

Surface Work 2011

On the

Quartz Property

**QZ 1 to 100 (YD28801 to YD28900)
QZ 101 to 146 (YD 28121 to YD 28166)**

**Dawson Mining District, Yukon
NTS Sheet 115O14 (Grand Forks)
63°48'N. Lat., 139°07'W. Long.**

Operated by and Recorded to



**By
Mark Fekete, P.Geo.
and
Neda Dokic, B.Sc., GIT
December 1, 2011**

Summary

From August 27, 2011 to December 1, 2011 Taku Gold Corp. completed a surface exploration program on the 146-claim (3,022ha) Quartz property located at the headwaters of Calder Creek, a tributary to Quartz Creek, some 30km southeast of Dawson City, Yukon. The work included deep auger-type soil geochemical grid survey. The goal of the work was to identify potential gold-bearing structures by outlining geochemical trends.

The Quartz property is held 100% by Taku Gold Corp. under the terms of a purchase and sale agreement with a local prospecting syndicate subject to 2% royalty on mineral production. The Property is located in an isolated part of the Yukon with no local resources or infrastructure. Fuel, supplies and equipment can be trucked in from Dawson City using a network of summer roads.

Taku Gold Corp. completed a surface exploration program on the Quartz property in 2010. This program consisted of an airborne geophysical survey over the entire Property and a deep auger-type soil geochemical survey. The southeast corner of the Property borders Quartz Creek where placer mining is currently underway and has been ongoing since the Klondike Gold Rush. Prior to Taku, several companies have conducted geochemical sampling surveys and some trenching on the Property.

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. Limited mapping on the Property indicates that it is underlain by the Permian Klondike schist with lesser amounts of Permian orthogneiss.

The Property lies in the underexplored Klondike-White Gold district of the loosely defined Tintina Gold Belt. Taku's exploration effort at Quartz 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 70km south of Quartz. 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 593-sample geochemical survey grid was completed over the northwest corner of the Property. The soil samples were collected with hand augers at 50m sample intervals along GPS traverse lines spaced 100m apart. The samples were analyzed for 36 elements by ISO 9001-accredited Acme Analytical Laboratories Ltd.

The soil samples returned gold values ranging from below the detection limit (i.e. <5ppb Au) to a maximum of 144.4ppb Au. A small cluster of anomalous gold results was identified in the middle of the northern portion of the sampling grid. The gold values in the cluster are not very strong and the area it covers is not extensive, but it does appear that the gold values are related to the magnetic high identified in the 2010 geophysical survey.

Although the overall gold-in-soil results are not outstanding, at least two days of prospecting and rock sampling should be spent in the area in an effort to explain the cluster of anomalous gold values and coincident magnetic anomaly. The estimated cost of this work would be \$3,000 for a two-man crew including food and lodging, supplies, rentals, transportation and assays.

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 Quartz property on numerous occasions including most recently in July 2011;
3. I co-wrote and I am, as the senior author and qualified person, responsible for the contents of this technical report entitled "Surface Work 2011 on the Quartz Property, Dawson Mining District, Yukon, NTS Sheet 115O14 (Grand Forks), 63°48'N. Lat., 139°07'W. Long.," 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 Quartz property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-10,1 and according to Form 43-101F1.

Respectfully submitted this 1st day of December 2011,

(s) "**Mark Fekete**"

Mark Fekete, P.Geo.

Certificate of Qualifications

I, Neda Dokic, having my place of residence at 60 Stope Way in Whitehorse in the Territory of the Yukon 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 Quartz property;
3. I co-wrote this technical report entitled “Surface Work 2011 on the Quartz Property, Dawson Mining District, Yukon, NTS Sheet 115O14 (Grand Forks), 63°48’N. Lat., 139°07’W. Long.,” 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 Quartz property as a result of my prior involvement with the property; and
7. I have read, and this report has not been prepared for the purposes, nor in full compliance with, National Instrument 43-10,1 and according to Form 43-101F1.

Respectfully submitted this 1st day of December 2011,

(s) “*Neda Dokic*”

Neda Dokic, 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 Quartz property (“Quartz” or the “Property”) in Yukon in 2011. The Report describes the soil geochemical sampling survey completed.

The goal of the surface work was to identify areas of anomalous gold-in-soil that may be related to the gold bearing structures similar to Kinross’s White Gold deposit located about 70km due south of the Property.

The Report is based primarily on the results of the work completed on Quartz in 2011 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 Neda Dokic (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 WGS84, Zone 7N unless otherwise stated.

2. Reliance on Other Experts

The Authors may have relied on technical data and interpretations 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 3,022 hectares within the Dawson Mining Division of Yukon. It is located at the headwaters of Calder Creek, a tributary of Quartz Creek, some 30km southeast of Dawson City (Figure 1). The approximate center of the Property is described by 63°48’00” North Latitude and 139°07’00” West Longitude on N.T.S. Sheets 115O14 (Grand Forks). The Property includes 146 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	#
QZ 1 to 100	YD28801 to YD28900	30-Jul-16	100
QZ 101 to 146	YD28121 to YD28166	30-Jul-16	46
			146

559,673

579,673

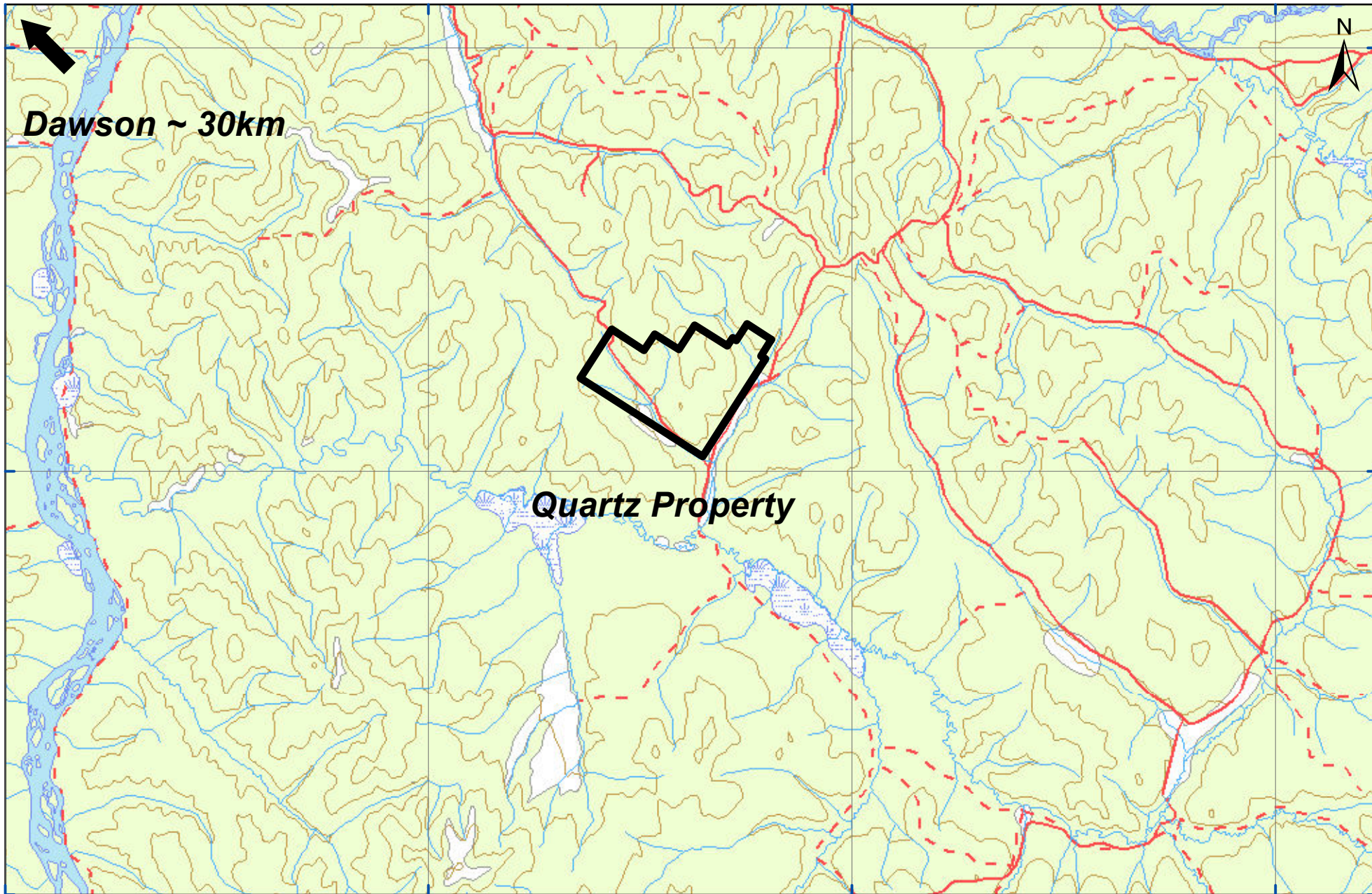
599,673

619,673

7,093,335

7,073,335

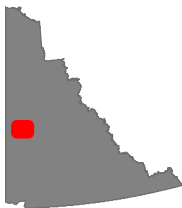
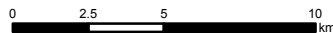
7,053,335



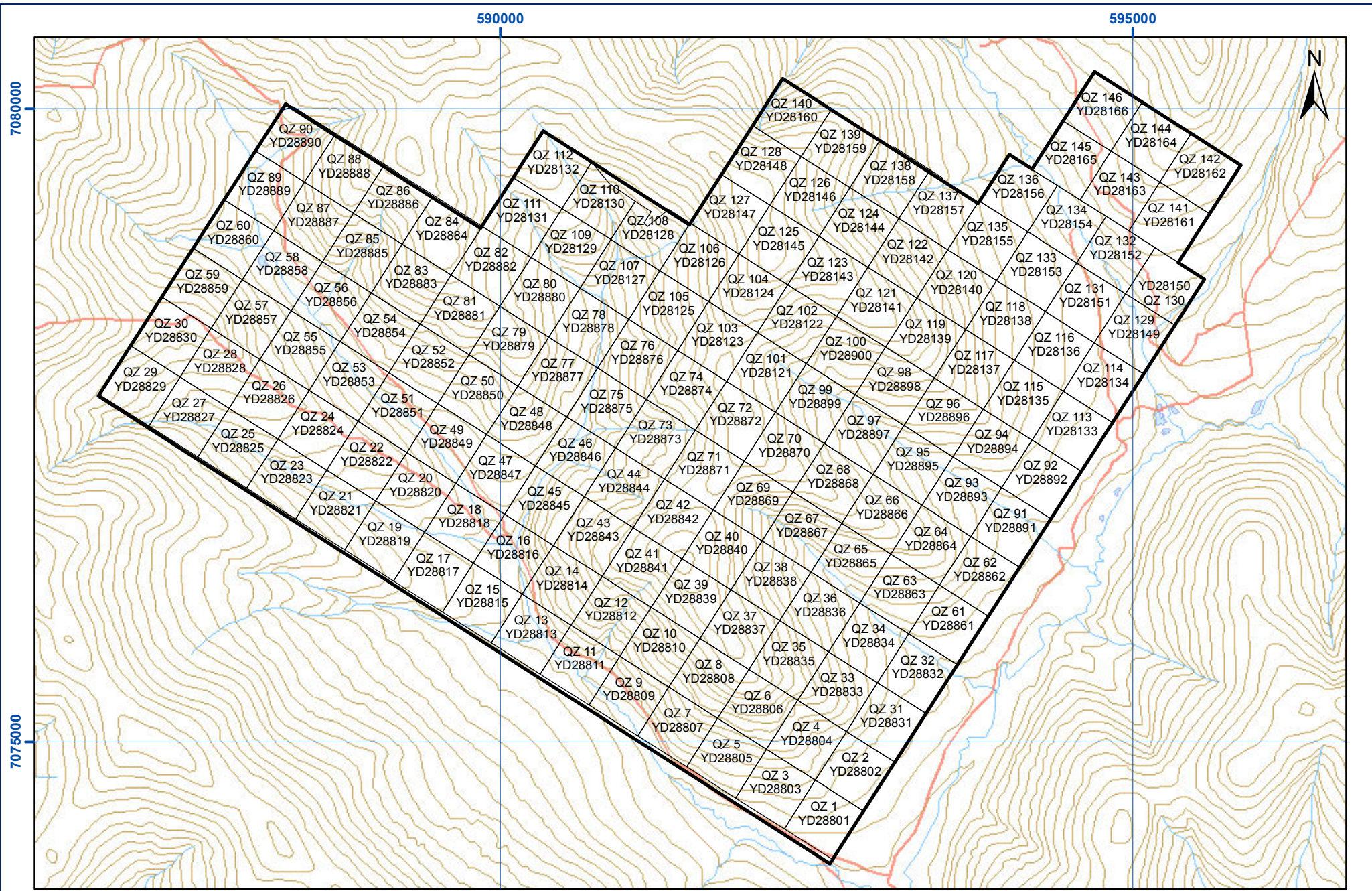
QUARTZ PROPERTY

Figure 1. GENERAL LOCATION

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



Quartz Property
 Figure 1. General Location
 Taku Gold Corp.
 NTS Sheet: 1150
 Date: October 23, 2011



QUARTZ PROPERTY
Figure 2. CLAIMS MAP

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:40 000

Quartz Property
 Figure 2. Claims Map
 Taku Gold Corp.
 NTS Sheet: 115O/14
 Date: October 23, 2011



On August 20, 2010 Taku entered into a purchase and sale agreement with a local prospecting syndicate (the “Vendors”) of Dawson City, Yukon. Under the terms of the agreement, Taku agreed to purchase the Property in consideration of one-hundred and sixty-five thousand (165,000) common shares and the staking costs not to exceed two-hundred and fifty dollars (\$250) per claim. The Vendors are entitled to a production royalty (the “Royalty”) consisting of two per cent (2%) Net Smelter Return (“NSR”) royalty on all smeltable minerals of metals extracted from the claims. Taku has the right to purchase one-half (or one per cent) of the Royalty for one million dollars (\$1,000,000) cash.

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

Access to the Property is relatively good compared to other parts of the Dawson City area as it is reachable by a network of summer roads (Figure 1). To get to the Property from Dawson City one takes the Hunker Creek Road and then left onto Quartz Creek Road until Readford where one takes a right onto the Calder Creek Road.

The Quartz property is located in an isolated part of Yukon with relatively few local resources or infrastructure. The Property can be worked from Dawson City by truck 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 available including line-cutting, geophysics, drilling, assaying, aircraft charters etc.

The Property covers the headwaters of Calder 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 500m to 940m 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
Placer Dome Inc.	1990	092853	J.M. Kowalchuk	Soil geochem	092853.pdf
Barramundi Gold Ltd.	1997	093711	R. Stevens	Soil Geochem/Trenching	093711.pdf
Barramundi Gold Ltd.	1999	094021	W.A. (Sandy) Sears	Geophysics	094021.pdf

There are a number of mineral showings documented within and adjacent to the area of the Property listed in Table 3 below:

Table 3 - MINFILE Showings

MINFILE No.	MINEFILE Name	Link
1150 078	Jen	1150 078
1150 117	Blanche	1150 117
1150 129	Schramm	1150 129
1150 161	Readford	1150 161

Quartz or hard rock prospecting and placer mining in the Quartz Creek area dates back to the Klondike Gold Rush and has continued sporadically since then. The work completed in the early 1900s is today seen as signs of old workings consisting of tunnels being dug into the clay to test the channels along the lower parts of the creek (AFR No. 092853).

In 1972, Conwest carried out mapping and geochemical sampling surveys, along with some bulldozer trenching in 1973 (AFR No. 092853).

In 1989 Placer Dome Inc. took 90 soil samples, at 20 meter intervals along three contour lines on the east bank of the south flowing creek (AFR No. 092853).

JAE Resources Inc. completed mapping, geochemical sampling and trenching in 1996. The goal of the work was to identify the location and nature of the gold-bearing rock types and acquire an understanding to the geology (AFR No. 093711).

Taku Gold Corp. completed a surface exploration program on the Quartz property in 2010. This program consisted of a 339.6 line kilometer high resolution magnetic and radiometric airborne survey over the entire Property. This survey showed a strong magnetic high in the northwest corner of the Property. Also a 902-sample deep auger-type soil geochemical survey was completed. The soil samples were collected with hand augers at 50m sample intervals and 450m line spacings. A cluster of seven anomalous gold-in-soil

values, with the highest being 25.6ppb Au, were identified in the northwest corner of the Property within the magnetic high (Fekete and Dokic, 2011).

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.

The Property lies within the Klondike gold district of the Stewart River area (Figure 3). The district has been interpreted to be underlain by the Klondike assemblage (Mortensen, 1990, 1996) which is comprised of strongly deformed and altered mafic to felsic metavolcanic rocks and as well as deformed subvolcanic and plutonic equivalents, together with interlayered non-carbonaceous metasediments. This assemblage has been emplaced as a stack of three distinct thrust plates over rocks of the Late Devonian Early Mississippian Nasina assemblage.

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 the Permian Klondike Schist (PKs). This unit consists primarily of muscovite-chlorite-quartz-feldspar to chlorite schists. The southern third of the Property is thought to be underlain by the Permian orthogneiss presumed to be derived from quartz monzonite (Pogq). This unit is commonly referred to as the Sulphur Creek orthogneiss and is generally highly strained and lacks mafic minerals. These units are located in the southwestern, structurally highest part of the Klondike assemblage. A small body of Upper Cretaceous Carmacks Group (uKcv) has been mapped along the northern boundary of the Property (Figure 4).

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 70km south of Quartz, and more recently by the Supremo discovery on Kaminak's Coffee property located approximately 100km south of Quartz.

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 Quartz 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 prospector 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.

559,673

579,673

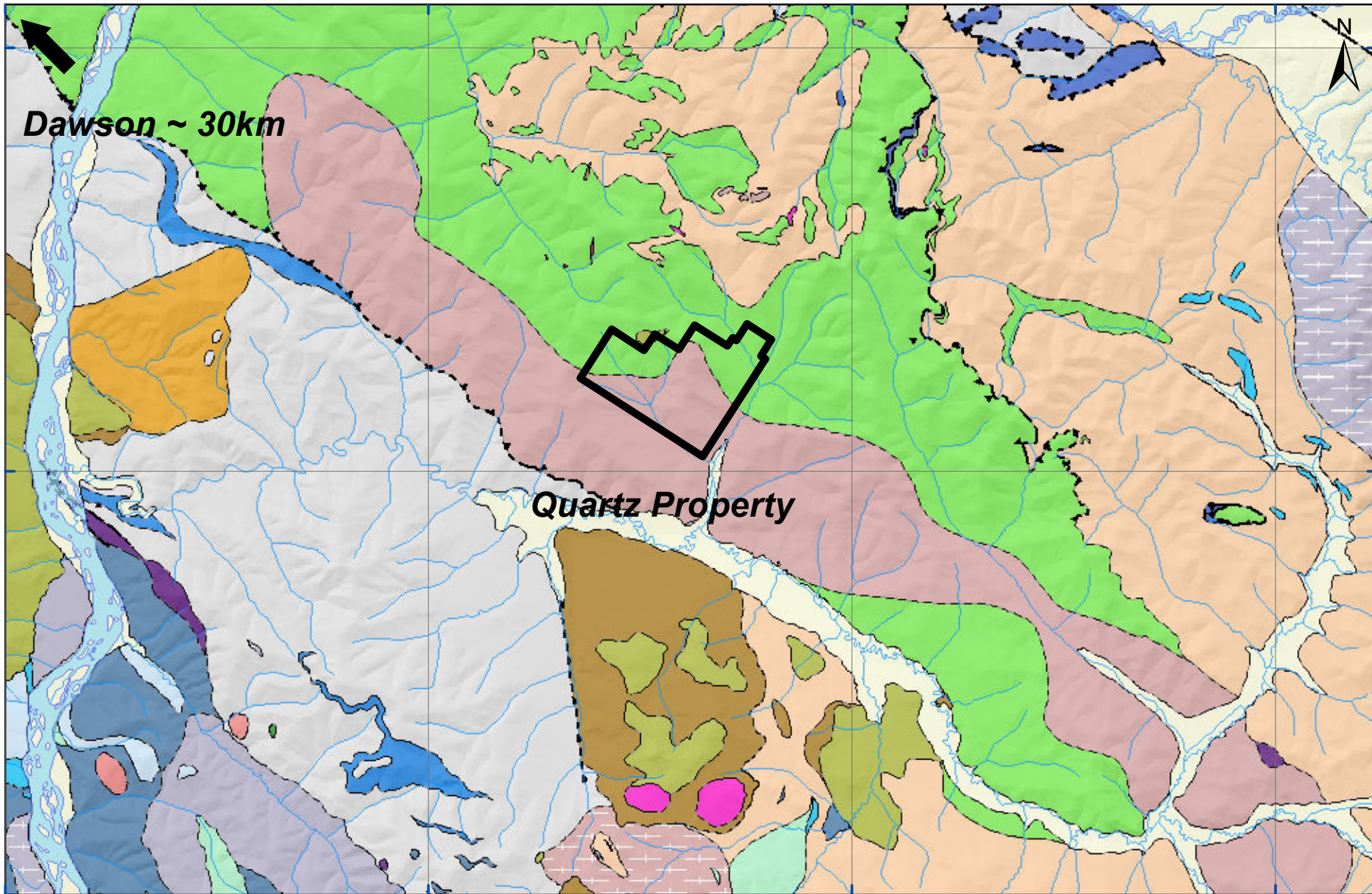
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7,073,335

7,053,335

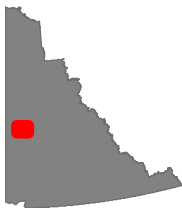
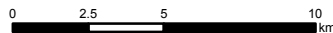


Dawson ~ 30km

Quartz Property



QUARTZ PROPERTY
Figure 1. REGIONAL GEOLOGY

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




Quartz Property
 Figure 3. Regional Geology
 Taku Gold Corp.
 NTS Sheet: 1150
 Date: October 23, 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



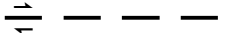
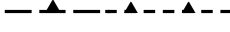
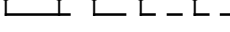

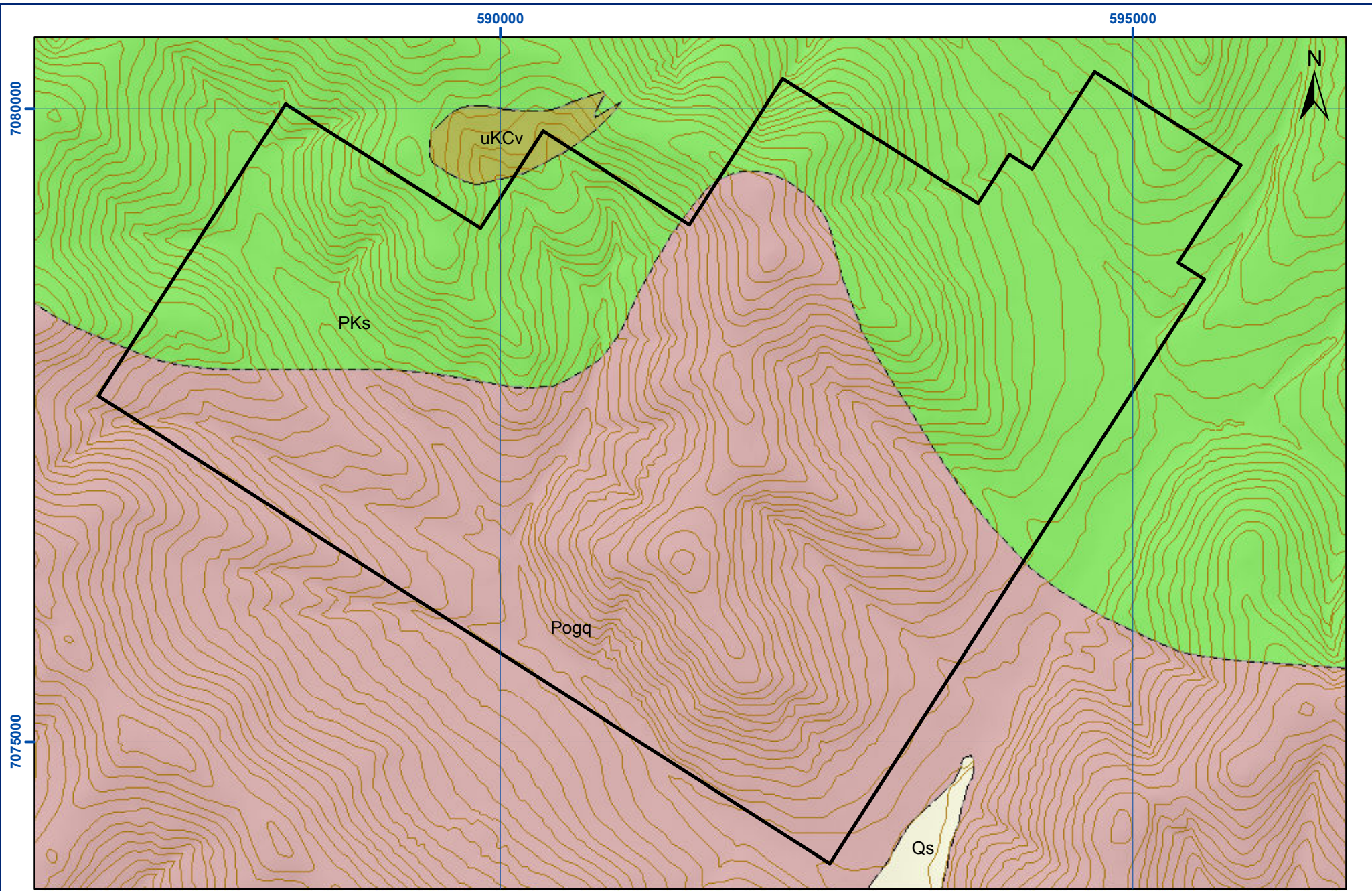
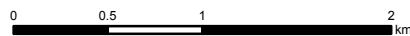
-  ————— Geological contact
(defined, approximate, assumed)
-  - - - - - Fault, sense of movement uncertain
(defined, approximate, assumed)
-  - - - - - Fault, transcurrent, dextral
(approximate)
-  - - - - - Fault, thrust (teeth on upper plate)
(defined, approximate, assumed)
-  - - - - - Fault, normal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

Figure 3 continued. Legend for Regional Geology



QUARTZ PROPERTY
Figure 4. PROPERTY GEOLOGY

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:40 000



Quartz Property
 Figure 4. Property Geology
 Taku Gold Corp.
 NTS Sheet: 1150/14
 Date: October 23, 2011

8. Mineralization

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

9. 2011 Exploration Work

9.1. Introduction

Exploration work in 2011 included soil geochemical survey grid over the northwest corner of the Property. Field work commenced on August 27, 2011 and was completed on September 1, 2011 and the analytical work was done from September 2, 2011 to November 26, 2011. A detailed Statement of Work is included herein as Appendix A. The Junior Author compiled the field data into digital maps and wrote this Report up to December 1, 2011.

9.2. Sampling and Analytical Procedures

The soil geochemical survey was supervised by the Senior Author. The work was done on foot and by helicopter from a camp set up near the Property. A total of 593 soil samples, including field duplicates, were collected with hand augers at 50m sample intervals on lines spaced 100m apart using GPS traverse lines. This sampling array was chosen to produce a detailed grid where anomalous gold-in-soil results were discovered in the 2010 exploration program. The grid covered the extent of the area identified as a high by the 2010 airborne magnetic survey.

Sample locations were flagged in the field and recorded with HP iPAQ 200 series field computers running GeoInfoMobile and Tierra Mapper software paired with Holux GPS receivers in map datum UTM WGS84 Zone 7N. Sample locations (Figure 5) and descriptions are included as Appendix B. A data CD is also included. Soil sample material varied from clay to sand with some humus samples. Sample depth varied from 30 to 120cm with an average depth of 62cm.

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). Acme is accredited under ISO 9001.

9.3. 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 Junior Author reconciled the field data with the analytical results and found no discrepancies.

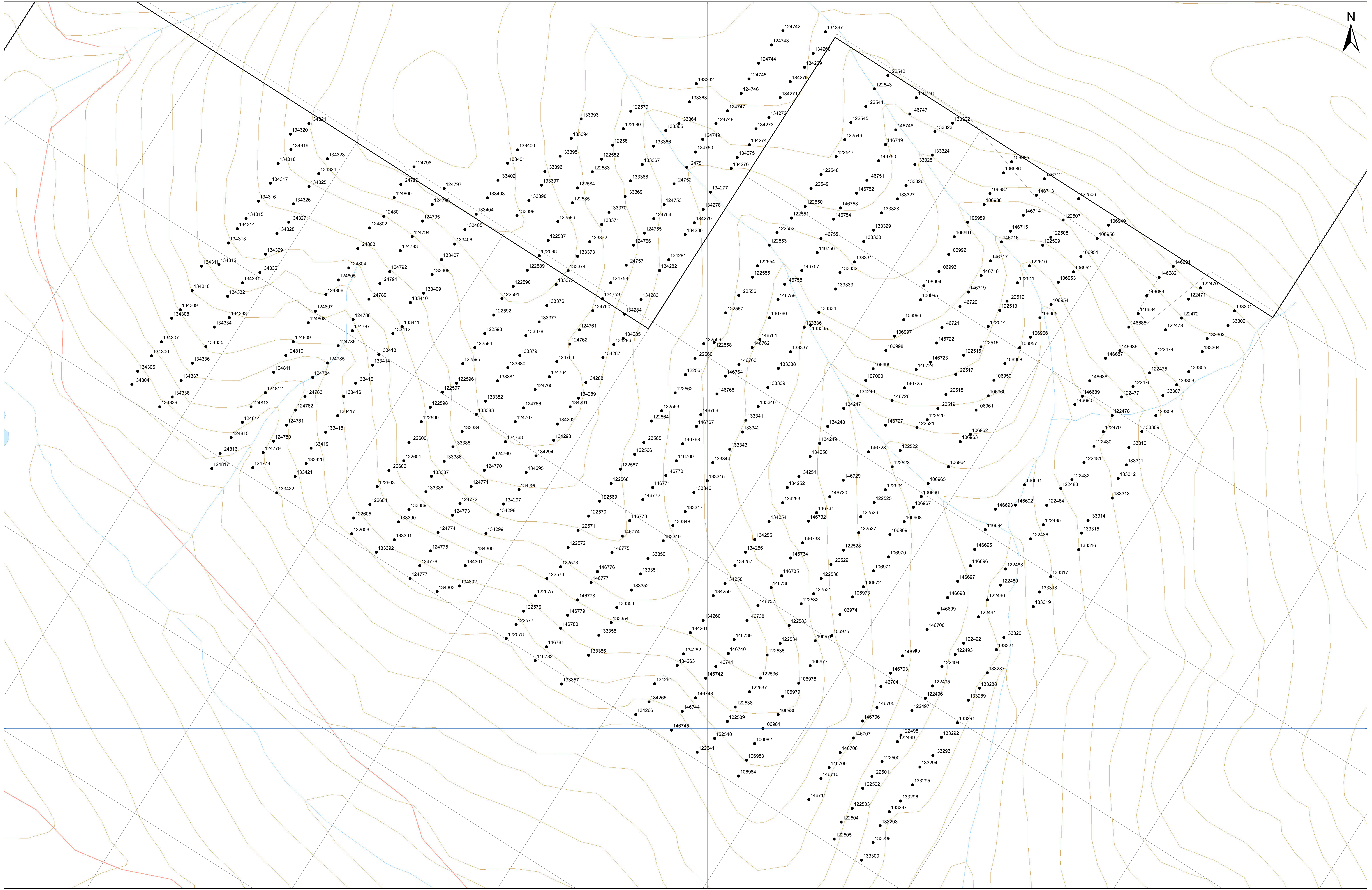
9.4. Results

The soil samples returned gold values ranging from below the detection limit (i.e. <5ppb Au) to a maximum of 144.4ppb Au. There is a visible cluster of anomalous results ranging from 10ppb to 144ppb Au in the middle northern portion of the grid. This cluster lies at the south margin of a magnetic high.

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 70km south of Quartz 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

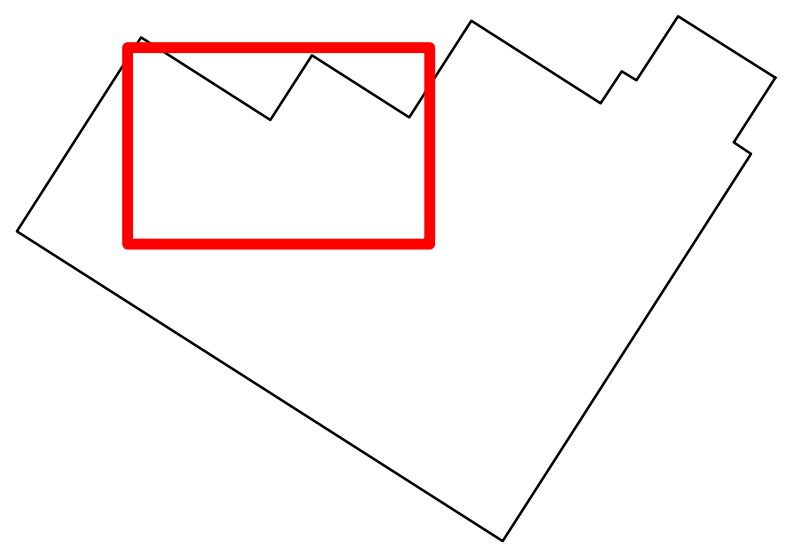
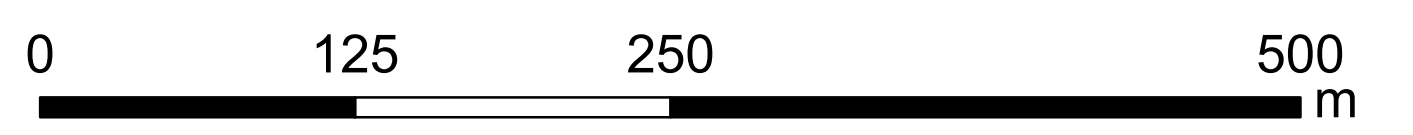
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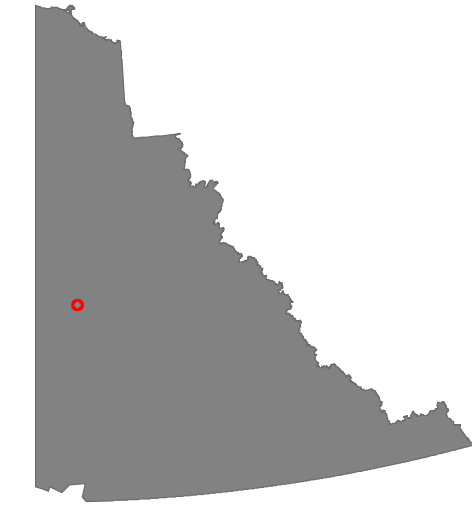
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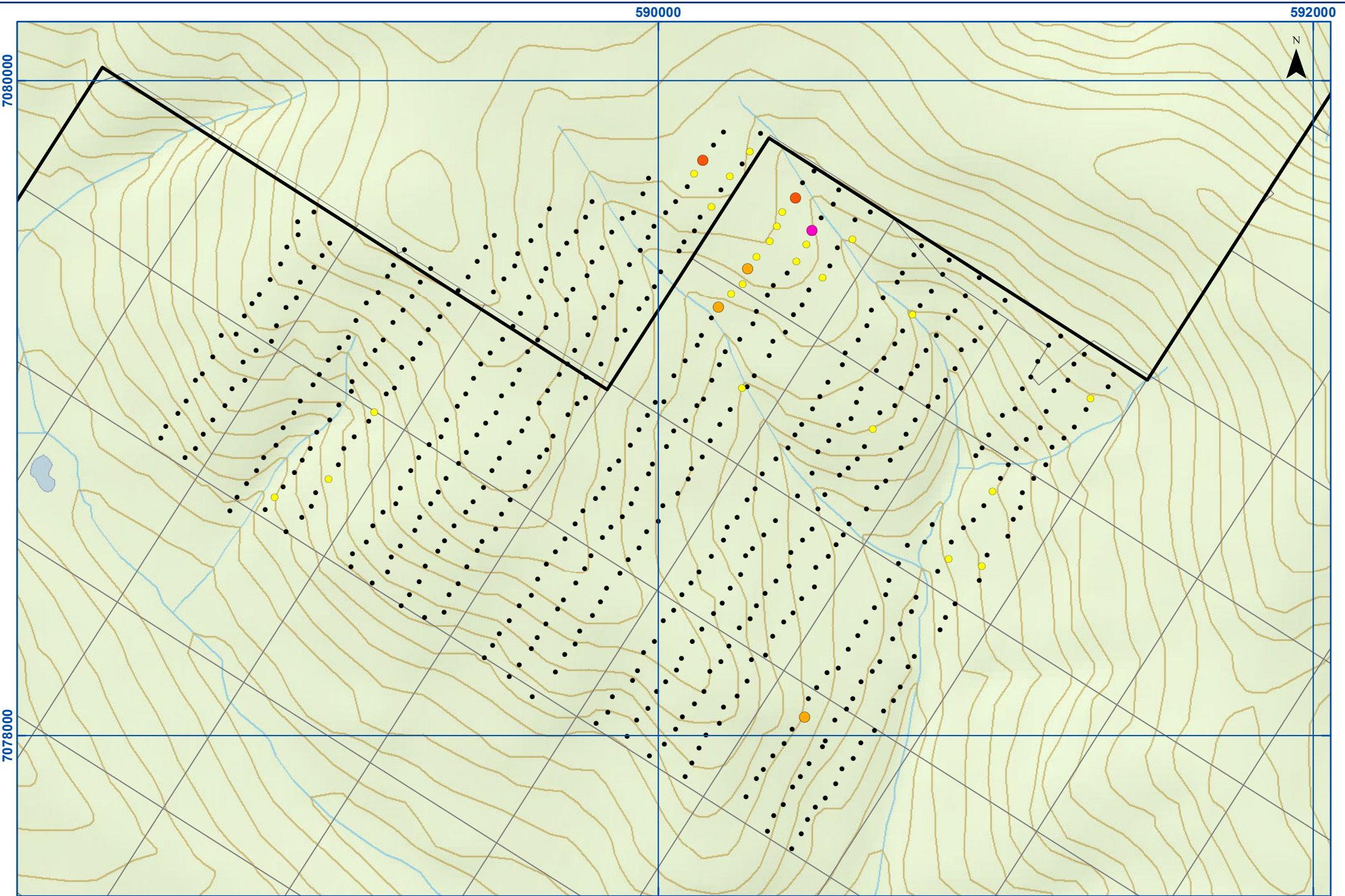
QUARTZ PROPERTY
Figure 5. SAMPLE LOCATIONS

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:3 000



Quartz Property
 Figure 5. Sample Locations
 Taku Gold Corp.
 NTS Sheet: 115O/14
 Date: October 31, 2011

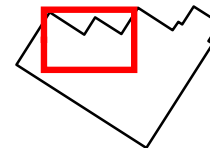
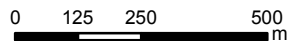




- Soil Au ppb**
- 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 60
 - > 60

QUARTZ PROPERTY
Figure 6. DETAILED GOLD ANOMALY MAP

Universal Transverse Mercator Zone 7
 World Geodetic System 1984
 Scale 1:15 000



Quartz Property
 Figure 6. Detailed Gold Anomaly Map
 Taku Gold Corp.
 NTS Sheet: 1150/14
 Date: November 28, 2011

1.2gpt Au (Underworld Press Release – January 19, 2010). Kaminak’s discovery hole of 15.5m over 17.1gpt Au at the Supremo zone (Kaminak Press Release - May 26, 2010) is located approximately 100km south of Quartz.

