3	0.2	<0.05	7	<0.5	<0.2
ROS 159215	Soil	21	25	0.68	206	0.112	1	1.85	0.016	0.16	0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2

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Project: ROS
 Report Date: November 16, 2010

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CERTIFICATE OF ANALYSIS

WHI10000633.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 163369	Soil		0.7	20.4	6.2	54	<0.1	11.1	6.3	253	2.37	5.5	1.6	0.6	5.9	26	<0.1	0.2	0.2	47	0.27	0.040
ROS 159214	Soil		0.6	16.1	8.0	63	<0.1	11.3	7.9	435	2.72	4.2	1.6	<0.5	8.7	23	<0.1	0.3	0.1	58	0.26	0.041
ROS 159175	Soil		0.5	18.3	7.2	76	<0.1	12.6	11.6	662	3.60	4.6	1.8	1.8	12.2	22	<0.1	0.3	0.1	68	0.27	0.041
ROS 159217	Soil		0.7	13.9	7.7	50	<0.1	14.3	7.3	306	2.77	7.1	1.3	2.0	7.2	22	<0.1	0.3	0.1	61	0.24	0.024
ROS 161161	Soil		0.8	17.9	7.2	46	<0.1	14.2	6.8	261	2.36	5.7	1.5	3.0	6.3	29	<0.1	0.3	0.1	48	0.36	0.041
ROS 161162	Soil		1.1	27.5	4.7	61	<0.1	8.0	6.4	354	2.74	2.8	1.5	2.0	9.1	42	<0.1	0.2	0.3	48	0.27	0.033
ROS 161158	Soil		0.7	16.6	7.8	46	<0.1	13.9	6.9	216	2.38	5.9	1.0	5.9	5.5	26	<0.1	0.3	0.1	54	0.32	0.035
ROS 161164	Soil		0.9	24.9	6.8	57	<0.1	15.5	7.0	300	2.42	5.1	2.1	<0.5	8.4	32	<0.1	0.4	0.1	53	0.41	0.044
ROS 161160	Soil		0.7	21.3	5.8	52	<0.1	11.3	7.7	363	2.60	4.5	3.0	2.9	11.7	30	<0.1	0.3	0.1	53	0.39	0.044
ROS 161169	Soil		0.6	25.2	7.7	52	0.1	12.1	5.6	203	2.50	4.5	2.3	2.3	6.0	27	0.1	0.3	0.2	50	0.29	0.049
ROS 161170	Soil		0.5	29.9	7.4	52	0.2	9.1	4.6	188	1.88	2.5	2.7	2.9	6.2	30	<0.1	0.2	0.2	34	0.28	0.048
ROS 161167	Soil		0.6	18.7	5.8	48	<0.1	9.1	6.2	299	2.07	3.4	1.3	0.8	7.0	29	<0.1	0.3	0.1	45	0.28	0.034
ROS 163370	Soil		1.1	36.6	7.3	52	0.3	14.0	6.3	225	2.50	5.4	3.0	2.4	5.8	32	<0.1	0.2	0.2	50	0.33	0.037
ROS 163372	Soil		0.7	15.2	5.2	49	<0.1	8.6	5.9	290	2.10	3.6	1.2	3.5	6.2	29	<0.1	0.2	0.1	46	0.28	0.037
ROS 163384	Soil		0.5	17.3	4.9	58	<0.1	7.6	5.5	285	2.23	2.6	1.7	1.6	8.1	32	<0.1	0.2	0.1	44	0.31	0.041
ROS 163397	Soil		1.0	26.7	7.5	49	0.1	12.9	6.0	191	2.30	6.6	1.9	4.2	5.2	27	<0.1	0.2	0.2	44	0.29	0.042
ROS 163368	Soil		1.2	20.5	8.0	55	<0.1	13.0	7.5	249	2.95	7.2	1.2	2.4	6.4	25	<0.1	0.4	0.2	60	0.20	0.020
ROS 163371	Soil		1.0	14.8	7.8	40	0.2	8.1	5.7	243	1.84	3.6	1.2	1.7	5.8	23	<0.1	0.2	0.2	44	0.19	0.026
ROS 163385	Soil		0.5	19.5	6.1	61	<0.1	8.4	6.2	311	2.39	2.8	2.0	4.7	10.0	38	<0.1	0.2	0.2	48	0.34	0.040
ROS 163388	Soil		0.6	23.7	8.5	55	0.1	15.2	6.6	199	2.44	5.7	1.9	7.2	6.4	34	<0.1	0.4	0.2	49	0.35	0.051
ROS 164898	Soil		1.0	11.3	8.9	46	<0.1	12.5	6.0	533	2.23	5.3	0.6	4.2	3.9	23	<0.1	0.5	0.2	56	0.29	0.032
ROS 164896	Soil		0.9	12.3	6.1	70	<0.1	10.1	7.5	484	3.07	6.6	1.6	3.2	11.4	9	<0.1	0.3	<0.1	42	0.10	0.033
ROS 164897	Soil		0.9	14.1	7.6	49	<0.1	12.4	5.8	239	2.35	5.7	1.1	35.4	7.7	18	<0.1	0.7	0.2	45	0.17	0.017
ROS 164899	Soil		0.9	18.1	8.9	68	<0.1	13.3	9.2	279	2.66	6.5	1.2	0.6	8.8	20	<0.1	0.7	0.2	56	0.26	0.020
ROS 162877	Soil		0.6	11.2	9.0	95	<0.1	14.4	14.8	1120	4.11	2.2	1.7	0.6	15.0	32	<0.1	0.4	0.2	85	0.73	0.125
ROS 162872	Soil		3.9	22.1	8.8	53	<0.1	7.5	4.9	456	2.12	3.2	0.8	5.2	4.7	11	<0.1	0.3	0.4	49	0.15	0.028
ROS 162875	Soil		6.3	19.7	11.1	55	<0.1	7.2	7.6	683	3.20	1.8	2.4	1.0	27.6	18	<0.1	0.2	0.1	35	0.48	0.067
ROS 159525	Soil		1.0	15.9	10.7	68	<0.1	16.3	8.0	399	2.85	5.1	1.5	5.1	8.0	31	<0.1	0.3	0.2	64	0.25	0.025
ROS 162874	Soil		7.0	29.4	11.5	59	<0.1	13.5	10.5	304	3.58	9.9	1.8	1.9	12.5	27	<0.1	0.3	0.2	68	0.59	0.045
ROS 162876	Soil		2.7	15.7	11.9	122	<0.1	6.9	8.1	635	2.93	1.7	1.6	1.0	13.5	21	<0.1	0.1	0.2	47	0.58	0.075

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Project: ROS
 Report Date: November 16, 2010