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 Quartz 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 Quartz.

12. Mineral Resource and Mineral Reserve Estimates

To date no mineral resource or mineral reserve estimates have been completed at Quartz. 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

Overall the gold-in-soil results are not outstanding on the Property. There is a small cluster of anomalous gold results along the south margin of a magnetic high in the middle of the northern portion of the sampling grid. The gold values in the cluster are not very strong and the area it covers is not extensive, but it does appear that the gold values are related to the magnetic high identified in the 2010 geophysical survey.

15. Recommendations

The small geochemical anomaly and coincident magnetic high in the northwestern part of the Property require further investigation. It is the Authors’ opinion that, although the overall gold-in-soil results are not outstanding, at least two days of prospecting and rock sampling should be spent in the area in an effort to explain the cluster of anomalous gold values and coincident magnetic anomaly. The estimated cost of this work would be \$3,000 for a two-man crew including food and lodging, supplies, rentals, transportation and assays.

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).

Fekete, M. and Dokic, N., 2011

Report on the surface work performed from August 1, 2010 to December 10, 2010 on the Quartz property, operated by and recorded to Taku Gold Corp (unpub.)

Appendix A - Statement of Work Expenditures

APPLICATION FOR A CERTIFICATE OF WORK

Version française

Office Date Stamp

I, _____,

of _____

Phone _____

make oath and say that:

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)

situated at _____ Claim sheet No. _____

in the _____ Mining District, to the value of at least _____ dollars,

since the _____ day of _____ 20____,

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

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).

Sworn before me at _____ this _____ day of _____ 20____.

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

Claims List For Certificate of Work 2011 Quartz

Type	Claim Information				Actual Work Done by Claim		Renewal		
	Grant No.	Claim Name	Claim No.	Expiry Date	Geochem	Years	Annual Fee	Total	
Quartz	YD28801	QZ	1	30/07/2016	\$ -	2	\$ 5.00	\$ 10.00	
Quartz	YD28802	QZ	2	30/07/2016	\$ -	2	\$ 5.00	\$ 10.00	
Quartz	YD28803	QZ	3	30/07/2016	\$ -	2	\$ 5.00	\$ 10.00	
Quartz	YD28804	QZ	4	30/07/2016	\$ -	2	\$ 5.00	\$ 10.00	
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Claims List For Certificate of Work 2011 Quartz

Type	Claim Information				Actual Work Done by Claim		Renewal		
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Claims List For Certificate of Work 2011 Quartz

Type	Claim Information				Actual Work Done by Claim	Renewal		
	Grant No.	Claim Name	Claim No.	Expiry Date		Geochem	Years	Annual Fee
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				From Statement of Costs	\$ 32,540.64			
				Check	\$ -			
				No Claims	146			
				Type Work	Claims GEOC			

Geochem 2011 Taku Quartz

Supplier	Invoice	Date	Geochem						Total	
			Wages & Contract	F&L	Supplies	Transport	Rentals	Drafting Maps etc.	Assays	Total
Name	Ref No.	Date	5150	5151	5152	5153	5154	5155	5156	Total
Acme	VANI098530	6-Oct-11							5,147.10	5,147.10
Acme	VANI106304	27-Nov-11							5,010.30	5,010.30
Breakaway	699	20-Sep-11	9000.00							9,000.00
Breakaway	699	20-Sep-11			894.00					894.00
Breakaway	699	20-Sep-11				750.00				750.00
Breakaway	699	20-Sep-11					862.50			862.50
Breakaway	730	31-Oct-11	1700.00	200.00						1,900.00
Breakaway	748	30-Nov-11	900.00				30.00	200.00		1,130.00
Heli Dynamics	11891	28-Aug-11				1,459.50				1,459.50
Heli Dynamics	11893	29-Aug-11				2,085.00				2,085.00
Heli Dynamics	11894	30-Aug-11				2,293.50				2,293.50
Heli Dynamics	11896	31-Aug-11				1,876.50				1,876.50
Heli Dynamics	11897	31-Aug-11				132.24				132.24
bottom			11,600.00	200.00	894.00	8,596.74	892.50	200.00	10,157.40	32,540.64

Appendix B - Sample Locations and Descriptions

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
106949	29/08/2011	BenDubois	591059	7079329	UTMZ7N_WGS84	Soil	BrownDark	Gravel	ModerateSW	B	80	Moist	Good	ForestMixed
106950	29/08/2011	BenDubois	591029	7079294	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateSW	B	100	Moist	Good	ForestMixed
106951	29/08/2011	BenDubois	590986	7079246	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	C	80	Moist	Good	ForestMixed
106952	29/08/2011	BenDubois	590966	7079206	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateSW	B	60	Dry	Poor	ForestMixed
106953	29/08/2011	BenDubois	590926	7079178	UTMZ7N_WGS84	Soil	Black	Silt	ModerateSW	B	100	Moist	Poor	ForestMixed
106954	29/08/2011	BenDubois	590907	7079119	UTMZ7N_WGS84	Soil	Black	Silt	ModerateS	B	60	Frozen	Poor	ForestMixed
106955	29/08/2011	BenDubois	590878	7079084	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	60	Moist	Poor	ForestMixed
106956	29/08/2011	BenDubois	590853	7079033	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	50	Dry	Poor	ForestMixed
106957	29/08/2011	BenDubois	590824	7079006	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	100	Dry	Poor	ForestMixed
106958	29/08/2011	BenDubois	590785	7078963	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	110	Dry	Poor	ForestMixed
106959	29/08/2011	BenDubois	590757	7078920	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	100	Dry	Poor	ForestBlackSpruce
106960	29/08/2011	BenDubois	590741	7078878	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	100	Dry	Poor	ForestBlackSpruce
106961	29/08/2011	BenDubois	590709	7078841	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	90	Dry	Poor	ForestMixed
106962	29/08/2011	BenDubois	590694	7078776	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	90	Dry	Poor	ForestMixed
106963	29/08/2011	BenDubois	590668	7078758	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	110	Dry	Poor	ForestMixed
106964	29/08/2011	BenDubois	590637	7078692	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	110	Dry	Good	ForestMixed
106965	29/08/2011	BenDubois	590583	7078647	UTMZ7N_WGS84	Soil	BrownDark	Silt	Flat	B	60	Frozen	Poor	ForestMixed
106966	29/08/2011	BenDubois	590565	7078613	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	60	Dry	Poor	ForestMixed
106967	29/08/2011	BenDubois	590544	7078584	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Dry	Good	ForestMixed
106968	29/08/2011	BenDubois	590520	7078546	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Moist	Good	ForestBlackSpruce
106969	29/08/2011	BenDubois	590482	7078512	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	60	Wet	Good	ForestBlackSpruce
106970	29/08/2011	BenDubois	590478	7078453	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Moist	Good	ForestBlackSpruce
106971	29/08/2011	BenDubois	590439	7078416	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	50	Dry	Good	ForestBlackSpruce
106972	29/08/2011	BenDubois	590412	7078375	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Dry	Good	ForestMixed
106973	29/08/2011	BenDubois	590383	7078347	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Dry	Good	ForestMixed
106974	29/08/2011	BenDubois	590350	7078302	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	50	Dry	Good	ForestMixed
106975	29/08/2011	BenDubois	590328	7078245	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateE	B	30	Dry	Good	ForestMixed
106976	29/08/2011	BenDubois	590285	7078232	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	80	Dry	Good	ForestMixed
106977	29/08/2011	BenDubois	590271	7078166	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Dry	Good	ForestMixed
106978	29/08/2011	BenDubois	590241	7078120	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
106979	29/08/2011	BenDubois	590199	7078086	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Good	ForestAspen
106980	29/08/2011	BenDubois	590187	7078037	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSE	C	80	Dry	Good	ForestMixed
106981	29/08/2011	BenDubois	590147	7078001	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
106982	29/08/2011	BenDubois	590125	7077960	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
106983	29/08/2011	BenDubois	590103	7077916	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
106984	29/08/2011	BenDubois	590083	7077875	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Good	SubAlpineAlder
106985	30/08/2011	BenDubois	590804	7079496	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Dry	Good	ForestMixed
106986	30/08/2011	BenDubois	590781	7079467	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	60	Dry	Good	ForestMixed
106987	30/08/2011	BenDubois	590746	7079412	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	50	Moist	Good	ForestMixed
106988	30/08/2011	BenDubois	590731	7079383	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Excellent	ForestBlackSpruce
106989	30/08/2011	BenDubois	590687	7079336	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	100	Dry	Excellent	ForestMixed
106991	30/08/2011	BenDubois	590652	7079298	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Dry	Good	ForestBlackSpruce
106992	30/08/2011	BenDubois	590637	7079252	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSE	B	50	Dry	Good	ForestBlackSpruce
106993	30/08/2011	BenDubois	590612	7079207	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSE	B	70	Dry	Good	ForestBlackSpruce
106994	30/08/2011	BenDubois	590572	7079168	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	B	40	Dry	Excellent	ForestBlackSpruce
106995	30/08/2011	BenDubois	590563	7079132	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	50	Dry	Excellent	ForestBlackSpruce
106996	30/08/2011	BenDubois	590518	7079079	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	80	Dry	Excellent	ForestBlackSpruce
106997	30/08/2011	BenDubois	590494	7079036	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	70	Dry	Poor	ForestMixed
106998	30/08/2011	BenDubois	590471	7078998	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
106999	30/08/2011	BenDubois	590438	7078949	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Good	ForestMixed
107000	30/08/2011	BenDubois	590418	7078919	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSW	B	40	Dry	Good	ForestMixed
122470	28/08/2011	DarrellKraemer	591302	7079164	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
122471	27/08/2011	DarrellKraemer	591270	7079134	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateS	C	60	Dry	Excellent	ForestFir

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122472	27/08/2011	DarrellKraemer	591251	7079083	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
122473	27/08/2011	DarrellKraemer	591210	7079053	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
122474	27/08/2011	DarrellKraemer	591184	7078990	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
122475	27/08/2011	DarrellKraemer	591168	7078939	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Excellent	ForestMixed
122476	27/08/2011	DarrellKraemer	591124	7078903	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	80	Moist	Excellent	ForestMixed
122477	27/08/2011	DarrellKraemer	591094	7078875	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	70	Moist	Excellent	ForestMixed
122478	27/08/2011	DarrellKraemer	591069	7078827	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Wet	Excellent	ForestMixed
122479	27/08/2011	DarrellKraemer	591045	7078784	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
122480	27/08/2011	DarrellKraemer	591021	7078746	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122481	28/08/2011	DarrellKraemer	590994	7078702	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
122482	28/08/2011	DarrellKraemer	590963	7078656	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Moist	Excellent	ForestMixed
122483	28/08/2011	DarrellKraemer	590933	7078634	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	85	Moist	Good	ForestMixed
122484	28/08/2011	DarrellKraemer	590896	7078590	UTMZ7N_WGS84	Colluvium	Grey	Gravel	ModerateS	C	80	Dry	Excellent	ForestMixed
122485	28/08/2011	DarrellKraemer	590887	7078538	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Depression	B	50	Wet	Good	ForestMixed
122486	28/08/2011	DarrellKraemer	590854	7078501	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	50	Frozen	Good	ForestMixed
122488	28/08/2011	DarrellKraemer	590787	7078421	UTMZ7N_WGS84	Colluvium	BrownLight	Gravel	Flat	B	35	Dry	Poor	ForestMixed
122489	28/08/2011	DarrellKraemer	590774	7078379	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	50	Frozen	Poor	ForestMixed
122490	28/08/2011	DarrellKraemer	590739	7078340	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	40	Moist	Poor	ForestMixed
122491	28/08/2011	DarrellKraemer	590716	7078295	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	95	Dry	Good	ForestMixed
122492	28/08/2011	DarrellKraemer	590676	7078225	UTMZ7N_WGS84	Colluvium	BrownDark	Clay	ModerateN	B	50	Wet	Poor	ForestMixed
122493	28/08/2011	DarrellKraemer	590654	7078196	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	65	Moist	Good	ForestMixed
122494	28/08/2011	DarrellKraemer	590619	7078164	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	B	80	Dry	Good	ForestMixed
122495	28/08/2011	DarrellKraemer	590594	7078113	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	85	Dry	Good	ForestMixed
122496	28/08/2011	DarrellKraemer	590576	7078080	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	80	Dry	Good	ForestMixed
122497	28/08/2011	DarrellKraemer	590540	7078048	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Dry	Good	ForestMixed
122498	28/08/2011	DarrellKraemer	590511	7077983	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	80	Dry	Good	ForestMixed
122499	28/08/2011	DarrellKraemer	590502	7077966	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	65	Dry	Excellent	ForestMixed
122500	28/08/2011	DarrellKraemer	590461	7077913	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	85	Dry	Good	ForestMixed
122501	28/08/2011	DarrellKraemer	590435	7077875	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122502	28/08/2011	DarrellKraemer	590410	7077842	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	70	Dry	Excellent	ForestMixed
122503	28/08/2011	DarrellKraemer	590383	7077790	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	70	Dry	Good	ForestMixed
122504	28/08/2011	DarrellKraemer	590353	7077753	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Dry	Excellent	ForestMixed
122505	28/08/2011	DarrellKraemer	590335	7077709	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	50	Dry	Good	ForestMixed
122506	28/08/2011	DarrellKraemer	590980	7079399	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	B	40	Dry	Good	ForestMixed
122507	28/08/2011	DarrellKraemer	590939	7079342	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122508	28/08/2011	DarrellKraemer	590907	7079297	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	60	Dry	Excellent	ForestMixed
122509	28/08/2011	DarrellKraemer	590885	7079276	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	65	Dry	Good	ForestMixed
122510	28/08/2011	DarrellKraemer	590850	7079221	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122511	28/08/2011	DarrellKraemer	590818	7079177	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Moist	Excellent	ForestMixed
122512	28/08/2011	DarrellKraemer	590791	7079128	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	C	80	Moist	Poor	ForestMixed
122513	28/08/2011	DarrellKraemer	590772	7079104	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Dry	Excellent	ForestMixed
122514	28/08/2011	DarrellKraemer	590742	7079061	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	50	Moist	Excellent	ForestMixed
122515	28/08/2011	DarrellKraemer	590723	7079007	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	120	Dry	Excellent	ForestMixed
122516	28/08/2011	DarrellKraemer	590677	7078986	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
122517	28/08/2011	DarrellKraemer	590656	7078935	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
122518	28/08/2011	DarrellKraemer	590630	7078883	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	90	Dry	Excellent	ForestMixed
122519	28/08/2011	DarrellKraemer	590609	7078845	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
122520	28/08/2011	DarrellKraemer	590580	7078815	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
122521	28/08/2011	DarrellKraemer	590553	7078794	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	55	Dry	Excellent	ForestMixed
122522	28/08/2011	DarrellKraemer	590509	7078734	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Drainage	C	75	Moist	Excellent	ForestMixed
122523	28/08/2011	DarrellKraemer	590488	7078691	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Good	ForestMixed
122524	29/08/2011	DarrellKraemer	590470	7078630	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
122525	29/08/2011	DarrellKraemer	590440	7078597	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	75	Moist	Good	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122526	29/08/2011	DarrellKraemer	590405	7078560	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateN	C	65	Moist	Excellent	ForestMixed
122527	29/08/2011	DarrellKraemer	590400	7078517	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	80	Moist	Good	ForestMixed
122528	29/08/2011	DarrellKraemer	590359	7078471	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	60	Moist	Excellent	ForestMixed
122529	29/08/2011	DarrellKraemer	590326	7078433	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	65	Moist	Excellent	ForestMixed
122530	29/08/2011	DarrellKraemer	590300	7078396	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	B	30	Moist	Good	ForestMixed
122531	29/08/2011	DarrellKraemer	590281	7078356	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	70	Dry	Excellent	ForestMixed
122532	29/08/2011	DarrellKraemer	590247	7078329	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	B	30	Dry	Good	ForestMixed
122533	29/08/2011	DarrellKraemer	590216	7078273	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	40	Moist	Good	ForestMixed
122534	29/08/2011	DarrellKraemer	590192	7078225	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	50	Dry	Excellent	ForestMixed
122535	29/08/2011	DarrellKraemer	590158	7078194	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	40	Dry	Excellent	ForestMixed
122536	29/08/2011	DarrellKraemer	590140	7078133	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122537	29/08/2011	DarrellKraemer	590111	7078097	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	40	Dry	Good	ForestMixed
122538	29/08/2011	DarrellKraemer	590073	7078057	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	50	Dry	Excellent	ForestMixed
122539	29/08/2011	DarrellKraemer	590053	7078019	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122540	29/08/2011	DarrellKraemer	590019	7077974	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122541	29/08/2011	DarrellKraemer	589973	7077938	UTMZ7N_WGS84		BrownLight	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
122542	29/08/2011	DarrellKraemer	590476	7079724	UTMZ7N_WGS84	Colluvium	Red	Sand	Drainage	C	60	Moist	Excellent	ForestMixed
122543	29/08/2011	DarrellKraemer	590440	7079688	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	60	Frozen	Poor	ForestMixed
122544	29/08/2011	DarrellKraemer	590419	7079642	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Good	ForestMixed
122545	29/08/2011	DarrellKraemer	590379	7079599	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
122546	29/08/2011	DarrellKraemer	590363	7079554	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	70	Dry	Good	ForestMixed
122547	29/08/2011	DarrellKraemer	590340	7079510	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
122548	29/08/2011	DarrellKraemer	590300	7079463	UTMZ7N_WGS84	Colluvium	Green	Sand	ModerateN	C	70	Frozen	Excellent	ForestMixed
122549	29/08/2011	DarrellKraemer	590274	7079426	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateN	C	100	Dry	Excellent	ForestMixed
122550	29/08/2011	DarrellKraemer	590258	7079379	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	50	Dry	Good	ForestMixed
122551	29/08/2011	DarrellKraemer	590222	7079348	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	55	Dry	Good	ForestMixed
122552	29/08/2011	DarrellKraemer	590184	7079309	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	85	Frozen	Excellent	ForestMixed
122553	29/08/2011	DarrellKraemer	590163	7079276	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	50	Wet	Good	ForestMixed
122554	29/08/2011	DarrellKraemer	590132	7079221	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	85	Moist	Good	ForestMixed
122555	29/08/2011	DarrellKraemer	590119	7079192	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	85	Frozen	Good	ForestMixed
122556	29/08/2011	DarrellKraemer	590083	7079143	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	90	Moist	Good	ForestMixed
122557	29/08/2011	DarrellKraemer	590049	7079097	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	90	Dry	Excellent	ForestMixed
122558	29/08/2011	DarrellKraemer	590018	7079019	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	80	Dry	Excellent	ForestMixed
122559	29/08/2011	DarrellKraemer	589991	7079016	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	90	Wet	Good	ForestMixed
122560	29/08/2011	DarrellKraemer	589967	7078978	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	50	Frozen	Good	ForestMixed
122561	29/08/2011	DarrellKraemer	589942	7078934	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateN	C	50	Moist	Good	ForestMixed
122562	29/08/2011	DarrellKraemer	589915	7078886	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	55	Dry	Excellent	ForestMixed
122563	29/08/2011	DarrellKraemer	589879	7078839	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	70	Dry	Excellent	ForestMixed
122564	29/08/2011	DarrellKraemer	589852	7078812	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	75	Dry	Excellent	ForestMixed
122565	29/08/2011	DarrellKraemer	589832	7078755	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNW	B	45	Dry	Excellent	ForestMixed
122566	29/08/2011	DarrellKraemer	589808	7078724	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateNW	C	85	Dry	Good	ForestMixed
122567	30/08/2011	DarrellKraemer	589771	7078685	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNW	C	50	Frozen	Good	ForestMixed
122568	30/08/2011	DarrellKraemer	589746	7078647	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
122569	30/08/2011	DarrellKraemer	589716	7078600	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	60	Dry	Excellent	ForestMixed
122570	30/08/2011	DarrellKraemer	589687	7078561	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateNW	C	75	Dry	Excellent	ForestMixed
122571	30/08/2011	DarrellKraemer	589658	7078524	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNW	C	75	Dry	Excellent	ForestMixed
122572	30/08/2011	DarrellKraemer	589632	7078478	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateNW	B	35	Dry	Good	ForestMixed
122573	30/08/2011	DarrellKraemer	589613	7078427	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
122574	30/08/2011	DarrellKraemer	589576	7078396	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
122575	30/08/2011	DarrellKraemer	589546	7078351	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
122576	30/08/2011	DarrellKraemer	589515	7078310	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	75	Dry	Excellent	ForestMixed
122577	30/08/2011	DarrellKraemer	589495	7078275	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	40	Dry	Good	ForestMixed
122578	30/08/2011	DarrellKraemer	589469	7078238	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
122579	31/08/2011	DarrellKraemer	589798	7079630	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	Drainage	B	50	Wet	Good	ForestMixed
122580	31/08/2011	DarrellKraemer	589778	7079583	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateE	C	90	Moist	Poor	ForestMixed
122581	31/08/2011	DarrellKraemer	589750	7079540	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNE	C	80	Frozen	Poor	ForestMixed
122582	31/08/2011	DarrellKraemer	589721	7079503	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	85	Frozen	Good	ForestMixed
122583	31/08/2011	DarrellKraemer	589696	7079469	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateNE	B	40	Frozen	Good	ForestMixed
122584	31/08/2011	DarrellKraemer	589657	7079427	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateNE	B	40	Dry	Good	ForestMixed
122585	31/08/2011	DarrellKraemer	589643	7079387	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	ModerateNE	C	60	Dry	Good	ForestMixed
122586	31/08/2011	DarrellKraemer	589605	7079338	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateNE	C	80	Dry	Excellent	ForestMixed
122587	31/08/2011	DarrellKraemer	589580	7079288	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateE	C	80	Dry	Excellent	ForestMixed
122588	31/08/2011	DarrellKraemer	589556	7079248	UTMZ7N_WGS84	Colluvium	RustyOrange	Gravel	ModerateE	C	60	Dry	Excellent	ForestMixed
122589	31/08/2011	DarrellKraemer	589524	7079210	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateE	C	60	Dry	Excellent	ForestMixed
122590	31/08/2011	DarrellKraemer	589487	7079167	UTMZ7N_WGS84	Colluvium	RustyOrange	Gravel	ModerateE	C	60	Dry	Excellent	ForestMixed
122591	31/08/2011	DarrellKraemer	589457	7079135	UTMZ7N_WGS84	Colluvium	BrownLight	Gravel	ModerateE	C	55	Dry	Excellent	ForestMixed
122592	31/08/2011	DarrellKraemer	589436	7079091	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
122593	31/08/2011	DarrellKraemer	589412	7079043	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Frozen	Good	ForestMixed
122594	31/08/2011	DarrellKraemer	589386	7079006	UTMZ7N_WGS84	Colluvium	Red	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122595	31/08/2011	DarrellKraemer	589354	7078963	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	75	Dry	Excellent	ForestMixed
122596	31/08/2011	DarrellKraemer	589338	7078911	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Excellent	ForestFir
122597	31/08/2011	DarrellKraemer	589301	7078888	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Good	ForestMixed
122598	31/08/2011	DarrellKraemer	589269	7078848	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateS	B	50	Moist	Excellent	ForestMixed
122599	31/08/2011	DarrellKraemer	589244	7078810	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
122600	31/08/2011	DarrellKraemer	589212	7078756	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	50	Wet	Good	ForestMixed
122601	31/08/2011	DarrellKraemer	589199	7078707	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	90	Dry	Excellent	ForestMixed
122602	31/08/2011	DarrellKraemer	589159	7078682	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122603	31/08/2011	DarrellKraemer	589128	7078639	UTMZ7N_WGS84	Colluvium	BrownLight	Gravel	ModerateS	C	50	Dry	Good	ForestMixed
122604	31/08/2011	DarrellKraemer	589109	7078591	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122605	31/08/2011	DarrellKraemer	589066	7078556	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
122606	31/08/2011	DarrellKraemer	589061	7078514	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
124742	01/07/2011	MartyHuber	590199	7079842	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	85	Dry	Good	ForestMixed
124743	31/08/2011	MartyHuber	590169	7079804	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	B	65	Dry	Good	ForestMixed
124744	31/08/2011	MartyHuber	590135	7079756	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Flat	C	55	Dry	Good	ForestMixed
124745	31/08/2011	MartyHuber	590110	7079715	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	Flat	C	45	Dry	Good	ForestMixed
124746	31/08/2011	MartyHuber	590089	7079676	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	55	Dry	Good	ForestMixed
124747	31/08/2011	MartyHuber	590053	7079630	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124748	31/08/2011	MartyHuber	590023	7079597	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	ForestMixed
124749	31/08/2011	MartyHuber	589987	7079555	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
124750	31/08/2011	MartyHuber	589969	7079522	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	55	Dry	Good	ForestMixed
124751	31/08/2011	MartyHuber	589946	7079481	UTMZ7N_WGS84	Colluvium	Brown	Silt	Drainage	B	90	Wet	Good	ForestMixed
124752	31/08/2011	MartyHuber	589912	7079437	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Good	ForestMixed
124753	31/08/2011	MartyHuber	589886	7079383	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	95	Moist	Good	ForestMixed
124754	31/08/2011	MartyHuber	589859	7079346	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	55	Dry	Good	ForestMixed
124755	31/08/2011	MartyHuber	589833	7079308	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	55	Dry	Good	ForestMixed
124756	31/08/2011	MartyHuber	589805	7079276	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	65	Dry	Good	ForestMixed
124757	31/08/2011	MartyHuber	589785	7079223	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	65	Dry	Good	ForestMixed
124758	31/08/2011	MartyHuber	589745	7079177	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	45	Dry	Good	ForestMixed
124759	31/08/2011	MartyHuber	589723	7079135	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	40	Dry	Good	ForestMixed
124760	31/08/2011	MartyHuber	589698	7079103	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	55	Dry	Good	ForestMixed
124761	31/08/2011	MartyHuber	589662	7079052	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	45	Dry	Good	ForestMixed
124762	31/08/2011	MartyHuber	589637	7079015	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	55	Dry	Good	ForestMixed
124763	31/08/2011	MartyHuber	589602	7078969	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Dry	Good	ForestMixed
124764	31/08/2011	MartyHuber	589583	7078929	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	C	50	Dry	Good	ForestMixed
124765	31/08/2011	MartyHuber	589545	7078895	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	B	35	Dry	Good	ForestMixed
124766	31/08/2011	MartyHuber	589515	7078846	UTMZ7N_WGS84	Colluvium	Brown	Silt	Ridge	C	50	Dry	Good	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
124767	31/08/2011	MartyHuber	589493	7078810	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	Ridge	C	50	Dry	Good	ForestMixed
124768	31/08/2011	MartyHuber	589467	7078757	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Good	ForestMixed
124769	31/08/2011	MartyHuber	589435	7078715	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
124770	31/08/2011	MartyHuber	589411	7078682	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124771	31/08/2011	MartyHuber	589376	7078640	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
124772	31/08/2011	MartyHuber	589347	7078594	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	45	Dry	Excellent	ForestMixed
124773	31/08/2011	MartyHuber	589327	7078563	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
124774	31/08/2011	MartyHuber	589289	7078518	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Good	ForestMixed
124775	31/08/2011	MartyHuber	589269	7078469	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
124776	31/08/2011	MartyHuber	589241	7078430	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Excellent	ForestMixed
124777	31/08/2011	MartyHuber	589215	7078397	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
124778	01/09/2011	MartyHuber	588799	7078689	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	60	Dry	Good	ForestMixed
124779	01/09/2011	MartyHuber	588827	7078728	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	95	Wet	Good	ForestMixed
124780	01/09/2011	MartyHuber	588855	7078759	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateW	C	85	Dry	Good	ForestMixed
124781	01/09/2011	MartyHuber	588888	7078801	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	90	Wet	Good	ForestMixed
124782	01/09/2011	MartyHuber	588913	7078841	UTMZ7N_WGS84	Colluvium	Grey	Sand	ModerateW	C	90	Moist	Good	ForestMixed
124783	01/09/2011	MartyHuber	588938	7078877	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	80	Dry	Poor	ForestMixed
124784	01/09/2011	MartyHuber	588958	7078927	UTMZ7N_WGS84	Colluvium	Grey	Silt	Drainage	C	65	Moist	Good	ForestMixed
124785	01/09/2011	MartyHuber	588996	7078965	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	75	Dry	Good	ForestMixed
124786	01/09/2011	MartyHuber	589025	7079010	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
124787	01/09/2011	MartyHuber	589063	7079050	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	45	Frozen	Poor	ForestMixed
124788	01/09/2011	MartyHuber	589065	7079080	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124789	01/09/2011	MartyHuber	589106	7079133	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	ForestMixed
124791	01/09/2011	MartyHuber	589135	7079175	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	C	55	Dry	Good	ForestMixed
124792	01/09/2011	MartyHuber	589161	7079206	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	55	Dry	Good	ForestMixed
124793	01/09/2011	MartyHuber	589189	7079261	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	45	Dry	Good	ForestMixed
124794	01/09/2011	MartyHuber	589221	7079298	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	55	Dry	Good	ForestMixed
124795	01/09/2011	MartyHuber	589248	7079340	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124796	01/09/2011	MartyHuber	589274	7079383	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
124797	01/09/2011	MartyHuber	589305	7079426	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124798	01/09/2011	MartyHuber	589225	7079483	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	55	Dry	Good	ForestMixed
124799	01/09/2011	MartyHuber	589191	7079436	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
124800	01/09/2011	MartyHuber	589173	7079401	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	65	Dry	Good	ForestMixed
124801	01/09/2011	MartyHuber	589146	7079352	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
124802	01/09/2011	MartyHuber	589109	7079321	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
124803	01/09/2011	MartyHuber	589077	7079267	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateS	C	45	Dry	Excellent	ForestMixed
124804	01/09/2011	MartyHuber	589053	7079216	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	45	Dry	Excellent	ForestMixed
124805	01/09/2011	MartyHuber	589025	7079184	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Good	ForestMixed
124806	01/09/2011	MartyHuber	588993	7079145	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
124807	01/09/2011	MartyHuber	588965	7079102	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
124808	01/09/2011	MartyHuber	588946	7079071	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
124809	01/09/2011	MartyHuber	588907	7079021	UTMZ7N_WGS84	Colluvium	Grey	Sand	ModerateS	C	55	Wet	Good	ForestMixed
124810	01/09/2011	MartyHuber	588887	7078985	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	55	Dry	Good	ForestMixed
124811	01/09/2011	MartyHuber	588855	7078940	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Good	ForestMixed
124812	01/09/2011	MartyHuber	588833	7078886	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Good	ForestMixed
124813	01/09/2011	MartyHuber	588795	7078849	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	55	Dry	Excellent	ForestMixed
124814	01/09/2011	MartyHuber	588773	7078808	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
124815	01/09/2011	MartyHuber	588743	7078768	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	55	Dry	Good	ForestMixed
124816	01/09/2011	MartyHuber	588713	7078727	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
124817	01/09/2011	MartyHuber	588691	7078686	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	55	Dry	Good	ForestMixed
133291	28/08/2011	BernardDube	590660	7078016	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	110	Dry	Poor	ForestBlackSpruce
133292	28/08/2011	BernardDube	590618	7077977	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateE	B	120	Dry	Poor	ForestBlackSpruce
133293	28/08/2011	BernardDube	590596	7077930	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	50	Frozen	Poor	ForestBlackSpruce

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
133294	28/08/2011	BernardDube	590561	7077899	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Moist	Poor	ForestBlackSpruce
133295	28/08/2011	BernardDube	590542	7077852	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Moist	Poor	ForestBlackSpruce
133296	28/08/2011	BernardDube	590510	7077809	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	90	Dry	Poor	ForestBlackSpruce
133297	28/08/2011	BernardDube	590480	7077781	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateSE	B	70	Moist	Good	ForestBlackSpruce
133298	28/08/2011	BernardDube	590456	7077743	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	70	Dry	Good	ForestBlackSpruce
133299	28/08/2011	BernardDube	590437	7077699	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateSE	B	80	Dry	Poor	ForestBlackSpruce
133300	28/08/2011	BernardDube	590408	7077653	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	70	Dry	Good	ForestMixed
134246	30/08/2011	BenDubois	590397	7078878	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	60	Moist	Good	ForestMixed
134247	30/08/2011	BenDubois	590360	7078845	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Good	ForestMixed
134248	30/08/2011	BenDubois	590317	7078798	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	40	Frozen	Poor	ForestMixed
133287	28/08/2011	BernardDube	590739	7078147	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	50	Frozen	Poor	ForestBlackSpruce
133288	28/08/2011	BernardDube	590718	7078106	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	70	Frozen	Poor	ForestBlackSpruce
133289	28/08/2011	BernardDube	590689	7078075	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	60	Dry	Poor	ForestBlackSpruce
133301	28/08/2011	BernardDube	591391	7079103	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	70	Frozen	Good	ForestBlackSpruce
133302	28/08/2011	BernardDube	591375	7079064	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateSW	C	100	Dry	Excellent	ForestMixed
133303	28/08/2011	BernardDube	591319	7079029	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	100	Dry	Excellent	ForestMixed
133304	28/08/2011	BernardDube	591306	7078995	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	120	Moist	Excellent	ForestMixed
133305	28/08/2011	BernardDube	591271	7078942	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	C	60	Dry	Excellent	ForestMixed
133306	28/08/2011	BernardDube	591239	7078908	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Poor	ForestBlackSpruce
133307	28/08/2011	BernardDube	591202	7078880	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestBlackSpruce
133308	28/08/2011	BernardDube	591184	7078826	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	100	Moist	Good	ForestMixed
133309	28/08/2011	BernardDube	591147	7078784	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	110	Moist	Good	ForestMixed
133310	28/08/2011	BernardDube	591113	7078742	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateW	B	120	Moist	Poor	ForestMixed
133311	28/08/2011	BernardDube	591106	7078696	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateW	B	70	Frozen	Good	ForestMixed
133312	28/08/2011	BernardDube	591085	7078660	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateW	B	70	Moist	Poor	ForestMixed
133313	28/08/2011	BernardDube	591069	7078609	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	110	Dry	Excellent	ForestMixed
133314	28/08/2011	BernardDube	591005	7078550	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateW	B	70	Frozen	Poor	ForestMixed
133315	28/08/2011	BernardDube	590988	7078516	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateW	B	120	Moist	Good	ForestMixed
133316	28/08/2011	BernardDube	590980	7078473	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateW	B	90	Moist	Good	ForestMixed
133317	28/08/2011	BernardDube	590906	7078401	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateW	B	60	Moist	Poor	ForestMixed
133318	28/08/2011	BernardDube	590877	7078361	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateW	B	60	Dry	Good	ForestMixed
133319	28/08/2011	BernardDube	590861	7078322	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	B	50	Moist	Excellent	ForestMixed
133320	28/08/2011	BernardDube	590783	7078241	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	60	Frozen	Poor	ForestBlackSpruce
133321	28/08/2011	BernardDube	590763	7078208	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateE	B	80	Moist	Good	ForestBlackSpruce
133322	29/08/2011	BernardDube	590648	7079598	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	80	Moist	Excellent	ForestBlackSpruce
133323	30/08/2011	BernardDube	590601	7079575	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	80	Moist	Excellent	ForestMixed
133324	30/08/2011	BernardDube	590593	7079514	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	70	Dry	Excellent	ForestMixed
133325	30/08/2011	BernardDube	590548	7079489	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Good	ForestMixed
133326	30/08/2011	BernardDube	590524	7079433	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	90	Dry	Excellent	ForestMixed
133327	30/08/2011	BernardDube	590501	7079398	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
133328	30/08/2011	BernardDube	590460	7079361	UTMZ7N_WGS84	Colluvium	Grey	Sand	ModerateN	C	70	Dry	Excellent	ForestMixed
133329	30/08/2011	BernardDube	590439	7079315	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	60	Moist	Excellent	ForestMixed
133330	30/08/2011	BernardDube	590413	7079286	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Flat	C	65	Dry	Excellent	ForestMixed
133331	30/08/2011	BernardDube	590388	7079232	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	70	Moist	Excellent	ForestMixed
133332	30/08/2011	BernardDube	590350	7079203	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	45	Dry	Excellent	ForestMixed
133333	30/08/2011	BernardDube	590339	7079160	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	55	Dry	Good	ForestMixed
133334	30/08/2011	BernardDube	590294	7079098	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	100	Moist	Excellent	ForestMixed
133335	30/08/2011	BernardDube	590272	7079065	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	60	Moist	Good	ForestMixed
133336	30/08/2011	BernardDube	590256	7079059	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	B	70	Moist	Poor	ForestMixed
133337	30/08/2011	BernardDube	590220	7078995	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	90	Moist	Good	ForestMixed
133338	30/08/2011	BernardDube	590188	7078951	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	B	80	Moist	Good	ForestMixed
133339	30/08/2011	BernardDube	590159	7078900	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	C	70	Moist	Good	ForestMixed
133340	30/08/2011	BernardDube	590134	7078850	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	C	110	Moist	Good	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
133341	30/08/2011	BernardDube	590102	7078814	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
133342	30/08/2011	BernardDube	590092	7078783	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist	Good	ForestMixed
133343	30/08/2011	BernardDube	590059	7078738	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
133344	30/08/2011	BernardDube	590014	7078702	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	100	Moist	Good	ForestMixed
133345	30/08/2011	BernardDube	590000	7078654	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	80	Moist	Good	ForestMixed
133346	30/08/2011	BernardDube	589964	7078623	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
133347	30/08/2011	BernardDube	589942	7078573	UTMZ7N_WGS84	Colluvium	Grey	Gravel	ModerateS	C	50	Dry	Good	ForestMixed
133348	30/08/2011	BernardDube	589909	7078536	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	65	Dry	Excellent	ForestMixed
133349	30/08/2011	BernardDube	589883	7078496	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
133350	30/08/2011	BernardDube	589843	7078449	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	Flat	C	70	Dry	Excellent	ForestMixed
133351	30/08/2011	BernardDube	589824	7078408	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	60	Moist	Excellent	ForestMixed
133352	30/08/2011	BernardDube	589799	7078366	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	70	Dry	Excellent	ForestMixed
133353	30/08/2011	BernardDube	589761	7078320	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	B	40	Dry	Good	ForestMixed
133354	30/08/2011	BernardDube	589746	7078280	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
133355	30/08/2011	BernardDube	589714	7078247	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
133356	30/08/2011	BernardDube	589686	7078194	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	40	Moist	Good	ForestMixed
133357	30/08/2011	BernardDube	589615	7078118	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	40	Dry	Good	ForestMixed
133362	31/08/2011	BernardDube	589971	7079702	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	B	65	Moist	Excellent	ForestMixed
133363	31/08/2011	BernardDube	589953	7079654	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	70	Moist	Excellent	ForestMixed
133364	31/08/2011	BernardDube	589925	7079597	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	C	80	Moist	Good	ForestMixed
133365	31/08/2011	BernardDube	589890	7079578	UTMZ7N_WGS84	Colluvium	Black	Silt	ModerateN	B	40	Frozen	Poor	ForestMixed
133366	31/08/2011	BernardDube	589858	7079537	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	C	65	Moist	Good	ForestMixed
133367	31/08/2011	BernardDube	589828	7079489	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
133368	31/08/2011	BernardDube	589797	7079445	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	70	Moist	Excellent	ForestMixed
133369	31/08/2011	BernardDube	589783	7079405	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateS	C	90	Moist	Excellent	ForestMixed
133370	31/08/2011	BernardDube	589740	7079363	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	80	Frozen	Good	ForestMixed
133371	31/08/2011	BernardDube	589721	7079330	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
133372	31/08/2011	BernardDube	589689	7079285	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
133373	31/08/2011	BernardDube	589657	7079247	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
133374	31/08/2011	BernardDube	589632	7079208	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	70	Dry	Excellent	ForestMixed
133375	31/08/2011	BernardDube	589601	7079172	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	90	Moist	Excellent	ForestMixed
133376	31/08/2011	BernardDube	589576	7079117	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateW	C	50	Dry	Excellent	ForestMixed
133377	31/08/2011	BernardDube	589556	7079073	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	65	Dry	Excellent	ForestMixed
133378	31/08/2011	BernardDube	589521	7079037	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	70	Dry	Excellent	ForestMixed
133379	31/08/2011	BernardDube	589505	7078985	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	Flat	C	70	Dry	Excellent	ForestMixed
133380	31/08/2011	BernardDube	589473	7078952	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	65	Dry	Good	ForestMixed
133381	31/08/2011	BernardDube	589446	7078918	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	40	Moist	Good	ForestMixed
133382	31/08/2011	BernardDube	589414	7078864	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Dry	Excellent	ForestMixed
133383	31/08/2011	BernardDube	589390	7078829	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	70	Dry	Excellent	ForestMixed
133384	31/08/2011	BernardDube	589353	7078783	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateN	C	80	Moist	Excellent	ForestMixed
133385	31/08/2011	BernardDube	589328	7078743	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	80	Dry	Excellent	ForestMixed
133386	31/08/2011	BernardDube	589305	7078706	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	90	Dry	Excellent	ForestMixed
133387	31/08/2011	BernardDube	589272	7078666	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	65	Dry	Excellent	ForestMixed
133388	31/08/2011	BernardDube	589257	7078625	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	80	Dry	Excellent	ForestMixed
133389	31/08/2011	BernardDube	589212	7078578	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	65	Dry	Excellent	ForestMixed
133390	31/08/2011	BernardDube	589184	7078545	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	90	Dry	Excellent	ForestMixed
133391	31/08/2011	BernardDube	589173	7078498	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	65	Moist	Good	ForestMixed
133392	31/08/2011	BernardDube	589126	7078465	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
133393	01/09/2011	BernardDube	589667	7079609	UTMZ7N_WGS84	Colluvium	Grey		ModerateS	B	90	Moist	Good	ForestMixed
133394	01/09/2011	BernardDube	589641	7079558	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateS	B	80	Frozen	Good	ForestMixed
133395	01/09/2011	BernardDube	589611	7079511	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	90	Moist	Excellent	ForestMixed
133396	01/09/2011	BernardDube	589571	7079471	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	65	Moist	Excellent	ForestMixed
133397	01/09/2011	BernardDube	589562	7079434	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepS	C	65	Moist	Good	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
133398	01/09/2011	BernardDube	589529	7079394	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
133399	01/09/2011	BernardDube	589497	7079354	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	55	Moist	Excellent	ForestMixed
133400	01/09/2011	BernardDube	589499	7079527	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
133401	01/09/2011	BernardDube	589472	7079492	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
133402	01/09/2011	BernardDube	589447	7079448	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	65	Dry	Excellent	ForestMixed
133403	01/09/2011	BernardDube	589419	7079401	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Flat	C	60	Dry	Excellent	ForestMixed
133404	01/09/2011	BernardDube	589389	7079358	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateN	C	65	Dry	Excellent	ForestMixed
133405	01/09/2011	BernardDube	589360	7079317	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	50	Dry	Good	ForestMixed
133406	01/09/2011	BernardDube	589333	7079279	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	65	Moist	Excellent	ForestMixed
133407	01/09/2011	BernardDube	589298	7079238	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	60	Moist	Excellent	ForestMixed
133408	01/09/2011	BernardDube	589273	7079198	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	80	Moist	Excellent	ForestMixed
133409	01/09/2011	BernardDube	589251	7079149	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	100	Moist	Good	ForestMixed
133410	01/09/2011	BernardDube	589216	7079124	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	80	Moist	Excellent	ForestMixed
133411	01/09/2011	BernardDube	589195	7079061	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	65	Moist	Excellent	ForestMixed
133412	01/09/2011	BernardDube	589170	7079043	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	C	80	Moist	Good	ForestMixed
133413	01/09/2011	BernardDube	589132	7078987	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	C	100	Moist	Good	ForestMixed
133414	01/09/2011	BernardDube	589116	7078960	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	85	Moist	Excellent	ForestMixed
133415	01/09/2011	BernardDube	589072	7078912	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	100	Frozen	Good	ForestMixed
133416	01/09/2011	BernardDube	589040	7078877	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	75	Moist	Good	ForestMixed
133417	01/09/2011	BernardDube	589024	7078826	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	C	50	Moist	Good	ForestMixed
133418	01/09/2011	BernardDube	588992	7078783	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateN	B	100	Moist	Excellent	ForestMixed
133419	01/09/2011	BernardDube	588954	7078740	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateN	B	110	Moist	Excellent	ForestMixed
133420	01/09/2011	BernardDube	588941	7078699	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	70	Moist	Excellent	ForestMixed
133421	01/09/2011	BernardDube	588912	7078666	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateN	C	65	Moist	Excellent	ForestMixed
133422	01/09/2011	BernardDube	588863	7078622	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateN	C	60	Dry	Excellent	ForestMixed
134249	30/08/2011	BenDubois	590296	7078752	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	40	Moist	Poor	ForestMixed
134250	30/08/2011	BenDubois	590271	7078719	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	40	Frozen	Poor	ForestBlackSpruce
134251	30/08/2011	BenDubois	590242	7078666	UTMZ7N_WGS84	Soil	Grey	Silt	ModerateE	B	80	Frozen	Good	ForestBlackSpruce
134252	30/08/2011	BenDubois	590211	7078636	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	90	Wet	Poor	ForestBlackSpruce
134253	30/08/2011	BenDubois	590199	7078596	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	90	Moist	Good	ForestBlackSpruce
134254	30/08/2011	BenDubois	590163	7078547	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	90	Wet	Poor	ForestBlackSpruce
134255	30/08/2011	BenDubois	590125	7078499	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Moist	Poor	ForestBlackSpruce
134256	30/08/2011	BenDubois	590101	7078465	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	80	Dry	Good	ForestBlackSpruce
134257	30/08/2011	BenDubois	590073	7078430	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	40	Moist	Good	ForestBlackSpruce
134258	30/08/2011	BenDubois	590047	7078383	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateNE	C	90	Dry	Good	ForestMixed
134259	30/08/2011	BenDubois	590015	7078351	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	Flat	C	50	Moist	Excellent	ForestMixed
134260	30/08/2011	BenDubois	589989	7078286	UTMZ7N_WGS84	Colluvium	RustyOrange	Silt	ModerateS	C	50	Moist	Excellent	ForestMixed
134261	30/08/2011	BenDubois	589955	7078253	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Moist	Excellent	ForestMixed
134262	30/08/2011	BenDubois	589937	7078197	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Good	ForestMixed
134263	30/08/2011	BenDubois	589921	7078167	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	B	50	Dry	Good	ForestMixed
134264	30/08/2011	BenDubois	589861	7078119	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	70	Dry	Excellent	ForestMixed
134265	30/08/2011	BenDubois	589846	7078070	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	70	Moist	Good	ForestBlackSpruce
134266	30/08/2011	BenDubois	589811	7078037	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	50	Dry	Excellent	ForestMixed
134267	31/08/2011	BenDubois	590312	7079839	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSE	B	60	Moist	Poor	ForestBlackSpruce
134268	31/08/2011	BenDubois	590279	7079782	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSE	B	70	Dry	Excellent	ForestBlackSpruce
134269	31/08/2011	BenDubois	590256	7079745	UTMZ7N_WGS84	Soil	Brown	Silt	Flat	B	40	Moist	Good	ForestBlackSpruce
134270	31/08/2011	BenDubois	590219	7079707	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	50	Dry	Excellent	ForestBlackSpruce
134271	31/08/2011	BenDubois	590192	7079665	UTMZ7N_WGS84	Colluvium	BrownDark	Sand	ModerateS	C	80	Dry	Excellent	ForestMixed
134272	31/08/2011	BenDubois	590163	7079613	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	80	Dry	Good	ForestBlackSpruce
134273	31/08/2011	BenDubois	590128	7079583	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateS	B	40	Moist	Poor	ForestBlackSpruce
134274	31/08/2011	BenDubois	590111	7079541	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	70	Dry	Good	ForestBlackSpruce
134275	31/08/2011	BenDubois	590079	7079508	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	50	Dry	Good	ForestBlackSpruce
134276	31/08/2011	BenDubois	590063	7079478	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateS	B	40	Moist	Good	ForestBlackSpruce

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
134277	31/08/2011	BenDubois	590008	7079416	UTMZ7N_WGS84	Soil	BrownDark	Silt	Flat	B	30	Moist	Poor	ForestMixed
134278	31/08/2011	BenDubois	589989	7079371	UTMZ7N_WGS84	Soil	Brown	Gravel	ModerateE	B	80	Wet	Poor	ForestBlackSpruce
134279	31/08/2011	BenDubois	589965	7079335	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	80	Moist	Poor	ForestBlackSpruce
134280	31/08/2011	BenDubois	589941	7079304	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	40	Moist	Poor	ForestMixed
134281	31/08/2011	BenDubois	589898	7079238	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateE	B	40	Dry	Good	ForestMixed
134282	31/08/2011	BenDubois	589874	7079209	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateE	C	40	Dry	Good	ForestMixed
134283	31/08/2011	BenDubois	589825	7079133	UTMZ7N_WGS84	Soil	BrownDark	Silt	ModerateE	B	40	Moist	Poor	ForestBlackSpruce
134284	31/08/2011	BenDubois	589781	7079094	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateE	B	90	Moist	Good	ForestBlackSpruce
134285	31/08/2011	BenDubois	589778	7079030	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	70	Dry	Good	ForestBlackSpruce
134286	31/08/2011	BenDubois	589753	7079014	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Dry	Good	ForestMixed
134287	31/08/2011	BenDubois	589724	7078979	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	30	Dry	Excellent	ForestMixed
134288	31/08/2011	BenDubois	589679	7078914	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	30	Dry	Excellent	ForestMixed
134289	31/08/2011	BenDubois	589659	7078872	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
134291	31/08/2011	BenDubois	589638	7078849	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Excellent	ForestMixed
134292	31/08/2011	BenDubois	589604	7078804	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestBlackSpruce
134293	31/08/2011	BenDubois	589594	7078761	UTMZ7N_WGS84	Soil	BrownLight	Sand	ModerateS	C	80	Dry	Excellent	ForestBlackSpruce
134294	31/08/2011	BenDubois	589548	7078720	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Excellent	ForestMixed
134295	31/08/2011	BenDubois	589522	7078676	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestBlackSpruce
134296	31/08/2011	BenDubois	589503	7078631	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	ForestBlackSpruce
134297	31/08/2011	BenDubois	589462	7078593	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
134298	31/08/2011	BenDubois	589447	7078565	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
134299	31/08/2011	BenDubois	589415	7078515	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateS	C	40	Dry	Good	ForestMixed
134300	31/08/2011	BenDubois	589390	7078464	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Good	ForestMixed
134301	31/08/2011	BenDubois	589361	7078430	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
134302	31/08/2011	BenDubois	589345	7078376	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
134303	31/08/2011	BenDubois	589286	7078361	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	80	Dry	Excellent	ForestMixed
134304	01/09/2011	BenDubois	588481	7078909	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134305	01/09/2011	BenDubois	588496	7078943	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Excellent	ForestMixed
134306	01/09/2011	BenDubois	588533	7078984	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134307	01/09/2011	BenDubois	588559	7079021	UTMZ7N_WGS84	Soil	Brown	Silt	ModerateSW	B	40	Dry	Good	ForestMixed
134308	01/09/2011	BenDubois	588586	7079083	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134309	01/09/2011	BenDubois	588608	7079106	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134310	01/09/2011	BenDubois	588640	7079156	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134311	01/09/2011	BenDubois	588665	7079220	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134312	01/09/2011	BenDubois	588710	7079225	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	ForestBlackSpruce
134313	01/09/2011	BenDubois	588736	7079282	UTMZ7N_WGS84	Colluvium	Brown	Gravel	ModerateSW	C	30	Moist	Good	ForestMixed
134314	01/09/2011	BenDubois	588759	7079319	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	70	Dry	Excellent	ForestMixed
134315	01/09/2011	BenDubois	588782	7079346	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
134316	01/09/2011	BenDubois	588815	7079392	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	ForestMixed
134317	01/09/2011	BenDubois	588846	7079439	UTMZ7N_WGS84	Colluvium	Green	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
134318	01/09/2011	BenDubois	588866	7079492	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	40	Dry	Excellent	ForestMixed
134319	01/09/2011	BenDubois	588900	7079528	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
134320	01/09/2011	BenDubois	588899	7079569	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	50	Dry	Good	ForestMixed
134321	01/09/2011	BenDubois	588948	7079598	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateW	C	60	Dry	Excellent	ForestMixed
134322	01/09/2011	BenDubois				Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
134323	01/09/2011	BenDubois	588997	7079504	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
134324	01/09/2011	BenDubois	588974	7079465	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Moist	Excellent	ForestMixed
134325	01/09/2011	BenDubois	588948	7079431	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
134326	01/09/2011	BenDubois	588907	7079385	UTMZ7N_WGS84	Colluvium	Red	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
134327	01/09/2011	BenDubois	588895	7079337	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Excellent	ForestBlackSpruce
134328	01/09/2011	BenDubois	588864	7079307	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
134329	01/09/2011	BenDubois	588834	7079252	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
134330	01/09/2011	BenDubois	588819	7079204	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
134331	01/09/2011	BenDubois	588772	7079177	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Excellent	ForestMixed
134332	01/09/2011	BenDubois	588733	7079141	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Dry	Excellent	ForestMixed
134333	01/09/2011	BenDubois	588738	7079085	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	ForestBlackSpruce
134334	01/09/2011	BenDubois	588698	7079060	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	30	Dry	Excellent	ForestMixed
134335	01/09/2011	BenDubois	588676	7079008	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
134336	01/09/2011	BenDubois	588640	7078965	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
134337	01/09/2011	BenDubois	588610	7078919	UTMZ7N_WGS84	Colluvium	Orange	Silt	ModerateSW	C	80	Dry	Excellent	ForestMixed
134338	01/09/2011	BenDubois	588587	7078875	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	70	Dry	Excellent	ForestMixed
134339	01/09/2011	BenDubois	588554	7078849	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Excellent	ForestMixed
146681	28/08/2011	JordanHarrington	591230	7079220	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Good	ForestMixed
146682	28/08/2011	JordanHarrington	591193	7079191	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	50	Moist	Poor	ForestMixed
146683	28/08/2011	JordanHarrington	591160	7079143	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	B	50	Frozen	Poor	ForestMixed
146684	28/08/2011	JordanHarrington	591138	7079095	UTMZ7N_WGS84	Colluvium	BrownDark	Silt	ModerateSW	B	30	Moist	Poor	ForestMixed
146685	28/08/2011	JordanHarrington	591113	7079060	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSW	B	40	Frozen	Poor	ForestMixed
146686	28/08/2011	JordanHarrington	591089	7078997	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	ForestMixed
146687	28/08/2011	JordanHarrington	591051	7078977	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Dry	Good	ForestMixed
146688	28/08/2011	JordanHarrington	591010	7078918	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	50	Moist	Poor	ForestMixed
146689	28/08/2011	JordanHarrington	590990	7078877	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepSW	B	50	Dry	Good	ForestMixed
146690	28/08/2011	JordanHarrington	590970	7078855	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Frozen	Good	ForestMixed
146691	28/08/2011	JordanHarrington	590837	7078644	UTMZ7N_WGS84	Colluvium	Grey	Silt	Drainage	B	60	Frozen	Poor	DrainageAlder
146692	28/08/2011	JordanHarrington	590814	7078590	UTMZ7N_WGS84	Colluvium	Grey	Silt	Drainage	B	110	Frozen	Poor	ForestMixed
146693	28/08/2011	JordanHarrington	590761	7078579	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateSE	B	60	Frozen	Poor	ForestMixed
146694	28/08/2011	JordanHarrington	590734	7078525	UTMZ7N_WGS84	Lithosoil	Brown	Sand	Flat	C	80	Dry	Good	ForestMixed
146695	28/08/2011	JordanHarrington	590705	7078473	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateNE	C	100	Frozen	Good	ForestBlackSpruce
146696	28/08/2011	JordanHarrington	590695	7078430	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateNE	B	60	Frozen	Poor	ForestBlackSpruce
146697	28/08/2011	JordanHarrington	590661	7078389	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	70	Frozen	Poor	ForestBlackSpruce
146698	28/08/2011	JordanHarrington	590634	7078346	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	50	Frozen	Poor	ForestBlackSpruce
146699	28/08/2011	JordanHarrington	590610	7078305	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	70	Frozen	Poor	ForestBlackSpruce
146700	28/08/2011	JordanHarrington	590580	7078262	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	70	Frozen	Poor	ForestBlackSpruce
146701	28/08/2011	JordanHarrington	590550	7078206	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateE	B	40	Moist	Poor	ForestBlackSpruce
146702	28/08/2011	JordanHarrington	590516	7078192	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	80	Frozen	Poor	ForestBlackSpruce
146703	28/08/2011	JordanHarrington	590483	7078146	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	30	Dry	Good	ForestMixed
146704	28/08/2011	JordanHarrington	590458	7078112	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Dry	Good	ForestBlackSpruce
146705	28/08/2011	JordanHarrington	590448	7078056	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Frozen	Poor	ForestMixed
146706	28/08/2011	JordanHarrington	590409	7078020	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateE	C	60	Dry	Good	ForestMixed
146707	28/08/2011	JordanHarrington	590385	7077975	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	ForestMixed
146708	28/08/2011	JordanHarrington	590351	7077937	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	B	40	Dry	Good	ForestMixed
146709	28/08/2011	JordanHarrington	590322	7077897	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	50	Dry	Good	ForestMixed
146710	28/08/2011	JordanHarrington	590300	7077868	UTMZ7N_WGS84	Colluvium	Brown	Sand		C	40	Moist	Good	ForestMixed
146711	28/08/2011	JordanHarrington	590268	7077813	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSE	C	40	Dry	Good	ForestMixed
146712	29/08/2011	JordanHarrington	590890	7079451	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	40	Dry	Good	ForestMixed
146713	29/08/2011	JordanHarrington	590869	7079407	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	70	Frozen	Good	ForestMixed
146714	29/08/2011	JordanHarrington	590834	7079355	UTMZ7N_WGS84	Lithosoil	Tan	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
146715	29/08/2011	JordanHarrington	590800	7079313	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Frozen	Good	ForestMixed
146716	29/08/2011	JordanHarrington	590776	7079285	UTMZ7N_WGS84	Soil	BrownDark	Silt	Drainage	B	50	Frozen	Poor	ForestBlackSpruce
146717	29/08/2011	JordanHarrington	590747	7079234	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateE	C	40	Dry	Good	ForestBlackSpruce
146718	29/08/2011	JordanHarrington	590723	7079196	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Poor	ForestBlackSpruce
146719	29/08/2011	JordanHarrington	590689	7079152	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	ForestBlackSpruce
146720	29/08/2011	JordanHarrington	590667	7079114	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	30	Moist	Good	ForestBlackSpruce
146721	29/08/2011	JordanHarrington	590619	7079059	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	B	40	Moist	Good	ForestBlackSpruce
146722	29/08/2011	JordanHarrington	590606	7079018	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
146723	29/08/2011	JordanHarrington	590589	7078967	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateSE	C	60	Dry	Excellent	ForestMixed
146724	29/08/2011	JordanHarrington	590551	7078947	UTMZ7N_WGS84	Colluvium	Tan	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
146725	29/08/2011	JordanHarrington	590521	7078899	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Excellent	ForestMixed
146726	29/08/2011	JordanHarrington	590488	7078866	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	40	Dry	Good	ForestMixed
146727	29/08/2011	JordanHarrington	590470	7078801	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	B	40	Moist	Good	ForestMixed
146728	29/08/2011	JordanHarrington	590425	7078731	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Frozen	Good	ForestBlackSpruce
146729	29/08/2011	JordanHarrington	590359	7078656	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	40	Dry	Good	ForestMixed
146730	29/08/2011	JordanHarrington	590323	7078612	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	80	Frozen	Poor	ForestMixed
146731	29/08/2011	JordanHarrington	590288	7078570	UTMZ7N_WGS84	Colluvium	Brown	Clay	ModerateE	B	70	Frozen	Poor	ForestMixed
146732	29/08/2011	JordanHarrington	590267	7078548	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	40	Moist	Good	ForestMixed
146733	29/08/2011	JordanHarrington	590251	7078490	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	60	Frozen	Poor	ForestMixed
146734	29/08/2011	JordanHarrington	590220	7078450	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	C	60	Dry	Good	ForestMixed
146735	29/08/2011	JordanHarrington	590196	7078404	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateNE	B	40	Moist	Poor	ForestMixed
146736	29/08/2011	JordanHarrington	590168	7078372	UTMZ7N_WGS84	Colluvium	Brown	Silt	SteepNE	B	50	Frozen	Poor	ForestMixed
146737	29/08/2011	JordanHarrington	590134	7078325	UTMZ7N_WGS84	Lithosoil	Red	Sand	ModerateNE	C	40	Dry	Good	ForestMixed
146738	29/08/2011	JordanHarrington	590104	7078286	UTMZ7N_WGS84	Colluvium	RustyRed	Sand	Flat	C	50	Dry	Good	ForestBlackSpruce
146739	29/08/2011	JordanHarrington	590071	7078235	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	40	Moist	Good	ForestMixed
146740	29/08/2011	JordanHarrington	590055	7078198	UTMZ7N_WGS84	Colluvium	Pink	Sand	ModerateSW	C	40	Dry	Excellent	ForestMixed
146741	29/08/2011	JordanHarrington	590022	7078164	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
146742	29/08/2011	JordanHarrington	589995	7078133	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry	Good	ForestMixed
146743	29/08/2011	JordanHarrington	589969	7078081	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	50	Moist	Excellent	ForestMixed
146744	29/08/2011	JordanHarrington	589934	7078046	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Moist	Good	ForestMixed
146745	29/08/2011	JordanHarrington	589905	7077996	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	60	Dry	Good	ForestMixed
146746	30/08/2011	JordanHarrington	590552	7079665	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	30	Dry	Good	ForestMixed
146747	30/08/2011	JordanHarrington	590535	7079622	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
146748	30/08/2011	JordanHarrington	590498	7079580	UTMZ7N_WGS84	Colluvium	Brown	Silt	DrainageSeasonal	B	40	Frozen	Poor	ForestBlackSpruce
146749	30/08/2011	JordanHarrington	590470	7079542	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	50	Moist	Good	ForestMixed
146750	30/08/2011	JordanHarrington	590452	7079499	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Excellent	ForestMixed
146751	30/08/2011	JordanHarrington	590421	7079447	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSE	C	70	Moist	Good	ForestBlackSpruce
146752	30/08/2011	JordanHarrington	590394	7079413	UTMZ7N_WGS84	Soil	Grey	Silt	Flat	B	50	Moist	Good	ForestMixed
146753	30/08/2011	JordanHarrington	590351	7079374	UTMZ7N_WGS84	Colluvium	RustyOrange	Sand	ModerateS	C	60	Dry	Excellent	ForestMixed
146754	30/08/2011	JordanHarrington	590334	7079344	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	B	50	Moist	Good	ForestMixed
146755	30/08/2011	JordanHarrington	590300	7079294	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	60	Moist	Good	ForestMixed
146756	30/08/2011	JordanHarrington	590290	7079256	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateS	C	60	Dry	Excellent	ForestMixed
146757	30/08/2011	JordanHarrington	590249	7079209	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateS	C	50	Dry	Good	ForestMixed
146758	30/08/2011	JordanHarrington	590204	7079173	UTMZ7N_WGS84	Colluvium	Grey	Clay	Drainage	B	60	Frozen	Poor	ForestBlackSpruce
146759	30/08/2011	JordanHarrington	590187	7079132	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	60	Frozen	Poor	ForestMixed
146760	30/08/2011	JordanHarrington	590164	7079084	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	50	Moist	Good	ForestMixed
146761	30/08/2011	JordanHarrington	590139	7079026	UTMZ7N_WGS84	Colluvium	Green	Clay	ModerateE	B	60	Frozen	Poor	ForestMixed
146762	30/08/2011	JordanHarrington	590118	7079006	UTMZ7N_WGS84	Colluvium	Grey	Clay	ModerateE	B	70	Wet	Poor	ForestMixed
146763	30/08/2011	JordanHarrington	590084	7078961	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	B	60	Moist	Poor	ForestMixed
146764	30/08/2011	JordanHarrington	590047	7078930	UTMZ7N_WGS84	Colluvium	Grey	Silt	ModerateE	B	80	Frozen	Poor	ForestMixed
146765	30/08/2011	JordanHarrington	590025	7078883	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	ForestMixed
146766	30/08/2011	JordanHarrington	589983	7078828	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	ForestMixed
146767	30/08/2011	JordanHarrington	589971	7078798	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Frozen	Good	ForestMixed
146768	30/08/2011	JordanHarrington	589934	7078752	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Moist	Good	ForestMixed
146769	30/08/2011	JordanHarrington	589918	7078707	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	80	Moist	Good	ForestMixed
146770	30/08/2011	JordanHarrington	589890	7078668	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateE	C	60	Dry	Good	ForestMixed
146771	30/08/2011	JordanHarrington	589855	7078636	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateE	C	40	Dry	Good	ForestMixed
146772	30/08/2011	JordanHarrington	589829	7078604	UTMZ7N_WGS84	Colluvium	BrownLight	Sand	ModerateE	C	50	Dry	Good	ForestMixed
146773	30/08/2011	JordanHarrington	589795	7078549	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateE	C	30	Dry	Good	ForestBlackSpruce
146774	30/08/2011	JordanHarrington	589775	7078508	UTMZ7N_WGS84	Colluvium	Brown	Silt	Flat	C	30	Dry	Good	ForestMixed
146775	30/08/2011	JordanHarrington	589748	7078465	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	60	Dry	Excellent	ForestBlackSpruce
146776	30/08/2011	JordanHarrington	589710	7078415	UTMZ7N_WGS84	Colluvium	Tan	Sand	ModerateSW	C	60	Dry	Excellent	ForestMixed
146777	30/08/2011	JordanHarrington	589693	7078386	UTMZ7N_WGS84	Lithosoil	BrownLight	Sand	ModerateSW	C	30	Dry	Good	ForestMixed

Appendix B. Sample locations and descriptions

Sample	Date	Sampler	Easting	Northing	EastNorthDatum	Type	Colour	Texture	Terrain	Horizon	Depth	Moisture	Quality	Vegetation
146778	30/08/2011	JordanHarrington	589658	7078340	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
146779	30/08/2011	JordanHarrington	589631	7078299	UTMZ7N_WGS84	Colluvium	BrownLight	Silt	ModerateSW	C	50	Dry	Excellent	ForestMixed
146780	30/08/2011	JordanHarrington	589613	7078265	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Excellent	ForestMixed
146781	30/08/2011	JordanHarrington	589575	7078216	UTMZ7N_WGS84	Colluvium	Brown	Silt	ModerateSW	C	40	Dry	Good	ForestMixed
146782	30/08/2011	JordanHarrington	589545	7078179	UTMZ7N_WGS84	Colluvium	Brown	Sand	ModerateSW	C	50	Dry	Excellent	ForestMixed

Appendix C - Analytical Certifications



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: Lauren Wilson
Receiving Lab: Canada-Whitehorse
Received: September 08, 2011
Report Date: October 06, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI11001328.1

CLIENT JOB INFORMATION

Project: QUARTZ
Shipment ID: Q2
P.O. Number
Number of Samples: 301

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:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	301	Dry at 60C			WHI
SS80	301	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	301	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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

Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11001328.1

Method Analyte	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	
106949	Soil	1.4	20.1	19.1	54	0.2	15.1	6.2	419	1.96	10.5	2.2	1.9	6.0	30	0.3	0.5	0.3	27	0.60	0.039
106950	Soil	1.2	23.6	18.6	61	0.2	16.0	7.3	327	2.11	10.5	2.3	3.0	7.0	30	0.3	0.5	0.3	30	0.53	0.043
106951	Soil	1.1	16.0	19.5	76	0.2	11.9	5.1	382	1.85	8.2	2.3	2.2	10.4	22	0.2	0.5	0.4	22	0.34	0.039
106952	Soil	1.4	16.7	20.2	52	0.2	13.5	6.5	407	1.81	8.0	2.4	4.3	6.0	27	0.2	0.4	0.3	28	0.46	0.033
106953	Soil	1.1	18.9	16.9	50	0.3	14.1	6.7	547	1.83	8.5	2.2	2.2	3.7	37	0.3	0.5	0.2	30	0.78	0.045
106954	Soil	1.3	22.8	19.2	48	0.4	15.8	6.3	1020	1.56	5.5	4.1	2.8	4.2	71	0.5	0.6	0.2	24	1.07	0.047
106955	Soil	1.1	24.3	16.7	66	0.2	19.2	8.4	427	2.20	8.8	1.4	6.6	5.2	30	0.6	0.7	0.2	45	0.37	0.045
106956	Soil	1.0	28.4	12.2	68	0.1	22.4	8.6	387	2.22	13.6	1.1	1.5	4.9	36	0.3	0.8	0.2	42	0.58	0.060
106957	Soil	1.7	32.3	15.2	67	0.2	23.3	10.5	499	2.47	57.7	1.2	1.6	6.0	37	0.4	1.3	0.2	47	0.56	0.060
106958	Soil	1.0	33.1	10.4	72	0.1	29.0	9.6	426	2.31	9.7	0.6	2.4	4.2	53	0.2	0.8	0.2	44	1.54	0.076
106959	Soil	1.0	35.7	12.0	62	0.2	27.6	10.0	420	2.40	10.5	1.0	6.0	4.6	44	0.2	0.8	0.2	47	1.07	0.061
106960	Soil	0.9	31.6	11.5	57	0.2	25.1	9.5	397	2.28	10.4	1.1	1.9	4.1	60	0.2	0.8	0.2	43	1.66	0.061
106961	Soil	1.1	44.0	27.2	93	0.2	25.6	8.4	335	2.49	21.0	1.1	3.6	6.0	37	0.3	1.0	0.2	43	0.71	0.041
106962	Soil	1.1	30.4	9.9	65	0.1	26.5	10.1	431	2.32	9.9	0.7	2.5	4.0	59	0.3	0.8	0.2	43	1.71	0.068
106963	Soil	1.2	32.3	10.6	74	0.1	27.5	10.2	448	2.29	10.4	0.7	2.4	4.0	59	0.4	1.0	0.2	43	1.60	0.072
106964	Soil	0.7	39.2	9.9	81	0.2	29.3	24.8	974	4.26	3.8	0.7	0.8	2.0	39	0.4	1.1	<0.1	85	2.61	0.045
106965	Soil	2.3	39.3	26.9	75	0.3	19.4	9.7	433	2.41	11.2	5.5	6.6	7.0	47	0.4	0.6	0.3	52	0.46	0.062
106966	Soil	0.8	13.5	10.7	51	<0.1	13.3	6.5	199	1.99	5.3	0.9	2.1	5.3	19	<0.1	0.5	0.1	37	0.24	0.037
106967	Soil	0.9	18.0	11.0	47	<0.1	15.6	6.4	191	2.02	6.8	1.3	2.9	5.9	22	<0.1	0.5	0.1	40	0.28	0.036
106968	Soil	0.8	21.5	10.1	48	<0.1	16.9	6.5	237	1.96	6.5	1.4	3.7	5.9	25	0.1	0.6	0.2	38	0.32	0.046
106969	Soil	0.8	18.1	13.5	59	0.1	15.5	7.4	240	2.13	6.3	1.2	2.6	5.3	24	0.1	0.5	0.2	39	0.30	0.046
122470	Soil	0.9	27.7	13.9	70	0.1	21.2	9.9	429	2.80	11.6	3.2	2.7	8.3	31	0.1	0.6	0.1	43	0.34	0.048
122471	Soil	1.6	17.1	24.3	98	0.2	16.2	9.7	608	2.08	121.7	3.1	1.2	9.1	25	0.6	2.2	0.2	23	0.28	0.047
122472	Soil	1.3	15.6	26.6	84	<0.1	13.4	7.2	303	2.11	20.2	4.6	0.8	7.4	23	0.2	0.6	0.3	27	0.25	0.043
122473	Soil	1.1	14.4	51.3	66	0.1	9.3	4.8	173	1.69	18.4	5.0	1.3	7.5	18	0.2	0.6	0.3	19	0.18	0.027
122474	Soil	0.9	16.2	71.4	82	0.1	9.6	4.0	189	1.52	12.7	6.2	2.5	9.8	20	0.2	0.6	0.2	21	0.19	0.019
122475	Soil	1.2	10.0	43.2	71	<0.1	10.1	5.7	230	1.83	18.1	1.8	0.6	3.6	24	0.3	0.7	0.2	36	0.25	0.024
122476	Soil	1.2	24.8	53.7	95	0.3	12.3	4.4	208	1.69	46.6	6.5	2.9	10.7	29	0.8	1.2	0.3	21	0.26	0.036
122477	Soil	1.2	39.0	26.4	136	0.3	20.5	9.9	625	2.60	35.6	6.9	9.6	6.6	48	0.8	1.1	0.3	39	0.55	0.061
122478	Soil	1.9	45.1	48.3	115	0.1	14.1	7.1	232	2.17	58.0	2.5	1.6	6.8	13	0.4	1.3	0.6	34	0.14	0.036

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Project: QUARTZ
 Report Date: October 06, 2011