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CERTIFICATE OF ANALYSIS

WHI10000633.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 163369	Soil	23	21	0.62	145	0.114	1	1.64	0.012	0.16	0.1	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
ROS 159214	Soil	25	21	0.77	138	0.137	<1	1.92	0.014	0.42	0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 159175	Soil	29	22	1.01	213	0.180	1	2.52	0.023	0.79	<0.1	<0.01	4.8	0.4	<0.05	8	<0.5	<0.2
ROS 159217	Soil	20	27	0.61	154	0.123	<1	2.02	0.014	0.14	0.1	0.02	3.7	0.1	<0.05	6	<0.5	<0.2
ROS 161161	Soil	19	24	0.59	205	0.102	1	1.55	0.018	0.09	0.1	0.03	3.2	0.1	<0.05	5	<0.5	<0.2
ROS 161162	Soil	25	16	0.66	165	0.136	<1	1.62	0.020	0.45	0.1	0.01	2.9	0.3	<0.05	6	<0.5	<0.2
ROS 161158	Soil	19	25	0.57	190	0.105	1	1.36	0.016	0.14	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 161164	Soil	19	26	0.64	222	0.130	1	1.47	0.024	0.27	0.1	0.02	3.8	0.2	<0.05	5	<0.5	<0.2
ROS 161160	Soil	43	20	0.69	199	0.139	<1	1.51	0.025	0.31	0.4	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 161169	Soil	24	22	0.52	189	0.099	<1	1.78	0.014	0.19	<0.1	0.06	3.5	0.2	<0.05	7	<0.5	<0.2
ROS 161170	Soil	29	18	0.49	174	0.092	<1	1.68	0.012	0.23	<0.1	0.08	3.5	0.2	0.05	6	<0.5	<0.2
ROS 161167	Soil	18	18	0.56	151	0.120	<1	1.35	0.022	0.32	0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
ROS 163370	Soil	28	23	0.55	183	0.104	<1	1.76	0.014	0.15	0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2
ROS 163372	Soil	16	16	0.57	124	0.111	<1	1.42	0.012	0.24	0.1	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
ROS 163384	Soil	20	16	0.61	121	0.125	<1	1.66	0.015	0.39	0.2	0.02	2.7	0.2	<0.05	6	<0.5	<0.2
ROS 163397	Soil	20	24	0.47	194	0.070	<1	1.60	0.008	0.12	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
ROS 163368	Soil	16	23	0.67	137	0.134	<1	2.08	0.011	0.16	<0.1	0.02	2.3	0.2	<0.05	7	<0.5	<0.2
ROS 163371	Soil	19	16	0.42	105	0.120	1	1.31	0.014	0.15	<0.1	0.02	1.9	0.1	<0.05	6	<0.5	0.2
ROS 163385	Soil	22	17	0.64	120	0.152	<1	1.67	0.014	0.39	<0.1	0.02	2.5	0.2	<0.05	6	<0.5	<0.2
ROS 163388	Soil	20	25	0.53	201	0.102	1	1.85	0.014	0.09	0.2	0.04	3.1	<0.1	<0.05	6	<0.5	<0.2
ROS 164898	Soil	10	23	0.31	177	0.073	1	1.07	0.010	0.09	0.2	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
ROS 164896	Soil	8	19	0.56	126	0.108	1	1.41	0.006	0.42	0.1	<0.01	3.6	0.2	<0.05	6	<0.5	<0.2
ROS 164897	Soil	11	19	0.32	208	0.046	2	1.29	0.009	0.08	0.2	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
ROS 164899	Soil	31	23	0.46	242	0.047	2	1.56	0.011	0.12	0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
ROS 162877	Soil	52	46	1.71	208	0.133	<1	2.87	0.009	0.74	<0.1	<0.01	7.3	0.5	<0.05	9	<0.5	<0.2
ROS 162872	Soil	15	17	0.33	81	0.073	1	1.05	0.011	0.17	0.3	0.02	2.2	0.2	<0.05	6	<0.5	0.3
ROS 162875	Soil	113	13	0.51	167	0.043	<1	1.68	0.008	0.24	0.8	<0.01	4.2	0.3	<0.05	6	<0.5	<0.2
ROS 159525	Soil	21	28	0.70	151	0.151	<1	2.01	0.013	0.19	0.1	<0.01	3.6	0.2	<0.05	8	<0.5	<0.2
ROS 162874	Soil	22	27	0.63	129	0.069	1	2.01	0.012	0.18	0.2	0.02	4.1	0.2	<0.05	7	<0.5	<0.2
ROS 162876	Soil	11	17	0.73	112	0.043	<1	1.70	0.008	0.39	0.1	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
ROS 162867	Soil	3.6	37.9	27.5	135	0.1	10.4	15.8	723	5.22	2.4	2.4	1.8	14.9	36	0.5	0.1	0.5	65	0.53	0.097
ROS 162866	Soil	2.0	23.4	6.8	111	0.2	13.3	6.9	2159	1.34	2.4	1.8	1.0	1.0	63	1.6	0.3	0.2	21	1.00	0.094
ROS 162868	Soil	1.6	36.4	11.3	58	0.1	18.8	9.1	392	2.60	6.0	1.4	3.2	7.3	38	0.2	0.4	0.3	54	0.58	0.044
ROS 162873	Soil	5.3	35.8	10.3	76	0.1	14.3	10.8	510	3.57	4.3	1.2	1.3	14.2	22	<0.1	0.3	0.4	61	0.58	0.072
ROS 162869	Soil	1.3	14.1	11.4	59	<0.1	17.1	7.9	386	3.13	8.3	0.6	2.0	4.7	16	<0.1	0.4	0.3	72	0.23	0.041
ROS 162871	Soil	2.7	119.1	22.6	159	0.3	11.8	9.6	671	3.51	43.9	1.6	9.3	11.8	25	0.2	0.3	5.9	53	0.43	0.046
ROS 162668	Soil	1.0	22.0	9.6	59	0.1	20.9	9.3	406	2.54	7.0	2.4	3.2	5.6	36	0.2	0.6	0.2	56	0.61	0.051
ROS 161011	Soil	0.9	22.0	8.4	58	0.1	21.0	9.5	428	2.61	7.8	1.0	2.6	3.5	44	<0.1	0.5	0.2	58	0.70	0.060
ROS 160847	Soil	1.2	29.5	12.6	108	<0.1	24.8	14.0	552	4.01	5.9	1.2	2.4	10.3	28	<0.1	0.4	0.2	76	0.55	0.045
ROS 163283	Soil	0.9	31.7	13.5	78	<0.1	24.4	9.7	445	2.78	7.9	0.9	4.6	6.3	40	0.1	0.7	0.2	60	0.58	0.049
ROS 161013	Soil	0.9	12.5	5.6	48	<0.1	13.1	5.1	149	1.69	5.5	0.5	10.4	1.5	28	0.1	0.3	0.1	46	0.44	0.060
ROS 161016	Soil	0.9	25.1	7.9	68	0.1	18.6	12.1	485	3.03	8.2	0.9	2.5	3.0	31	0.2	0.5	0.2	68	0.45	0.072
ROS 159503	Soil	0.9	28.0	10.0	57	<0.1	23.4	9.6	350	2.66	8.3	2.0	10.1	5.6	43	<0.1	0.7	0.1	62	0.56	0.057
ROS 163282	Soil	0.9	33.2	13.2	71	0.1	26.9	10.0	451	2.78	8.6	1.0	4.6	6.1	40	<0.1	0.7	0.2	61	0.75	0.045
ROS 161012	Soil	0.7	25.0	7.2	73	<0.1	24.7	10.7	627	2.34	8.0	0.6	4.7	2.7	40	0.3	0.6	0.1	50	0.68	0.083
ROS 161014	Soil	0.7	21.5	8.7	65	0.1	21.2	10.1	334	2.55	8.7	0.9	3.5	3.5	37	0.2	0.6	0.2	63	0.56	0.073
ROS 161015	Soil	1.1	13.7	7.7	53	<0.1	14.2	6.0	222	2.17	8.1	0.6	2.2	1.9	33	0.1	0.4	0.1	67	0.45	0.064
ROS 164835	Soil	0.7	118.9	13.0	69	<0.1	281.9	34.3	715	4.40	5.6	3.0	2.9	9.9	143	<0.1	0.4	<0.1	126	0.96	0.205
ROS 164873	Soil	0.7	141.9	14.7	70	0.1	366.6	43.4	824	4.67	4.6	3.0	3.0	9.3	165	<0.1	0.3	<0.1	132	0.98	0.227
ROS 162843	Soil	1.1	28.6	9.8	55	<0.1	23.2	10.4	386	2.73	8.5	1.6	2.8	6.6	36	0.1	0.6	0.2	62	0.47	0.048
ROS 164877	Soil	1.3	22.2	10.0	64	<0.1	19.7	15.9	786	3.38	9.4	1.4	1.9	8.2	26	<0.1	0.6	0.2	71	0.25	0.043
ROS 164876	Soil	0.9	28.3	7.3	53	<0.1	20.7	8.6	388	2.89	8.1	1.4	2.6	7.5	30	<0.1	0.5	0.2	53	0.34	0.027
ROS 162856	Soil	0.7	48.4	5.4	102	<0.1	24.1	21.6	747	5.15	3.0	0.6	1.7	3.6	41	<0.1	0.3	<0.1	114	0.64	0.087
ROS 162862	Soil	0.5	11.5	6.5	55	<0.1	9.8	8.8	514	2.09	4.2	0.6	0.9	2.2	23	0.1	0.3	0.1	43	0.46	0.080
ROS 162864	Soil	0.8	16.0	6.9	71	<0.1	13.6	10.3	580	2.37	4.2	0.7	2.5	2.3	33	0.3	0.4	0.1	46	0.63	0.064
ROS 162863	Soil	0.7	14.5	6.8	66	<0.1	12.0	8.9	308	3.11	6.0	0.8	1.4	2.8	28	<0.1	0.4	0.1	57	0.57	0.059
ROS 162861	Soil	0.4	16.9	6.1	52	<0.1	13.7	6.8	224	1.81	3.9	0.8	2.3	1.9	33	0.1	0.5	0.1	38	0.49	0.058
ROS 161030	Soil	2.1	21.6	8.7	49	<0.1	11.7	7.9	333	2.95	6.9	0.7	1.4	10.1	11	<0.1	0.4	0.1	48	0.15	0.033
ROS 161032	Soil	12.5	33.2	13.1	43	<0.1	6.0	6.2	219	2.41	14.8	2.8	1.3	12.8	11	<0.1	0.5	0.1	24	0.26	0.061
ROS 161034	Soil	1.1	17.6	6.5	46	<0.1	11.6	8.3	380	2.58	4.9	1.4	0.9	13.6	19	<0.1	0.2	<0.1	40	0.40	0.048

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 Report Date: November 16, 2010

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
ROS 162867	Soil	25	21	1.43	432	0.123	1	2.25	0.017	1.09	<0.1	0.02	7.9	0.4	0.06	9	<0.5	<0.2
ROS 162866	Soil	64	13	0.19	653	0.024	3	0.94	0.017	0.08	<0.1	0.14	2.3	<0.1	0.12	3	0.7	<0.2
ROS 162868	Soil	32	28	0.50	286	0.090	<1	1.53	0.022	0.16	0.2	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 162873	Soil	19	23	0.79	178	0.095	1	2.01	0.013	0.39	0.9	0.02	4.9	0.4	<0.05	7	<0.5	<0.2
ROS 162869	Soil	24	29	0.48	157	0.090	1	1.83	0.011	0.10	0.2	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
ROS 162871	Soil	18	18	0.58	122	0.120	1	1.50	0.012	0.39	0.7	0.02	3.3	0.4	<0.05	7	<0.5	<0.2
ROS 162668	Soil	19	30	0.46	455	0.084	<1	1.60	0.021	0.07	0.2	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
ROS 161011	Soil	15	27	0.55	373	0.072	3	1.53	0.022	0.08	0.2	0.03	4.5	<0.1	<0.05	5	0.7	<0.2
ROS 160847	Soil	34	37	1.15	337	0.183	<1	2.31	0.017	0.46	<0.1	0.01	5.9	0.2	<0.05	8	<0.5	0.2
ROS 163283	Soil	19	33	0.59	314	0.111	1	1.70	0.029	0.13	0.2	0.04	4.4	<0.1	<0.05	6	<0.5	<0.2
ROS 161013	Soil	9	26	0.45	138	0.074	2	1.10	0.020	0.06	0.2	0.04	2.4	<0.1	<0.05	5	<0.5	0.3
ROS 161016	Soil	14	28	0.55	279	0.072	2	1.57	0.021	0.07	0.2	0.03	4.1	<0.1	<0.05	5	0.5	<0.2
ROS 159503	Soil	18	35	0.53	290	0.101	1	1.77	0.026	0.06	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
ROS 163282	Soil	20	34	0.65	309	0.108	1	1.65	0.028	0.10	0.2	0.04	4.6	0.1	<0.05	5	<0.5	<0.2
ROS 161012	Soil	12	26	0.56	246	0.070	2	1.17	0.027	0.08	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
ROS 161014	Soil	14	30	0.56	271	0.082	2	1.44	0.024	0.06	0.3	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
ROS 161015	Soil	11	25	0.44	185	0.074	1	1.18	0.017	0.06	0.2	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
ROS 164835	Soil	29	235	3.95	684	0.233	3	2.98	0.027	0.44	0.2	0.02	3.3	<0.1	<0.05	9	<0.5	<0.2
ROS 164873	Soil	29	239	5.24	708	0.235	4	3.38	0.024	0.37	0.2	0.01	2.2	<0.1	<0.05	10	<0.5	<0.2
ROS 162843	Soil	20	36	0.50	272	0.104	1	1.90	0.023	0.10	0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
ROS 164877	Soil	21	33	0.64	246	0.125	<1	2.35	0.013	0.21	0.1	0.02	3.4	0.1	<0.05	7	<0.5	<0.2
ROS 164876	Soil	22	30	0.65	237	0.111	2	1.70	0.020	0.19	0.1	0.03	5.5	0.1	<0.05	6	<0.5	<0.2
ROS 162856	Soil	19	44	1.47	327	0.099	2	2.50	0.017	0.59	<0.1	0.04	11.2	0.2	<0.05	10	<0.5	<0.2
ROS 162862	Soil	10	15	0.46	180	0.059	1	1.02	0.016	0.07	0.3	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
ROS 162864	Soil	12	19	0.61	258	0.059	2	1.39	0.018	0.11	0.2	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
ROS 162863	Soil	10	21	0.51	207	0.042	3	1.41	0.012	0.10	0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
ROS 162861	Soil	10	19	0.43	267	0.042	3	1.20	0.019	0.06	0.2	0.05	3.4	<0.1	<0.05	3	<0.5	<0.2
ROS 161030	Soil	8	21	0.49	134	0.077	<1	1.89	0.008	0.27	0.5	0.01	3.8	0.2	<0.05	6	<0.5	<0.2
ROS 161032	Soil	50	9	0.42	85	0.025	<1	1.52	0.007	0.22	0.2	0.01	2.7	0.3	<0.05	5	<0.5	<0.2
ROS 161034	Soil	34	17	0.56	169	0.063	<1	1.45	0.014	0.20	<0.1	0.01	3.7	0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	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	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
ROS 161023	Soil	1.3	12.0	3.4	96	<0.1	12.3	10.9	726	4.25	3.6	1.9	0.7	8.8	31	<0.1	0.3	<0.1	53	0.26	0.046
ROS 161028	Soil	1.7	91.3	19.6	198	0.2	12.2	9.8	945	3.93	23.9	1.1	2.0	7.1	14	0.4	0.3	3.7	60	0.31	0.100
ROS 161026	Soil	0.8	25.3	8.7	74	0.1	19.7	9.0	511	2.58	7.2	1.1	4.5	6.1	26	0.2	0.4	0.2	51	0.59	0.073
ROS 161031	Soil	7.2	45.7	10.2	64	<0.1	11.1	10.6	523	3.98	5.6	3.5	3.6	22.2	12	<0.1	0.5	0.2	51	0.16	0.041
ROS 161024	Soil	1.8	14.5	11.4	234	<0.1	7.7	4.8	1278	2.23	2.4	0.8	1.4	15.5	20	0.4	0.2	0.2	20	0.20	0.052
ROS 161025	Soil	0.9	18.5	8.3	67	<0.1	13.4	8.0	784	2.46	4.1	1.1	17.8	12.5	45	0.1	0.3	0.2	36	0.82	0.076
ROS 161027	Soil	0.8	13.2	7.6	68	<0.1	10.2	7.1	364	2.32	3.7	0.9	3.1	8.1	16	<0.1	0.2	0.2	37	0.32	0.044
ROS 161033	Soil	1.4	30.8	8.8	82	<0.1	28.1	14.3	941	3.55	4.6	1.9	4.7	14.6	24	0.1	0.3	<0.1	67	0.56	0.070
ROS 164731	Soil	1.6	38.9	6.0	76	<0.1	12.6	10.7	370	2.54	2.9	2.2	2.0	3.4	32	0.2	0.2	<0.1	57	0.49	0.057
ROS 164736	Soil	1.3	23.1	15.2	88	<0.1	18.2	11.5	465	3.86	5.7	1.8	<0.5	18.0	16	<0.1	0.5	0.3	63	0.18	0.041
ROS 164718	Soil	0.6	12.7	5.3	73	<0.1	9.9	8.3	606	3.24	5.3	1.3	1.2	10.1	12	<0.1	0.3	<0.1	47	0.13	0.019
ROS 164734	Soil	0.9	32.8	16.5	99	0.1	16.6	10.9	663	3.12	4.3	2.7	1.0	14.8	30	0.4	0.4	0.3	45	0.83	0.088
ROS 164724	Soil	0.7	33.3	8.2	68	<0.1	17.9	9.9	452	2.73	5.6	0.9	3.4	6.6	39	0.2	0.4	0.2	53	0.43	0.048
ROS 164714	Soil	0.6	10.9	8.1	75	<0.1	10.3	10.0	717	3.83	4.0	2.2	0.8	18.3	15	<0.1	0.3	0.1	55	0.19	0.047
ROS 164737	Soil	1.5	18.2	18.7	93	<0.1	13.6	9.2	502	3.61	6.6	2.4	1.9	17.9	12	0.1	0.4	0.2	42	0.17	0.059
ROS 164730	Soil	13.2	77.3	10.7	102	1.0	22.5	13.0	441	4.54	7.3	48.2	6.1	18.4	62	0.3	0.4	0.6	60	0.83	0.079
ROS 164728	Soil	2.2	141.5	9.4	93	<0.1	9.6	8.1	341	3.38	4.5	3.3	4.5	16.1	43	<0.1	0.3	0.5	42	0.46	0.046
ROS 164732	Soil	5.0	26.0	4.7	77	0.1	30.2	16.1	820	3.15	10.6	1.9	1.2	1.2	59	0.3	0.2	<0.1	76	2.11	0.146
ROS 164733	Soil	3.7	42.5	8.5	66	0.1	27.5	8.2	175	2.39	6.2	1.8	2.8	1.8	30	0.4	0.3	0.1	64	0.69	0.108
ROS 164735	Soil	1.0	16.0	13.6	79	<0.1	21.0	12.9	457	3.32	4.8	1.7	<0.5	22.2	19	0.1	0.3	0.2	56	0.27	0.052
ROS 161165	Soil	0.9	23.1	7.7	52	0.1	17.5	6.9	205	2.55	5.7	2.0	2.2	5.6	33	<0.1	0.4	0.2	46	0.41	0.044
ROS 161163	Soil	0.7	21.2	6.0	56	<0.1	10.8	8.1	389	2.58	3.8	1.4	1.3	8.7	32	<0.1	0.3	0.1	48	0.32	0.036
ROS 161166	Soil	1.1	25.4	7.3	57	<0.1	15.3	7.2	230	2.75	5.5	2.0	2.5	5.8	33	0.1	0.4	0.2	47	0.36	0.049
ROS 161168	Soil	0.7	19.1	6.0	46	<0.1	9.9	6.3	287	2.10	3.6	1.3	0.9	7.1	28	<0.1	0.3	0.2	40	0.28	0.039
ROS 151266	Soil	1.1	22.6	23.0	67	0.2	18.6	10.4	449	2.82	6.0	0.9	1.3	3.8	41	0.2	1.0	0.2	59	0.55	0.031
ROS 151263	Soil	0.7	32.3	8.5	62	0.1	23.1	10.2	348	2.42	9.1	0.8	6.9	2.7	42	0.2	0.8	0.1	50	0.90	0.070
ROS 151264	Soil	0.8	30.5	9.1	67	0.1	23.1	10.1	375	2.39	8.3	0.9	3.1	2.7	47	0.3	0.7	0.1	53	1.03	0.069
ROS 151265	Soil	0.9	27.2	8.1	67	0.1	22.7	8.6	333	2.39	8.2	0.9	3.3	2.2	54	0.3	0.7	0.1	44	1.11	0.060