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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
106949	Soil	22	19	0.34	500	0.012	2	1.02	0.008	0.09	0.2	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2
106950	Soil	26	20	0.35	506	0.018	2	0.98	0.009	0.08	0.2	0.05	3.4	<0.1	<0.05	3	<0.5	<0.2
106951	Soil	43	15	0.31	563	0.022	2	0.82	0.007	0.17	0.1	0.02	3.3	0.2	<0.05	3	<0.5	<0.2
106952	Soil	24	19	0.30	437	0.020	3	0.97	0.007	0.09	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
106953	Soil	23	19	0.31	434	0.014	1	0.99	0.009	0.07	0.2	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2
106954	Soil	48	16	0.29	814	0.019	2	1.00	0.009	0.06	0.1	0.08	3.0	<0.1	0.07	3	<0.5	<0.2
106955	Soil	29	26	0.42	383	0.043	1	1.40	0.013	0.05	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
106956	Soil	17	22	0.45	366	0.044	2	1.10	0.020	0.05	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
106957	Soil	17	25	0.49	395	0.046	1	1.30	0.026	0.07	0.2	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
106958	Soil	13	24	0.90	356	0.056	2	1.09	0.024	0.06	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
106959	Soil	16	25	0.62	422	0.051	2	1.22	0.023	0.06	0.2	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
106960	Soil	15	23	0.63	373	0.047	1	1.11	0.024	0.05	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
106961	Soil	22	28	0.58	376	0.048	1	1.39	0.018	0.06	0.2	0.06	3.3	<0.1	<0.05	4	<0.5	<0.2
106962	Soil	13	23	0.77	408	0.052	2	1.13	0.025	0.05	0.3	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
106963	Soil	14	24	0.78	433	0.053	2	1.09	0.027	0.07	0.2	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
106964	Soil	7	38	1.76	614	0.076	1	2.24	0.017	0.95	<0.1	0.03	6.9	0.5	<0.05	5	<0.5	<0.2
106965	Soil	38	30	0.58	569	0.048	1	1.65	0.011	0.07	0.2	0.07	4.9	0.2	<0.05	5	<0.5	<0.2
106966	Soil	17	21	0.45	211	0.060	1	1.26	0.008	0.07	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
106967	Soil	19	25	0.39	313	0.052	<1	1.35	0.009	0.05	0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
106968	Soil	18	22	0.36	310	0.056	<1	1.26	0.010	0.06	0.2	0.02	3.4	0.1	<0.05	4	<0.5	<0.2
106969	Soil	21	23	0.43	333	0.054	1	1.42	0.010	0.08	0.2	0.05	3.2	0.1	<0.05	4	<0.5	<0.2
122470	Soil	26	26	0.55	299	0.050	1	1.35	0.015	0.24	0.2	0.04	5.2	0.2	<0.05	4	<0.5	<0.2
122471	Soil	31	18	0.23	467	0.013	<1	0.80	0.008	0.09	0.1	0.03	3.0	<0.1	<0.05	2	<0.5	<0.2
122472	Soil	21	18	0.29	331	0.021	<1	0.82	0.008	0.08	<0.1	0.04	3.1	<0.1	<0.05	2	<0.5	<0.2
122473	Soil	20	13	0.21	318	0.017	<1	0.67	0.007	0.08	<0.1	0.02	2.1	<0.1	<0.05	2	<0.5	<0.2
122474	Soil	20	14	0.21	258	0.023	<1	0.71	0.008	0.07	0.1	0.04	2.0	<0.1	<0.05	2	<0.5	<0.2
122475	Soil	14	18	0.31	263	0.035	<1	0.95	0.008	0.10	0.2	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
122476	Soil	46	14	0.21	377	0.021	<1	0.66	0.010	0.10	0.2	0.06	2.7	<0.1	<0.05	2	<0.5	<0.2
122477	Soil	35	25	0.52	475	0.035	1	1.27	0.013	0.10	0.1	0.06	4.1	0.1	<0.05	3	<0.5	<0.2
122478	Soil	56	19	0.30	324	0.030	<1	1.13	0.006	0.08	<0.1	0.02	2.1	0.1	<0.05	3	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	
122479	Soil		1.1	31.9	21.9	72	<0.1	17.6	7.2	225	2.08	24.7	1.5	5.7	6.8	19	0.1	0.8	0.2	39	0.25	0.040
122480	Soil		1.2	24.4	27.7	99	<0.1	13.2	6.4	241	2.05	29.7	1.8	14.8	7.7	17	0.2	0.8	0.4	31	0.22	0.039
122481	Soil		1.2	33.7	31.0	127	0.1	15.1	7.9	383	2.23	45.5	2.0	4.2	8.5	19	0.5	1.1	0.2	33	0.25	0.040
122482	Soil		1.0	26.9	18.1	88	0.1	16.5	9.2	453	2.12	21.7	1.6	1.8	5.2	22	0.4	0.7	0.2	37	0.32	0.046
122483	Soil		1.1	35.5	22.5	121	0.3	18.7	10.7	584	2.50	24.9	2.0	1.9	4.4	29	0.5	0.7	0.2	47	0.44	0.054
122484	Soil		0.9	18.9	29.6	121	0.2	9.7	5.8	495	1.27	33.9	2.4	0.9	17.6	12	0.8	0.6	0.2	16	0.15	0.023
122485	Soil		1.2	37.0	21.4	101	0.3	18.4	10.9	410	2.59	17.6	1.5	13.1	3.9	30	0.3	0.8	0.2	47	0.49	0.053
122486	Soil		1.0	27.0	16.0	73	0.1	18.4	7.8	235	2.25	14.1	1.4	1.2	3.2	39	0.3	0.8	0.2	44	0.58	0.059
122487	Soil		1.2	34.3	26.3	166	0.2	17.9	11.9	876	2.47	22.8	2.5	1.3	5.1	36	0.9	0.9	0.3	38	0.47	0.072
122488	Soil		2.4	129.1	67.7	801	0.4	52.5	24.9	1976	4.07	91.1	5.0	1.2	20.0	43	3.9	2.7	1.2	35	0.40	0.087
122489	Soil		0.6	19.0	7.9	60	0.1	18.9	8.0	233	2.09	8.4	0.8	2.2	3.4	37	0.2	0.6	0.1	42	0.76	0.072
122490	Soil		1.0	25.2	7.6	59	<0.1	22.3	8.7	365	2.16	8.7	0.6	2.3	2.1	39	0.2	0.7	0.1	44	0.82	0.063
122491	Soil		1.2	28.7	8.8	57	0.2	24.4	9.9	566	2.42	10.4	1.4	2.9	3.3	44	0.3	0.8	0.1	49	0.93	0.070
122492	Soil		0.9	32.9	8.3	67	0.1	27.7	9.8	416	2.35	11.1	0.5	2.6	3.7	43	0.3	0.8	0.1	42	1.60	0.081
122493	Soil		1.2	25.8	13.3	59	0.2	19.2	8.4	341	2.38	8.4	1.1	2.9	6.6	28	0.2	0.7	0.2	44	0.49	0.043
122494	Soil		0.9	32.4	8.2	66	0.1	27.4	10.1	423	2.38	11.0	0.5	4.6	3.7	45	0.3	0.8	0.1	44	1.56	0.077
122495	Soil		1.0	36.1	9.3	67	0.2	30.0	10.6	450	2.50	10.9	0.6	2.2	3.7	45	0.2	0.8	0.1	50	1.09	0.072
122496	Soil		1.2	32.3	8.4	64	0.1	27.3	10.2	441	2.38	10.8	0.5	2.3	3.7	56	0.2	0.8	0.1	47	1.79	0.073
122497	Soil		1.0	22.4	10.9	66	0.1	21.1	11.0	475	2.51	7.7	1.2	1.9	6.6	30	0.3	0.6	0.2	51	0.45	0.053
122498	Soil		0.8	33.7	9.1	64	0.1	25.9	8.4	309	2.47	10.3	0.8	1.8	4.8	46	0.2	0.9	0.1	49	1.19	0.065
122499	Soil		1.0	32.8	13.4	70	0.1	27.2	10.7	438	2.56	9.9	0.7	2.4	6.0	44	0.2	0.9	0.1	50	1.19	0.053
122500	Soil		0.8	31.8	10.7	69	0.2	27.1	9.0	334	2.60	10.2	0.6	3.8	4.7	36	0.2	0.8	0.1	51	0.72	0.072
122501	Soil		0.9	20.7	20.8	77	0.4	14.7	7.6	492	2.49	5.9	1.9	3.8	15.2	17	0.2	0.5	0.1	25	0.25	0.055
122502	Soil		1.2	21.6	45.2	83	<0.1	16.0	7.1	251	2.24	6.6	0.7	1.3	7.8	14	0.2	0.5	0.2	34	0.18	0.031
122503	Soil		0.8	10.2	48.9	79	0.1	5.8	2.5	164	1.21	3.0	1.3	0.9	9.2	14	0.2	0.3	0.1	15	0.11	0.016
122504	Soil		1.1	30.8	11.3	66	0.1	26.1	9.2	306	2.73	10.8	0.5	3.2	4.7	32	0.1	0.9	0.2	58	0.46	0.049
122505	Soil		1.0	15.4	17.5	40	0.1	9.5	4.0	149	1.76	4.2	1.0	0.7	9.0	14	<0.1	0.4	0.2	28	0.13	0.016
122506	Soil		1.2	12.5	9.8	35	0.3	11.6	5.5	272	1.70	6.7	1.1	2.4	6.5	15	<0.1	0.4	0.2	32	0.17	0.016
122507	Soil		0.8	15.4	9.5	37	0.1	11.5	4.4	209	1.59	5.5	1.9	3.5	11.4	13	<0.1	0.5	0.2	20	0.13	0.015
122508	Soil		1.1	12.2	9.6	33	0.2	10.5	5.7	231	1.93	7.1	0.9	2.1	5.2	15	<0.1	0.4	0.2	40	0.19	0.019

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Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11001328.1

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	
122479	Soil	23	24	0.39	406	0.041	<1	1.16	0.008	0.06	0.2	0.05	2.8	<0.1	<0.05	3	<0.5	<0.2
122480	Soil	22	20	0.34	308	0.035	<1	1.02	0.009	0.08	0.1	0.02	2.4	0.1	<0.05	3	<0.5	<0.2
122481	Soil	24	17	0.39	385	0.033	<1	0.97	0.009	0.10	0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
122482	Soil	20	20	0.40	327	0.037	<1	1.05	0.010	0.05	0.3	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
122483	Soil	24	25	0.52	402	0.040	1	1.41	0.012	0.08	0.3	0.05	3.6	0.1	<0.05	4	<0.5	<0.2
122484	Soil	69	9	0.22	209	0.016	<1	0.59	0.007	0.13	<0.1	0.01	1.5	0.1	<0.05	1	<0.5	<0.2
122485	Soil	21	24	0.64	395	0.051	1	1.44	0.011	0.10	0.3	0.05	3.2	<0.1	<0.05	4	0.6	<0.2
122486	Soil	16	23	0.53	390	0.041	<1	1.29	0.012	0.07	0.3	0.04	2.9	<0.1	0.07	4	<0.5	<0.2
122487	Soil	26	21	0.61	319	0.045	<1	1.11	0.008	0.14	0.2	0.05	2.8	0.1	0.07	3	<0.5	<0.2
122488	Soil	99	37	1.16	317	0.059	<1	1.65	0.002	0.29	<0.1	0.07	4.6	0.6	<0.05	5	0.9	<0.2
122489	Soil	14	23	0.49	259	0.051	3	1.08	0.018	0.06	0.3	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
122490	Soil	11	24	0.50	360	0.043	2	1.19	0.018	0.06	0.2	0.03	2.7	<0.1	0.06	4	<0.5	<0.2
122491	Soil	14	25	0.49	443	0.044	2	1.17	0.021	0.05	0.2	0.03	3.0	<0.1	<0.05	4	0.6	<0.2
122492	Soil	13	25	0.75	326	0.053	2	1.06	0.018	0.08	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
122493	Soil	27	25	0.50	405	0.048	1	1.47	0.015	0.07	0.2	0.05	3.4	<0.1	<0.05	4	0.6	<0.2
122494	Soil	13	24	0.77	344	0.054	2	1.10	0.019	0.08	0.3	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
122495	Soil	15	27	0.68	403	0.059	2	1.30	0.026	0.07	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
122496	Soil	13	24	0.79	410	0.062	2	1.15	0.024	0.08	0.3	0.03	3.0	<0.1	<0.05	4	0.6	<0.2
122497	Soil	26	27	0.59	391	0.064	1	1.61	0.019	0.10	0.2	0.03	3.6	0.1	<0.05	5	0.7	<0.2
122498	Soil	17	26	0.68	454	0.058	2	1.32	0.025	0.08	0.2	0.04	3.4	<0.1	<0.05	4	0.5	<0.2
122499	Soil	23	27	0.66	458	0.058	1	1.42	0.024	0.09	0.2	0.04	4.2	0.1	<0.05	4	0.5	<0.2
122500	Soil	17	27	0.65	458	0.062	1	1.39	0.033	0.09	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
122501	Soil	67	17	0.52	432	0.045	<1	1.25	0.006	0.44	0.1	0.04	5.9	0.3	<0.05	5	<0.5	<0.2
122502	Soil	29	23	0.48	313	0.046	<1	1.35	0.006	0.14	0.2	0.02	3.1	0.1	<0.05	4	<0.5	<0.2
122503	Soil	29	8	0.38	250	0.026	<1	0.79	0.004	0.18	<0.1	0.02	1.4	0.2	<0.05	3	<0.5	<0.2
122504	Soil	17	32	0.60	445	0.065	<1	1.60	0.021	0.08	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
122505	Soil	27	14	0.29	364	0.038	<1	1.03	0.006	0.17	0.1	0.03	2.7	0.1	<0.05	4	<0.5	<0.2
122506	Soil	26	19	0.26	532	0.030	<1	0.91	0.007	0.07	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
122507	Soil	40	14	0.24	507	0.026	<1	0.81	0.005	0.13	<0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
122508	Soil	21	20	0.30	429	0.034	<1	1.28	0.007	0.10	0.2	0.02	2.2	<0.1	<0.05	4	0.6	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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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
122509	Soil	0.8	9.3	8.4	30	<0.1	8.8	4.0	225	1.61	6.2	0.9	1.4	7.6	10	<0.1	0.5	0.2	27	0.11	0.017
122510	Soil	0.9	12.8	12.2	35	0.2	9.4	3.9	307	1.49	5.6	2.2	2.2	10.5	18	0.2	0.5	0.2	23	0.23	0.027
122511	Soil	1.4	17.6	11.8	50	0.1	17.4	9.1	594	2.29	9.6	1.1	8.2	5.0	21	0.3	0.6	0.2	51	0.24	0.031
122512	Soil	1.3	24.5	12.5	49	0.1	19.2	8.0	275	2.25	9.1	1.3	2.6	6.1	25	0.1	0.7	0.1	47	0.31	0.040
122513	Soil	0.8	16.7	12.4	38	0.1	11.3	4.6	190	1.52	5.8	1.0	1.4	6.8	16	0.3	0.6	0.1	31	0.17	0.023
122514	Soil	1.0	24.9	18.3	57	0.2	15.8	6.4	230	2.06	9.8	1.1	2.4	7.3	22	0.4	0.7	0.2	41	0.25	0.030
122515	Soil	1.5	27.2	18.2	59	0.2	22.2	8.5	362	2.34	10.2	0.9	3.6	6.1	30	0.2	0.9	0.2	47	0.65	0.045
122516	Soil	1.9	72.8	57.7	179	0.2	30.2	10.1	475	3.03	22.6	1.3	3.9	9.2	19	0.6	1.0	0.3	41	0.23	0.043
122517	Soil	1.3	60.0	35.0	112	0.4	32.7	13.1	624	2.96	64.6	0.9	10.7	7.9	31	0.4	1.6	0.3	46	0.68	0.041
122518	Soil	1.6	63.8	70.4	327	0.3	31.6	10.0	688	4.02	35.5	1.3	3.8	8.9	27	1.0	1.2	0.6	57	0.24	0.034
122519	Soil	0.5	143.1	11.9	145	0.2	21.4	21.3	1031	4.87	4.9	0.5	1.5	1.4	19	0.1	0.3	<0.1	75	0.39	0.026
122520	Soil	0.6	87.6	14.4	311	0.2	14.7	8.4	398	1.91	18.2	2.1	3.5	10.5	13	0.6	0.8	0.2	31	0.18	0.012
122521	Soil	0.8	44.6	28.0	78	0.1	18.8	9.0	410	2.18	16.0	3.8	4.3	10.8	15	0.2	0.7	0.3	33	0.23	0.012
122522	Soil	1.5	29.5	23.2	103	0.2	13.2	7.4	268	2.01	11.0	2.7	4.6	6.0	48	0.4	0.4	0.3	39	0.46	0.062
122523	Soil	1.0	37.3	9.7	122	<0.1	12.5	6.9	382	2.15	6.1	1.4	2.3	4.8	19	0.3	0.5	0.1	31	0.34	0.059
122524	Soil	0.9	10.0	11.8	33	<0.1	10.8	5.4	163	1.38	4.7	1.2	3.5	9.5	12	0.1	0.5	0.1	24	0.14	0.031
122525	Soil	0.9	26.8	10.5	63	<0.1	18.9	7.7	252	2.45	7.6	1.7	2.3	6.5	24	<0.1	0.6	0.2	42	0.32	0.049
122526	Soil	0.8	13.8	12.0	48	<0.1	13.6	5.9	162	1.90	6.2	1.1	4.9	6.3	19	<0.1	0.6	0.1	39	0.25	0.033
122527	Soil	1.0	19.7	14.5	48	<0.1	14.8	6.6	203	1.86	5.6	1.3	2.2	7.5	20	<0.1	0.7	0.2	36	0.26	0.033
122528	Soil	0.8	28.1	12.1	70	0.1	21.8	6.9	245	2.36	5.9	1.1	2.4	7.3	25	0.1	0.7	0.2	41	0.34	0.050
122529	Soil	0.7	26.6	13.8	65	<0.1	20.6	10.4	288	3.09	6.0	0.8	2.5	6.7	16	<0.1	0.7	0.2	40	0.27	0.015
122530	Soil	0.8	12.1	15.6	49	0.3	11.8	4.9	214	1.95	4.9	1.0	3.4	6.6	16	0.1	0.5	0.2	34	0.38	0.027
122531	Soil	0.8	14.6	16.4	69	<0.1	15.8	9.6	350	2.81	6.2	0.9	1.1	8.8	11	0.1	0.5	0.2	37	0.10	0.023
122532	Soil	0.8	10.1	20.3	56	0.2	10.8	4.2	222	1.82	3.4	1.0	2.2	7.8	11	0.1	0.4	0.2	24	0.13	0.026
122533	Soil	1.2	13.0	18.7	55	0.3	13.9	5.4	192	2.37	6.0	1.0	1.1	8.9	12	<0.1	0.5	0.3	38	0.12	0.014
122534	Soil	0.9	9.5	15.3	38	0.2	11.4	5.0	177	1.96	4.9	0.5	1.6	8.1	11	0.1	0.4	0.2	47	0.12	0.011
122535	Soil	0.7	3.8	11.3	38	0.1	6.0	3.9	160	1.70	3.5	0.7	0.6	5.5	5	<0.1	0.5	<0.1	19	0.06	0.029
122536	Soil	1.9	15.8	67.4	88	0.1	10.9	8.3	313	2.24	2.6	1.7	1.2	13.3	9	0.3	0.4	0.1	24	0.06	0.026
122537	Soil	0.7	8.8	16.7	71	0.2	10.7	7.3	773	2.02	4.4	0.6	0.7	7.8	12	0.3	0.3	0.1	35	0.11	0.034
122538	Soil	0.6	10.0	19.5	66	<0.1	6.7	3.7	192	1.74	3.6	1.1	0.7	13.1	7	<0.1	0.4	<0.1	15	0.05	0.015

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Project: QUARTZ
 Report Date: October 06, 2011

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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	
122509	Soil	28	15	0.22	302	0.031	<1	0.90	0.005	0.09	0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
122510	Soil	45	15	0.20	593	0.022	<1	0.76	0.008	0.12	0.1	0.01	2.8	<0.1	<0.05	3	0.6	<0.2
122511	Soil	22	29	0.39	380	0.047	<1	1.54	0.014	0.07	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
122512	Soil	26	25	0.37	371	0.047	<1	1.33	0.014	0.05	0.1	0.03	3.4	<0.1	<0.05	4	0.8	<0.2
122513	Soil	36	18	0.27	264	0.051	<1	0.92	0.008	0.07	0.1	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
122514	Soil	31	24	0.31	433	0.058	<1	1.26	0.011	0.08	0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
122515	Soil	23	28	0.49	455	0.055	<1	1.37	0.016	0.07	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
122516	Soil	45	34	0.69	358	0.071	<1	1.60	0.009	0.16	0.1	0.04	4.0	0.2	<0.05	4	0.9	<0.2
122517	Soil	29	29	0.55	465	0.050	<1	1.48	0.020	0.11	0.2	0.07	3.6	0.1	0.06	4	0.6	<0.2
122518	Soil	30	36	0.76	411	0.062	1	1.73	0.014	0.26	<0.1	0.06	5.6	0.3	0.12	5	0.6	<0.2
122519	Soil	7	19	2.48	937	0.166	<1	2.97	0.007	1.49	<0.1	0.03	2.3	0.6	<0.05	5	<0.5	<0.2
122520	Soil	12	20	0.64	371	0.054	<1	1.05	0.005	0.30	<0.1	0.03	2.8	0.2	<0.05	2	<0.5	<0.2
122521	Soil	37	18	0.57	236	0.039	1	1.20	0.006	0.14	<0.1	0.04	3.9	0.1	<0.05	3	<0.5	<0.2
122522	Soil	24	20	0.51	395	0.047	1	1.04	0.008	0.15	0.2	0.03	3.0	0.2	<0.05	3	<0.5	<0.2
122523	Soil	13	17	0.58	276	0.050	<1	1.27	0.005	0.19	<0.1	0.02	3.1	0.2	<0.05	4	<0.5	<0.2
122524	Soil	21	19	0.27	155	0.034	<1	0.78	0.006	0.06	0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
122525	Soil	19	25	0.52	320	0.074	1	1.49	0.011	0.18	0.1	0.03	4.2	0.1	<0.05	4	<0.5	<0.2
122526	Soil	19	22	0.36	278	0.060	<1	1.17	0.011	0.06	0.2	0.04	2.5	<0.1	<0.05	3	<0.5	<0.2
122527	Soil	24	23	0.33	297	0.059	1	1.17	0.009	0.08	0.2	0.04	3.5	<0.1	<0.05	3	<0.5	<0.2
122528	Soil	27	25	0.57	382	0.071	1	1.44	0.014	0.17	0.1	0.05	4.2	0.2	<0.05	4	<0.5	<0.2
122529	Soil	17	27	0.86	259	0.091	<1	2.00	0.006	0.35	0.1	0.03	3.4	0.3	<0.05	5	<0.5	<0.2
122530	Soil	26	18	0.46	263	0.042	<1	1.24	0.007	0.12	0.1	0.04	3.1	0.1	<0.05	4	<0.5	<0.2
122531	Soil	12	22	0.53	159	0.073	<1	1.72	0.006	0.31	0.1	<0.01	2.9	0.3	<0.05	5	<0.5	<0.2
122532	Soil	25	14	0.43	202	0.041	<1	1.04	0.005	0.22	<0.1	0.02	3.0	0.3	<0.05	4	<0.5	<0.2
122533	Soil	27	20	0.45	189	0.048	<1	1.54	0.006	0.13	0.1	0.02	3.3	0.2	<0.05	5	<0.5	<0.2
122534	Soil	25	24	0.32	273	0.051	<1	1.34	0.008	0.08	0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
122535	Soil	4	10	0.32	161	0.011	<1	1.06	0.002	0.21	<0.1	<0.01	3.3	0.2	<0.05	3	<0.5	<0.2
122536	Soil	32	17	0.44	178	0.015	<1	1.22	0.003	0.37	<0.1	0.01	5.7	0.3	<0.05	4	<0.5	<0.2
122537	Soil	17	17	0.53	382	0.058	<1	1.34	0.007	0.25	0.1	0.01	2.7	0.2	<0.05	5	<0.5	<0.2
122538	Soil	19	10	0.44	187	0.039	<1	1.11	0.004	0.21	<0.1	<0.01	3.8	0.3	<0.05	4	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 U	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 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
122539	Soil			0.7	35.9	37.7	72	0.1	11.0	5.9	287	1.78	4.2	0.8	0.7	12.9	5	0.1	0.4	0.1	14	0.08	0.033
122540	Soil			0.4	18.8	24.1	80	<0.1	12.4	5.7	244	2.20	2.6	1.5	1.3	14.2	10	<0.1	0.4	0.2	23	0.06	0.010
122541	Soil			0.4	15.4	46.6	61	0.1	8.3	3.8	152	1.41	2.6	1.4	0.8	10.2	15	<0.1	0.3	0.1	19	0.13	0.010
122542	Soil			2.0	27.9	17.9	50	0.1	24.8	10.9	245	2.92	11.3	1.8	9.9	5.4	34	0.1	0.4	0.4	72	0.30	0.048
122543	Soil			1.9	22.0	14.4	55	0.1	17.2	8.9	380	1.95	5.2	2.2	8.5	4.1	34	0.2	0.3	0.3	52	0.47	0.052
122544	Soil			8.9	75.3	26.1	71	0.1	35.8	13.9	275	3.85	9.5	2.2	46.7	8.7	49	0.2	0.4	0.5	98	0.40	0.089
122545	Soil			15.1	45.9	31.5	37	<0.1	14.0	5.5	125	3.47	6.7	5.4	16.7	14.2	120	<0.1	0.2	0.4	81	0.26	0.087
122546	Soil			4.5	44.4	20.0	64	<0.1	20.1	8.3	234	2.85	5.4	3.2	12.7	8.5	40	<0.1	0.4	0.3	68	0.28	0.029
122547	Soil			30.0	137.5	30.6	66	<0.1	21.6	7.3	161	3.13	3.3	4.1	16.4	8.9	34	<0.1	0.3	0.5	118	0.24	0.034
122548	Soil			4.6	100.2	36.1	97	<0.1	39.4	10.8	478	3.25	5.3	2.2	16.1	7.7	44	0.1	0.3	0.6	127	0.45	0.080
122549	Soil			26.2	163.7	42.7	110	0.1	20.3	12.2	251	4.22	9.9	6.2	27.3	10.3	56	0.2	0.6	0.5	63	0.30	0.028
122550	Soil			17.8	137.1	30.7	78	0.1	19.0	12.7	251	3.15	16.3	5.6	18.6	8.5	45	0.1	0.8	0.4	58	0.28	0.017
122551	Soil			7.6	50.2	36.3	68	0.2	12.0	6.1	233	2.60	6.9	5.2	16.2	7.5	39	0.2	0.4	0.4	38	0.31	0.025
122552	Soil			6.7	53.1	35.7	71	0.1	26.5	10.4	317	5.07	7.1	5.3	20.4	7.3	80	0.2	0.3	0.4	143	0.59	0.049
122553	Soil			1.0	17.0	11.4	45	<0.1	15.7	7.2	200	2.30	8.6	1.3	5.8	6.2	22	<0.1	0.5	0.2	50	0.28	0.024
122554	Soil			1.0	23.7	11.2	46	<0.1	17.1	6.4	172	2.15	8.0	1.5	3.3	6.8	26	<0.1	0.5	0.2	44	0.30	0.041
122555	Soil			0.9	23.9	13.8	44	0.1	18.1	7.5	293	1.99	7.9	2.2	2.7	7.0	32	0.1	0.5	0.2	42	0.36	0.033
122556	Soil			0.9	26.2	13.0	46	0.2	19.9	7.8	327	2.19	8.7	3.3	2.9	7.2	38	0.1	0.6	0.2	45	0.45	0.041
122557	Soil			0.7	15.0	10.9	38	<0.1	11.2	5.0	170	1.68	6.2	1.7	4.7	5.6	24	0.2	0.5	0.2	32	0.26	0.029
122558	Soil			1.0	18.3	13.2	51	0.1	16.3	7.6	339	1.99	7.9	3.0	2.9	5.7	36	0.1	0.6	0.2	40	0.45	0.046
122559	Soil			0.9	16.1	17.1	55	0.2	12.4	5.8	190	1.76	6.6	1.9	2.2	6.5	25	0.2	0.5	0.2	32	0.32	0.041
122560	Soil			1.0	16.1	22.0	44	0.3	12.2	4.9	119	1.88	8.8	2.6	0.6	7.2	28	0.1	0.5	0.2	34	0.34	0.033
122561	Soil			1.4	20.6	22.2	56	0.3	11.2	5.4	235	1.90	12.8	2.3	6.0	9.4	18	0.1	0.6	0.3	28	0.22	0.031
122562	Soil			0.9	18.0	19.7	51	0.1	12.2	7.1	195	2.00	9.7	1.0	1.0	7.0	15	0.2	0.6	0.2	36	0.20	0.020
122563	Soil			1.1	45.9	83.6	156	0.2	17.7	9.5	584	2.94	17.0	1.7	<0.5	12.2	18	0.5	0.7	0.7	37	0.35	0.045
122564	Soil			0.3	73.9	6.5	87	0.2	33.3	26.7	819	4.34	4.7	0.6	<0.5	1.6	21	<0.1	0.3	<0.1	78	0.44	0.021
122565	Soil			0.8	47.5	15.7	77	0.2	18.2	11.2	355	3.24	10.2	1.1	2.3	5.2	22	0.1	0.7	0.2	61	0.29	0.015
122566	Soil			0.7	31.6	14.5	83	0.1	21.2	10.6	450	2.65	7.3	0.9	3.7	6.8	20	0.1	0.6	0.2	45	0.31	0.059
122567	Soil			0.6	13.8	21.9	69	<0.1	9.8	5.0	234	1.95	4.0	1.1	<0.5	13.5	10	<0.1	0.4	0.2	25	0.11	0.020
122568	Soil			1.2	9.4	36.6	58	<0.1	4.5	3.5	131	1.44	3.4	1.8	<0.5	12.7	13	<0.1	0.8	0.4	10	0.02	0.013

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WHI11001328.1

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	
122539	Soil	9	13	0.37	218	0.021	<1	1.13	0.002	0.28	<0.1	<0.01	4.9	0.3	<0.05	3	<0.5	<0.2
122540	Soil	64	17	0.80	496	0.054	<1	1.36	0.005	0.26	<0.1	0.01	4.5	0.3	<0.05	5	<0.5	<0.2
122541	Soil	36	12	0.46	372	0.039	<1	0.92	0.004	0.18	<0.1	0.02	2.4	0.2	<0.05	3	<0.5	<0.2
122542	Soil	18	49	0.70	299	0.066	<1	1.74	0.012	0.11	0.2	0.02	5.6	0.3	<0.05	7	0.6	<0.2
122543	Soil	18	35	0.66	364	0.059	<1	1.54	0.011	0.09	0.2	0.03	4.4	0.2	0.05	5	0.7	<0.2
122544	Soil	26	75	1.07	466	0.105	<1	2.02	0.015	0.33	0.2	0.02	10.2	0.6	<0.05	8	0.6	<0.2
122545	Soil	47	37	0.82	403	0.094	<1	1.33	0.019	0.47	0.2	0.01	6.6	0.6	0.31	5	1.2	<0.2
122546	Soil	21	47	0.91	318	0.117	<1	1.78	0.016	0.14	0.3	<0.01	6.6	0.5	<0.05	7	0.8	<0.2
122547	Soil	43	65	1.39	424	0.136	1	2.49	0.013	0.29	0.2	0.01	13.3	0.8	<0.05	9	0.7	<0.2
122548	Soil	25	81	1.52	530	0.145	<1	2.61	0.021	0.42	0.5	0.01	12.8	0.9	<0.05	10	<0.5	<0.2
122549	Soil	27	30	0.70	314	0.045	<1	2.15	0.014	0.23	0.2	0.02	8.6	0.7	<0.05	7	0.6	<0.2
122550	Soil	32	29	0.56	329	0.060	<1	1.98	0.010	0.14	0.2	0.02	8.0	0.7	<0.05	6	<0.5	<0.2
122551	Soil	25	19	0.44	231	0.045	<1	1.42	0.013	0.13	0.2	0.03	5.3	0.3	<0.05	5	<0.5	<0.2
122552	Soil	21	73	1.85	482	0.209	<1	3.21	0.033	0.45	0.3	<0.01	13.6	1.1	0.14	13	1.2	<0.2
122553	Soil	21	28	0.41	369	0.064	<1	1.64	0.010	0.07	0.2	0.02	3.9	0.1	<0.05	5	<0.5	<0.2
122554	Soil	24	26	0.37	378	0.060	<1	1.45	0.016	0.06	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
122555	Soil	25	25	0.35	511	0.049	<1	1.33	0.013	0.06	0.2	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
122556	Soil	26	26	0.40	507	0.050	<1	1.40	0.015	0.07	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
122557	Soil	18	19	0.31	349	0.044	<1	1.01	0.010	0.05	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
122558	Soil	20	23	0.38	464	0.047	1	1.24	0.012	0.05	0.3	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
122559	Soil	24	19	0.35	485	0.038	<1	1.11	0.008	0.06	0.2	0.04	2.7	<0.1	<0.05	3	<0.5	<0.2
122560	Soil	31	19	0.32	612	0.041	<1	1.22	0.010	0.06	0.2	0.05	2.9	<0.1	<0.05	4	<0.5	<0.2
122561	Soil	35	17	0.29	401	0.029	<1	1.10	0.006	0.08	0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
122562	Soil	19	19	0.37	287	0.044	<1	1.13	0.007	0.07	0.2	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
122563	Soil	40	23	0.60	360	0.037	<1	1.42	0.007	0.13	<0.1	0.04	5.1	0.2	<0.05	4	<0.5	<0.2
122564	Soil	4	53	1.92	555	0.122	<1	2.63	0.007	0.66	<0.1	0.02	4.1	0.4	<0.05	5	<0.5	<0.2
122565	Soil	25	25	0.85	382	0.074	<1	1.92	0.007	0.12	<0.1	0.03	5.3	0.1	<0.05	5	<0.5	<0.2
122566	Soil	19	25	0.67	347	0.053	<1	1.37	0.009	0.13	0.1	0.02	4.9	0.1	<0.05	4	<0.5	<0.2
122567	Soil	52	14	0.41	237	0.059	<1	1.02	0.008	0.28	<0.1	0.01	4.9	0.3	<0.05	4	<0.5	<0.2
122568	Soil	29	8	0.13	215	0.005	2	0.92	0.003	0.14	<0.1	<0.01	2.6	0.2	<0.05	2	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11001328.1

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
122569	Soil	1.3	45.1	87.8	195	<0.1	10.1	6.6	208	2.32	10.0	2.1	1.2	11.9	12	0.5	13.5	0.3	17	0.05	0.018
122570	Soil	0.3	13.3	18.1	53	<0.1	7.7	4.7	239	1.64	2.5	0.6	<0.5	10.5	5	<0.1	0.8	0.1	18	0.07	0.020
122571	Soil	0.8	151.6	21.6	625	<0.1	8.1	5.1	549	2.85	5.6	2.1	1.0	14.6	9	0.8	4.0	1.8	15	0.07	0.021
122572	Soil	1.3	38.0	27.9	139	0.1	8.2	5.2	267	1.90	8.5	0.9	3.6	5.6	8	0.4	1.2	1.0	30	0.05	0.024
122573	Soil	0.9	30.9	34.0	107	0.2	11.5	4.4	206	1.69	5.9	0.8	2.0	7.3	10	0.2	1.0	0.5	30	0.09	0.012
122574	Soil	0.4	11.3	16.0	75	<0.1	4.2	3.2	245	1.18	3.3	0.8	<0.5	11.8	5	<0.1	0.3	0.2	10	0.06	0.014
122575	Soil	0.6	13.9	18.7	66	<0.1	12.5	4.3	193	1.58	4.8	0.7	0.9	8.1	8	0.1	0.5	0.2	24	0.07	0.013
122576	Soil	0.4	17.7	12.7	61	<0.1	14.8	6.4	253	1.96	4.8	1.0	<0.5	10.1	12	<0.1	0.5	0.1	26	0.13	0.016
122577	Soil	0.5	4.0	7.8	25	<0.1	4.0	2.4	126	0.98	3.2	0.7	<0.5	8.9	6	0.1	0.4	0.1	16	0.05	0.018
122578	Soil	0.4	12.2	18.5	36	<0.1	9.2	3.6	126	1.25	3.9	1.5	1.1	13.9	7	<0.1	0.5	0.2	21	0.06	0.007
122579	Soil	1.3	39.7	27.5	71	0.3	29.7	10.3	369	2.98	8.3	3.0	1.8	15.6	127	0.3	0.4	0.2	69	0.88	0.231
122580	Soil	2.0	40.6	18.4	67	0.3	16.9	8.8	423	2.71	12.1	2.9	6.7	5.9	26	0.2	0.4	0.3	54	0.39	0.052
122581	Soil	1.4	19.7	15.1	50	0.1	13.2	6.6	184	2.23	9.9	1.9	3.6	7.3	17	0.1	0.5	0.3	42	0.24	0.041
122582	Soil	0.7	18.3	10.2	44	0.1	14.5	5.8	183	1.89	9.6	1.4	1.8	6.8	22	0.1	0.5	0.2	34	0.25	0.034
122583	Soil	1.3	19.3	14.1	46	0.2	13.8	7.4	274	2.07	10.2	2.8	1.7	7.2	32	0.1	0.6	0.3	37	0.34	0.040
122584	Soil	1.2	5.8	11.1	22	0.2	3.6	1.6	79	0.92	4.1	1.6	2.3	7.5	9	0.2	0.3	0.4	10	0.10	0.013
122585	Soil	1.4	15.1	17.8	35	0.1	11.7	4.1	174	2.05	8.4	0.6	0.9	7.3	11	<0.1	0.6	0.3	36	0.10	0.013
122586	Soil	0.8	24.4	21.9	46	0.2	11.8	4.5	232	1.87	7.2	1.7	4.8	15.8	13	0.1	0.6	0.2	25	0.14	0.014
122587	Soil	0.7	6.1	9.8	19	<0.1	4.6	2.6	115	1.40	4.6	0.6	<0.5	4.1	8	0.1	0.5	0.2	25	0.05	0.016
122588	Soil	1.0	13.9	12.6	55	<0.1	15.3	6.4	224	2.31	9.3	0.6	0.6	7.4	8	0.1	0.7	0.2	42	0.07	0.018
122589	Soil	0.6	6.8	14.4	32	0.2	5.3	2.4	93	1.25	4.9	0.7	<0.5	6.2	6	<0.1	0.5	0.1	17	0.04	0.008
122590	Soil	0.6	8.3	16.0	35	0.1	6.3	3.1	157	1.36	5.0	0.7	<0.5	7.3	6	0.1	0.4	0.1	20	0.04	0.009
122591	Soil	0.8	8.0	15.4	52	<0.1	8.5	3.2	195	1.82	5.7	0.7	<0.5	9.1	11	<0.1	0.4	0.1	24	0.10	0.017
122592	Soil	0.6	7.7	31.1	51	0.2	3.6	1.6	115	1.07	2.5	1.0	<0.5	12.4	8	<0.1	0.4	0.2	9	0.03	0.007
122593	Soil	1.1	32.9	30.3	125	<0.1	12.6	12.7	488	3.28	15.7	1.3	7.1	9.5	8	0.3	1.0	0.5	39	0.06	0.012
122594	Soil	0.9	13.9	15.4	49	0.1	9.7	6.3	197	2.11	4.5	1.1	2.1	11.4	10	<0.1	0.5	0.2	35	0.09	0.010
122595	Soil	0.8	12.2	47.4	149	<0.1	7.3	3.6	267	1.91	8.0	2.3	1.5	17.2	11	0.2	0.7	0.3	12	0.13	0.025
122596	Soil	1.0	9.7	17.2	85	0.2	7.6	3.8	297	1.95	4.1	1.2	<0.5	10.5	7	0.1	0.4	0.2	25	0.07	0.030
122597	Soil	1.1	30.1	26.3	83	<0.1	16.2	7.4	308	2.30	7.0	2.2	1.4	11.4	21	0.2	0.6	0.2	40	0.17	0.021
122598	Soil	1.0	30.2	37.8	134	0.1	13.2	5.8	279	2.28	5.7	1.4	<0.5	10.3	11	0.4	0.4	0.2	35	0.08	0.026

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Project: QUARTZ
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CERTIFICATE OF ANALYSIS

WHI11001328.1

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	
122569	Soil	45	14	0.17	288	0.010	2	0.96	0.003	0.13	0.1	0.37	3.8	0.1	<0.05	2	<0.5	<0.2
122570	Soil	23	11	0.41	298	0.028	<1	0.78	0.002	0.20	<0.1	0.01	4.0	0.2	<0.05	3	<0.5	<0.2
122571	Soil	46	8	0.30	281	0.037	2	1.08	0.003	0.43	0.1	0.28	5.3	0.5	<0.05	4	<0.5	<0.2
122572	Soil	22	14	0.23	233	0.028	<1	0.82	0.005	0.12	0.1	0.04	2.1	0.1	<0.05	3	<0.5	<0.2
122573	Soil	24	17	0.29	243	0.037	<1	1.00	0.005	0.09	0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
122574	Soil	40	6	0.45	119	0.036	<1	0.75	0.003	0.29	<0.1	<0.01	2.3	0.4	<0.05	3	<0.5	<0.2
122575	Soil	22	21	0.47	303	0.045	<1	1.07	0.006	0.12	<0.1	0.02	2.8	0.2	<0.05	4	<0.5	<0.2
122576	Soil	42	18	0.80	430	0.063	<1	1.18	0.005	0.17	<0.1	0.01	4.5	0.3	<0.05	4	<0.5	<0.2
122577	Soil	14	7	0.14	122	0.022	<1	0.51	0.003	0.11	0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
122578	Soil	50	14	0.26	193	0.034	<1	0.86	0.004	0.08	0.1	0.02	3.1	<0.1	<0.05	2	<0.5	<0.2
122579	Soil	35	44	0.85	366	0.132	<1	1.45	0.013	0.20	0.3	0.03	6.5	0.2	<0.05	6	<0.5	<0.2
122580	Soil	24	30	0.60	402	0.062	<1	1.63	0.010	0.11	0.3	0.04	4.9	0.2	<0.05	5	<0.5	<0.2
122581	Soil	28	26	0.45	342	0.049	<1	1.42	0.009	0.07	0.3	0.02	3.5	0.1	<0.05	4	0.7	<0.2
122582	Soil	22	20	0.33	345	0.040	<1	1.13	0.009	0.05	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
122583	Soil	32	20	0.33	365	0.047	<1	1.36	0.009	0.05	0.2	0.05	3.7	<0.1	<0.05	4	1.0	<0.2
122584	Soil	21	6	0.12	142	0.013	<1	0.59	0.004	0.07	0.1	0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
122585	Soil	16	18	0.27	264	0.029	<1	1.31	0.004	0.07	0.2	<0.01	2.0	<0.1	<0.05	4	0.5	<0.2
122586	Soil	65	16	0.32	653	0.025	<1	1.18	0.006	0.09	0.2	0.03	4.2	0.1	<0.05	3	<0.5	<0.2
122587	Soil	8	10	0.12	408	0.013	<1	0.78	0.003	0.05	0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
122588	Soil	9	24	0.40	256	0.040	<1	1.73	0.008	0.08	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
122589	Soil	13	10	0.21	313	0.013	<1	1.07	0.003	0.08	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
122590	Soil	13	12	0.20	250	0.020	<1	1.01	0.006	0.07	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
122591	Soil	12	14	0.32	343	0.024	<1	1.20	0.004	0.11	0.2	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
122592	Soil	54	6	0.33	385	0.014	<1	0.98	0.002	0.10	<0.1	0.01	2.1	0.2	<0.05	2	<0.5	<0.2
122593	Soil	44	15	0.98	331	0.021	2	1.70	0.005	0.09	<0.1	0.02	6.2	0.1	<0.05	5	<0.5	<0.2
122594	Soil	8	16	0.49	471	0.022	1	1.36	0.003	0.12	<0.1	0.01	4.2	0.2	<0.05	5	<0.5	<0.2
122595	Soil	71	9	0.49	363	0.020	1	0.97	0.003	0.19	<0.1	0.02	4.0	0.4	<0.05	3	<0.5	<0.2
122596	Soil	54	11	0.50	250	0.057	1	1.14	0.003	0.21	<0.1	0.02	2.8	0.3	<0.05	5	<0.5	<0.2
122597	Soil	40	25	0.56	427	0.069	1	1.37	0.010	0.11	0.1	0.04	5.5	0.2	<0.05	4	<0.5	<0.2
122598	Soil	37	20	0.55	297	0.057	1	1.45	0.010	0.16	0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	
122599	Soil		0.5	24.6	47.6	184	<0.1	7.7	3.2	263	1.57	3.4	1.6	<0.5	12.7	8	0.2	0.4	0.1	14	0.06	0.013
122600	Soil		0.7	16.5	17.2	83	<0.1	11.7	5.0	220	2.44	5.4	1.5	1.7	8.8	15	0.2	0.6	0.1	30	0.09	0.016
122601	Soil		0.4	23.3	26.8	52	<0.1	8.2	5.6	267	1.72	5.0	1.1	<0.5	15.8	9	0.2	0.3	0.2	16	0.07	0.027
122602	Soil		0.5	4.6	16.6	55	<0.1	6.2	3.5	200	1.67	4.3	1.2	0.6	13.6	7	<0.1	0.3	0.4	17	0.05	0.018
122603	Soil		0.9	10.1	28.3	49	0.1	8.0	3.3	114	1.66	6.3	1.5	<0.5	10.7	8	<0.1	0.5	0.2	22	0.04	0.011
122604	Soil		0.7	9.7	18.0	54	<0.1	8.4	4.2	285	1.66	5.0	1.6	<0.5	13.6	11	<0.1	1.0	0.3	17	0.03	0.021
122605	Soil		0.4	10.6	25.6	48	0.1	5.3	2.6	153	1.37	2.7	1.3	<0.5	14.2	7	<0.1	0.5	0.1	7	0.03	0.012
122606	Soil		0.5	11.0	28.2	70	0.2	9.5	3.8	249	1.56	3.8	0.8	<0.5	8.2	10	0.2	0.5	0.2	19	0.10	0.022
124742	Soil		1.8	31.3	14.0	56	<0.1	19.8	7.9	240	2.48	8.3	1.7	6.8	5.4	31	<0.1	0.5	0.3	57	0.42	0.059
124743	Soil		1.4	47.0	11.6	53	<0.1	25.0	10.0	274	2.77	9.8	1.5	6.2	6.2	24	<0.1	0.6	0.2	55	0.29	0.026
124744	Soil		5.5	149.2	83.7	123	0.2	63.0	42.7	1239	4.75	8.9	1.4	36.9	7.0	36	0.4	0.4	0.6	159	0.59	0.124
124745	Soil		4.3	121.3	30.2	85	<0.1	51.7	17.4	482	4.32	9.5	1.6	15.6	7.4	37	0.1	0.3	0.6	157	0.43	0.088
124746	Soil		1.2	54.7	24.7	71	0.4	25.5	9.6	239	3.00	9.5	1.8	9.8	9.0	24	0.2	0.7	0.3	69	0.23	0.018
124747	Soil		1.5	36.7	30.3	72	0.4	23.5	6.7	226	3.14	11.5	0.8	6.8	10.3	26	0.2	0.7	0.2	69	0.21	0.024
124748	Soil		1.5	19.5	16.3	61	0.2	18.5	7.4	297	3.01	11.5	0.6	2.0	4.6	23	0.2	0.7	0.2	65	0.22	0.019
124749	Soil		1.9	24.3	16.5	49	<0.1	16.6	7.9	301	2.38	6.8	0.8	3.0	4.6	21	0.2	0.4	0.2	63	0.22	0.025
124750	Soil		1.9	46.5	25.4	65	0.3	33.4	12.6	648	2.89	7.8	3.8	3.7	8.7	126	0.5	0.5	0.2	64	0.69	0.104
124751	Soil		1.1	28.5	18.7	62	0.2	19.7	7.5	222	1.82	12.4	2.1	4.8	5.9	84	0.2	0.5	0.3	49	0.64	0.116
124752	Soil		1.1	17.3	10.2	46	<0.1	11.3	6.4	187	2.13	7.5	1.4	1.5	7.0	22	<0.1	0.4	0.2	37	0.23	0.026
124753	Soil		1.3	15.7	13.9	41	0.2	11.1	5.8	224	1.81	6.4	2.7	5.4	7.2	51	0.2	0.5	0.4	29	0.51	0.037
124754	Soil		1.1	15.4	12.7	35	0.1	9.8	4.6	199	1.89	6.7	2.2	5.1	8.4	21	<0.1	0.5	0.3	31	0.24	0.015
124755	Soil		1.0	7.8	11.7	25	0.1	6.0	3.0	118	1.32	4.1	0.6	0.7	4.0	12	<0.1	0.5	0.2	32	0.10	0.010
124756	Soil		0.9	13.3	26.8	33	0.1	10.5	4.1	127	1.62	6.3	0.8	2.2	7.8	16	0.2	0.7	0.3	29	0.16	0.013
124757	Soil		1.0	20.8	12.6	52	0.2	19.0	7.2	187	2.42	9.0	1.7	2.5	10.2	17	<0.1	0.8	0.2	47	0.14	0.014
124758	Soil		0.8	14.3	22.6	55	0.2	12.8	5.1	184	2.23	6.8	1.1	0.9	11.2	10	0.2	0.5	0.2	28	0.08	0.013
124759	Soil		0.8	6.7	13.9	28	0.1	6.1	2.4	139	1.28	4.5	0.8	1.9	7.1	10	<0.1	0.4	0.1	21	0.07	0.011
124760	Soil		0.6	9.2	11.4	35	0.2	10.6	4.2	149	1.78	6.6	0.8	0.6	6.3	13	<0.1	0.5	0.1	35	0.11	0.008
124761	Soil		1.2	9.8	19.8	36	0.3	10.0	4.2	132	2.02	7.8	0.8	2.4	5.8	10	0.1	0.5	0.2	43	0.07	0.013
124762	Soil		0.8	8.9	26.8	32	0.3	7.4	2.9	96	1.26	9.6	0.9	1.8	9.1	7	<0.1	0.5	0.1	23	0.05	0.007
124763	Soil		1.1	29.1	28.0	58	0.3	19.0	7.4	221	2.39	11.1	1.0	3.2	7.3	12	0.2	0.8	0.2	45	0.11	0.020

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Project: QUARTZ
 Report Date: October 06, 2011

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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	
122599	Soil	44	11	0.55	141	0.042	<1	0.96	0.003	0.12	<0.1	0.02	2.5	0.3	<0.05	4	<0.5	<0.2
122600	Soil	34	17	0.58	533	0.047	2	1.46	0.005	0.14	0.1	0.02	3.3	0.2	<0.05	4	<0.5	<0.2
122601	Soil	32	11	0.60	154	0.045	1	1.08	0.005	0.28	<0.1	0.02	3.0	0.3	<0.05	3	<0.5	<0.2
122602	Soil	15	8	0.53	223	0.048	1	1.06	0.003	0.25	<0.1	0.01	2.0	0.3	<0.05	4	<0.5	<0.2
122603	Soil	23	13	0.32	188	0.025	1	1.11	0.004	0.11	<0.1	0.02	2.2	0.1	<0.05	3	<0.5	<0.2
122604	Soil	30	12	0.30	169	0.023	2	1.06	0.004	0.19	<0.1	0.05	2.1	0.1	<0.05	3	<0.5	<0.2
122605	Soil	58	5	0.40	182	0.029	1	0.79	0.003	0.17	<0.1	0.03	2.3	0.2	<0.05	2	<0.5	<0.2
122606	Soil	29	11	0.58	372	0.043	<1	0.97	0.004	0.19	<0.1	0.02	2.5	0.2	<0.05	4	<0.5	<0.2
124742	Soil	19	32	0.63	371	0.069	2	1.53	0.016	0.09	0.2	0.04	5.0	0.2	<0.05	5	<0.5	<0.2
124743	Soil	21	38	0.61	479	0.066	2	1.73	0.015	0.07	0.2	0.06	7.2	0.1	<0.05	5	<0.5	<0.2
124744	Soil	22	124	1.66	722	0.155	<1	2.44	0.027	0.64	0.2	0.03	11.6	1.2	<0.05	11	<0.5	<0.2
124745	Soil	22	128	1.60	632	0.239	<1	2.60	0.020	0.41	0.4	0.02	10.0	0.8	<0.05	10	0.5	<0.2
124746	Soil	31	44	0.67	480	0.092	2	1.86	0.011	0.06	0.3	0.04	8.1	0.2	<0.05	6	<0.5	<0.2
124747	Soil	18	34	0.55	312	0.052	2	2.18	0.009	0.06	0.2	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
124748	Soil	10	32	0.46	317	0.043	1	1.98	0.015	0.05	0.2	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
124749	Soil	12	35	0.49	242	0.076	1	1.47	0.010	0.05	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
124750	Soil	30	55	0.71	487	0.112	2	1.91	0.014	0.07	0.3	0.05	5.9	<0.1	<0.05	6	<0.5	<0.2
124751	Soil	22	33	0.66	420	0.070	2	1.47	0.013	0.10	0.3	0.04	4.5	0.2	0.10	5	0.7	<0.2
124752	Soil	21	28	0.48	247	0.055	1	1.38	0.009	0.09	0.2	0.02	3.0	0.2	<0.05	4	<0.5	<0.2
124753	Soil	34	16	0.31	474	0.034	1	1.26	0.009	0.07	0.2	0.05	3.0	0.1	<0.05	4	<0.5	<0.2
124754	Soil	32	17	0.29	447	0.041	<1	1.24	0.008	0.09	0.2	0.03	3.3	0.1	<0.05	4	<0.5	<0.2
124755	Soil	18	11	0.18	272	0.036	1	0.79	0.006	0.08	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
124756	Soil	29	17	0.26	626	0.021	<1	1.21	0.005	0.06	0.2	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
124757	Soil	39	31	0.46	738	0.049	1	1.68	0.009	0.07	0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
124758	Soil	38	21	0.49	495	0.035	2	1.77	0.005	0.15	<0.1	0.03	3.6	0.2	<0.05	5	<0.5	<0.2
124759	Soil	30	11	0.23	497	0.018	<1	0.89	0.004	0.09	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
124760	Soil	17	19	0.36	402	0.043	<1	1.10	0.008	0.06	0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
124761	Soil	17	19	0.32	435	0.041	1	1.40	0.006	0.07	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
124762	Soil	33	13	0.23	259	0.022	1	1.02	0.005	0.09	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
124763	Soil	19	30	0.42	244	0.049	1	1.66	0.009	0.06	0.2	0.05	2.7	<0.1	<0.05	4	0.6	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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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	
124764	Soil		0.6	80.2	32.4	78	0.2	14.3	14.1	401	3.99	13.9	0.5	1.6	2.5	11	0.1	0.6	0.2	78	0.16	0.012
124765	Soil		0.9	50.6	6.6	69	<0.1	17.8	18.3	493	4.68	6.6	0.1	0.7	0.9	8	0.3	0.4	0.1	84	0.14	0.022
124766	Soil		1.4	48.9	52.2	182	6.6	20.0	9.2	332	3.02	13.0	0.8	1.5	7.0	13	0.6	0.7	0.3	54	0.07	0.052
124767	Soil		0.7	15.8	17.5	75	0.2	14.2	9.3	363	2.51	4.2	0.8	<0.5	7.5	9	0.3	0.4	0.3	32	0.11	0.063
124768	Soil		0.6	9.2	13.4	83	0.2	6.9	4.3	392	1.51	3.6	0.5	0.6	5.2	9	0.3	0.2	0.2	18	0.10	0.037
124769	Soil		0.7	13.3	17.8	60	0.2	8.6	5.1	347	1.82	5.1	0.6	<0.5	6.9	8	0.2	0.3	0.3	34	0.09	0.067
124770	Soil		1.0	18.3	17.3	80	0.3	20.5	8.3	257	2.57	11.6	0.7	3.9	6.0	11	0.4	0.6	0.2	52	0.09	0.025
124771	Soil		0.9	29.2	13.1	59	<0.1	22.8	7.6	214	2.34	11.4	0.7	3.7	6.4	10	0.1	0.7	0.1	47	0.09	0.017
124772	Soil		0.8	16.5	23.4	90	0.1	11.3	4.5	232	2.06	6.5	1.0	0.6	6.7	9	0.1	0.4	0.1	28	0.08	0.017
124773	Soil		1.0	14.8	17.2	49	0.1	11.4	4.9	180	1.80	6.1	0.5	1.6	3.4	12	0.2	0.5	0.2	37	0.10	0.020
124774	Soil		1.0	14.9	12.4	44	0.2	14.6	6.1	296	2.18	7.8	0.7	1.0	3.9	8	0.1	0.5	0.2	43	0.07	0.020
124775	Soil		0.4	9.3	7.2	37	<0.1	5.2	2.3	87	1.26	3.0	1.1	0.6	7.6	4	<0.1	0.3	0.2	14	0.02	0.007
124776	Soil		0.5	8.5	8.6	37	<0.1	4.5	1.8	80	1.03	3.1	1.6	<0.5	11.2	4	<0.1	0.3	0.2	11	0.03	0.012
124777	Soil		0.5	7.7	10.1	30	<0.1	10.2	5.1	128	2.51	3.9	1.4	<0.5	7.4	4	0.1	0.3	<0.1	21	0.03	0.018
124778	Soil		1.0	21.8	10.2	65	<0.1	22.9	8.9	308	2.40	10.2	0.6	3.1	4.5	29	0.1	0.7	0.2	46	0.46	0.063
124779	Soil		1.2	20.0	11.7	62	0.1	18.6	9.2	437	2.16	8.0	1.0	18.0	4.7	27	0.2	0.6	0.2	44	0.42	0.057
124780	Soil		1.1	21.1	11.6	60	<0.1	17.0	8.5	437	1.97	6.5	0.8	1.3	3.5	26	0.8	0.4	0.1	40	0.39	0.050
124781	Soil		0.9	26.4	10.2	61	0.1	20.8	8.4	344	2.16	7.9	0.9	6.3	3.6	29	0.2	0.6	0.1	44	0.46	0.062
124782	Soil		0.8	23.8	12.1	64	<0.1	19.0	8.9	372	2.18	7.9	0.9	2.3	4.0	26	0.2	0.6	0.1	45	0.43	0.058
124783	Soil		0.9	27.7	12.0	71	0.2	21.5	8.4	391	2.12	7.0	1.4	1.8	3.2	33	0.6	0.7	0.2	40	0.54	0.066
124784	Soil		0.9	21.6	13.9	63	0.3	17.3	7.4	287	2.09	7.0	1.5	6.7	4.3	25	0.3	0.5	0.2	39	0.35	0.058
124785	Soil		0.7	20.7	18.2	53	0.6	11.7	5.9	452	1.97	6.1	1.0	<0.5	6.9	13	0.2	0.2	0.4	22	0.19	0.051
124786	Soil		0.3	19.6	7.9	62	0.6	17.6	6.6	349	2.51	3.2	1.2	<0.5	6.5	30	0.1	0.1	0.5	26	0.37	0.051
124787	Soil		1.1	29.4	12.2	55	0.6	23.0	7.3	418	1.97	8.0	2.8	3.1	3.3	56	0.6	0.7	0.2	37	0.95	0.054
124788	Soil		1.2	13.4	11.3	48	0.2	14.1	6.9	192	2.22	8.6	1.0	0.7	3.4	11	0.2	0.5	0.2	50	0.12	0.022
124789	Soil		1.0	23.8	11.2	44	0.1	17.0	7.9	298	2.00	8.9	3.4	2.9	5.5	27	0.1	0.5	0.2	40	0.33	0.033
124790	Soil		0.9	22.3	11.1	45	<0.1	16.6	7.6	282	2.00	9.0	3.4	2.6	5.7	27	0.1	0.5	0.1	40	0.32	0.036
124791	Soil		0.8	17.9	9.5	41	<0.1	14.7	5.2	187	1.74	6.4	2.1	3.9	6.2	20	<0.1	0.5	0.2	34	0.26	0.031
124792	Soil		1.0	13.9	8.2	41	0.2	13.2	4.6	164	1.74	7.1	1.6	1.3	4.8	24	0.3	0.5	0.2	34	0.28	0.037
124793	Soil		0.8	5.5	14.0	27	0.1	4.1	1.3	171	0.69	2.7	1.8	1.1	8.7	10	<0.1	0.2	0.1	8	0.09	0.010

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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	
124764	Soil	12	12	1.30	341	0.046	<1	2.45	0.003	0.26	<0.1	0.02	4.0	0.2	<0.05	6	<0.5	<0.2
124765	Soil	3	22	1.31	278	0.025	<1	2.97	0.003	0.05	0.1	0.02	3.0	0.1	<0.05	7	<0.5	<0.2
124766	Soil	17	30	0.50	273	0.049	1	2.23	0.005	0.11	0.2	0.06	3.5	0.2	<0.05	6	<0.5	<0.2
124767	Soil	5	21	0.72	145	0.046	<1	1.48	0.002	0.45	<0.1	0.01	5.9	0.4	<0.05	6	<0.5	<0.2
124768	Soil	8	9	0.29	293	0.024	<1	1.01	0.003	0.15	<0.1	0.01	2.7	0.2	<0.05	4	<0.5	<0.2
124769	Soil	22	14	0.35	278	0.031	<1	1.09	0.004	0.13	0.1	0.01	1.7	0.1	<0.05	5	<0.5	<0.2
124770	Soil	17	32	0.43	218	0.056	1	1.80	0.006	0.10	0.1	0.03	2.8	0.1	<0.05	5	<0.5	<0.2
124771	Soil	20	29	0.48	170	0.061	<1	1.47	0.006	0.07	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
124772	Soil	29	14	0.41	167	0.041	<1	1.17	0.006	0.13	<0.1	0.03	1.8	0.2	<0.05	4	<0.5	<0.2
124773	Soil	14	18	0.29	256	0.031	<1	0.97	0.005	0.08	0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
124774	Soil	17	22	0.34	218	0.047	<1	1.30	0.007	0.10	0.2	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
124775	Soil	26	8	0.22	155	0.038	<1	0.83	0.002	0.20	<0.1	0.01	1.4	0.2	<0.05	3	<0.5	<0.2
124776	Soil	47	7	0.23	96	0.028	<1	0.74	0.002	0.19	<0.1	0.02	1.6	0.2	<0.05	3	<0.5	<0.2
124777	Soil	36	14	0.66	224	0.076	1	1.39	0.004	0.64	<0.1	0.02	3.1	0.5	<0.05	5	<0.5	<0.2
124778	Soil	13	25	0.54	341	0.055	1	1.20	0.016	0.07	0.3	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
124779	Soil	20	24	0.47	476	0.051	<1	1.25	0.015	0.06	0.3	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
124780	Soil	16	21	0.39	402	0.048	1	1.13	0.014	0.07	0.2	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
124781	Soil	16	24	0.45	452	0.049	1	1.15	0.015	0.05	0.3	0.03	2.8	<0.1	<0.05	3	0.7	<0.2
124782	Soil	17	24	0.47	375	0.050	<1	1.24	0.015	0.06	0.3	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
124783	Soil	23	24	0.46	443	0.043	2	1.20	0.014	0.09	0.2	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
124784	Soil	37	21	0.45	414	0.042	1	1.16	0.011	0.12	0.2	0.05	3.1	0.1	<0.05	4	<0.5	<0.2
124785	Soil	38	12	0.57	241	0.035	<1	1.43	0.003	0.44	<0.1	0.03	3.5	0.4	<0.05	4	<0.5	<0.2
124786	Soil	25	19	0.93	321	0.053	<1	1.64	0.003	0.68	<0.1	0.03	5.4	0.5	<0.05	6	<0.5	<0.2
124787	Soil	44	22	0.43	661	0.030	2	1.28	0.013	0.08	0.2	0.09	4.0	<0.1	0.06	4	0.8	<0.2
124788	Soil	15	24	0.36	220	0.043	<1	1.42	0.011	0.10	0.2	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
124789	Soil	21	22	0.36	403	0.041	<1	1.19	0.013	0.06	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
124790	Soil	20	22	0.35	453	0.040	<1	1.12	0.012	0.05	0.2	0.03	3.0	<0.1	<0.05	3	<0.5	<0.2
124791	Soil	20	20	0.34	423	0.039	<1	1.09	0.013	0.06	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
124792	Soil	20	19	0.29	446	0.033	<1	1.04	0.008	0.08	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
124793	Soil	40	6	0.11	391	0.008	<1	0.53	0.007	0.09	<0.1	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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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	
124794	Soil	0.9	11.3	8.5	35	0.2	12.3	4.7	181	1.91	6.7	0.5	0.7	2.9	12	<0.1	0.5	0.2	47	0.14	0.015
124795	Soil	0.8	12.3	8.1	33	<0.1	11.6	3.9	278	1.69	6.1	0.5	2.7	5.2	13	<0.1	0.5	0.2	32	0.10	0.015
124796	Soil	0.6	7.4	8.7	26	<0.1	7.1	2.4	167	1.24	4.8	0.7	0.6	8.0	7	<0.1	0.4	0.2	17	0.06	0.014
124797	Soil	0.9	14.4	12.5	43	0.1	17.2	5.6	163	2.28	8.7	0.6	4.7	6.8	8	<0.1	0.6	0.2	49	0.07	0.016
124798	Soil	1.6	22.7	33.6	110	0.8	11.0	6.9	573	2.58	17.1	0.7	1.6	4.3	8	0.7	0.5	0.4	46	0.06	0.050
124799	Soil	0.8	20.6	17.9	73	0.2	9.1	3.8	187	1.73	5.5	1.2	1.7	10.6	10	0.1	0.4	0.2	21	0.08	0.012
124800	Soil	2.3	29.5	52.5	267	0.6	17.9	7.4	717	2.57	5.9	3.0	5.3	10.2	23	0.6	0.3	0.4	24	0.40	0.061
124801	Soil	1.1	9.6	12.1	41	0.2	9.9	4.1	160	2.13	8.1	0.6	1.4	5.0	10	<0.1	0.5	0.2	45	0.08	0.015
124802	Soil	0.6	11.5	11.4	34	0.2	10.0	5.0	179	1.59	4.2	1.4	3.4	8.0	14	<0.1	0.4	0.1	25	0.18	0.018
124803	Soil	0.9	6.3	17.2	34	0.3	6.0	2.3	128	1.35	6.9	0.7	1.1	7.2	11	0.3	0.4	0.1	18	0.09	0.010
124804	Soil	0.9	5.0	14.9	20	0.2	3.8	1.5	63	1.06	6.2	0.8	0.7	6.1	10	0.2	0.3	0.2	15	0.08	0.010
124805	Soil	0.6	10.7	15.3	37	0.2	7.4	4.1	175	1.32	5.1	1.5	0.6	4.3	17	0.2	0.4	0.2	25	0.21	0.016
124806	Soil	0.3	29.2	16.9	109	<0.1	20.3	9.1	410	3.33	5.7	0.4	<0.5	2.7	16	0.2	0.3	<0.1	31	0.27	0.037
124807	Soil	0.3	16.3	5.6	57	<0.1	13.5	7.0	306	2.28	2.4	0.4	<0.5	2.6	11	<0.1	0.1	<0.1	23	0.20	0.038
124808	Soil	0.3	27.2	6.8	78	<0.1	16.3	7.4	320	2.99	3.4	0.6	<0.5	4.8	8	<0.1	0.2	<0.1	25	0.17	0.043
124809	Soil	0.6	25.0	19.4	94	0.3	16.3	7.2	483	2.14	15.3	1.7	3.9	3.7	39	0.3	0.8	0.2	30	0.64	0.041
124810	Soil	0.7	28.2	9.1	58	0.2	22.9	8.7	407	2.32	8.4	0.6	2.6	3.2	34	0.2	0.7	0.2	40	0.56	0.051
124811	Soil	0.6	17.4	4.8	71	<0.1	16.8	6.6	297	2.25	6.1	0.3	<0.5	2.0	18	<0.1	0.3	0.1	27	0.31	0.023
124812	Soil	0.5	24.2	7.6	72	<0.1	20.1	10.8	448	2.85	5.8	0.7	2.9	5.2	21	0.1	0.4	<0.1	37	0.34	0.056
124813	Soil	0.8	20.2	9.4	56	<0.1	17.1	7.8	278	2.40	7.8	0.5	1.1	4.0	23	<0.1	0.6	0.2	39	0.25	0.030
124814	Soil	1.1	28.6	13.1	56	0.1	23.8	9.7	379	2.61	9.4	0.9	2.5	4.6	32	<0.1	0.7	0.2	48	0.43	0.036
124815	Soil	0.8	28.0	9.3	53	<0.1	21.7	8.3	295	2.35	8.7	0.5	4.4	4.4	29	0.1	0.6	0.2	44	0.35	0.045
124816	Soil	0.7	37.3	12.0	53	0.2	27.7	9.6	360	2.39	10.7	0.6	8.5	6.3	27	<0.1	0.6	0.2	44	0.41	0.035
124817	Soil	0.7	23.2	9.5	43	<0.1	19.5	7.6	252	2.13	8.9	0.8	6.4	5.6	21	<0.1	0.6	0.2	42	0.26	0.023
133393	Soil	1.4	35.6	17.3	63	0.4	14.8	7.4	286	2.34	13.2	1.9	1.8	5.4	25	0.2	0.5	0.4	39	0.31	0.043
133394	Soil	1.1	21.0	13.6	40	0.2	12.6	5.0	137	2.15	9.0	2.4	7.4	3.8	25	0.1	0.4	0.6	32	0.26	0.047
133395	Soil	0.9	16.5	11.0	47	<0.1	11.7	4.3	171	1.86	9.2	1.4	4.5	9.1	21	<0.1	0.5	0.4	30	0.22	0.028
133396	Soil	0.6	12.3	8.3	30	<0.1	9.4	3.7	140	1.56	6.9	1.1	1.1	7.3	17	<0.1	0.5	0.2	26	0.17	0.021
133397	Soil	1.0	16.9	18.3	47	0.1	11.6	4.8	200	1.97	15.1	1.7	1.0	10.2	12	<0.1	0.6	0.3	32	0.11	0.012
133398	Soil	0.5	14.2	10.1	66	<0.1	7.0	4.6	300	2.27	4.2	0.8	<0.5	9.8	7	0.1	0.3	0.2	14	0.14	0.032

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Project: QUARTZ
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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	
124794	Soil	14	21	0.29	301	0.042	<1	1.13	0.006	0.06	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
124795	Soil	13	16	0.23	365	0.024	<1	0.95	0.005	0.09	0.2	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
124796	Soil	17	11	0.15	234	0.016	<1	0.86	0.003	0.14	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
124797	Soil	18	26	0.34	319	0.037	<1	1.78	0.006	0.07	0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
124798	Soil	18	19	0.27	297	0.032	<1	1.45	0.005	0.10	0.1	0.02	2.2	0.1	<0.05	6	<0.5	<0.2
124799	Soil	19	13	0.60	204	0.033	<1	1.16	0.005	0.15	<0.1	0.01	2.8	0.2	<0.05	3	<0.5	<0.2
124800	Soil	61	23	1.17	270	0.052	1	1.39	0.004	0.29	<0.1	0.06	3.5	0.3	0.05	4	<0.5	<0.2
124801	Soil	11	20	0.35	198	0.034	1	1.28	0.005	0.06	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
124802	Soil	36	17	0.38	545	0.029	1	0.95	0.006	0.06	0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
124803	Soil	13	9	0.22	312	0.016	2	0.63	0.004	0.07	<0.1	<0.01	1.8	<0.1	0.06	2	<0.5	<0.2
124804	Soil	13	6	0.13	211	0.011	<1	0.46	0.004	0.07	<0.1	<0.01	1.0	<0.1	0.06	2	<0.5	<0.2
124805	Soil	16	12	0.28	362	0.026	<1	0.79	0.006	0.07	0.1	0.02	1.7	<0.1	<0.05	3	0.5	<0.2
124806	Soil	4	23	0.93	299	0.102	6	1.71	0.005	0.92	<0.1	<0.01	2.0	0.5	<0.05	5	<0.5	<0.2
124807	Soil	5	15	0.65	233	0.098	<1	1.31	0.004	0.34	<0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2
124808	Soil	9	17	0.81	167	0.099	1	1.61	0.004	0.66	<0.1	0.01	2.4	0.5	<0.05	4	<0.5	<0.2
124809	Soil	18	18	0.63	481	0.047	1	1.22	0.009	0.23	0.2	0.06	2.8	0.2	0.06	4	1.1	<0.2
124810	Soil	13	24	0.64	327	0.055	2	1.26	0.016	0.14	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
124811	Soil	4	17	0.77	289	0.082	<1	1.30	0.004	0.33	<0.1	<0.01	1.3	0.3	<0.05	4	<0.5	<0.2
124812	Soil	15	23	0.75	324	0.079	2	1.46	0.008	0.60	0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
124813	Soil	12	24	0.63	302	0.061	<1	1.26	0.012	0.08	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
124814	Soil	18	29	0.66	372	0.057	1	1.54	0.017	0.07	0.2	0.04	4.1	<0.1	<0.05	4	0.8	<0.2
124815	Soil	14	24	0.62	299	0.060	2	1.32	0.016	0.06	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
124816	Soil	18	26	0.60	282	0.059	2	1.27	0.017	0.06	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
124817	Soil	16	26	0.48	244	0.057	1	1.21	0.012	0.05	0.2	0.02	4.4	<0.1	<0.05	3	0.5	<0.2
133393	Soil	24	24	0.53	332	0.048	1	1.45	0.010	0.06	0.1	0.03	3.3	<0.1	<0.05	5	0.8	<0.2
133394	Soil	27	20	0.38	343	0.036	1	1.44	0.008	0.07	0.2	0.04	2.6	0.1	<0.05	4	<0.5	0.3
133395	Soil	28	17	0.49	314	0.042	<1	1.19	0.009	0.08	0.2	0.01	3.0	0.1	<0.05	4	<0.5	<0.2
133396	Soil	21	17	0.32	301	0.036	<1	0.90	0.007	0.05	0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
133397	Soil	42	18	0.39	212	0.041	<1	1.21	0.008	0.07	<0.1	0.02	2.9	0.1	<0.05	4	0.5	<0.2
133398	Soil	10	9	0.46	103	0.049	<1	1.26	0.004	0.43	<0.1	<0.01	4.0	0.4	<0.05	6	<0.5	<0.2

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 Report Date: October 06, 2011

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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	
133399	Soil		0.8	14.1	10.5	38	<0.1	11.8	4.4	244	1.99	9.8	0.8	<0.5	8.5	9	<0.1	0.6	0.3	28	0.09	0.013
133400	Soil		0.9	5.5	8.6	11	<0.1	4.4	1.1	139	1.51	8.9	5.1	9.1	19.4	9	<0.1	0.4	0.9	<2	0.13	0.007
133401	Soil		0.5	22.3	14.7	34	<0.1	11.9	4.5	203	1.65	12.8	4.2	2.3	24.9	11	<0.1	0.6	0.3	22	0.09	0.009
133402	Soil		0.4	5.3	6.2	10	<0.1	1.9	0.9	33	0.83	9.2	0.8	1.2	12.4	8	<0.1	0.4	0.2	4	0.05	0.004
133403	Soil		0.5	9.4	11.9	41	<0.1	2.7	1.6	93	1.09	4.6	0.8	<0.5	10.7	5	0.1	0.3	0.3	6	0.03	0.006
133404	Soil		0.6	9.6	12.3	39	<0.1	4.7	3.3	231	1.50	5.5	0.9	0.5	10.2	7	0.1	0.4	0.3	13	0.10	0.011
133405	Soil		0.7	7.7	19.5	31	0.1	6.1	2.7	322	1.47	4.7	0.7	4.2	6.5	12	0.2	0.7	0.3	20	0.09	0.012
133406	Soil		0.8	14.3	13.2	40	<0.1	11.4	5.9	308	1.76	6.2	1.5	2.8	9.6	11	<0.1	0.5	0.3	30	0.10	0.010
133407	Soil		1.0	14.4	12.9	45	0.1	13.2	5.8	327	2.00	6.3	0.9	4.9	7.2	17	0.1	0.6	0.3	39	0.14	0.017
133408	Soil		1.0	24.3	14.4	53	0.1	19.8	7.4	340	1.97	8.3	0.7	3.8	6.2	25	0.2	0.7	0.2	37	0.32	0.052
133409	Soil		0.9	28.0	15.2	66	0.2	23.0	8.7	372	2.34	9.1	1.4	3.7	5.6	40	0.2	0.7	0.2	44	0.58	0.058
133410	Soil		1.0	22.4	11.7	53	0.1	18.1	7.5	359	1.95	7.6	2.5	3.1	5.4	36	0.2	0.7	0.1	37	0.45	0.054
133411	Soil		0.8	11.9	12.4	42	<0.1	10.2	5.5	217	1.63	5.6	3.8	0.7	7.1	24	0.1	0.5	0.2	28	0.27	0.028
133412	Soil		0.7	20.8	19.4	53	0.1	14.1	7.2	211	1.85	6.2	8.1	0.5	8.4	37	0.2	0.4	0.2	33	0.43	0.038
133413	Soil		1.0	23.9	16.2	64	0.2	18.4	8.3	316	2.21	9.1	1.5	20.0	5.9	29	0.2	0.6	0.2	41	0.36	0.057
133414	Soil		0.8	28.3	12.4	73	0.2	23.9	8.8	437	2.25	8.3	1.1	2.0	4.0	39	0.5	0.8	0.2	42	0.64	0.077
133415	Soil		1.0	28.6	20.7	75	0.3	21.0	10.5	482	2.16	7.4	1.7	1.6	4.3	27	0.8	0.6	0.2	38	0.33	0.061
133416	Soil		1.0	32.5	15.7	75	0.2	23.7	8.6	429	2.23	7.3	1.9	2.0	3.2	39	0.5	0.7	0.2	40	0.52	0.063
133417	Soil		0.9	31.7	17.6	75	0.2	20.7	9.5	423	2.20	7.7	2.0	2.1	5.3	28	0.2	0.6	0.2	41	0.39	0.048
133418	Soil		0.8	31.1	13.3	72	0.1	24.0	9.3	380	2.29	8.9	0.8	11.0	4.6	41	0.3	0.9	0.2	43	0.75	0.072
133419	Soil		1.2	30.0	16.1	69	0.1	23.8	10.6	474	2.53	10.9	0.5	2.8	4.7	35	0.3	0.9	0.2	45	0.82	0.061
133420	Soil		0.7	14.4	18.7	66	0.1	13.2	7.4	270	2.24	6.7	1.1	<0.5	8.7	20	0.1	0.6	0.2	38	0.22	0.044
133421	Soil		0.6	15.7	14.7	49	<0.1	13.3	6.4	186	1.81	5.2	1.0	1.0	10.0	17	0.1	0.5	0.1	30	0.18	0.026
133422	Soil		0.5	11.3	20.4	62	<0.1	11.6	7.2	310	1.83	4.1	0.8	<0.5	9.5	14	<0.1	0.4	<0.1	25	0.14	0.032
134304	Soil		0.4	20.7	9.6	63	<0.1	11.1	5.7	248	1.49	2.4	0.8	<0.5	7.7	12	<0.1	0.3	<0.1	14	0.15	0.028
134305	Soil		0.7	28.9	8.7	90	<0.1	22.7	13.2	444	3.27	6.0	0.8	1.1	5.8	16	<0.1	0.5	<0.1	36	0.20	0.033
134306	Soil		0.7	27.8	15.6	99	<0.1	17.0	9.5	313	2.41	4.3	0.6	<0.5	5.1	12	<0.1	0.5	<0.1	22	0.16	0.033
134307	Soil		0.9	23.7	12.9	54	0.2	20.3	9.0	217	2.75	11.9	0.5	3.2	4.5	10	0.1	0.8	0.1	46	0.09	0.017
134308	Soil		1.1	21.8	5.5	69	<0.1	11.8	8.7	385	2.09	4.9	0.7	<0.5	4.0	13	<0.1	0.5	0.1	28	0.26	0.029
134309	Soil		0.8	28.9	8.7	87	0.2	19.5	10.6	418	3.28	10.1	0.8	1.5	6.5	16	0.1	0.6	0.2	35	0.41	0.062