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
ROS 161023	Soil	20	14	0.94	201	0.108	1	1.52	0.010	0.73	<0.1	0.02	8.2	0.2	<0.05	8	0.8	<0.2
ROS 161028	Soil	11	19	0.62	154	0.102	1	1.68	0.008	0.42	1.0	0.02	4.2	0.3	<0.05	7	<0.5	<0.2
ROS 161026	Soil	26	29	0.65	263	0.083	<1	1.30	0.023	0.18	0.2	0.03	4.0	0.1	<0.05	5	<0.5	<0.2
ROS 161031	Soil	38	20	0.34	138	0.044	<1	1.17	0.009	0.17	0.5	<0.01	5.1	0.1	<0.05	5	0.7	<0.2
ROS 161024	Soil	34	10	0.31	226	0.031	1	0.78	0.008	0.26	0.2	0.04	3.6	0.1	<0.05	3	0.5	<0.2
ROS 161025	Soil	25	19	0.78	226	0.077	<1	1.35	0.019	0.44	0.1	0.03	3.5	0.1	<0.05	5	<0.5	<0.2
ROS 161027	Soil	25	16	0.52	144	0.071	<1	1.44	0.010	0.23	0.1	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
ROS 161033	Soil	49	63	0.92	230	0.056	<1	1.93	0.015	0.26	<0.1	0.03	8.0	0.2	<0.05	8	0.9	<0.2
ROS 164731	Soil	13	20	0.84	173	0.115	<1	1.55	0.021	0.40	0.2	0.02	2.6	0.2	<0.05	5	0.7	<0.2
ROS 164736	Soil	48	31	0.71	158	0.074	<1	2.24	0.013	0.16	<0.1	0.01	5.7	0.2	<0.05	7	0.6	<0.2
ROS 164718	Soil	20	16	1.18	141	0.155	<1	2.41	0.010	0.66	<0.1	<0.01	3.5	0.4	<0.05	8	<0.5	<0.2
ROS 164734	Soil	81	20	0.66	167	0.059	<1	1.75	0.013	0.32	0.1	0.07	5.2	0.3	<0.05	6	0.9	<0.2
ROS 164724	Soil	18	22	0.62	236	0.124	<1	1.73	0.028	0.29	0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2
ROS 164714	Soil	37	18	1.08	168	0.176	<1	2.25	0.015	1.05	<0.1	<0.01	5.0	0.5	<0.05	9	<0.5	<0.2
ROS 164737	Soil	22	23	0.56	143	0.086	<1	1.71	0.012	0.40	0.1	0.01	4.7	0.3	<0.05	7	0.5	<0.2
ROS 164730	Soil	56	26	0.64	329	0.103	1	3.03	0.017	0.24	0.1	0.18	5.3	0.2	0.09	11	2.0	<0.2
ROS 164728	Soil	39	12	0.67	146	0.114	<1	2.00	0.027	0.31	0.1	0.01	4.3	0.1	<0.05	8	0.7	<0.2
ROS 164732	Soil	11	43	0.82	142	0.065	1	1.32	0.014	0.05	<0.1	0.03	3.7	<0.1	0.06	6	1.2	<0.2
ROS 164733	Soil	14	40	0.55	152	0.046	<1	1.46	0.015	0.04	0.1	0.04	3.5	<0.1	<0.05	5	0.9	0.3
ROS 164735	Soil	22	37	0.70	128	0.073	<1	2.09	0.010	0.17	0.2	0.01	4.0	0.2	<0.05	6	<0.5	<0.2
ROS 161165	Soil	16	26	0.54	236	0.093	<1	2.03	0.021	0.10	0.2	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
ROS 161163	Soil	20	19	0.66	175	0.146	<1	1.87	0.022	0.40	0.2	<0.01	4.2	0.2	<0.05	6	<0.5	<0.2
ROS 161166	Soil	17	25	0.54	228	0.095	<1	2.13	0.018	0.15	<0.1	0.03	3.3	0.1	<0.05	6	<0.5	0.3
ROS 161168	Soil	18	17	0.54	163	0.109	<1	1.61	0.020	0.30	0.1	<0.01	3.1	0.2	<0.05	5	0.5	<0.2
ROS 151266	Soil	20	37	0.63	306	0.069	1	2.04	0.017	0.13	0.2	0.03	4.7	<0.1	<0.05	7	0.6	<0.2
ROS 151263	Soil	12	30	0.60	308	0.062	2	1.42	0.032	0.07	0.3	0.04	3.3	<0.1	<0.05	4	0.8	<0.2
ROS 151264	Soil	12	30	0.61	317	0.061	2	1.36	0.030	0.07	0.2	0.05	3.0	<0.1	<0.05	4	0.6	<0.2
ROS 151265	Soil	10	26	0.58	320	0.051	2	1.31	0.024	0.06	0.1	0.04	2.9	<0.1	<0.05	4	0.6	<0.2



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Project: ROS
Report Date: November 16, 2010