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 Report Date: October 06, 2011

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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	
133399	Soil	22	18	0.30	211	0.019	<1	1.52	0.005	0.08	0.1	<0.01	2.7	0.2	<0.05	4	0.6	<0.2
133400	Soil	66	3	0.11	116	0.001	<1	0.41	0.002	0.07	<0.1	0.02	3.3	<0.1	<0.05	1	<0.5	0.5
133401	Soil	143	16	0.32	384	0.020	<1	1.20	0.006	0.08	<0.1	0.05	5.1	0.1	<0.05	3	<0.5	<0.2
133402	Soil	33	4	0.11	162	0.002	<1	0.75	0.003	0.06	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
133403	Soil	16	5	0.16	135	0.006	<1	0.77	0.003	0.09	<0.1	<0.01	1.7	0.1	<0.05	2	<0.5	<0.2
133404	Soil	17	8	0.19	153	0.013	<1	0.88	0.003	0.13	0.1	0.01	2.4	0.1	<0.05	3	<0.5	<0.2
133405	Soil	15	10	0.18	273	0.014	<1	0.83	0.004	0.09	0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
133406	Soil	29	18	0.33	300	0.034	<1	1.08	0.007	0.06	0.1	0.01	2.6	<0.1	<0.05	3	0.6	<0.2
133407	Soil	22	22	0.41	353	0.045	<1	1.29	0.009	0.07	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
133408	Soil	19	21	0.43	404	0.045	1	1.01	0.016	0.07	0.3	0.04	2.9	<0.1	<0.05	3	0.7	<0.2
133409	Soil	29	25	0.54	718	0.050	2	1.40	0.020	0.07	0.2	0.03	3.8	<0.1	<0.05	4	0.9	<0.2
133410	Soil	23	22	0.44	503	0.042	<1	1.09	0.016	0.05	0.3	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
133411	Soil	19	16	0.32	415	0.036	<1	0.92	0.008	0.05	0.2	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
133412	Soil	29	19	0.40	597	0.041	<1	1.15	0.011	0.06	0.1	0.02	3.4	<0.1	<0.05	3	0.6	<0.2
133413	Soil	22	23	0.44	563	0.045	<1	1.21	0.012	0.06	0.3	0.03	3.3	<0.1	<0.05	3	0.8	<0.2
133414	Soil	17	24	0.50	594	0.049	2	1.13	0.016	0.06	0.3	0.04	3.2	<0.1	<0.05	3	0.6	<0.2
133415	Soil	24	21	0.41	569	0.039	<1	1.15	0.012	0.05	0.3	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
133416	Soil	21	24	0.48	541	0.040	<1	1.31	0.015	0.06	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
133417	Soil	23	23	0.47	479	0.052	<1	1.32	0.016	0.06	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
133418	Soil	17	24	0.58	434	0.054	1	1.10	0.023	0.07	0.3	0.03	3.1	<0.1	<0.05	3	0.6	<0.2
133419	Soil	16	24	0.59	432	0.056	2	1.25	0.020	0.07	0.2	0.04	3.2	<0.1	<0.05	4	0.7	<0.2
133420	Soil	26	20	0.43	323	0.072	1	1.26	0.009	0.13	0.2	0.03	3.2	0.1	<0.05	4	<0.5	<0.2
133421	Soil	31	19	0.42	330	0.057	<1	1.02	0.010	0.09	0.2	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
133422	Soil	12	16	0.54	237	0.053	<1	1.15	0.005	0.25	<0.1	<0.01	2.9	0.3	<0.05	4	<0.5	<0.2
134304	Soil	32	9	0.63	157	0.056	1	0.96	0.003	0.37	<0.1	<0.01	2.3	0.3	<0.05	3	<0.5	<0.2
134305	Soil	15	25	1.10	329	0.099	<1	1.82	0.007	0.73	0.1	<0.01	3.5	0.4	<0.05	6	<0.5	<0.2
134306	Soil	18	14	0.96	261	0.075	<1	1.32	0.005	0.53	<0.1	<0.01	2.8	0.3	<0.05	4	<0.5	<0.2
134307	Soil	10	27	0.50	137	0.077	<1	1.54	0.006	0.13	0.2	0.01	2.6	0.1	<0.05	4	<0.5	<0.2
134308	Soil	7	16	0.66	171	0.032	<1	1.26	0.004	0.12	<0.1	<0.01	2.6	0.1	<0.05	3	<0.5	<0.2
134309	Soil	24	22	0.82	288	0.017	<1	1.73	0.006	0.06	<0.1	0.03	6.9	<0.1	<0.05	5	<0.5	<0.2

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Project: QUARTZ
 Report Date: October 06, 2011

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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	
134310	Soil		1.0	70.7	10.1	94	0.1	14.7	13.8	661	3.69	8.9	0.9	2.1	8.8	12	0.2	0.6	0.4	40	0.23	0.029
134311	Soil		0.3	53.0	21.3	39	0.2	14.9	17.0	581	2.79	5.9	1.1	0.7	10.5	15	<0.1	0.4	0.2	53	0.47	0.023
134312	Soil		0.2	87.9	4.9	97	0.3	17.0	30.6	855	5.16	2.7	0.3	<0.5	0.8	17	0.1	0.2	<0.1	88	0.48	0.045
134313	Soil		1.8	47.5	61.8	96	0.4	3.1	2.5	263	1.53	94.6	0.9	<0.5	6.0	7	0.7	3.6	0.5	24	0.10	0.017
134314	Soil		0.2	147.2	10.7	102	<0.1	39.5	39.9	859	4.58	8.7	0.3	<0.5	0.6	20	0.1	0.4	<0.1	77	0.43	0.024
134315	Soil		1.2	38.5	90.2	121	1.9	8.9	7.7	560	2.40	38.8	1.1	2.7	16.4	8	0.6	11.5	2.6	2	0.18	0.041
134316	Soil		0.5	62.4	17.9	85	0.2	29.6	23.4	820	4.73	7.0	0.5	7.1	4.0	12	0.2	0.4	0.1	84	0.37	0.020
134317	Soil		0.7	63.9	8.1	110	0.2	19.9	24.6	935	5.19	13.0	1.2	5.2	5.3	7	0.3	0.4	0.1	58	0.16	0.019
134318	Soil		1.4	36.5	62.0	124	0.3	14.6	5.7	175	2.33	84.2	1.2	1.1	9.5	11	0.4	2.8	0.4	26	0.10	0.017
134319	Soil		1.0	47.2	97.1	282	0.6	13.8	9.2	434	2.62	39.8	1.5	3.7	8.4	16	0.6	1.1	0.7	36	0.22	0.020
134320	Soil		1.3	11.1	30.4	34	0.2	9.4	4.3	152	1.91	10.5	1.0	2.4	9.4	9	<0.1	0.6	0.2	33	0.08	0.012
134321	Soil		0.8	11.8	14.1	41	<0.1	8.3	4.1	262	1.64	4.5	1.4	0.8	12.3	12	0.2	0.4	0.2	17	0.22	0.015
134322	Soil		1.9	7.4	16.0	66	0.1	4.1	3.7	269	2.18	4.3	1.3	<0.5	14.1	4	0.1	0.4	0.3	8	0.05	0.023
134323	Soil		1.5	7.2	17.7	29	0.3	6.5	2.8	180	1.43	10.8	0.7	0.7	8.4	6	<0.1	0.4	0.2	28	0.05	0.022
134324	Soil		2.8	122.5	19.1	150	0.2	35.0	15.9	413	3.61	70.9	1.8	2.1	13.5	20	0.4	3.5	0.8	7	0.07	0.031
134325	Soil		2.3	52.4	58.8	324	0.2	18.6	12.8	471	3.76	5.6	0.6	<0.5	5.8	3	0.6	0.4	0.1	30	0.11	0.047
134326	Soil		0.8	80.0	13.3	101	0.1	28.7	11.5	408	3.15	3.5	1.2	1.0	6.5	9	0.3	0.4	0.1	42	0.10	0.031
134327	Soil		1.1	40.9	29.5	111	<0.1	21.6	8.1	269	3.12	7.1	0.8	<0.5	3.8	11	<0.1	0.6	0.2	38	0.09	0.024
134328	Soil		0.5	41.1	8.4	98	<0.1	22.5	9.5	502	2.85	6.0	1.0	1.6	3.7	22	<0.1	0.4	0.1	25	0.29	0.042
134329	Soil		0.8	29.4	10.6	74	<0.1	18.3	9.2	402	2.98	5.3	1.1	1.6	7.7	12	<0.1	1.9	0.2	29	0.19	0.036
134330	Soil		2.7	83.3	18.1	104	0.6	35.9	20.8	450	4.13	20.6	1.0	2.7	3.7	8	0.5	0.9	0.8	67	0.14	0.031
134331	Soil		2.4	61.0	19.4	33	0.3	23.9	19.8	349	4.51	16.2	0.9	<0.5	2.0	14	0.2	0.6	0.3	49	0.19	0.042
134332	Soil		2.1	31.6	21.7	134	<0.1	32.8	17.9	1025	4.49	83.1	1.7	0.8	12.1	7	0.3	0.7	0.2	47	0.22	0.070
134333	Soil		0.7	31.8	5.8	90	<0.1	22.5	11.7	375	2.78	3.9	0.6	1.0	4.5	11	<0.1	0.3	<0.1	28	0.12	0.024
134334	Soil		1.0	11.0	8.6	75	0.2	21.7	11.2	302	3.10	9.8	0.7	0.7	3.3	13	<0.1	0.5	<0.1	47	0.17	0.043
134335	Soil		0.7	36.0	9.9	100	<0.1	24.3	12.9	549	2.92	5.5	0.7	<0.5	6.1	18	<0.1	0.3	<0.1	27	0.19	0.053
134336	Soil		1.0	30.7	10.0	99	<0.1	20.8	11.3	543	3.66	5.8	0.9	<0.5	4.9	15	<0.1	0.3	<0.1	32	0.21	0.053
134337	Soil		0.6	49.7	19.9	75	0.3	19.1	9.9	252	3.77	10.3	1.5	4.5	16.7	8	<0.1	0.8	0.3	48	0.09	0.023
134338	Soil		0.8	34.7	7.8	95	<0.1	26.1	12.9	488	3.44	4.0	0.7	<0.5	4.8	19	<0.1	0.3	<0.1	31	0.22	0.053
134339	Soil		0.6	29.6	14.6	97	<0.1	23.1	11.9	494	3.65	4.0	0.8	0.7	5.7	20	<0.1	0.3	<0.1	41	0.21	0.025

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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	
134310	Soil	23	13	0.92	196	0.015	<1	1.62	0.005	0.05	<0.1	0.01	7.4	<0.1	<0.05	5	<0.5	<0.2
134311	Soil	34	16	0.98	198	0.005	<1	1.50	0.004	0.09	<0.1	0.02	7.4	<0.1	<0.05	4	<0.5	<0.2
134312	Soil	3	13	2.38	312	0.178	<1	2.83	0.003	1.24	<0.1	0.01	3.0	0.7	<0.05	5	<0.5	<0.2
134313	Soil	18	7	0.06	211	0.013	<1	0.49	0.003	0.07	<0.1	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
134314	Soil	2	22	1.47	340	0.118	<1	1.96	0.004	0.65	<0.1	<0.01	4.0	0.5	<0.05	5	<0.5	<0.2
134315	Soil	36	3	0.04	152	0.003	4	0.31	0.004	0.07	<0.1	0.65	3.2	<0.1	<0.05	<1	0.7	0.4
134316	Soil	15	46	2.43	361	0.052	<1	2.92	0.006	0.08	<0.1	0.07	6.5	<0.1	<0.05	7	<0.5	<0.2
134317	Soil	48	15	1.93	308	0.011	<1	2.77	0.003	0.06	<0.1	0.08	7.4	<0.1	<0.05	5	<0.5	<0.2
134318	Soil	29	18	0.31	277	0.018	<1	1.18	0.005	0.08	0.1	0.08	2.7	<0.1	<0.05	3	<0.5	<0.2
134319	Soil	40	18	0.63	637	0.032	<1	1.46	0.007	0.08	0.1	0.09	3.8	<0.1	<0.05	4	0.7	<0.2
134320	Soil	26	20	0.25	396	0.021	<1	1.35	0.006	0.07	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
134321	Soil	37	12	0.25	550	0.018	<1	1.03	0.007	0.11	0.1	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
134322	Soil	24	7	0.22	113	0.017	<1	0.93	0.005	0.23	<0.1	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
134323	Soil	27	13	0.12	144	0.022	<1	0.63	0.003	0.09	0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
134324	Soil	50	11	0.22	396	0.002	<1	1.20	0.005	0.15	<0.1	0.01	2.3	0.6	0.11	2	1.4	<0.2
134325	Soil	14	18	1.17	97	0.005	<1	2.00	0.002	0.04	<0.1	<0.01	3.6	<0.1	<0.05	5	1.1	<0.2
134326	Soil	20	56	1.36	115	0.004	<1	2.03	0.004	0.05	<0.1	<0.01	5.4	<0.1	<0.05	7	<0.5	<0.2
134327	Soil	5	29	0.99	191	0.025	<1	1.90	0.004	0.08	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
134328	Soil	11	31	1.25	183	0.027	<1	1.75	0.004	0.04	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
134329	Soil	32	23	0.61	264	0.019	<1	1.44	0.006	0.08	<0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
134330	Soil	6	49	1.61	99	0.049	<1	2.18	0.004	0.05	<0.1	0.02	5.0	<0.1	<0.05	6	2.8	0.9
134331	Soil	4	22	1.34	169	0.030	<1	2.02	0.003	0.05	<0.1	<0.01	3.3	<0.1	<0.05	5	1.7	0.4
134332	Soil	28	32	1.23	156	0.004	<1	2.20	0.003	0.05	<0.1	<0.01	3.9	<0.1	<0.05	6	0.7	<0.2
134333	Soil	16	20	1.14	150	0.091	<1	1.80	0.004	0.20	<0.1	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
134334	Soil	7	28	0.89	253	0.069	<1	1.98	0.005	0.36	<0.1	0.01	2.9	0.2	<0.05	6	<0.5	<0.2
134335	Soil	14	18	1.28	186	0.098	<1	1.70	0.003	0.91	<0.1	<0.01	2.9	0.5	<0.05	5	<0.5	<0.2
134336	Soil	7	23	1.16	274	0.106	<1	1.93	0.004	0.84	<0.1	<0.01	3.4	0.6	<0.05	6	<0.5	<0.2
134337	Soil	68	26	0.90	329	0.047	<1	2.07	0.006	0.48	<0.1	0.14	14.2	0.4	<0.05	9	<0.5	<0.2
134338	Soil	8	21	1.10	188	0.144	<1	1.83	0.004	0.84	<0.1	<0.01	2.1	0.7	<0.05	5	<0.5	<0.2
134339	Soil	10	26	1.19	423	0.148	<1	1.97	0.005	0.91	<0.1	<0.01	3.2	0.5	<0.05	7	<0.5	<0.2

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Project: QUARTZ
Report Date: October 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11001328.1

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	
134340	Soil	0.7	30.9	16.3	103	<0.1	23.6	12.2	555	3.88	4.2	0.8	1.1	6.4	21	<0.1	0.3	<0.1	43	0.22	0.027



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CERTIFICATE OF ANALYSIS

WHI11001328.1

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	
134340	Soil	12	27	1.30	469	0.152	<1	2.10	0.005	0.98	<0.1	0.01	3.5	0.6	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

WHI11001328.1

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
106952	Soil			1.4	16.7	20.2	52	0.2	13.5	6.5	407	1.81	8.0	2.4	4.3	6.0	27	0.2	0.4	0.3	28	0.46	0.033
REP 106952	QC			1.4	17.0	20.2	53	0.2	13.8	6.7	424	1.83	8.0	2.5	12.8	6.0	27	0.2	0.4	0.3	29	0.48	0.033
122476	Soil			1.2	24.8	53.7	95	0.3	12.3	4.4	208	1.69	46.6	6.5	2.9	10.7	29	0.8	1.2	0.3	21	0.26	0.036
REP 122476	QC			1.2	25.1	53.8	95	0.3	12.5	4.6	209	1.72	47.3	6.4	3.8	11.3	29	0.8	1.3	0.3	22	0.30	0.037
122491	Soil			1.2	28.7	8.8	57	0.2	24.4	9.9	566	2.42	10.4	1.4	2.9	3.3	44	0.3	0.8	0.1	49	0.93	0.070
REP 122491	QC			1.2	29.1	8.6	57	0.1	24.7	10.0	563	2.41	10.5	1.4	3.0	3.2	44	0.2	0.8	0.1	49	0.91	0.070
122505	Soil			1.0	15.4	17.5	40	0.1	9.5	4.0	149	1.76	4.2	1.0	0.7	9.0	14	<0.1	0.4	0.2	28	0.13	0.016
REP 122505	QC			1.0	14.3	17.2	39	0.1	8.7	3.9	145	1.71	4.0	1.1	<0.5	9.0	12	0.1	0.4	0.2	27	0.12	0.015
122535	Soil			0.7	3.8	11.3	38	0.1	6.0	3.9	160	1.70	3.5	0.7	0.6	5.5	5	<0.1	0.5	<0.1	19	0.06	0.029
REP 122535	QC			0.7	3.8	11.4	39	0.1	6.1	3.9	160	1.71	3.5	0.7	<0.5	5.5	5	<0.1	0.5	<0.1	20	0.06	0.028
122553	Soil			1.0	17.0	11.4	45	<0.1	15.7	7.2	200	2.30	8.6	1.3	5.8	6.2	22	<0.1	0.5	0.2	50	0.28	0.024
REP 122553	QC			0.9	16.5	11.4	42	<0.1	15.4	7.0	200	2.29	8.3	1.3	11.9	6.2	22	<0.1	0.5	0.2	50	0.26	0.023
122574	Soil			0.4	11.3	16.0	75	<0.1	4.2	3.2	245	1.18	3.3	0.8	<0.5	11.8	5	<0.1	0.3	0.2	10	0.06	0.014
REP 122574	QC			0.3	11.3	16.1	73	<0.1	4.3	3.2	245	1.17	3.1	0.9	<0.5	12.2	5	<0.1	0.3	0.2	10	0.05	0.014
122577	Soil			0.5	4.0	7.8	25	<0.1	4.0	2.4	126	0.98	3.2	0.7	<0.5	8.9	6	0.1	0.4	0.1	16	0.05	0.018
REP 122577	QC			0.5	4.1	8.0	25	<0.1	4.1	2.3	123	0.99	3.1	0.7	<0.5	9.2	6	<0.1	0.4	0.1	17	0.05	0.018
122604	Soil			0.7	9.7	18.0	54	<0.1	8.4	4.2	285	1.66	5.0	1.6	<0.5	13.6	11	<0.1	1.0	0.3	17	0.03	0.021
REP 122604	QC			0.8	10.4	17.4	56	<0.1	9.9	4.3	302	1.62	4.9	1.7	<0.5	13.3	12	0.2	1.2	0.3	19	0.03	0.021
124762	Soil			0.8	8.9	26.8	32	0.3	7.4	2.9	96	1.26	9.6	0.9	1.8	9.1	7	<0.1	0.5	0.1	23	0.05	0.007
REP 124762	QC			0.8	8.9	27.6	33	0.3	6.7	2.8	98	1.29	9.5	0.9	0.6	9.3	7	0.1	0.5	0.2	23	0.05	0.008
124768	Soil			0.6	9.2	13.4	83	0.2	6.9	4.3	392	1.51	3.6	0.5	0.6	5.2	9	0.3	0.2	0.2	18	0.10	0.037
REP 124768	QC			0.5	8.5	13.1	78	0.2	6.9	4.2	373	1.42	3.5	0.5	1.5	5.2	9	0.2	0.2	0.1	18	0.09	0.037
124794	Soil			0.9	11.3	8.5	35	0.2	12.3	4.7	181	1.91	6.7	0.5	0.7	2.9	12	<0.1	0.5	0.2	47	0.14	0.015
REP 124794	QC			0.9	11.8	8.8	35	0.2	12.6	4.9	182	1.96	6.9	0.4	0.8	3.0	13	0.2	0.5	0.2	46	0.13	0.014
124804	Soil			0.9	5.0	14.9	20	0.2	3.8	1.5	63	1.06	6.2	0.8	0.7	6.1	10	0.2	0.3	0.2	15	0.08	0.010
REP 124804	QC			1.0	4.6	15.7	20	0.2	4.0	1.6	66	1.11	6.5	0.8	0.7	6.7	10	0.2	0.3	0.2	16	0.08	0.009
133409	Soil			0.9	28.0	15.2	66	0.2	23.0	8.7	372	2.34	9.1	1.4	3.7	5.6	40	0.2	0.7	0.2	44	0.58	0.058
REP 133409	QC			1.0	27.1	15.4	64	0.2	21.7	8.6	363	2.29	8.5	1.5	3.5	5.6	39	0.2	0.7	0.2	43	0.57	0.055

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Project: QUARTZ
 Report Date: October 06, 2011

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QUALITY CONTROL REPORT

WHI11001328.1

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																		
106952	Soil	24	19	0.30	437	0.020	3	0.97	0.007	0.09	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
REP 106952	QC	25	20	0.30	433	0.021	2	1.00	0.007	0.10	0.2	0.03	2.9	<0.1	<0.05	3	<0.5	<0.2
122476	Soil	46	14	0.21	377	0.021	<1	0.66	0.010	0.10	0.2	0.06	2.7	<0.1	<0.05	2	<0.5	<0.2
REP 122476	QC	47	15	0.23	380	0.022	<1	0.72	0.011	0.10	0.2	0.06	3.2	<0.1	<0.05	2	<0.5	<0.2
122491	Soil	14	25	0.49	443	0.044	2	1.17	0.021	0.05	0.2	0.03	3.0	<0.1	<0.05	4	0.6	<0.2
REP 122491	QC	14	25	0.49	439	0.045	2	1.19	0.021	0.05	0.2	0.03	3.0	<0.1	<0.05	4	0.6	<0.2
122505	Soil	27	14	0.29	364	0.038	<1	1.03	0.006	0.17	0.1	0.03	2.7	0.1	<0.05	4	<0.5	<0.2
REP 122505	QC	26	13	0.29	349	0.037	<1	0.97	0.006	0.16	0.1	0.02	2.6	0.2	<0.05	3	<0.5	<0.2
122535	Soil	4	10	0.32	161	0.011	<1	1.06	0.002	0.21	<0.1	<0.01	3.3	0.2	<0.05	3	<0.5	<0.2
REP 122535	QC	4	10	0.33	164	0.013	<1	1.09	0.003	0.22	<0.1	<0.01	3.5	0.2	<0.05	4	<0.5	<0.2
122553	Soil	21	28	0.41	369	0.064	<1	1.64	0.010	0.07	0.2	0.02	3.9	0.1	<0.05	5	<0.5	<0.2
REP 122553	QC	20	28	0.40	356	0.056	<1	1.58	0.009	0.06	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
122574	Soil	40	6	0.45	119	0.036	<1	0.75	0.003	0.29	<0.1	<0.01	2.3	0.4	<0.05	3	<0.5	<0.2
REP 122574	QC	39	6	0.45	115	0.036	<1	0.74	0.003	0.28	0.1	<0.01	2.2	0.4	<0.05	3	0.5	<0.2
122577	Soil	14	7	0.14	122	0.022	<1	0.51	0.003	0.11	0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
REP 122577	QC	14	7	0.14	121	0.022	<1	0.50	0.003	0.11	0.1	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
122604	Soil	30	12	0.30	169	0.023	2	1.06	0.004	0.19	<0.1	0.05	2.1	0.1	<0.05	3	<0.5	<0.2
REP 122604	QC	30	12	0.32	175	0.028	2	1.08	0.004	0.21	<0.1	0.06	2.4	0.2	<0.05	3	<0.5	<0.2
124762	Soil	33	13	0.23	259	0.022	1	1.02	0.005	0.09	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
REP 124762	QC	35	13	0.22	259	0.022	<1	1.05	0.006	0.08	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
124768	Soil	8	9	0.29	293	0.024	<1	1.01	0.003	0.15	<0.1	0.01	2.7	0.2	<0.05	4	<0.5	<0.2
REP 124768	QC	8	9	0.28	284	0.028	<1	1.00	0.004	0.15	<0.1	0.01	2.7	0.2	<0.05	4	<0.5	<0.2
124794	Soil	14	21	0.29	301	0.042	<1	1.13	0.006	0.06	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 124794	QC	14	20	0.30	311	0.040	<1	1.14	0.005	0.07	0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
124804	Soil	13	6	0.13	211	0.011	<1	0.46	0.004	0.07	<0.1	<0.01	1.0	<0.1	0.06	2	<0.5	<0.2
REP 124804	QC	14	6	0.13	223	0.011	<1	0.49	0.004	0.07	0.1	0.01	1.2	<0.1	0.06	2	<0.5	<0.2
133409	Soil	29	25	0.54	718	0.050	2	1.40	0.020	0.07	0.2	0.03	3.8	<0.1	<0.05	4	0.9	<0.2
REP 133409	QC	29	24	0.54	708	0.047	1	1.39	0.020	0.07	0.2	0.04	3.6	<0.1	<0.05	4	0.9	<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: QUARTZ

Report Date: October 06, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11001328.1

		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
133421	Soil	0.6	15.7	14.7	49	<0.1	13.3	6.4	186	1.81	5.2	1.0	1.0	10.0	17	0.1	0.5	0.1	30	0.18	0.026
REP 133421	QC	0.6	15.2	14.9	49	<0.1	12.3	6.2	182	1.78	5.2	1.1	1.8	10.0	16	<0.1	0.6	0.1	29	0.17	0.025
134322	Soil	1.9	7.4	16.0	66	0.1	4.1	3.7	269	2.18	4.3	1.3	<0.5	14.1	4	0.1	0.4	0.3	8	0.05	0.023
REP 134322	QC	1.8	7.1	15.2	65	<0.1	3.5	3.6	263	2.19	4.2	1.2	<0.5	14.2	4	0.1	0.4	0.3	7	0.05	0.024
Reference Materials																					
STD DS8	Standard	12.8	110.4	124.3	318	1.8	38.3	7.5	607	2.47	25.5	2.7	111.7	6.6	67	2.2	5.7	6.5	41	0.67	0.082
STD DS8	Standard	11.4	105.4	121.1	303	1.8	36.9	7.3	572	2.32	24.4	2.6	114.7	6.3	62	2.1	5.4	6.5	40	0.63	0.076
STD DS8	Standard	12.9	107.1	117.5	307	1.7	37.7	7.4	614	2.47	26.4	2.8	107.3	6.8	74	2.1	5.8	7.2	40	0.73	0.081
STD DS8	Standard	12.8	112.0	117.3	291	1.7	37.2	7.6	593	2.38	24.6	2.3	154.0	5.6	60	2.4	4.9	5.8	43	0.66	0.079
STD DS8	Standard	14.7	114.3	128.1	307	1.8	38.7	7.9	622	2.48	26.1	2.6	117.7	6.1	63	2.5	5.2	5.9	45	0.69	0.081
STD DS8	Standard	13.2	117.6	128.4	316	1.7	38.0	7.7	608	2.45	23.7	3.1	116.3	7.4	61	2.3	5.5	6.9	45	0.70	0.075
STD DS8	Standard	14.4	117.3	134.0	307	1.8	39.1	7.9	613	2.47	24.5	3.3	112.6	7.8	66	2.3	5.8	7.0	45	0.73	0.078
STD DS8	Standard	13.2	114.1	129.7	302	1.8	39.1	7.7	612	2.39	23.8	2.9	109.9	6.8	63	2.3	5.6	6.7	42	0.68	0.075
STD DS8	Standard	11.9	103.6	119.3	300	1.8	35.3	7.1	571	2.32	23.4	2.7	124.2	6.6	67	2.1	5.2	6.6	39	0.69	0.073
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	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: QUARTZ
 Report Date: October 06, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

WHI11001328.1

		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
133421	Soil	31	19	0.42	330	0.057	<1	1.02	0.010	0.09	0.2	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
REP 133421	QC	30	19	0.40	321	0.052	<1	1.00	0.007	0.09	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
134322	Soil	24	7	0.22	113	0.017	<1	0.93	0.005	0.23	<0.1	<0.01	3.0	0.1	<0.05	4	<0.5	<0.2
REP 134322	QC	24	6	0.21	112	0.017	<1	0.91	0.005	0.22	<0.1	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	117	0.61	262	0.116	2	0.92	0.097	0.42	3.1	0.21	2.5	5.4	0.14	5	5.2	4.9
STD DS8	Standard	13	113	0.58	260	0.107	2	0.87	0.090	0.41	2.8	0.20	2.6	5.2	0.14	4	5.9	4.7
STD DS8	Standard	15	115	0.60	300	0.113	3	0.94	0.101	0.43	3.1	0.19	2.6	5.2	0.17	5	4.9	4.8
STD DS8	Standard	13	117	0.59	268	0.105	2	0.92	0.107	0.42	2.9	0.20	1.9	5.1	0.14	5	4.8	4.8
STD DS8	Standard	15	123	0.62	291	0.114	3	0.96	0.107	0.44	3.1	0.21	2.1	5.5	0.17	5	5.3	4.8
STD DS8	Standard	16	121	0.58	254	0.114	3	0.87	0.088	0.39	2.8	0.21	2.3	5.5	0.13	5	5.1	4.8
STD DS8	Standard	18	123	0.62	283	0.130	3	0.96	0.097	0.41	3.1	0.21	2.7	5.4	0.18	5	5.0	4.9
STD DS8	Standard	16	116	0.60	261	0.112	3	0.89	0.083	0.39	2.8	0.19	2.2	5.3	0.16	4	4.7	4.9
STD DS8	Standard	14	110	0.63	256	0.105	3	0.88	0.089	0.39	2.9	0.18	2.0	5.0	0.16	4	5.6	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<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: Mark Fekete
Receiving Lab: Canada-Whitehorse
Received: September 02, 2011
Report Date: November 26, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI11001317.1

CLIENT JOB INFORMATION

Project: QUARTZ
Shipment ID: Q!
P.O. Number
Number of Samples: 293

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.

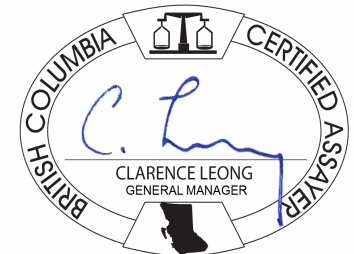
Invoice To: Taku Gold Corp
680 3rd Ave, Suite 203
Val D'Or QC J9P 1S5
Canada

CC: Lauren Wilson

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	293	Dry at 60C			WHI
SS80	293	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	293	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project: QUARTZ
 Report Date: November 26, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

WHI11001317.1

Method Analyte	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	
146681	Soil	1.1	10.1	16.8	49	0.2	12.4	6.1	188	1.95	11.0	1.2	1.8	4.1	25	0.1	0.4	0.2	41	0.37	0.028
146682	Soil	1.1	14.8	20.7	48	0.4	12.3	5.8	233	1.74	10.2	2.2	2.4	4.5	39	0.3	0.5	0.2	31	0.65	0.046
146683	Soil	1.2	18.1	30.9	50	0.5	14.1	6.7	295	1.94	11.4	2.4	8.7	6.2	34	0.4	0.7	0.2	32	0.60	0.038
146684	Soil	1.4	23.1	35.4	65	0.4	16.4	7.9	475	2.03	17.6	2.2	2.0	6.2	35	0.9	0.6	0.2	36	0.55	0.034
146685	Soil	1.5	27.5	37.8	63	0.5	18.2	7.7	422	2.12	18.0	3.8	2.8	6.3	43	0.5	0.8	0.2	35	0.79	0.037
146686	Soil	1.3	24.9	51.0	65	0.3	15.0	8.1	498	1.95	12.4	5.5	2.7	5.7	32	0.5	0.9	0.2	32	0.47	0.040
146687	Soil	1.0	21.1	43.3	75	0.3	12.6	6.6	362	1.86	12.8	4.8	2.5	7.1	28	0.3	0.8	0.2	30	0.42	0.031
146688	Soil	0.9	28.9	27.8	67	0.3	18.2	7.2	427	1.94	11.7	7.0	2.3	4.6	44	0.4	0.6	0.2	34	0.64	0.040
146689	Soil	1.0	8.7	19.4	61	0.1	10.1	6.1	462	1.70	8.5	1.4	2.2	4.3	21	0.3	0.4	0.2	37	0.28	0.023
146690	Soil	1.2	15.6	21.5	57	0.2	17.8	6.3	233	2.27	10.1	0.9	2.2	7.1	12	0.3	0.6	0.2	50	0.11	0.013
146691	Soil	0.9	29.5	25.0	114	0.2	16.8	9.9	516	2.31	22.2	1.7	3.3	3.8	29	0.4	0.7	0.2	43	0.43	0.056
146692	Soil	1.1	26.3	16.4	64	0.1	20.6	8.8	262	2.17	11.2	3.9	6.4	5.4	53	0.2	0.6	0.2	43	0.64	0.061
146693	Soil	1.4	27.6	17.6	71	0.2	19.9	9.5	471	2.19	12.1	2.2	2.6	4.5	60	0.4	0.7	0.2	45	0.84	0.070
146694	Soil	2.7	46.9	56.0	171	0.2	17.1	22.4	2026	4.03	13.2	2.0	<0.5	12.0	38	1.3	3.3	0.3	75	0.40	0.048
146695	Soil	1.5	50.8	83.1	156	0.2	29.0	22.5	1203	4.20	14.1	1.9	2.2	11.1	26	0.7	6.1	0.2	83	1.03	0.035
146696	Soil	1.0	30.9	10.1	72	0.1	27.5	10.5	402	2.51	10.4	0.7	2.1	4.1	36	0.2	0.8	0.2	49	0.64	0.079
146697	Soil	1.0	29.5	10.8	68	0.1	27.4	9.8	390	2.43	10.1	0.6	2.0	4.3	40	0.3	0.9	0.2	49	1.05	0.070
146698	Soil	1.0	22.8	12.1	59	0.2	19.7	9.9	551	2.31	9.4	1.0	2.8	4.4	34	0.2	0.7	0.2	47	0.44	0.065
146699	Soil	0.9	29.3	11.6	71	0.2	27.2	10.7	367	2.50	10.6	0.7	2.7	3.9	37	0.2	0.8	0.2	49	0.57	0.069
146700	Soil	1.1	26.5	11.4	69	0.1	25.7	10.1	416	2.48	10.2	1.2	2.6	4.9	34	0.2	0.7	0.2	49	0.56	0.069
146701	Soil	0.9	21.7	11.7	56	0.1	18.1	7.6	290	2.06	7.5	1.3	3.1	5.4	33	0.2	0.7	0.2	41	0.45	0.051
146702	Soil	0.9	26.3	15.0	61	0.2	21.8	8.5	345	2.32	7.4	1.8	4.6	9.5	29	0.1	0.8	0.2	42	0.45	0.045
146703	Soil	1.1	16.3	16.1	59	0.1	17.8	7.5	255	2.29	7.2	1.2	1.7	9.3	25	0.1	0.6	0.2	46	0.30	0.032
146704	Soil	0.8	19.3	17.1	58	<0.1	15.3	7.3	346	2.12	5.7	2.8	4.3	12.2	24	0.1	0.6	0.2	38	0.30	0.041
146705	Soil	1.1	26.3	11.2	65	0.1	21.5	9.3	273	2.56	9.7	1.1	23.9	7.0	31	<0.1	0.8	0.1	56	0.37	0.062
146706	Soil	1.0	34.3	12.0	76	0.1	30.1	10.6	445	2.51	11.9	0.5	8.2	3.9	60	0.2	1.0	0.2	50	1.86	0.063
146707	Soil	0.9	20.2	10.2	51	<0.1	18.0	7.9	231	2.12	7.6	0.9	3.1	5.6	28	<0.1	0.6	0.1	47	0.34	0.038
146708	Soil	0.8	11.2	12.3	72	0.1	9.4	5.6	456	2.11	4.1	0.7	0.7	5.7	16	0.2	0.3	0.1	28	0.16	0.030
146709	Soil	1.3	28.1	35.2	93	0.2	12.4	5.9	321	2.38	3.7	2.1	1.0	14.7	16	0.1	0.3	0.3	25	0.13	0.030
146710	Soil	0.8	12.0	43.9	88	0.3	4.9	2.5	184	1.26	2.7	2.1	3.1	15.2	19	0.3	0.2	0.1	11	0.10	0.017

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CERTIFICATE OF ANALYSIS

WHI11001317.1

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	
146681	Soil	15	20	0.37	345	0.036	1	1.17	0.009	0.08	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
146682	Soil	17	19	0.32	416	0.028	<1	0.97	0.011	0.08	0.2	0.04	2.5	<0.1	<0.05	3	0.6	<0.2
146683	Soil	26	19	0.30	368	0.031	2	0.97	0.010	0.08	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
146684	Soil	31	21	0.30	478	0.036	<1	1.13	0.010	0.11	0.2	0.05	2.9	<0.1	<0.05	3	<0.5	<0.2
146685	Soil	47	21	0.32	486	0.027	<1	1.20	0.011	0.08	0.2	0.09	3.2	<0.1	<0.05	3	<0.5	<0.2
146686	Soil	26	18	0.32	453	0.030	<1	0.99	0.010	0.07	0.2	0.15	2.9	<0.1	<0.05	3	0.7	<0.2
146687	Soil	30	18	0.29	438	0.029	<1	0.95	0.010	0.08	0.2	0.06	2.6	<0.1	<0.05	3	<0.5	<0.2
146688	Soil	27	20	0.38	535	0.029	<1	1.14	0.012	0.07	0.1	0.08	3.2	<0.1	<0.05	3	0.7	<0.2
146689	Soil	17	17	0.28	423	0.029	<1	1.04	0.007	0.11	0.1	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
146690	Soil	15	27	0.40	652	0.044	<1	1.81	0.011	0.08	0.2	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
146691	Soil	20	24	0.54	365	0.043	<1	1.32	0.012	0.06	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
146692	Soil	25	23	0.46	460	0.049	<1	1.15	0.014	0.07	0.3	0.05	3.5	<0.1	<0.05	3	<0.5	<0.2
146693	Soil	20	24	0.61	366	0.061	<1	1.18	0.022	0.10	0.2	0.03	3.3	0.1	0.08	4	0.6	<0.2
146694	Soil	33	17	0.81	554	0.020	<1	1.36	0.003	0.42	<0.1	0.12	10.9	0.3	<0.05	4	<0.5	<0.2
146695	Soil	31	43	1.03	563	0.023	<1	1.53	0.004	0.51	<0.1	0.18	13.0	0.3	<0.05	4	<0.5	<0.2
146696	Soil	16	27	0.58	357	0.067	<1	1.26	0.025	0.06	0.2	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
146697	Soil	16	27	0.64	410	0.068	<1	1.29	0.023	0.07	0.2	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
146698	Soil	24	24	0.47	393	0.049	<1	1.28	0.014	0.06	0.2	0.06	3.3	<0.1	<0.05	4	<0.5	<0.2
146699	Soil	20	27	0.59	408	0.064	<1	1.32	0.030	0.07	0.2	0.04	3.4	<0.1	<0.05	4	0.5	<0.2
146700	Soil	24	28	0.54	423	0.064	<1	1.42	0.020	0.07	0.2	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
146701	Soil	22	23	0.45	377	0.055	<1	1.27	0.016	0.06	0.2	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
146702	Soil	37	26	0.53	435	0.064	<1	1.45	0.018	0.09	0.2	0.04	4.3	0.1	<0.05	5	<0.5	<0.2
146703	Soil	22	28	0.53	304	0.065	<1	1.49	0.016	0.08	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
146704	Soil	46	22	0.53	342	0.068	<1	1.32	0.018	0.15	0.1	0.03	3.7	0.2	<0.05	4	<0.5	<0.2
146705	Soil	28	31	0.61	322	0.086	<1	1.45	0.020	0.07	0.2	0.02	3.7	<0.1	<0.05	4	0.5	<0.2
146706	Soil	15	26	0.68	451	0.066	<1	1.26	0.023	0.08	0.2	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
146707	Soil	19	26	0.51	305	0.078	<1	1.24	0.017	0.08	0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
146708	Soil	10	13	0.59	276	0.075	<1	1.06	0.005	0.51	0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
146709	Soil	42	14	0.59	379	0.036	<1	1.24	0.004	0.31	<0.1	0.02	4.7	0.3	<0.05	5	<0.5	<0.2
146710	Soil	41	6	0.36	320	0.025	<1	0.76	0.004	0.23	<0.1	0.06	2.3	0.2	<0.05	3	<0.5	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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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	
146711	Soil	0.5	11.8	29.9	48	0.1	6.7	3.2	180	1.38	3.1	1.5	2.0	11.1	8	<0.1	0.4	0.2	13	0.06	0.010
146712	Soil	1.2	17.0	12.8	40	0.1	12.6	5.5	353	1.95	5.7	3.3	3.5	9.9	19	<0.1	0.5	0.3	34	0.17	0.017
146713	Soil	1.1	27.5	12.1	49	0.2	20.8	9.0	365	2.33	8.4	5.8	4.9	7.8	37	0.1	0.6	0.3	46	0.41	0.042
146714	Soil	1.5	7.9	7.6	19	0.1	5.4	1.9	85	1.31	5.3	1.7	2.4	12.6	8	<0.1	0.5	0.2	8	0.05	0.015
146715	Soil	1.1	16.5	10.6	44	<0.1	15.7	7.6	286	2.18	8.2	1.2	2.1	6.4	20	<0.1	0.6	0.2	44	0.23	0.021
146716	Soil	2.4	24.9	15.5	53	0.2	18.7	10.0	252	2.16	8.9	2.5	10.1	4.4	43	0.2	0.4	0.3	57	0.53	0.056
146717	Soil	0.7	13.5	9.5	30	<0.1	10.7	6.4	187	1.43	4.8	0.6	<0.5	5.1	14	<0.1	0.5	0.1	31	0.14	0.018
146718	Soil	0.8	26.0	10.0	41	<0.1	17.8	7.6	202	2.11	7.4	1.0	<0.5	6.9	19	<0.1	0.7	0.2	44	0.18	0.019
146719	Soil	0.8	16.3	13.7	42	<0.1	12.4	5.6	207	1.72	5.6	0.7	<0.5	6.4	15	0.2	0.5	0.1	35	0.12	0.019
146720	Soil	0.6	12.8	16.1	30	0.1	8.8	3.5	140	1.31	3.8	0.8	<0.5	8.1	12	<0.1	0.5	0.1	25	0.10	0.017
146721	Soil	1.0	11.4	37.9	28	0.2	8.3	3.6	123	1.43	8.0	0.8	<0.5	7.7	10	0.1	0.9	0.2	23	0.06	0.012
146722	Soil	1.0	18.5	29.2	30	<0.1	5.9	1.9	100	1.01	11.2	0.9	7.4	11.2	8	0.1	0.8	0.2	13	0.06	0.006
146723	Soil	1.7	38.0	23.2	90	<0.1	34.5	10.7	382	3.22	30.7	1.5	<0.5	10.0	7	0.2	0.8	0.2	23	0.08	0.026
146724	Soil	1.2	36.4	35.9	92	0.2	22.6	7.6	384	2.22	28.1	1.4	1.4	14.6	13	0.2	0.9	0.2	16	0.23	0.043
146725	Soil	0.7	17.5	14.8	44	<0.1	12.3	5.2	170	1.63	10.7	1.1	0.7	5.0	16	<0.1	0.6	0.2	31	0.19	0.014
146726	Soil	1.2	18.3	32.6	192	0.1	13.8	9.3	287	2.33	18.7	0.7	<0.5	5.8	17	0.3	0.9	0.3	41	0.14	0.014
146727	Soil	1.8	40.2	46.7	347	0.3	12.5	5.7	362	2.83	24.3	1.0	1.6	3.9	26	1.4	1.3	0.4	46	0.25	0.024
146728	Soil	1.0	25.7	11.6	101	<0.1	16.0	12.3	300	2.72	7.7	0.8	2.2	4.4	21	0.1	0.5	0.1	47	0.30	0.035
146729	Soil	0.7	10.6	7.5	46	<0.1	9.3	4.4	142	1.55	3.8	0.5	0.7	3.2	15	<0.1	0.6	<0.1	31	0.22	0.042
146730	Soil	0.8	23.4	13.6	55	0.1	15.3	6.4	208	2.09	5.3	1.5	0.6	5.9	26	0.1	0.6	0.1	41	0.30	0.039
146731	Soil	0.7	22.0	12.4	53	<0.1	15.0	6.1	209	1.95	4.2	1.4	<0.5	7.2	22	0.1	0.6	0.1	36	0.26	0.032
146732	Soil	0.6	20.7	10.5	46	0.1	15.0	6.2	207	1.80	4.9	1.1	<0.5	6.2	24	0.1	0.6	0.2	34	0.30	0.039
146733	Soil	0.8	24.1	12.5	78	0.2	20.5	7.9	313	2.57	3.3	1.7	3.1	7.0	26	0.2	0.8	0.2	41	0.38	0.042
146734	Soil	0.6	16.9	13.2	50	<0.1	14.5	5.7	205	1.90	4.1	1.0	<0.5	6.5	21	<0.1	0.5	0.1	32	0.26	0.034
146735	Soil	0.8	18.7	14.4	52	<0.1	14.7	5.9	204	2.15	5.3	0.9	<0.5	9.3	17	0.1	0.7	0.2	38	0.16	0.019
146736	Soil	1.1	13.6	14.0	55	0.3	8.9	4.6	217	2.48	6.2	1.0	<0.5	5.3	9	0.1	0.8	0.2	40	0.06	0.023
146737	Soil	0.6	14.0	15.9	77	<0.1	9.6	5.1	319	2.72	1.3	1.0	<0.5	9.3	6	<0.1	0.6	0.1	24	0.04	0.017
146738	Soil	1.0	11.9	26.2	112	0.1	17.1	8.5	1044	3.55	0.6	1.8	2.9	14.5	9	0.2	0.5	<0.1	25	0.09	0.039
146739	Soil	0.9	10.7	13.5	48	0.1	10.7	4.8	183	1.99	4.8	0.4	0.7	3.5	9	<0.1	0.5	0.2	43	0.07	0.018
146740	Soil	0.5	9.1	11.3	33	<0.1	8.2	2.9	143	1.26	0.9	0.7	<0.5	8.2	4	<0.1	0.5	0.2	15	0.02	0.007

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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	
146711	Soil	35	8	0.29	373	0.018	<1	0.88	0.005	0.14	<0.1	0.01	2.1	0.2	<0.05	3	<0.5	<0.2
146712	Soil	35	20	0.36	480	0.038	<1	1.21	0.010	0.12	0.2	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
146713	Soil	29	28	0.49	642	0.058	<1	1.58	0.020	0.08	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
146714	Soil	43	7	0.07	265	0.009	<1	0.40	0.004	0.11	<0.1	<0.01	2.0	<0.1	<0.05	1	<0.5	<0.2
146715	Soil	23	25	0.44	474	0.052	<1	1.31	0.012	0.09	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
146716	Soil	19	34	0.62	442	0.058	<1	1.43	0.010	0.07	0.2	0.03	4.4	0.2	0.05	5	1.0	<0.2
146717	Soil	16	17	0.25	232	0.044	<1	0.86	0.007	0.05	0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
146718	Soil	24	25	0.37	421	0.059	<1	1.38	0.009	0.05	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
146719	Soil	21	19	0.32	306	0.048	<1	0.99	0.008	0.07	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
146720	Soil	32	14	0.25	299	0.040	<1	0.74	0.009	0.07	0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
146721	Soil	25	13	0.19	297	0.027	<1	0.80	0.007	0.08	0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
146722	Soil	31	8	0.11	312	0.014	<1	0.49	0.006	0.07	<0.1	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
146723	Soil	15	29	0.71	242	0.011	<1	1.38	0.004	0.05	<0.1	<0.01	2.7	<0.1	<0.05	3	1.2	<0.2
146724	Soil	35	14	0.44	213	0.015	<1	0.78	0.008	0.06	<0.1	0.04	2.8	<0.1	<0.05	2	<0.5	<0.2
146725	Soil	15	18	0.31	290	0.034	<1	0.97	0.007	0.05	0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
146726	Soil	14	23	0.38	250	0.048	<1	1.24	0.009	0.09	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
146727	Soil	22	23	0.56	389	0.034	<1	1.36	0.007	0.12	<0.1	0.02	4.4	0.1	<0.05	5	0.9	<0.2
146728	Soil	17	23	0.67	265	0.070	<1	1.65	0.011	0.13	0.2	0.02	3.2	0.1	<0.05	4	0.6	<0.2
146729	Soil	10	15	0.38	158	0.043	<1	0.85	0.006	0.05	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
146730	Soil	23	22	0.44	362	0.065	<1	1.37	0.011	0.07	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
146731	Soil	27	20	0.42	379	0.065	<1	1.18	0.014	0.11	0.2	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
146732	Soil	23	18	0.36	395	0.052	<1	1.13	0.011	0.06	0.2	0.05	3.5	0.1	<0.05	4	0.7	<0.2
146733	Soil	31	25	0.65	410	0.091	<1	1.55	0.010	0.31	0.2	0.05	4.8	0.2	<0.05	6	<0.5	<0.2
146734	Soil	30	20	0.44	310	0.050	<1	1.13	0.010	0.08	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
146735	Soil	28	22	0.38	282	0.053	<1	1.42	0.008	0.09	0.1	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
146736	Soil	10	15	0.36	158	0.061	<1	1.30	0.005	0.27	<0.1	0.01	3.5	0.3	<0.05	6	<0.5	<0.2
146737	Soil	14	14	0.59	171	0.062	<1	1.59	0.004	0.45	<0.1	0.01	4.6	0.5	<0.05	6	0.7	<0.2
146738	Soil	25	11	0.61	471	0.050	<1	1.76	0.004	0.41	<0.1	<0.01	6.2	0.4	<0.05	7	1.0	<0.2
146739	Soil	12	20	0.29	354	0.044	<1	1.38	0.007	0.08	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
146740	Soil	11	10	0.34	115	0.031	<1	0.88	0.003	0.08	<0.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2

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 Report Date: November 26, 2011

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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	
146741	Soil	0.7	12.0	12.1	54	0.2	8.8	4.8	278	2.14	2.7	0.7	<0.5	6.5	9	<0.1	0.4	0.1	26	0.07	0.016
146742	Soil	0.8	8.5	18.7	48	0.2	6.3	3.2	261	1.44	1.8	0.9	<0.5	6.1	11	<0.1	0.5	0.2	18	0.09	0.017
146743	Soil	0.5	22.4	30.5	99	0.1	10.0	4.9	273	1.90	2.8	0.8	0.7	7.7	10	0.1	0.4	0.1	23	0.08	0.016
146744	Soil	0.9	18.1	29.2	67	0.1	17.5	6.9	337	2.29	5.7	0.7	1.7	5.8	21	0.2	0.7	0.2	48	0.18	0.017
146745	Soil	0.8	18.3	24.5	55	<0.1	12.7	5.3	162	1.80	3.8	1.0	<0.5	6.8	18	<0.1	0.6	0.1	33	0.18	0.025
146746	Soil	0.7	28.9	9.5	44	0.1	15.4	7.8	249	2.06	7.8	1.9	6.7	5.3	20	<0.1	0.5	0.2	42	0.20	0.029
146747	Soil	0.9	32.4	11.1	45	0.1	13.0	6.9	198	2.15	10.8	2.0	1.7	4.8	22	<0.1	0.5	0.4	46	0.20	0.023
146748	Soil	3.5	20.6	13.0	45	0.1	16.7	10.2	615	2.35	7.3	1.6	6.6	3.3	45	0.2	0.4	0.2	53	0.45	0.082
146749	Soil	3.2	75.2	14.8	120	0.2	27.0	19.8	335	4.07	7.4	1.6	144.4	5.4	49	0.2	0.5	0.4	84	0.37	0.041
146750	Soil	4.2	163.7	15.5	91	0.1	21.0	7.1	309	3.84	9.0	4.4	18.7	7.9	90	0.1	0.5	0.5	76	0.35	0.052
146751	Soil	1.7	61.8	16.4	72	0.1	27.2	10.4	398	2.86	12.1	1.0	15.1	5.7	42	<0.1	0.9	0.3	54	0.36	0.056
146752	Soil	0.9	29.4	9.3	46	<0.1	22.0	7.5	233	2.40	9.6	1.3	<0.5	5.0	26	<0.1	0.7	0.2	49	0.22	0.018
146753	Soil	0.6	46.5	8.9	56	<0.1	3.7	2.5	146	1.02	2.5	1.4	5.7	8.7	12	<0.1	0.2	0.2	12	0.07	0.005
146754	Soil	1.6	26.2	11.8	47	0.1	18.2	7.8	211	2.31	9.4	2.5	2.9	6.1	23	0.1	0.5	0.2	53	0.16	0.018
146755	Soil	1.0	24.0	9.7	36	<0.1	12.0	4.0	176	1.65	6.6	3.3	3.8	9.9	21	<0.1	0.6	0.2	34	0.13	0.008
146756	Soil	0.8	13.4	8.1	24	<0.1	8.1	2.9	114	1.22	5.9	1.5	3.0	12.3	28	<0.1	0.4	0.2	23	0.15	0.009
146757	Soil	1.3	16.9	10.9	37	<0.1	11.7	6.2	181	1.94	10.5	2.9	2.0	11.5	30	<0.1	0.5	0.3	35	0.22	0.017
146758	Soil	0.8	17.7	10.6	36	<0.1	12.9	5.3	168	1.72	7.6	1.1	0.8	3.4	25	0.1	0.5	0.2	39	0.27	0.031
146759	Soil	1.0	19.7	11.8	39	<0.1	15.0	6.7	269	1.95	10.0	1.6	1.1	5.9	28	0.1	0.5	0.2	43	0.34	0.034
146760	Soil	0.8	12.6	9.7	36	<0.1	11.7	5.8	180	1.72	7.8	1.1	2.4	5.2	22	<0.1	0.5	0.2	38	0.27	0.035
146761	Soil	0.9	19.1	11.9	50	<0.1	15.9	6.6	195	1.98	8.1	1.3	2.1	5.9	34	0.1	0.5	0.2	40	0.34	0.044
146762	Soil	0.8	17.4	14.3	49	0.2	13.9	6.6	301	1.77	6.8	2.0	1.4	4.6	30	0.3	0.5	0.2	35	0.37	0.042
146763	Soil	1.2	15.1	18.5	41	0.2	11.7	5.8	213	1.63	7.7	2.6	2.6	5.4	28	0.1	0.5	0.2	34	0.34	0.037
146764	Soil	1.0	23.4	17.8	53	0.2	14.7	4.7	184	1.71	10.4	1.9	3.8	7.7	22	0.1	0.6	0.2	33	0.27	0.035
146765	Soil	1.1	27.5	16.2	57	0.2	16.1	7.8	311	2.07	10.0	2.0	2.9	6.3	22	0.1	0.6	0.2	38	0.31	0.034
146766	Soil	1.0	33.9	18.3	71	0.2	18.4	8.9	357	2.47	10.9	1.6	3.2	6.9	25	0.2	0.6	0.3	47	0.38	0.036
146767	Soil	0.9	43.6	9.9	72	0.2	24.8	13.0	499	2.83	8.4	2.0	1.6	3.4	36	0.2	1.4	0.1	55	0.64	0.038
146768	Soil	0.9	48.9	15.4	88	0.1	19.7	10.4	366	2.75	9.1	1.0	2.0	6.1	25	0.2	0.7	0.2	55	0.36	0.028
146769	Soil	1.0	29.6	14.9	64	0.1	23.2	9.3	376	2.43	9.5	1.0	6.3	6.2	27	0.1	0.7	0.2	48	0.37	0.048
146770	Soil	0.6	22.7	13.4	54	<0.1	16.6	8.3	248	2.17	6.7	1.4	2.2	8.1	20	<0.1	0.7	0.1	43	0.25	0.041

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Project: QUARTZ
Report Date: November 26, 2011

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CERTIFICATE OF ANALYSIS

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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	
146741	Soil	11	13	0.46	421	0.052	<1	1.19	0.006	0.20	0.1	<0.01	3.7	0.2	<0.05	5	<0.5	<0.2
146742	Soil	28	8	0.32	375	0.037	<1	0.72	0.004	0.21	<0.1	<0.01	2.3	0.2	<0.05	3	<0.5	<0.2
146743	Soil	20	12	0.49	376	0.051	<1	1.15	0.006	0.18	<0.1	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
146744	Soil	17	24	0.50	360	0.089	<1	1.46	0.012	0.10	0.1	0.02	2.9	<0.1	<0.05	4	0.5	<0.2
146745	Soil	22	18	0.41	299	0.055	<1	1.02	0.011	0.08	0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
146746	Soil	19	23	0.46	306	0.067	<1	1.20	0.011	0.06	0.2	0.01	3.6	<0.1	<0.05	4	0.6	<0.2
146747	Soil	18	21	0.48	352	0.055	<1	1.25	0.010	0.07	0.1	0.02	3.3	0.1	<0.05	4	0.6	<0.2
146748	Soil	15	31	0.58	325	0.054	<1	1.25	0.010	0.08	0.2	0.02	4.6	0.2	0.06	4	0.6	<0.2
146749	Soil	26	24	1.08	509	0.076	<1	1.95	0.012	0.39	<0.1	0.02	9.2	0.5	<0.05	7	1.0	0.2
146750	Soil	39	49	1.82	622	0.057	<1	2.41	0.009	0.32	0.2	0.02	8.0	0.8	0.10	8	1.1	<0.2
146751	Soil	19	36	0.76	414	0.070	<1	1.64	0.017	0.10	0.7	0.03	5.3	0.3	<0.05	5	0.8	<0.2
146752	Soil	18	30	0.48	336	0.063	<1	1.45	0.015	0.05	0.2	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
146753	Soil	12	6	0.63	215	0.019	<1	0.86	0.003	0.07	<0.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
146754	Soil	27	26	0.46	415	0.049	1	1.57	0.013	0.06	0.2	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
146755	Soil	39	17	0.33	355	0.047	<1	1.08	0.009	0.08	0.7	0.03	4.0	0.1	<0.05	3	<0.5	<0.2
146756	Soil	32	10	0.23	303	0.023	<1	0.80	0.006	0.08	0.1	0.01	2.8	0.1	<0.05	2	<0.5	<0.2
146757	Soil	30	17	0.36	333	0.049	<1	1.12	0.015	0.09	0.2	0.01	3.5	0.1	<0.05	3	<0.5	<0.2
146758	Soil	17	18	0.29	336	0.043	<1	1.09	0.012	0.05	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
146759	Soil	20	21	0.32	415	0.054	<1	1.20	0.012	0.05	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
146760	Soil	15	18	0.30	294	0.045	<1	1.01	0.010	0.05	0.2	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
146761	Soil	20	24	0.39	424	0.054	<1	1.28	0.012	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
146762	Soil	23	19	0.33	475	0.041	<1	1.15	0.010	0.06	0.2	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
146763	Soil	24	18	0.28	433	0.037	<1	1.09	0.009	0.06	0.2	0.04	2.4	<0.1	<0.05	3	0.5	<0.2
146764	Soil	27	20	0.30	407	0.040	1	1.09	0.013	0.07	0.2	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
146765	Soil	23	20	0.41	369	0.047	<1	1.14	0.011	0.06	0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
146766	Soil	26	23	0.48	395	0.053	<1	1.33	0.012	0.07	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
146767	Soil	13	27	0.84	438	0.077	1	1.69	0.013	0.10	<0.1	0.04	3.8	0.1	<0.05	5	<0.5	<0.2
146768	Soil	21	26	0.65	357	0.071	<1	1.62	0.010	0.12	0.1	0.03	4.9	0.1	<0.05	5	<0.5	<0.2
146769	Soil	20	26	0.49	371	0.063	<1	1.33	0.015	0.07	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
146770	Soil	28	20	0.44	385	0.059	<1	1.14	0.010	0.12	0.2	0.04	4.8	0.1	<0.05	4	<0.5	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	
146771	Soil		0.7	13.3	28.4	59	<0.1	10.2	4.6	199	1.68	4.3	1.1	1.2	14.8	13	0.1	0.6	0.1	30	0.10	0.014
146772	Soil		0.8	10.1	21.0	71	0.1	11.4	4.8	226	1.89	4.1	0.7	0.7	7.5	11	0.1	0.8	0.2	30	0.13	0.019
146773	Soil		1.2	14.9	21.7	70	0.1	8.4	4.9	232	2.05	6.3	0.5	<0.5	4.6	7	0.4	1.4	0.2	45	0.05	0.028
146774	Soil		1.4	15.5	66.0	81	0.2	7.3	5.0	128	1.66	9.3	0.8	1.6	6.1	8	0.2	5.2	0.2	33	0.04	0.020
146775	Soil		1.9	99.2	154.2	304	0.8	4.7	3.6	144	1.45	12.7	1.3	1.9	10.9	11	0.6	54.2	0.5	10	0.03	0.016
146776	Soil		0.3	6.6	16.8	41	<0.1	5.4	3.1	205	1.23	1.9	0.6	0.7	13.5	8	<0.1	0.5	0.1	13	0.09	0.015
146777	Soil		0.9	16.3	22.3	77	<0.1	4.7	2.0	225	1.06	4.8	2.2	1.6	10.4	7	0.1	0.6	0.3	14	0.07	0.016
146778	Soil		0.4	8.8	19.9	81	<0.1	6.9	4.2	252	1.23	3.1	1.2	<0.5	9.1	4	0.1	0.3	0.3	16	0.04	0.013
146779	Soil		0.3	6.1	7.7	27	<0.1	4.2	1.8	109	0.88	3.1	1.1	<0.5	10.6	2	<0.1	0.3	<0.1	11	0.01	0.006
146780	Soil		0.2	6.5	9.9	34	<0.1	4.6	2.9	153	1.04	1.7	1.1	<0.5	11.8	7	<0.1	0.2	0.2	14	0.06	0.024
146781	Soil		0.5	8.0	15.2	36	<0.1	5.1	2.4	138	1.15	2.9	1.3	1.9	11.5	5	<0.1	0.4	0.1	17	0.04	0.009
146782	Soil		0.5	8.4	17.8	42	<0.1	5.3	3.5	187	1.47	2.9	1.8	<0.5	15.5	5	<0.1	0.2	0.2	14	0.05	0.019
133287	Soil		0.9	26.4	9.6	70	0.1	24.4	9.2	375	2.25	9.4	0.7	1.1	3.1	38	0.4	0.7	0.1	49	0.79	0.067
133288	Soil		1.0	20.7	10.1	52	0.1	18.6	7.7	371	2.04	9.0	2.0	5.8	4.3	34	0.1	0.6	0.1	46	0.59	0.061
133289	Soil		0.7	22.9	7.7	56	<0.1	20.9	8.9	379	2.04	12.4	0.7	3.2	3.9	66	0.3	0.8	0.1	45	1.66	0.080
133290	Soil		0.7	27.1	8.9	59	<0.1	23.1	9.6	416	2.26	12.7	0.8	1.7	4.1	68	0.4	0.8	0.1	49	1.75	0.085
133291	Soil		1.2	35.0	10.5	72	0.1	28.6	10.1	401	2.41	12.4	0.8	3.5	3.9	48	0.3	1.0	0.2	53	1.25	0.080
133292	Soil		1.1	30.9	9.8	71	0.1	26.2	9.8	440	2.25	11.3	0.6	2.1	4.1	54	0.4	0.9	0.1	48	1.42	0.076
133293	Soil		1.0	32.9	10.3	71	0.1	25.9	8.7	409	2.05	10.5	0.7	3.6	4.1	47	0.5	0.8	0.2	39	1.16	0.075
133294	Soil		0.8	34.2	13.4	65	0.2	25.2	9.2	335	2.32	10.5	1.4	4.3	5.6	39	0.2	0.8	0.2	48	0.55	0.062
133295	Soil		0.9	27.5	13.3	63	0.1	21.7	9.4	434	2.24	10.3	1.2	2.4	5.5	41	0.4	0.7	0.2	48	0.57	0.058
133296	Soil		0.8	28.9	16.4	56	0.2	19.8	8.1	394	2.09	9.0	2.7	2.1	6.7	42	0.2	0.7	0.2	41	0.57	0.050
133297	Soil		0.7	34.8	16.6	84	0.1	26.3	9.7	396	2.30	13.9	1.0	3.5	5.3	36	0.5	1.0	0.2	39	0.59	0.068
133298	Soil		0.8	18.8	36.4	57	0.1	9.4	6.3	292	1.49	6.0	1.7	1.1	10.6	20	0.2	0.6	0.2	24	0.23	0.038
133299	Soil		0.8	25.8	10.1	53	0.1	22.1	8.6	356	2.01	12.6	0.6	4.7	4.7	52	0.2	0.8	0.2	42	1.18	0.085
133300	Soil		1.1	33.3	21.6	72	0.1	22.2	8.5	388	2.18	10.6	1.6	2.8	8.4	33	0.2	0.8	0.3	41	0.34	0.052
133301	Soil		0.6	15.5	19.3	47	0.1	11.6	4.1	161	1.43	7.2	3.0	4.8	10.0	23	0.2	0.5	0.2	27	0.23	0.021
133302	Soil		0.7	20.8	18.2	126	0.1	12.4	7.7	451	2.28	8.2	5.5	3.1	18.0	16	1.5	0.8	0.1	18	0.13	0.049
133303	Soil		1.3	66.2	26.4	232	0.3	22.6	14.3	1018	3.51	22.6	3.4	14.4	7.0	46	1.2	0.7	0.6	48	0.44	0.098
133304	Soil		1.5	42.3	73.2	201	0.6	19.7	7.9	674	3.18	138.5	6.4	4.0	13.7	47	1.2	5.6	1.1	27	0.37	0.075

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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	
146771	Soil	48	16	0.32	285	0.056	<1	0.99	0.008	0.17	0.1	0.02	3.9	0.2	<0.05	4	<0.5	<0.2
146772	Soil	16	14	0.44	277	0.055	<1	1.02	0.011	0.15	0.1	0.03	3.1	0.2	<0.05	4	<0.5	<0.2
146773	Soil	13	16	0.23	195	0.035	<1	0.96	0.006	0.08	0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
146774	Soil	23	14	0.17	349	0.013	1	1.10	0.005	0.08	0.1	0.32	2.2	<0.1	<0.05	3	<0.5	<0.2
146775	Soil	31	5	0.06	404	0.005	7	0.44	0.002	0.11	0.3	6.31	2.9	<0.1	<0.05	1	<0.5	<0.2
146776	Soil	39	6	0.47	316	0.032	<1	0.76	0.005	0.17	<0.1	0.04	2.8	0.3	<0.05	3	<0.5	<0.2
146777	Soil	44	8	0.20	247	0.022	<1	0.65	0.004	0.18	<0.1	0.03	1.9	0.2	<0.05	2	<0.5	<0.2
146778	Soil	45	9	0.40	121	0.030	<1	0.72	0.003	0.28	<0.1	<0.01	3.0	0.3	<0.05	3	<0.5	<0.2
146779	Soil	28	5	0.19	90	0.034	<1	0.54	0.003	0.18	<0.1	<0.01	1.9	0.2	<0.05	2	<0.5	<0.2
146780	Soil	56	5	0.25	85	0.036	<1	0.57	0.003	0.23	<0.1	<0.01	1.7	0.2	<0.05	2	<0.5	<0.2
146781	Soil	45	8	0.21	134	0.034	<1	0.66	0.004	0.14	0.1	<0.01	2.3	0.2	<0.05	2	<0.5	<0.2
146782	Soil	55	7	0.39	138	0.043	<1	0.90	0.004	0.34	<0.1	<0.01	2.7	0.4	<0.05	3	<0.5	<0.2
133287	Soil	12	24	0.53	352	0.055	2	1.16	0.021	0.06	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
133288	Soil	19	22	0.44	325	0.051	1	1.08	0.019	0.05	0.3	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
133289	Soil	11	19	0.74	262	0.058	2	0.89	0.037	0.07	0.2	0.02	2.8	<0.1	0.09	3	<0.5	<0.2
133290	Soil	12	22	0.80	289	0.065	2	0.97	0.032	0.08	0.2	0.03	3.2	<0.1	0.07	3	<0.5	<0.2
133291	Soil	13	24	0.81	384	0.064	2	1.19	0.027	0.07	0.2	0.03	2.8	<0.1	0.12	3	<0.5	<0.2
133292	Soil	13	23	0.85	349	0.066	2	1.11	0.024	0.08	0.2	0.03	2.8	<0.1	0.06	3	<0.5	<0.2
133293	Soil	13	22	0.62	326	0.056	2	0.90	0.020	0.06	0.2	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
133294	Soil	19	27	0.52	390	0.066	2	1.29	0.023	0.06	0.2	0.04	3.7	<0.1	<0.05	4	0.6	<0.2
133295	Soil	18	26	0.50	379	0.065	2	1.33	0.023	0.06	0.2	0.02	3.9	<0.1	0.05	4	0.6	<0.2
133296	Soil	25	23	0.45	451	0.053	1	1.25	0.020	0.07	0.2	0.04	4.1	<0.1	<0.05	4	0.7	<0.2
133297	Soil	17	23	0.51	378	0.061	2	1.11	0.020	0.06	0.2	0.04	3.3	<0.1	0.07	3	1.2	<0.2
133298	Soil	31	13	0.28	369	0.039	<1	0.76	0.008	0.11	0.1	0.03	3.2	<0.1	<0.05	3	0.7	<0.2
133299	Soil	14	21	0.63	307	0.061	2	0.97	0.023	0.05	0.2	0.03	2.9	<0.1	0.05	3	<0.5	<0.2
133300	Soil	26	24	0.44	416	0.061	1	1.21	0.017	0.08	0.2	0.05	4.0	<0.1	<0.05	4	0.7	<0.2
133301	Soil	42	18	0.28	403	0.050	<1	0.86	0.011	0.08	0.1	0.03	4.1	<0.1	<0.05	3	0.6	<0.2
133302	Soil	49	13	0.30	248	0.018	1	0.87	0.005	0.30	0.1	0.07	8.9	0.3	<0.05	3	0.6	<0.2
133303	Soil	25	31	1.02	392	0.050	<1	1.54	0.015	0.08	<0.1	0.07	6.2	0.1	<0.05	5	0.6	<0.2
133304	Soil	45	18	0.46	384	0.033	1	1.05	0.009	0.26	0.1	0.09	6.7	0.2	0.06	4	1.3	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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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
133305	Soil	1.3	12.9	29.1	74	0.1	8.0	4.3	306	1.72	8.3	1.8	1.5	12.2	9	0.4	0.7	0.2	13	0.05	0.019
133306	Soil	1.2	41.7	64.6	95	0.5	11.6	3.6	95	1.93	140.6	1.7	1.0	10.3	9	0.4	4.9	1.0	24	0.06	0.016
133307	Soil	1.4	64.7	77.7	195	0.2	12.9	4.1	80	2.46	275.3	2.8	<0.5	13.2	6	0.8	6.0	0.7	20	0.03	0.019
133308	Soil	1.2	48.6	32.7	144	0.2	22.4	10.9	583	2.37	58.9	2.7	1.7	11.9	25	0.8	1.3	0.3	37	0.35	0.043
133309	Soil	1.9	40.3	21.6	188	0.2	25.4	12.7	1198	2.46	54.1	1.3	4.3	7.1	54	1.1	1.0	0.4	41	1.30	0.068
133310	Soil	0.8	48.8	12.5	69	0.2	26.1	9.6	360	2.12	16.4	0.9	2.3	4.6	38	0.5	0.8	0.2	46	0.54	0.075
133311	Soil	1.1	26.5	19.4	92	0.2	18.8	9.3	477	1.98	24.4	1.5	1.4	4.2	31	0.7	0.8	0.2	39	0.42	0.062
133312	Soil	1.2	27.5	20.2	91	0.2	19.2	9.9	503	2.25	24.3	1.5	7.1	4.1	31	0.5	0.9	0.2	45	0.42	0.063
133313	Soil	1.2	45.1	15.5	165	0.1	29.4	12.1	645	3.44	35.0	1.6	1.4	6.4	30	0.8	1.5	0.2	51	0.52	0.106
133314	Soil	1.1	31.1	17.0	72	0.1	21.3	9.5	350	2.21	16.5	1.2	2.8	4.8	35	0.2	0.9	0.2	48	0.47	0.055
133315	Soil	0.8	34.2	20.2	88	0.2	24.3	10.8	310	2.39	20.0	2.1	10.6	4.9	37	0.6	0.8	0.2	47	0.43	0.064
133316	Soil	1.4	29.6	20.6	92	0.1	18.5	9.0	275	2.60	28.2	1.7	0.8	5.9	34	0.4	1.4	0.2	46	0.43	0.069
133317	Soil	1.0	23.1	20.2	73	0.1	15.3	7.5	229	2.07	36.1	1.4	2.2	5.5	24	0.2	1.1	0.2	43	0.30	0.040
133318	Soil	0.9	20.6	20.8	78	<0.1	15.1	7.0	220	1.93	20.7	1.5	1.0	7.7	24	0.3	0.9	0.2	36	0.33	0.049
133319	Soil	1.0	17.7	27.8	70	<0.1	13.4	6.1	207	1.62	15.3	1.6	2.0	10.0	24	0.3	0.8	0.2	32	0.31	0.037
133320	Soil	0.9	23.1	16.8	56	0.1	14.7	6.2	209	2.03	7.3	1.4	0.8	8.2	23	0.2	0.6	0.2	39	0.35	0.036
133321	Soil	1.0	35.9	10.6	71	0.1	27.4	10.2	396	2.22	12.9	0.6	1.5	4.2	63	0.4	1.0	0.2	46	1.65	0.078
133322	Soil	0.9	15.4	13.6	26	<0.1	7.9	3.9	140	1.53	9.4	2.3	5.3	15.9	8	<0.1	0.7	0.6	17	0.07	0.010
133323	Soil	0.8	36.3	10.9	27	<0.1	8.1	4.0	115	1.57	10.0	3.7	3.6	14.6	10	<0.1	0.5	0.6	18	0.09	0.014
133324	Soil	2.6	321.9	18.7	110	0.5	19.2	9.5	475	3.91	33.6	7.0	18.2	12.9	35	0.5	0.8	1.4	25	0.31	0.072
133325	Soil	2.3	74.0	18.3	61	0.1	19.1	8.9	299	2.68	21.7	2.0	4.6	7.8	34	0.1	0.9	0.5	49	0.27	0.033
133326	Soil	1.1	21.0	15.9	40	<0.1	10.5	4.1	132	1.73	25.1	1.8	3.5	12.5	20	<0.1	0.8	0.4	27	0.16	0.020
133327	Soil	0.9	18.7	16.4	22	<0.1	10.6	3.7	216	1.20	6.0	3.7	18.3	19.9	19	<0.1	0.5	0.4	14	0.16	0.013
133328	Soil	0.8	22.4	14.8	40	<0.1	12.9	4.0	144	1.42	6.5	0.8	1.3	8.3	16	<0.1	0.5	0.3	27	0.12	0.007
133329	Soil	0.9	28.2	12.2	42	<0.1	18.6	6.8	239	2.01	9.4	0.8	6.6	7.1	22	<0.1	0.7	0.3	38	0.20	0.018
133330	Soil	0.7	15.3	12.1	34	<0.1	8.2	3.1	139	1.28	5.4	0.8	3.1	9.6	12	<0.1	0.5	0.3	22	0.08	0.006
133331	Soil	1.5	25.3	16.9	50	<0.1	17.9	6.4	244	2.40	10.3	1.0	4.9	9.3	16	<0.1	0.8	0.3	44	0.13	0.013
133332	Soil	0.7	12.0	9.4	34	<0.1	9.6	4.3	142	1.56	5.6	0.6	2.5	5.9	10	<0.1	0.5	0.2	30	0.08	0.011
133333	Soil	0.7	11.5	9.7	32	<0.1	8.1	3.5	122	1.43	5.1	0.8	5.9	6.2	9	<0.1	0.4	0.2	25	0.07	0.009
133334	Soil	0.8	12.6	10.3	50	<0.1	8.3	3.7	276	1.77	7.1	1.7	2.2	8.2	37	<0.1	0.5	0.2	21	0.19	0.012