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Method	1DX15	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	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
ROS 161155	Soil	0.4	15.3	5.0	70	<0.1	8.3	10.3	665	3.74	2.4	1.8	0.7	14.4	39	<0.1	0.2	0.1	55	0.59	0.036
REP ROS 161155	QC	0.3	15.2	4.8	70	<0.1	8.8	10.2	619	3.61	2.8	1.8	2.1	14.7	38	<0.1	0.2	0.1	52	0.58	0.032
ROS 159365	Soil	1.0	15.1	7.6	39	<0.1	13.1	6.8	500	2.19	5.6	0.8	2.3	5.9	18	<0.1	0.4	0.2	51	0.22	0.023
REP ROS 159365	QC	0.9	14.8	8.3	42	<0.1	13.4	6.7	498	2.28	6.0	0.8	2.6	6.1	19	<0.1	0.4	0.2	51	0.23	0.025
ROS 162858	Soil	0.6	24.0	8.0	62	<0.1	16.7	7.9	364	2.32	5.0	2.2	1.4	4.8	75	0.1	0.5	0.1	50	0.95	0.063
REP ROS 162858	QC	0.6	24.0	7.6	60	<0.1	16.6	7.5	357	2.33	5.0	2.2	1.5	4.7	70	0.1	0.4	0.1	47	0.95	0.064
ROS 161161	Soil	0.8	17.9	7.2	46	<0.1	14.2	6.8	261	2.36	5.7	1.5	3.0	6.3	29	<0.1	0.3	0.1	48	0.36	0.041
REP ROS 161161	QC	0.8	18.1	7.1	45	<0.1	14.6	7.1	265	2.33	5.4	1.4	1.5	6.2	29	<0.1	0.3	0.1	51	0.36	0.040
ROS 159525	Soil	1.0	15.9	10.7	68	<0.1	16.3	8.0	399	2.85	5.1	1.5	5.1	8.0	31	<0.1	0.3	0.2	64	0.25	0.025
REP ROS 159525	QC	0.9	16.7	10.3	66	<0.1	15.3	7.8	394	2.78	4.9	1.4	1.0	8.2	31	<0.1	0.3	0.1	63	0.25	0.027
ROS 164835	Soil	0.7	118.9	13.0	69	<0.1	281.9	34.3	715	4.40	5.6	3.0	2.9	9.9	143	<0.1	0.4	<0.1	126	0.96	0.205
REP ROS 164835	QC	0.7	113.9	13.2	66	<0.1	274.7	33.5	692	4.32	5.2	2.9	9.3	9.8	140	<0.1	0.4	0.1	125	0.92	0.206
ROS 161028	Soil	1.7	91.3	19.6	198	0.2	12.2	9.8	945	3.93	23.9	1.1	2.0	7.1	14	0.4	0.3	3.7	60	0.31	0.100
REP ROS 161028	QC	1.6	89.5	20.1	188	0.2	12.1	9.9	899	3.74	23.3	1.0	2.4	6.8	13	0.4	0.3	3.4	60	0.31	0.100
ROS 151266	Soil	1.1	22.6	23.0	67	0.2	18.6	10.4	449	2.82	6.0	0.9	1.3	3.8	41	0.2	1.0	0.2	59	0.55	0.031
REP ROS 151266	QC	1.1	23.0	23.7	72	0.2	19.0	10.6	461	2.96	6.2	1.0	1.5	3.8	41	0.2	1.0	0.1	60	0.56	0.031
Reference Materials																					
STD DS7	Standard	21.0	112.1	72.9	431	1.2	57.7	9.4	660	2.52	52.8	5.1	119.5	4.7	73	6.3	6.5	5.1	85	0.95	0.077
STD DS7	Standard	21.7	118.9	79.2	415	1.1	59.3	10.0	692	2.53	55.0	5.5	74.1	5.3	86	6.7	7.1	5.4	90	0.99	0.077
STD DS7	Standard	22.4	117.3	81.5	421	1.1	58.8	10.0	670	2.55	54.2	5.3	80.3	5.4	85	6.4	6.9	5.3	93	1.01	0.082
STD DS7	Standard	19.9	107.4	66.4	393	1.0	53.2	9.2	608	2.35	49.9	4.6	61.2	4.4	67	6.2	5.8	4.4	82	0.89	0.078
STD DS7	Standard	19.9	103.5	65.7	382	1.0	56.0	9.3	623	2.39	49.8	4.5	68.2	4.3	72	6.0	5.7	4.3	79	0.90	0.081
STD DS7	Standard	20.2	120.2	65.4	389	0.9	54.3	9.2	625	2.26	51.5	4.4	73.9	4.4	69	6.0	5.5	4.7	80	0.85	0.076
STD DS7	Standard	17.3	99.7	59.0	351	0.9	50.7	8.4	546	2.08	45.4	3.9	62.0	3.4	53	5.5	5.1	4.1	73	0.77	0.064
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: ROS
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Method	Analyte	Unit	MDL	1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
Pulp Duplicates																				
ROS 161155	Soil			45	14	0.96	184	0.168	<1	2.58	0.012	0.62	0.1	0.02	4.0	0.3	<0.05	9	<0.5	<0.2
REP ROS 161155	QC			42	14	0.92	173	0.165	2	2.43	0.011	0.58	0.1	0.01	4.0	0.3	<0.05	9	<0.5	<0.2
ROS 159365	Soil			27	26	0.43	211	0.068	<1	1.47	0.009	0.07	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
REP ROS 159365	QC			29	27	0.46	207	0.074	2	1.58	0.010	0.07	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
ROS 162858	Soil			21	22	0.60	364	0.067	2	1.67	0.023	0.15	<0.1	0.04	4.5	<0.1	0.05	6	0.5	<0.2
REP ROS 162858	QC			21	22	0.60	364	0.068	3	1.66	0.023	0.15	0.1	0.05	4.4	0.1	<0.05	5	0.6	<0.2
ROS 161161	Soil			19	24	0.59	205	0.102	1	1.55	0.018	0.09	0.1	0.03	3.2	0.1	<0.05	5	<0.5	<0.2
REP ROS 161161	QC			19	25	0.59	208	0.109	2	1.51	0.020	0.09	0.1	0.02	3.3	<0.1	<0.05	5	0.7	<0.2
ROS 159525	Soil			21	28	0.70	151	0.151	<1	2.01	0.013	0.19	0.1	<0.01	3.6	0.2	<0.05	8	<0.5	<0.2
REP ROS 159525	QC			21	28	0.68	150	0.151	<1	2.00	0.014	0.19	0.1	0.02	3.5	0.2	<0.05	8	<0.5	<0.2
ROS 164835	Soil			29	235	3.95	684	0.233	3	2.98	0.027	0.44	0.2	0.02	3.3	<0.1	<0.05	9	<0.5	<0.2
REP ROS 164835	QC			29	243	3.82	680	0.222	4	2.89	0.026	0.42	0.2	0.01	3.1	<0.1	<0.05	9	<0.5	<0.2
ROS 161028	Soil			11	19	0.62	154	0.102	1	1.68	0.008	0.42	1.0	0.02	4.2	0.3	<0.05	7	<0.5	<0.2
REP ROS 161028	QC			10	19	0.61	149	0.101	1	1.62	0.009	0.43	1.1	0.02	4.0	0.3	<0.05	7	0.5	<0.2
ROS 151266	Soil			20	37	0.63	306	0.069	1	2.04	0.017	0.13	0.2	0.03	4.7	<0.1	<0.05	7	0.6	<0.2
REP ROS 151266	QC			21	40	0.63	310	0.071	1	2.03	0.019	0.13	0.2	0.03	4.8	<0.1	<0.05	7	0.6	<0.2
Reference Materials																				
STD DS7	Standard			13	194	1.08	430	0.124	40	1.02	0.097	0.52	4.2	0.24	2.2	4.3	0.21	5	3.4	1.0
STD DS7	Standard			15	218	1.12	422	0.143	39	1.12	0.103	0.52	3.8	0.23	2.6	4.4	0.24	5	3.9	1.7
STD DS7	Standard			14	216	1.13	438	0.144	43	1.09	0.103	0.53	3.8	0.24	2.4	4.4	0.23	5	3.2	1.1
STD DS7	Standard			12	196	1.08	395	0.113	44	1.01	0.100	0.46	3.9	0.23	2.3	4.0	0.18	5	3.1	1.2
STD DS7	Standard			12	191	1.05	382	0.113	38	1.00	0.101	0.50	3.7	0.21	2.5	4.2	0.21	5	3.3	1.4
STD DS7	Standard			12	184	1.02	392	0.116	39	0.95	0.092	0.46	3.6	0.21	2.3	4.3	0.17	5	2.2	1.0
STD DS7	Standard			10	177	0.89	344	0.097	34	0.82	0.076	0.43	3.2	0.19	1.8	3.2	0.22	4	2.6	0.3
STD DS7 Expected				12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank			<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

Appendix D – Airborne Geophysical Survey (Volume III)

Airborne Geophysical Survey Report



Precision
GeoSurveys Inc.

Rose Bute Property

Prepared for: Taku Gold Corp.

November, 2010
Jenny Poon, B.Sc. GIT

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1.0 Introduction:

This report outlines the survey operations and data processing actions taken during the airborne geophysical survey flown at the Rose Bute Block. The airborne geophysical survey was flown by Precision GeoSurveys Inc. for Taku Gold Corp. The geophysical survey, carried out from September 27, 2010 to September 29, 2010, saw the acquisition of gamma ray spectrometer data and magnetic data.

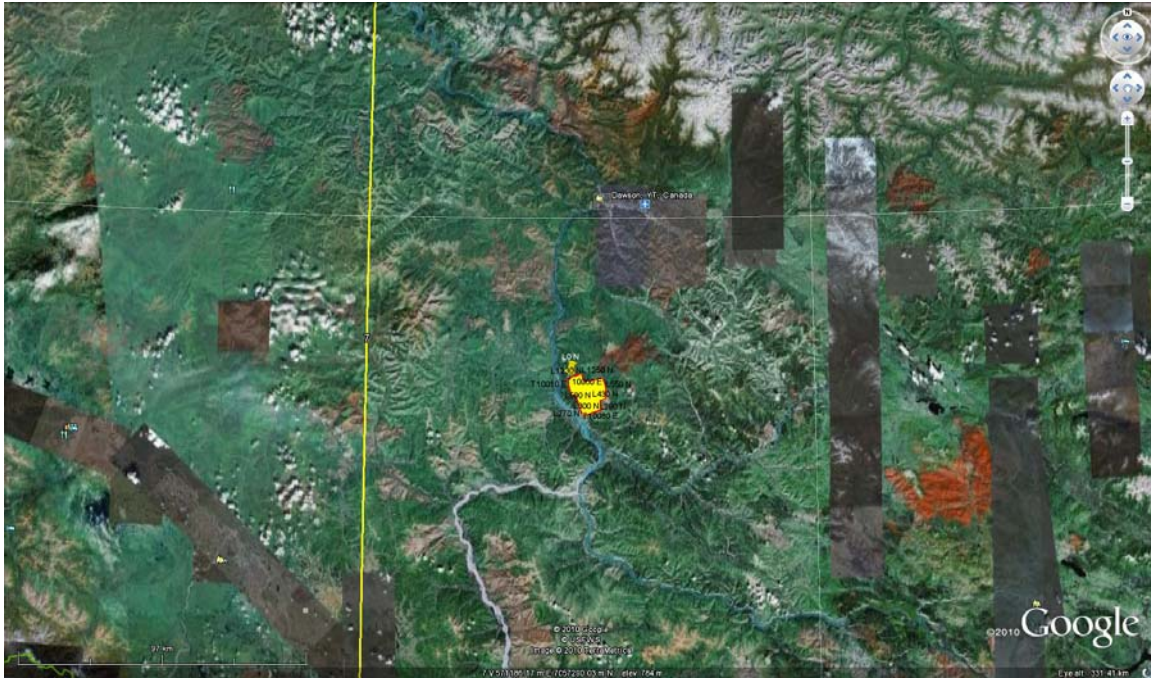


Figure 1: Rose Bute Block area location relative to Dawson, YT.

The Rose Bute Block is located south of Dawson, YT and north of Thistle Creek (Figure 1). It is located approximately 64 km south of Dawson, YT (Figure 2). The survey area itself is approximately 11 km by 13 km. A total of 1107.2 line kilometers of radiometric and magnetic data were flown for this survey; this total includes tie lines and survey lines. The survey lines were flown at 100 meter spacings at a $070^{\circ}/250^{\circ}$ heading; the tie lines were flown at 1 km spacings at a heading of $160^{\circ}/340^{\circ}$.



Figure 2: Survey and tie lines outlined in yellow and the boundary in red.

2.0 Geophysical Data:

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

For the purposes of this survey, airborne gamma ray spectrometer and magnetic data were collected to serve in the exploration of the Rose Bute Block which contains rocks that are prospective for gold mineralization.

2.1 Magnetic Data:

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

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

2.2 Radiometric Data:

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

3.0 Survey Operations:

Precision GeoSurveys flew the Rose Bute Block using a Bell 206 BIII Jet Ranger (Figure 3). The survey lines were flown at a nominal line spacing of one hundred (100) meters and the tie lines were flown at 1 km spacing for both the spectrometer and magnetometer as they were acquired simultaneously. The average survey elevation was 30.4 meters vertically above ground. The experience of the pilots helped to ensure that the data quality objectives were met and that the safety of the flight crew was never compromised given the potential risks involved in airborne surveying.



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

The base of operations for this survey was the Gimlex camp located approximately 36 km south-east of Dawson, YT. The Precision crew consisted of a total of four members:

Harmen Keyser and Paul Greenwood – Pilots
Peter Barker – Operator
Jenny Poon – On-site Geophysicist

The survey was flown on September 27, 2010 to September 29, 2010 with variable snow covered conditions. The survey was complete with some delays due to fog and low cloud ceilings.

4.0 Equipment:

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

4.1 AGIS:

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



Figure 4: AGIS installed in the Bell 206.

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

4.2 Spectrometer:

The IRIS, or Integrated Radiometric Information System is a fully integrated, gamma radiation detection system containing two downward facing NaI detecting crystals for a total volume of 8.4 litres (Figure 5). Real time data acquisition, navigation and

communication tasks are integrated into a single unit that is installed in the rear of the aircraft as indicated below. Information such as total count, counts of various elements (K, U, Th, etc.), temperature, barometric pressure, atmospheric humidity and survey altitude can all be monitored on the AGIS screen for immediate QC. All the radiometric data are recorded at 1 Hz.



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

4.3 Magnetometer:

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



Figure 6: View of the mag stinger.

4.4 Base Station:

For monitoring and recording of the Earth’s diurnal magnetic field variation, Precision GeoSurveys uses a Scintrex proton precession Envi Pro magnetometer as its base station (Figure 7). This is mounted as close to the survey block as possible to give high, accurate magnetic field data. The Envi Pro base station, uses the well proven precession technology to sample at a rate of 0.5 Hz. A GPS is integrated with the system to record real GPS time that is used to correlate with the GPS time collected by the airborne CS-3 magnetometer.



Figure 7: Scintrex Envi Pro proton precession magnetometer.

4.5 Laser Altimeter:

The pilot is provided with terrain guidance and clearance with an Acuity AccuRange AR3000 laser altimeter (Figure 8). This is attached at the aft end of the magnetometer boom. The AR3000 sensor is a time-of-flight sensor that measures distance by a rapidly-modulated and collimated laser beam that creates a dot on the target surface. The maximum range of the laser altimeter is 300 m off of natural surfaces with 90% reflectance and 3 km off special reflectors. Within the sensor unit, reflected signal light is collected by the lens and focused onto a photodiode. Through serial communications and analog outputs, the distance data are transmitted and collected by the AGIS at 10 Hz.



Figure 8: Acuity AccuRange AR3000 laser altimeter.

5.0 Data Processing:

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

5.1 Magnetic Processing:

During aeromagnetic surveying noise is introduced to the magnetic data by the aircraft itself, movement in the aircraft (roll, pitch and yaw) and the permanent magnetization of the aircraft parts (engine and other ferric objects) are large contributing factors to this noise. To remove this noise a process called magnetic compensation is implemented. The magnetic compensation process starts with a test flight at the beginning of the survey where the aircraft flies in the four orthogonal headings required for the survey ($041^{\circ}/220^{\circ}$ and $124^{\circ}/309^{\circ}$ in the case of this survey) at an elevation where there is no ground effect in the magnetic data. In each heading roll, pitch and yaw maneuvers are performed by the pilot, these maneuvers provide the data that is required to calculate the necessary parameters for compensating the magnetic data. A computer program called PEIComp is used to create a model for each survey to remove the noise induced by aircraft movement; this model is applied to each survey flight so the data can be further processed.

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

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

A lag correction was applied to the total magnetic field data to compensate for the lag in the recording system as the magnetometer sensor flies 6.45 m ahead of the GPS antenna. Following a lag correction of 1.7 seconds, a low-pass filter equivalent to 1 second was then applied to the lag corrected data.

5.2 Radiometric Processing:

Radiometric data are processed by windowing the full spectrum to create channels for U, K, Th and total count. A lag correction was also applied to the radiometric data as Pico compensator introduces a lag of 1.4 secs into the positional coordinates for the radiometric data. The data are then lightly filtered and corrected for survey altitude at standard temperature and pressure. Background radioactive contributions from the aircraft, cosmic radiation and atmospheric radon must also be removed. Finally the data are corrected by removing spectral overlap; this is done using the stripping ratios that have been calculated for the spectrometer by prior calibration, this breaks the corrected elemental values down into the apparent radioelement concentrations.

5.3 Final Data Format

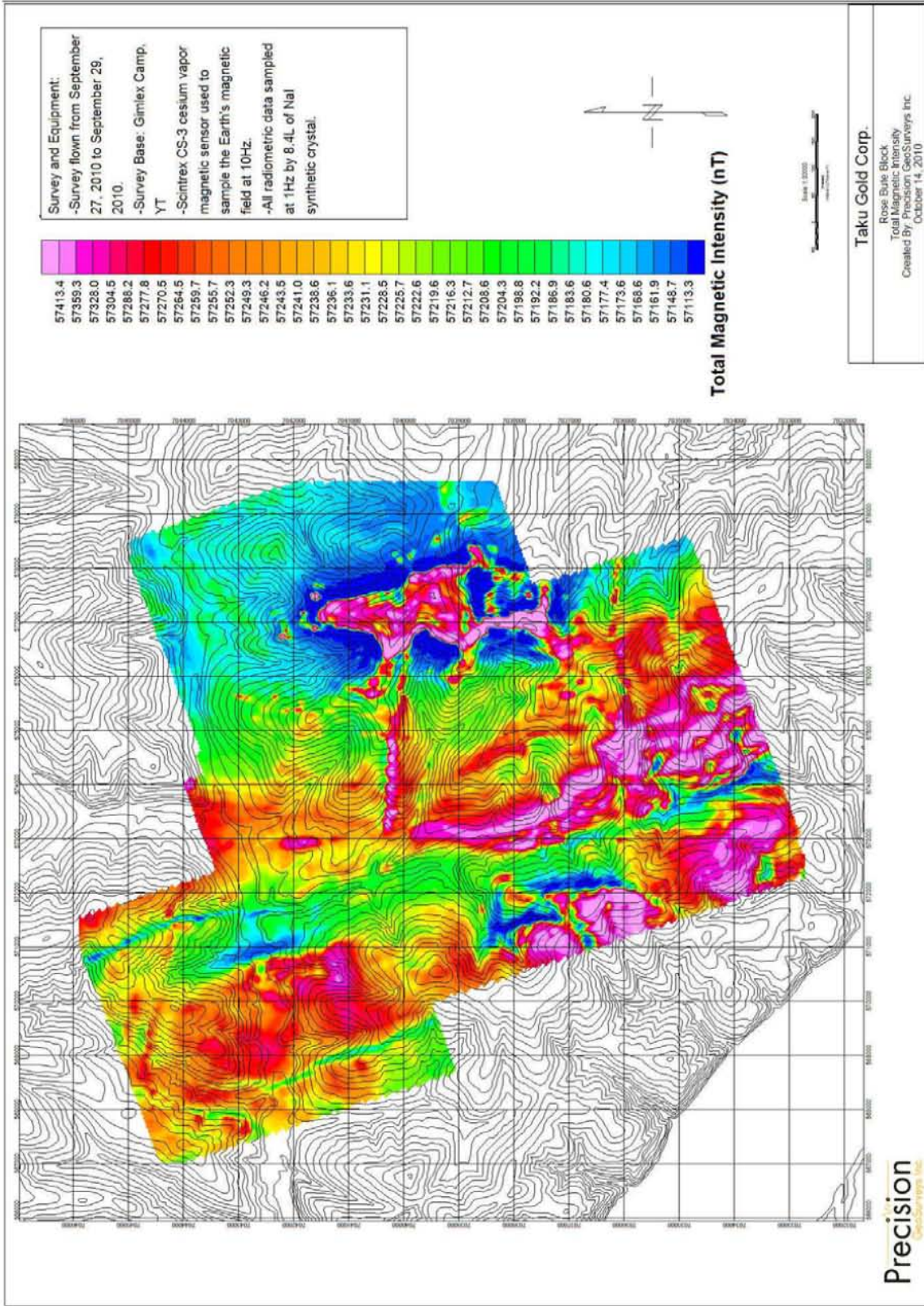
Abbreviations used in the GDB files are as follows:

X – Easting in WGS84, UTM zone 7N
Y – Northing in WGS84, UTM zone 7N
GPStime – GPStime
basemag – diurnal data
mag – total magnetic field
galt – gps altimeter readings
lalt – laser altimeter readings
dtm – digital terrain model
TC_cor – corrected total count
K_cor – corrected potassium
U_cor – corrected uranium

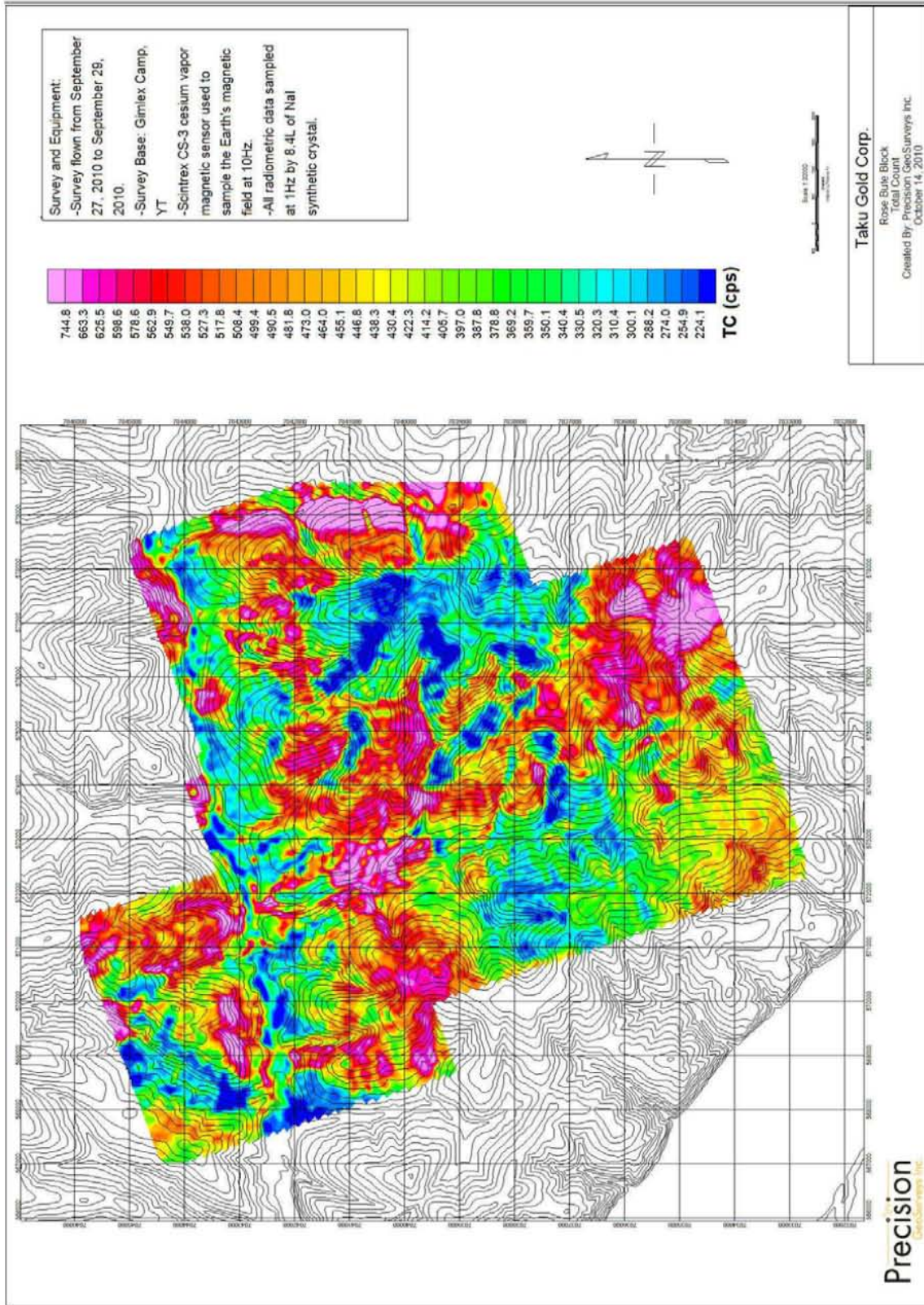
Th_cor – corrected thorium

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

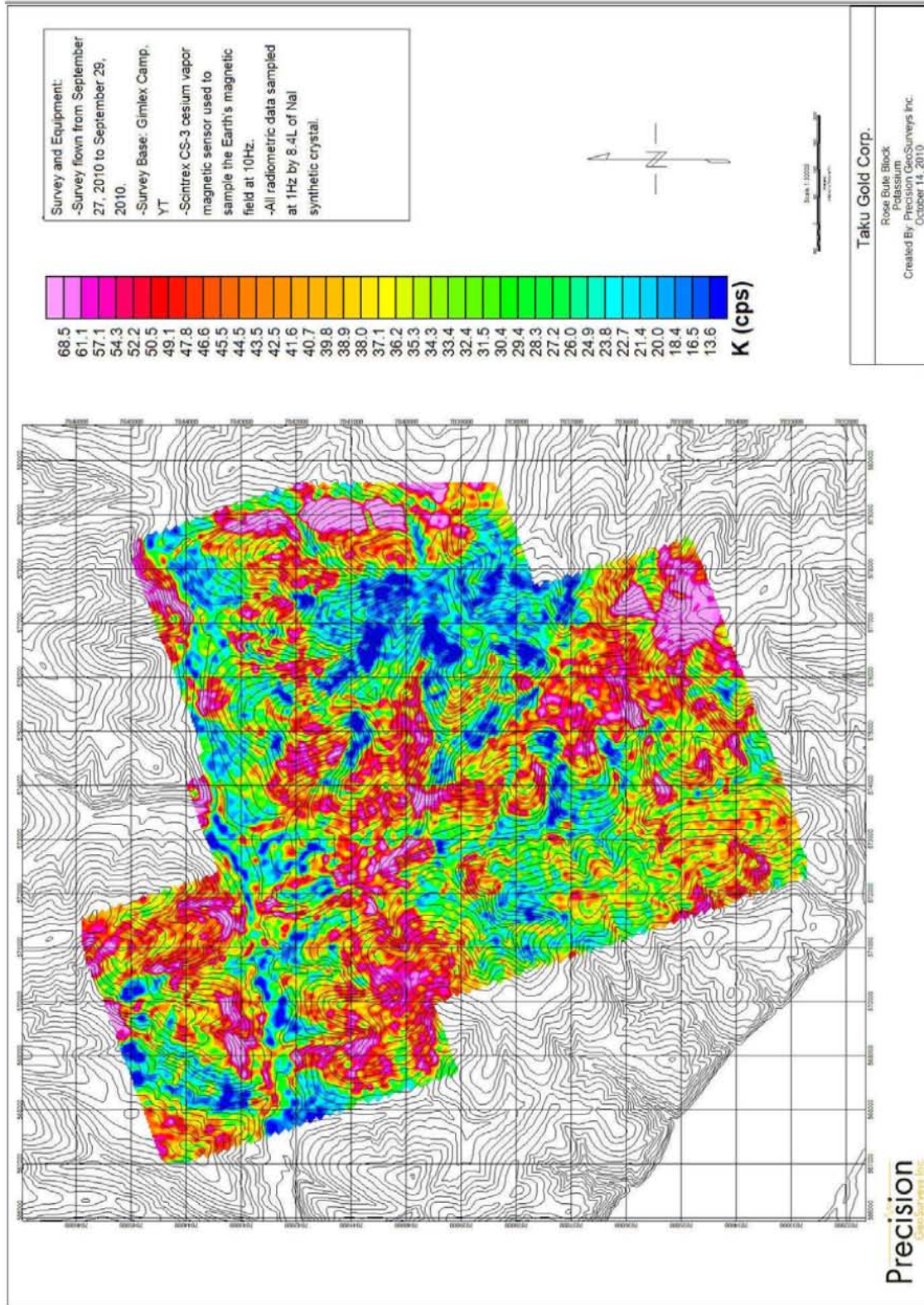
Appendix A
Maps



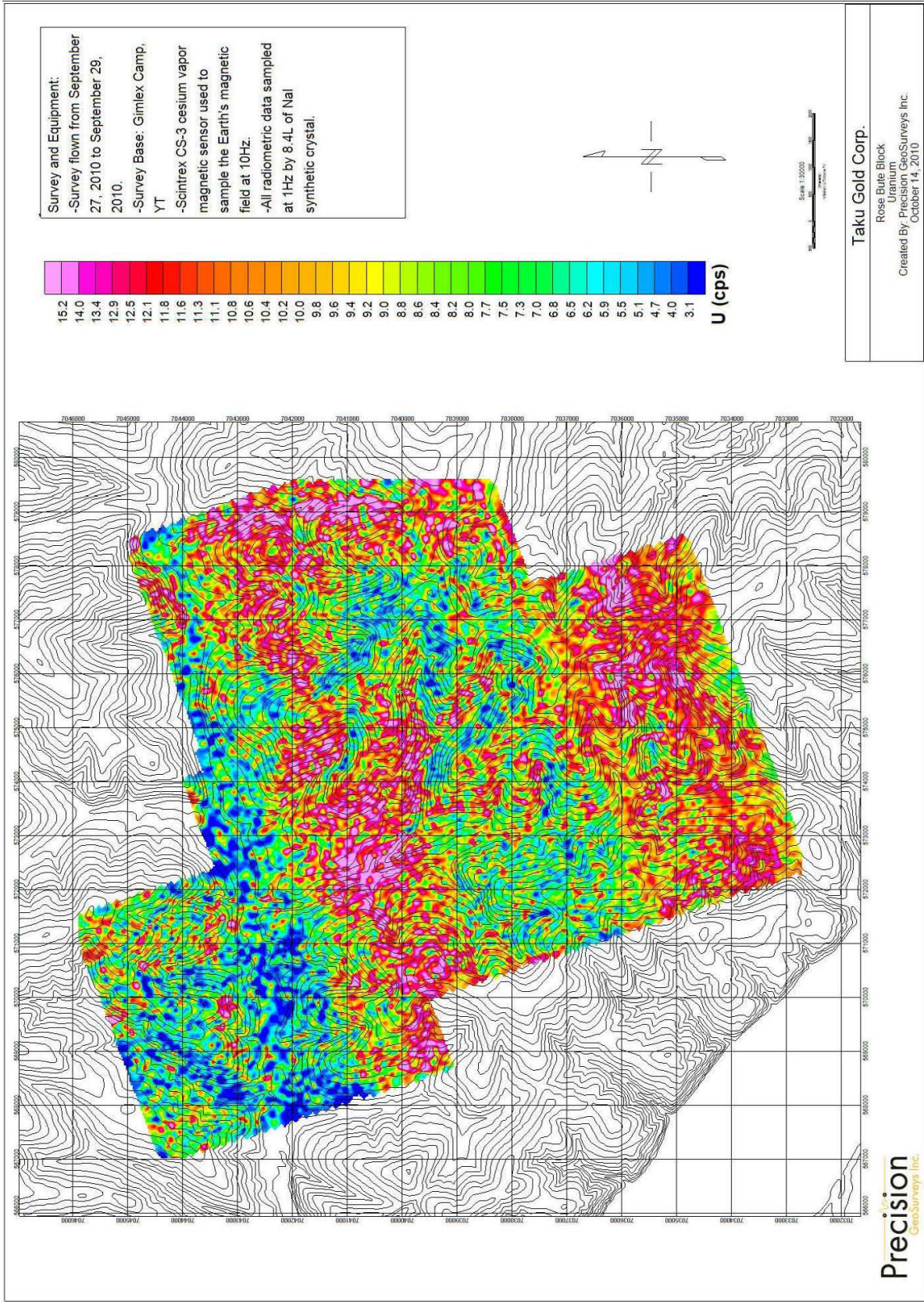
Map 1: Rose Bute block total magnetic intensity.



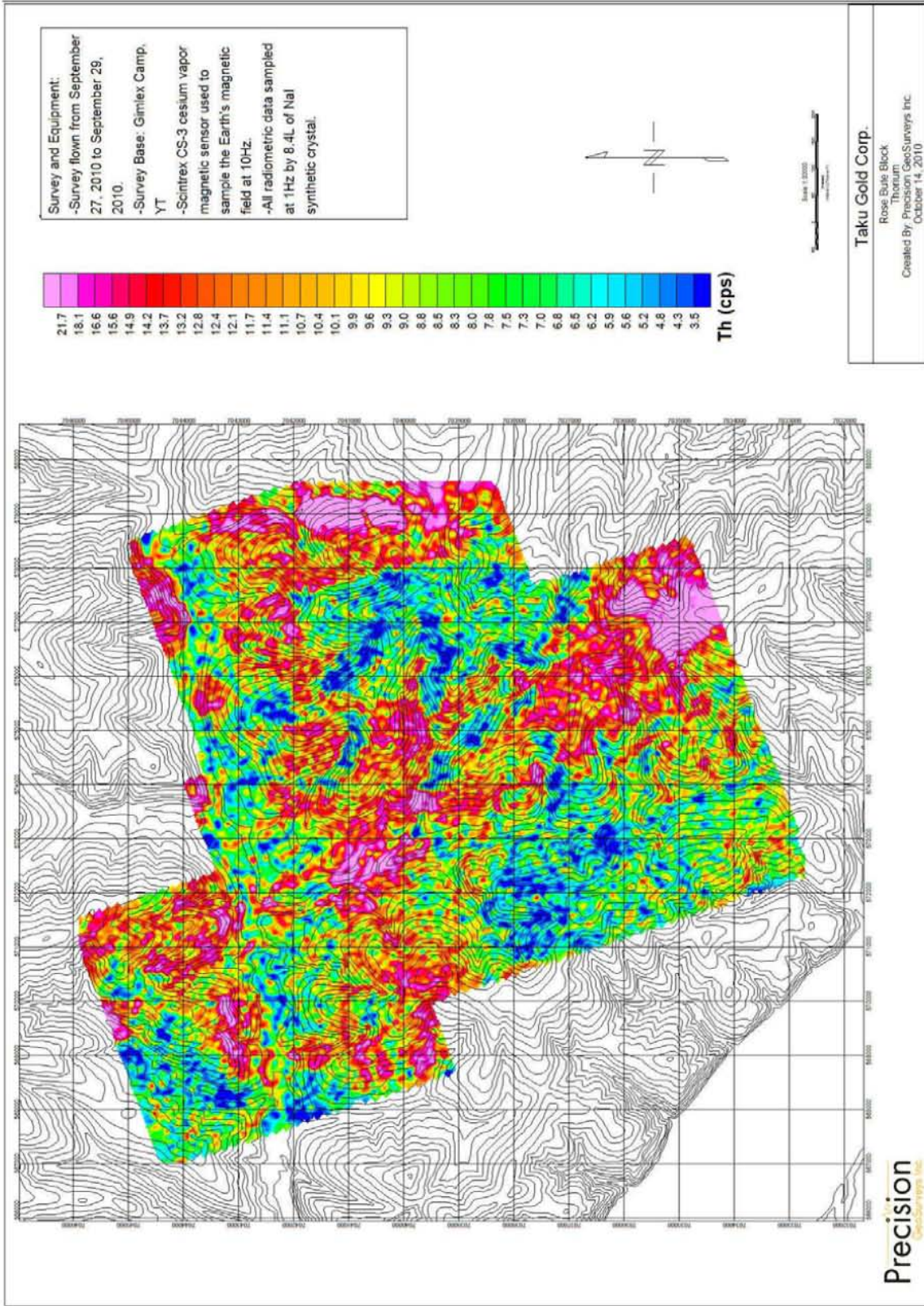
Map 2: Rose Bute block total count.



Map 3: Rose Bute block potassium.



Map 4: Rose Bute block uranium.



Map 5: Rose Bute block thorium.