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Project: QUARTZ
Report Date: November 26, 2011

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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	
133305	Soil	28	11	0.13	383	0.005	1	0.75	0.003	0.13	<0.1	0.04	3.8	0.1	<0.05	2	<0.5	<0.2
133306	Soil	21	14	0.19	230	0.013	<1	1.08	0.004	0.07	<0.1	0.02	1.9	<0.1	<0.05	3	0.6	<0.2
133307	Soil	38	10	0.10	144	0.014	<1	0.80	0.006	0.07	<0.1	0.02	2.2	<0.1	<0.05	2	0.7	<0.2
133308	Soil	61	21	0.45	384	0.051	<1	1.16	0.013	0.13	<0.1	0.06	5.6	0.2	<0.05	3	0.9	<0.2
133309	Soil	18	23	0.80	470	0.045	1	1.15	0.015	0.07	0.2	0.05	3.4	<0.1	0.06	3	0.7	<0.2
133310	Soil	18	23	0.45	335	0.057	2	1.05	0.019	0.05	0.3	0.03	3.2	<0.1	<0.05	3	0.7	<0.2
133311	Soil	20	22	0.41	362	0.042	1	1.11	0.012	0.05	0.3	0.05	2.9	<0.1	<0.05	3	0.6	<0.2
133312	Soil	20	24	0.46	347	0.048	1	1.19	0.014	0.06	0.3	0.04	3.2	<0.1	0.06	3	0.6	<0.2
133313	Soil	21	32	0.90	288	0.029	<1	1.52	0.018	0.07	0.1	0.04	4.6	<0.1	<0.05	4	0.5	<0.2
133314	Soil	18	25	0.50	363	0.060	1	1.26	0.019	0.06	0.2	0.04	3.7	<0.1	<0.05	4	0.5	<0.2
133315	Soil	26	27	0.57	472	0.064	1	1.46	0.014	0.10	0.2	0.06	4.2	<0.1	0.06	4	0.8	<0.2
133316	Soil	23	24	0.48	368	0.057	1	1.15	0.016	0.09	0.3	0.05	3.7	<0.1	0.05	3	0.7	<0.2
133317	Soil	18	23	0.39	267	0.054	1	1.21	0.012	0.05	0.2	0.04	3.0	<0.1	<0.05	4	0.7	<0.2
133318	Soil	20	23	0.38	351	0.050	<1	1.08	0.012	0.07	0.2	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
133319	Soil	27	22	0.32	301	0.041	<1	1.00	0.011	0.07	0.2	0.04	3.1	<0.1	<0.05	3	0.6	<0.2
133320	Soil	31	23	0.42	306	0.070	<1	1.23	0.015	0.09	0.2	0.03	3.9	0.1	<0.05	4	<0.5	<0.2
133321	Soil	13	25	0.71	374	0.068	2	1.11	0.024	0.06	0.2	0.03	3.3	<0.1	0.05	3	<0.5	<0.2
133322	Soil	34	12	0.26	200	0.025	<1	0.78	0.007	0.12	0.1	<0.01	2.8	0.1	<0.05	3	0.6	0.2
133323	Soil	36	12	0.26	221	0.027	<1	0.72	0.009	0.09	0.2	0.01	3.3	0.1	<0.05	3	<0.5	0.2
133324	Soil	39	16	1.39	221	0.017	<1	1.93	0.004	0.15	<0.1	0.02	4.7	0.3	<0.05	6	1.9	0.3
133325	Soil	27	31	0.55	303	0.057	<1	1.58	0.012	0.07	0.2	0.02	4.3	0.2	<0.05	5	0.7	<0.2
133326	Soil	29	15	0.33	208	0.048	<1	0.91	0.008	0.08	0.2	0.01	3.5	0.2	<0.05	3	0.7	<0.2
133327	Soil	58	13	0.24	236	0.013	<1	0.87	0.006	0.10	0.2	0.01	4.0	0.2	<0.05	3	0.7	<0.2
133328	Soil	16	19	0.28	246	0.052	<1	0.93	0.008	0.10	0.1	0.02	4.1	0.1	<0.05	3	<0.5	<0.2
133329	Soil	22	23	0.36	442	0.047	<1	1.12	0.009	0.06	0.1	0.03	4.0	0.1	<0.05	4	<0.5	<0.2
133330	Soil	15	14	0.20	247	0.032	<1	0.77	0.005	0.07	<0.1	0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
133331	Soil	36	28	0.43	420	0.046	<1	1.54	0.009	0.07	0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
133332	Soil	19	16	0.28	199	0.043	<1	0.83	0.006	0.05	0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
133333	Soil	13	15	0.23	168	0.037	<1	0.82	0.006	0.06	0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
133334	Soil	15	10	0.30	226	0.050	<1	0.87	0.006	0.24	0.1	0.02	3.0	0.2	<0.05	4	<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	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	
133335	Soil		1.5	17.3	15.7	39	<0.1	14.7	7.4	298	2.00	8.8	4.0	2.5	6.7	60	0.1	0.6	0.2	38	0.34	0.016
133336	Soil		1.1	17.2	12.4	40	0.1	12.6	7.0	319	1.70	6.8	1.5	12.1	4.9	28	0.1	0.5	0.2	33	0.33	0.043
133337	Soil		0.8	16.5	10.8	41	<0.1	12.8	5.8	193	1.82	7.6	1.4	4.9	4.2	28	0.1	0.5	0.2	37	0.28	0.041
133338	Soil		0.8	10.6	16.6	39	0.1	9.7	4.3	121	1.50	5.8	1.4	2.5	4.9	23	0.1	0.5	0.2	30	0.27	0.031
133339	Soil		1.0	19.6	21.3	43	0.2	11.2	4.4	128	1.50	9.1	2.0	2.7	6.7	20	0.1	0.5	0.2	29	0.23	0.031
133340	Soil		1.4	24.6	18.3	57	0.2	12.4	5.4	177	1.79	12.6	1.7	2.6	7.1	22	0.3	0.6	0.2	27	0.27	0.035
133341	Soil		0.8	26.6	15.3	70	0.1	15.2	6.3	202	2.10	11.6	1.3	2.6	6.1	21	<0.1	0.5	0.3	36	0.29	0.050
133342	Soil		0.7	25.8	14.3	54	0.1	14.9	7.9	289	2.14	8.1	1.3	1.5	4.1	24	<0.1	0.6	0.2	40	0.35	0.035
133343	Soil		0.7	28.8	10.0	56	<0.1	13.1	7.5	265	2.01	8.1	1.0	4.0	5.1	21	<0.1	0.5	0.1	36	0.29	0.046
133344	Soil		0.6	24.1	13.4	50	0.2	16.3	6.6	303	1.87	6.7	1.1	2.4	5.1	26	0.2	0.5	0.2	36	0.38	0.038
133345	Soil		0.8	24.3	16.3	57	0.2	18.0	7.1	261	2.05	7.6	1.3	2.4	7.0	26	0.2	0.9	0.2	36	0.31	0.043
133346	Soil		0.8	21.0	28.3	65	0.1	11.4	5.4	218	1.71	6.2	1.2	1.6	9.5	17	0.2	2.0	0.2	28	0.18	0.026
133347	Soil		0.9	26.3	43.4	91	0.2	12.1	5.1	249	1.81	5.7	1.2	0.9	10.5	16	0.4	3.3	0.2	27	0.18	0.035
133348	Soil		1.1	14.4	24.2	77	<0.1	7.5	5.8	344	2.00	3.0	2.0	1.9	13.3	8	<0.1	1.2	<0.1	13	0.04	0.020
133349	Soil		3.7	26.4	35.8	312	<0.1	5.3	3.5	521	2.22	2.1	2.7	2.2	17.9	12	1.3	0.3	0.1	10	0.05	0.023
133350	Soil		1.5	14.4	28.8	62	<0.1	9.2	6.5	229	1.86	2.3	1.5	<0.5	12.6	6	<0.1	0.4	<0.1	17	0.03	0.023
133351	Soil		0.6	7.6	9.6	52	<0.1	6.0	3.7	130	1.83	3.6	3.3	1.4	15.9	7	<0.1	0.6	<0.1	11	0.02	0.014
133352	Soil		0.6	24.9	13.6	82	0.1	9.8	5.2	267	1.83	3.6	1.3	0.9	10.7	8	0.2	0.6	<0.1	19	0.04	0.014
133353	Soil		1.0	12.0	21.2	95	0.2	13.2	6.2	217	1.97	7.1	0.7	3.8	5.1	9	0.5	0.8	0.2	39	0.07	0.018
133354	Soil		0.6	15.5	18.4	62	<0.1	8.3	4.1	149	1.56	4.8	2.1	2.2	11.1	13	<0.1	0.8	0.1	19	0.08	0.012
133355	Soil		0.6	13.6	28.9	70	<0.1	11.2	4.7	199	1.53	4.0	1.1	1.8	11.3	9	<0.1	0.5	0.2	21	0.11	0.013
133356	Soil		0.8	11.0	16.4	56	0.1	13.7	5.7	216	2.17	8.3	0.7	2.0	5.6	10	0.2	0.6	0.2	41	0.10	0.019
133357	Soil		1.0	9.0	12.0	41	0.1	13.2	5.8	226	2.01	6.5	0.6	<0.5	5.4	13	<0.1	0.5	0.1	36	0.13	0.017
133362	Soil		1.1	16.7	13.6	34	0.1	12.2	5.1	153	1.72	5.6	0.6	3.0	3.7	20	<0.1	0.3	0.2	46	0.23	0.029
133363	Soil		1.4	29.2	16.4	48	0.2	19.2	9.2	388	2.26	7.5	1.5	2.3	4.0	32	0.1	0.4	0.2	52	0.39	0.049
133364	Soil		1.6	30.8	22.3	55	0.1	26.7	11.5	411	3.05	9.4	1.6	4.4	8.2	77	0.2	0.5	0.2	63	0.56	0.131
133365	Soil		0.8	26.6	16.8	56	<0.1	22.6	7.0	259	1.98	6.3	1.3	5.6	4.4	101	0.2	0.3	0.2	48	0.77	0.106
133366	Soil		1.5	17.9	13.4	43	0.1	12.6	5.4	180	1.94	9.1	1.2	5.0	3.5	24	0.1	0.5	0.3	41	0.28	0.041
133367	Soil		1.1	21.7	14.5	53	<0.1	14.5	7.2	238	2.16	8.9	1.3	9.5	6.2	19	0.1	0.4	0.3	47	0.25	0.061
133368	Soil		1.7	21.0	11.2	39	0.2	10.2	4.0	121	1.72	7.4	3.2	2.7	4.9	18	0.2	0.4	0.3	31	0.16	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	
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	
133335	Soil	20	22	0.31	325	0.048	1	1.14	0.014	0.10	0.2	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
133336	Soil	18	19	0.30	343	0.040	<1	0.99	0.010	0.05	0.3	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
133337	Soil	16	20	0.32	335	0.045	<1	1.14	0.011	0.04	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
133338	Soil	18	16	0.29	363	0.033	<1	1.03	0.008	0.05	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
133339	Soil	28	18	0.27	357	0.032	<1	0.98	0.008	0.06	0.2	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
133340	Soil	28	16	0.30	321	0.033	<1	0.96	0.009	0.07	0.1	0.05	2.6	<0.1	<0.05	3	<0.5	<0.2
133341	Soil	19	22	0.41	268	0.043	<1	1.03	0.010	0.06	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
133342	Soil	13	22	0.49	314	0.052	8	1.21	0.010	0.04	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
133343	Soil	14	18	0.41	277	0.041	<1	0.96	0.009	0.06	0.3	0.03	2.9	<0.1	<0.05	3	0.6	<0.2
133344	Soil	24	21	0.41	436	0.044	<1	1.21	0.011	0.06	0.1	0.02	3.4	<0.1	<0.05	4	0.5	<0.2
133345	Soil	29	21	0.39	461	0.044	<1	1.18	0.013	0.06	0.2	0.05	3.9	<0.1	<0.05	4	<0.5	<0.2
133346	Soil	27	17	0.29	367	0.042	1	0.89	0.009	0.08	0.1	0.12	3.5	<0.1	<0.05	3	<0.5	<0.2
133347	Soil	33	16	0.31	420	0.045	<1	0.80	0.012	0.11	0.1	0.19	3.3	0.1	<0.05	3	<0.5	<0.2
133348	Soil	29	8	0.33	177	0.022	1	0.92	0.002	0.20	<0.1	0.03	3.3	0.2	<0.05	3	<0.5	<0.2
133349	Soil	52	6	0.67	239	0.041	<1	0.96	0.003	0.40	<0.1	0.02	4.9	0.5	<0.05	4	0.8	<0.2
133350	Soil	28	11	0.54	128	0.029	<1	1.02	0.003	0.26	<0.1	<0.01	4.8	0.4	<0.05	4	<0.5	<0.2
133351	Soil	45	9	0.13	316	0.008	<1	0.62	0.005	0.07	<0.1	0.04	2.9	<0.1	<0.05	2	<0.5	<0.2
133352	Soil	36	11	0.47	552	0.043	<1	0.99	0.004	0.22	<0.1	0.03	5.3	0.3	<0.05	4	<0.5	<0.2
133353	Soil	11	21	0.29	292	0.039	<1	1.13	0.006	0.08	0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
133354	Soil	37	11	0.30	460	0.022	<1	0.80	0.005	0.10	<0.1	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
133355	Soil	35	15	0.37	339	0.036	<1	0.89	0.008	0.18	0.1	0.01	3.0	0.2	<0.05	3	<0.5	<0.2
133356	Soil	14	23	0.35	250	0.057	1	1.39	0.008	0.12	0.2	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
133357	Soil	14	21	0.38	277	0.059	<1	1.06	0.006	0.15	<0.1	0.01	1.9	0.1	<0.05	4	<0.5	<0.2
133362	Soil	11	22	0.36	223	0.052	<1	1.12	0.015	0.03	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
133363	Soil	15	28	0.45	318	0.060	<1	1.34	0.012	0.04	0.2	0.02	4.1	<0.1	<0.05	4	0.7	<0.2
133364	Soil	22	42	0.69	352	0.092	<1	1.45	0.013	0.11	0.2	0.03	4.7	0.1	<0.05	5	<0.5	<0.2
133365	Soil	17	37	0.68	307	0.078	1	1.35	0.012	0.07	0.2	0.04	4.0	0.1	0.07	5	0.7	<0.2
133366	Soil	16	22	0.38	287	0.034	<1	1.17	0.008	0.04	0.2	0.03	3.0	0.1	0.05	4	<0.5	<0.2
133367	Soil	17	37	0.53	298	0.060	<1	1.27	0.008	0.12	0.5	0.02	4.0	0.2	<0.05	5	<0.5	<0.2
133368	Soil	25	17	0.32	250	0.033	<1	1.08	0.005	0.08	0.2	0.03	2.4	0.1	0.05	4	<0.5	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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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	
133369	Soil	1.4	18.2	18.3	44	0.2	11.8	5.7	196	1.92	7.3	3.8	5.4	11.5	29	0.2	0.4	0.3	32	0.33	0.028
133370	Soil	1.2	14.5	17.7	35	0.2	7.9	3.2	149	1.53	6.6	5.0	8.6	11.9	39	0.1	0.3	0.4	17	0.48	0.015
133371	Soil	0.9	23.6	17.4	50	<0.1	10.5	4.5	163	2.03	8.5	2.5	3.9	16.0	10	0.1	0.5	0.3	26	0.11	0.008
133372	Soil	0.9	14.8	30.4	42	0.2	10.4	4.2	121	1.87	8.1	0.8	1.4	9.0	9	0.2	0.6	0.2	27	0.08	0.013
133373	Soil	0.7	9.2	13.3	34	0.1	6.0	2.4	148	1.47	4.8	1.6	2.0	21.3	12	<0.1	0.4	0.2	16	0.09	0.009
133374	Soil	0.8	7.4	15.4	53	<0.1	6.9	2.9	128	1.55	4.0	0.9	<0.5	8.6	7	<0.1	0.3	<0.1	17	0.05	0.007
133375	Soil	0.7	22.2	16.1	85	<0.1	18.9	12.3	315	3.67	4.9	2.7	3.2	22.8	27	0.1	0.4	<0.1	62	0.16	0.009
133376	Soil	1.0	6.8	19.4	33	0.5	5.7	2.8	117	1.66	5.8	0.7	0.8	10.2	7	0.1	0.4	0.3	28	0.03	0.015
133377	Soil	0.8	11.2	21.6	57	0.3	9.2	4.3	176	1.94	5.3	1.1	<0.5	10.5	8	<0.1	0.4	0.1	30	0.06	0.008
133378	Soil	0.5	8.7	20.0	29	<0.1	6.9	3.3	109	0.99	4.7	0.9	1.2	9.2	7	<0.1	0.4	<0.1	17	0.05	0.006
133379	Soil	0.9	47.1	50.9	217	<0.1	38.0	6.2	663	4.03	19.1	1.9	0.5	20.0	12	0.3	0.8	0.2	40	0.21	0.073
133380	Soil	0.7	10.7	15.4	73	<0.1	12.6	7.8	559	2.00	6.4	1.1	<0.5	12.7	9	0.3	0.5	0.1	25	0.13	0.060
133381	Soil	1.0	27.3	15.1	58	1.0	18.7	8.4	210	2.73	10.1	1.4	4.2	7.1	10	0.3	0.6	0.2	59	0.10	0.028
133382	Soil	1.3	21.0	30.2	164	0.3	5.4	2.4	194	1.97	5.5	1.5	<0.5	12.4	4	0.2	0.3	0.2	20	0.03	0.047
133383	Soil	0.7	24.4	20.9	125	<0.1	10.4	7.8	438	1.94	4.1	1.5	0.8	11.8	12	0.6	0.3	<0.1	19	0.12	0.038
133384	Soil	1.0	47.1	106.6	148	0.2	13.8	5.6	175	2.05	8.8	4.1	3.6	19.8	12	0.2	0.5	0.1	33	0.08	0.015
133385	Soil	0.8	16.3	26.6	53	<0.1	12.1	6.0	181	1.98	8.2	1.1	0.8	13.1	9	<0.1	0.4	0.2	31	0.08	0.024
133386	Soil	0.6	5.6	27.9	58	<0.1	3.0	2.1	268	1.43	4.9	3.1	<0.5	8.8	28	0.3	0.4	0.1	7	0.03	0.022
133387	Soil	0.6	7.1	16.8	34	<0.1	7.0	3.4	94	1.04	4.4	1.0	0.6	14.8	5	<0.1	0.4	0.2	18	0.05	0.017
133388	Soil	0.5	14.0	25.0	60	<0.1	10.3	4.5	269	1.69	4.1	2.1	0.8	14.5	10	<0.1	0.4	0.2	21	0.09	0.021
133389	Soil	0.4	18.2	100.6	218	<0.1	8.0	5.0	320	1.91	3.0	1.5	<0.5	12.2	8	0.3	0.5	0.4	16	0.09	0.042
133390	Soil	0.4	15.2	36.0	112	<0.1	8.0	4.4	336	1.84	3.0	2.7	<0.5	19.5	8	0.2	0.3	0.2	16	0.08	0.021
133391	Soil	1.1	17.8	21.8	81	<0.1	13.1	5.0	207	2.09	7.3	2.2	3.8	9.6	11	0.3	1.1	0.2	32	0.09	0.024
133392	Soil	0.7	14.2	20.0	77	<0.1	6.5	3.8	117	1.78	4.4	2.6	1.1	14.7	20	0.1	2.1	0.1	9	0.03	0.019
134246	Soil	1.4	31.7	39.8	73	0.5	18.9	7.6	388	2.26	16.1	2.3	3.0	12.1	24	0.1	0.6	0.2	38	0.27	0.018
134247	Soil	2.2	21.5	36.6	85	0.1	7.5	2.7	75	1.41	18.1	2.5	0.8	11.8	10	0.1	0.7	0.3	15	0.12	0.023
134248	Soil	1.5	30.3	23.5	55	0.4	14.1	6.0	161	2.16	14.0	3.4	3.4	5.1	32	0.2	0.4	0.2	41	0.43	0.045
134249	Soil	0.8	19.9	18.0	67	0.1	13.3	7.2	329	2.04	7.2	1.1	2.3	3.6	29	0.2	0.4	0.2	38	0.45	0.047
134250	Soil	0.9	15.4	12.9	58	0.2	15.5	8.9	1089	1.79	5.4	1.0	5.5	4.2	29	0.3	0.4	0.1	33	0.44	0.053
134251	Soil	0.9	26.6	17.6	69	0.1	14.8	5.8	191	2.02	7.7	1.4	2.1	8.0	21	0.2	0.9	0.1	35	0.32	0.046

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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
133369	Soil	44	18	0.33	431	0.041	<1	1.40	0.010	0.07	0.2	0.04	3.7	0.1	<0.05	5	0.6	<0.2
133370	Soil	41	11	0.26	346	0.021	1	0.98	0.007	0.13	0.2	0.03	3.1	0.2	<0.05	3	<0.5	<0.2
133371	Soil	83	17	0.34	325	0.035	<1	1.28	0.008	0.11	0.1	0.03	4.3	0.1	<0.05	4	0.7	<0.2
133372	Soil	9	18	0.24	307	0.010	<1	1.62	0.006	0.07	0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
133373	Soil	65	11	0.22	818	0.010	<1	0.90	0.006	0.05	<0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
133374	Soil	9	11	0.32	352	0.029	<1	1.23	0.005	0.12	<0.1	<0.01	2.4	0.1	<0.05	3	<0.5	<0.2
133375	Soil	131	23	1.12	1961	0.094	<1	2.79	0.013	0.10	<0.1	0.04	9.9	<0.1	<0.05	7	<0.5	<0.2
133376	Soil	9	13	0.21	473	0.021	<1	1.31	0.004	0.11	0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
133377	Soil	45	18	0.58	465	0.041	<1	1.58	0.006	0.11	<0.1	0.01	3.2	0.2	<0.05	5	<0.5	<0.2
133378	Soil	20	11	0.25	410	0.021	<1	0.81	0.005	0.08	<0.1	<0.01	2.3	0.1	<0.05	2	<0.5	<0.2
133379	Soil	79	50	1.37	300	0.049	<1	2.35	0.004	0.60	<0.1	0.02	6.1	0.7	<0.05	8	0.6	<0.2
133380	Soil	11	17	0.48	162	0.042	<1	1.19	0.008	0.27	<0.1	0.01	3.6	0.3	<0.05	4	<0.5	<0.2
133381	Soil	21	36	0.44	263	0.065	<1	2.17	0.014	0.06	0.2	0.04	4.8	0.1	<0.05	5	<0.5	<0.2
133382	Soil	46	9	0.26	128	0.017	<1	1.01	0.003	0.13	<0.1	0.02	2.9	0.2	<0.05	4	0.5	<0.2
133383	Soil	34	12	0.79	310	0.064	<1	1.30	0.006	0.40	<0.1	<0.01	2.8	0.5	<0.05	4	0.5	<0.2
133384	Soil	51	20	0.47	229	0.047	1	1.27	0.009	0.10	0.1	0.07	4.1	0.1	<0.05	4	<0.5	<0.2
133385	Soil	19	17	0.47	175	0.047	<1	1.34	0.006	0.19	0.1	0.02	2.8	0.2	<0.05	4	<0.5	<0.2
133386	Soil	16	4	0.07	166	0.002	2	0.43	0.003	0.10	<0.1	0.03	2.6	0.1	<0.05	1	<0.5	<0.2
133387	Soil	20	11	0.22	143	0.024	<1	0.85	0.006	0.11	0.1	0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
133388	Soil	43	14	0.43	236	0.043	<1	0.98	0.007	0.15	<0.1	0.02	3.3	0.2	<0.05	3	<0.5	<0.2
133389	Soil	21	10	0.54	155	0.042	<1	1.05	0.004	0.43	<0.1	0.01	4.1	0.4	<0.05	4	<0.5	<0.2
133390	Soil	54	11	0.70	217	0.072	<1	1.10	0.007	0.35	<0.1	0.02	3.6	0.4	<0.05	4	<0.5	<0.2
133391	Soil	24	20	0.36	246	0.048	<1	1.04	0.013	0.09	0.2	0.07	2.9	<0.1	<0.05	3	<0.5	<0.2
133392	Soil	50	8	0.15	405	0.006	2	0.71	0.003	0.16	<0.1	0.14	3.4	0.1	<0.05	2	<0.5	<0.2
134246	Soil	31	24	0.39	480	0.045	<1	1.31	0.014	0.09	0.1	0.06	4.4	0.1	<0.05	4	<0.5	<0.2
134247	Soil	24	10	0.15	281	0.022	<1	0.59	0.006	0.08	<0.1	0.01	2.1	0.1	<0.05	2	<0.5	<0.2
134248	Soil	42	21	0.36	470	0.029	<1	1.52	0.011	0.07	0.1	0.06	3.4	<0.1	<0.05	5	<0.5	<0.2
134249	Soil	14	21	0.47	345	0.043	<1	1.29	0.014	0.05	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
134250	Soil	17	20	0.41	398	0.042	2	1.11	0.013	0.06	0.2	0.04	3.1	<0.1	<0.05	3	<0.5	<0.2
134251	Soil	24	23	0.47	343	0.051	<1	1.29	0.013	0.07	0.1	0.09	3.8	<0.1	<0.05	4	<0.5	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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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	0.1	2	0.01	0.001
134252	Soil		0.9	32.4	16.1	83	0.2	19.6	8.1	267	2.54	8.1	1.4	2.4	7.1	24	0.2	0.6	0.2	44	0.42	0.050
134253	Soil		1.1	35.0	16.8	90	0.1	18.4	7.7	280	2.57	6.2	1.8	1.5	9.5	22	0.1	0.7	0.1	40	0.33	0.049
134254	Soil		0.8	19.6	18.5	65	0.1	14.2	6.2	207	2.12	6.1	1.4	3.7	9.8	22	<0.1	0.6	0.1	36	0.31	0.036
134255	Soil		0.7	17.7	19.8	68	0.2	12.1	6.0	301	2.37	3.9	1.5	2.0	11.1	16	0.1	0.4	0.2	32	0.21	0.037
134256	Soil		0.6	41.3	16.2	96	<0.1	15.4	9.6	569	3.85	9.2	2.3	1.0	14.4	16	0.1	0.9	0.1	52	0.28	0.070
134257	Soil		0.8	17.6	27.1	56	<0.1	11.4	5.3	260	1.81	4.3	1.1	1.3	14.0	11	0.1	0.8	0.1	26	0.14	0.023
134258	Soil		1.1	28.2	32.6	71	0.2	10.8	6.8	575	2.07	1.8	1.4	1.3	22.7	13	0.2	0.8	0.2	17	0.21	0.040
134259	Soil		2.6	11.7	43.5	87	<0.1	5.4	2.7	172	1.95	3.4	1.9	<0.5	19.2	4	0.2	0.9	0.3	14	0.03	0.010
134260	Soil		1.2	29.6	19.8	99	0.2	28.4	14.7	654	3.71	6.8	1.7	<0.5	16.3	20	0.2	0.3	0.1	51	0.22	0.066
134261	Soil		0.6	22.9	15.4	60	<0.1	14.9	6.3	342	2.21	4.5	1.1	2.5	15.6	16	<0.1	0.6	0.1	28	0.17	0.016
134262	Soil		0.9	25.2	17.8	62	0.1	16.3	5.6	331	2.15	5.7	1.0	1.2	13.7	18	<0.1	0.5	0.2	33	0.20	0.016
134263	Soil		1.0	20.8	32.2	77	0.1	15.1	7.3	369	2.31	6.3	1.5	2.0	12.2	21	0.2	0.5	0.2	36	0.24	0.031
134264	Soil		0.6	15.2	18.1	59	<0.1	10.4	4.4	229	1.55	3.4	1.6	2.1	12.0	16	0.1	0.4	0.1	24	0.19	0.022
134265	Soil		0.8	21.8	17.9	61	<0.1	14.3	5.6	266	1.86	5.3	1.7	1.4	11.4	20	0.1	0.5	0.1	32	0.25	0.026
134266	Soil		0.6	13.8	59.5	117	<0.1	7.1	4.4	212	1.59	2.9	1.3	<0.5	17.7	7	0.2	0.4	0.1	16	0.06	0.011
134267	Soil		2.2	22.4	16.0	46	0.1	14.6	6.8	142	1.88	9.5	2.2	9.2	4.0	33	0.3	0.3	0.3	54	0.42	0.058
134268	Soil		6.9	69.5	29.1	88	<0.1	16.6	7.6	228	2.62	4.5	2.8	15.2	10.8	29	0.2	0.3	0.4	43	0.35	0.036
134269	Soil		2.8	44.9	16.5	62	<0.1	22.9	10.4	218	2.84	9.0	1.1	6.8	6.5	22	<0.1	0.3	0.3	76	0.28	0.040
134270	Soil		6.9	101.0	61.4	102	<0.1	65.4	27.8	437	5.20	5.5	4.7	12.9	21.7	67	0.5	0.2	0.2	142	1.00	0.381
134271	Soil		2.1	55.8	57.5	124	0.2	115.2	29.2	970	4.47	2.2	4.0	7.2	38.6	265	0.4	<0.1	0.1	140	1.61	0.484
134272	Soil		2.2	109.0	40.9	88	0.1	57.7	20.0	515	4.16	8.9	3.8	17.0	18.1	43	0.1	0.5	0.3	110	0.62	0.137
134273	Soil		2.5	44.0	35.4	56	0.4	17.1	8.1	446	2.87	5.7	1.9	9.0	12.4	28	0.1	0.3	0.2	68	0.34	0.023
134274	Soil		1.4	40.7	45.7	74	<0.1	19.5	6.5	488	3.39	4.9	1.9	8.3	23.1	28	<0.1	0.4	0.2	74	0.42	0.060
134275	Soil		1.0	35.8	21.0	54	0.1	21.7	7.5	317	2.50	8.5	1.4	6.1	10.6	27	0.1	0.6	0.2	55	0.35	0.032
134276	Soil		1.0	23.5	27.0	61	<0.1	17.1	7.8	393	2.53	6.6	1.5	4.6	11.2	26	0.2	0.4	0.2	57	0.31	0.039
134277	Soil		1.0	33.6	22.2	67	0.2	20.2	6.6	156	1.85	7.4	2.4	4.2	8.9	89	0.3	0.4	0.2	50	0.61	0.141
134278	Soil		6.5	15.4	14.9	45	<0.1	11.1	5.7	159	2.02	6.4	1.9	9.3	10.1	24	<0.1	0.3	0.2	30	0.28	0.031
134279	Soil		1.1	22.6	13.0	55	0.1	15.9	5.8	187	2.08	8.2	1.5	2.8	8.7	23	<0.1	0.5	0.2	38	0.26	0.033
134280	Soil		1.1	25.2	14.0	56	0.1	18.2	6.5	197	2.18	8.4	1.8	4.0	9.2	22	0.2	0.6	0.2	38	0.26	0.035
134281	Soil		0.7	9.4	13.4	39	0.1	4.6	2.3	142	1.52	3.7	0.7	0.6	7.0	9	0.2	0.2	0.2	14	0.08	0.013

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Project: QUARTZ
 Report Date: November 26, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	Te ppm 0.2	
134252	Soil	21	28	0.62	398	0.058	1	1.61	0.013	0.12	0.2	0.05	4.4	0.1	<0.05	5	<0.5	<0.2
134253	Soil	31	23	0.67	411	0.075	1	1.56	0.012	0.29	0.2	0.04	4.9	0.2	<0.05	5	<0.5	<0.2
134254	Soil	29	21	0.43	405	0.057	<1	1.34	0.013	0.10	0.2	0.05	4.5	0.1	<0.05	4	<0.5	<0.2
134255	Soil	34	20	0.65	384	0.077	<1	1.39	0.009	0.36	<0.1	0.08	4.2	0.3	<0.05	5	<0.5	<0.2
134256	Soil	17	32	1.11	341	0.088	<1	1.95	0.007	0.79	<0.1	0.08	7.2	0.5	<0.05	8	<0.5	<0.2
134257	Soil	63	17	0.44	330	0.034	<1	1.09	0.007	0.19	<0.1	0.09	4.4	0.2	<0.05	4	<0.5	<0.2
134258	Soil	30	11	0.47	411	0.015	<1	1.01	0.006	0.40	<0.1	0.05	7.5	0.4	<0.05	5	<0.5	<0.2
134259	Soil	54	9	0.30	146	0.019	<1	0.85	0.005	0.12	<0.1	<0.01	7.5	0.2	<0.05	4	<0.5	<0.2
134260	Soil	51	44	1.29	419	0.096	<1	1.97	0.007	0.73	<0.1	0.01	9.6	0.6	<0.05	8	0.6	<0.2
134261	Soil	33	19	0.61	458	0.047	<1	1.28	0.011	0.16	<0.1	0.02	6.8	0.3	<0.05	5	<0.5	<0.2
134262	Soil	44	20	0.52	615	0.050	<1	1.19	0.020	0.10	<0.1	0.03	5.5	0.2	<0.05	4	<0.5	<0.2
134263	Soil	32	23	0.50	554	0.052	<1	1.32	0.012	0.14	0.1	0.03	5.4	0.2	<0.05	5	<0.5	<0.2
134264	Soil	30	14	0.44	439	0.047	<1	0.90	0.010	0.16	0.2	0.02	3.2	0.2	<0.05	3	<0.5	<0.2
134265	Soil	28	19	0.45	484	0.052	<1	1.12	0.013	0.12	0.1	0.03	4.1	0.1	<0.05	4	<0.5	<0.2
134266	Soil	40	13	0.41	222	0.035	<1	0.84	0.005	0.30	<0.1	0.01	3.6	0.3	<0.05	3	0.5	<0.2
134267	Soil	15	32	0.63	425	0.048	<1	1.41	0.011	0.06	0.3	0.04	4.4	0.2	0.06	6	1.5	<0.2
134268	Soil	30	22	0.75	377	0.045	<1	1.84	0.019	0.24	0.2	0.02	9.0	0.4	<0.05	7	<0.5	<0.2
134269	Soil	16	49	0.89	295	0.096	<1	1.92	0.013	0.10	0.2	0.01	6.3	0.3	<0.05	7	0.5	<0.2
134270	Soil	69	130	1.75	458	0.105	<1	2.13	0.017	0.21	0.3	<0.01	7.4	0.2	<0.05	9	2.1	<0.2
134271	Soil	85	168	2.37	657	0.114	<1	1.40	0.029	0.68	<0.1	0.04	11.0	0.4	<0.05	7	<0.5	<0.2
134272	Soil	36	91	1.22	658	0.155	<1	2.22	0.017	0.07	0.4	0.06	9.9	0.2	<0.05	8	<0.5	<0.2
134273	Soil	34	28	0.43	521	0.052	<1	1.53	0.013	0.04	0.2	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
134274	Soil	34	34	0.52	311	0.040	<1	1.48	0.013	0.03	0.2	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
134275	Soil	21	34	0.46	399	0.062	<1	1.54	0.017	0.04	0.2	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2
134276	Soil	19	31	0.47	349	0.078	<1	1.32	0.020	0.06	0.3	0.02	4.0	<0.1	<0.05	4	0.6	<0.2
134277	Soil	25	41	0.73	394	0.093	<1	1.44	0.013	0.13	0.3	0.03	4.8	0.2	<0.05	5	0.8	<0.2
134278	Soil	23	18	0.36	291	0.037	<1	1.27	0.013	0.07	0.2	0.02	3.1	0.1	<0.05	4	0.8	<0.2
134279	Soil	25	22	0.37	436	0.056	<1	1.31	0.015	0.06	0.2	0.04	3.7	<0.1	<0.05	4	0.5	<0.2
134280	Soil	27	24	0.41	435	0.048	<1	1.27	0.014	0.05	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
134281	Soil	11	7	0.25	252	0.027	<1	0.91	0.004	0.28	<0.1	<0.01	2.5	0.2	<0.05	5	<0.5	<0.2



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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 %
134282	Soil			1.2	16.5	38.3	37	0.7	9.3	6.9	250	1.57	42.6	2.7	2.6	17.0	22	0.1	0.7	0.5	19	0.20	0.009
134283	Soil			0.8	24.7	13.2	64	0.2	21.0	9.5	335	2.28	6.9	2.4	2.8	5.0	49	0.2	0.5	0.2	42	0.55	0.062
134284	Soil			0.9	24.1	18.9	65	0.1	17.6	6.7	191	2.53	7.7	1.2	1.5	10.4	28	0.3	0.6	0.1	38	0.27	0.038
134285	Soil			0.9	9.4	26.0	38	0.2	8.9	4.7	141	1.69	5.7	2.7	0.9	11.9	14	<0.1	0.4	0.1	26	0.14	0.014
134286	Soil			1.2	10.1	23.6	31	0.2	8.2	3.7	141	1.43	7.7	4.0	<0.5	10.1	17	<0.1	0.5	0.2	25	0.19	0.014
134287	Soil			1.5	21.6	28.5	53	0.1	9.1	4.0	134	1.66	16.0	1.2	2.5	10.9	8	0.2	0.5	0.2	23	0.09	0.014
134288	Soil			0.9	20.4	26.5	55	0.1	6.7	3.1	212	1.18	8.0	0.9	0.6	9.9	6	0.3	0.3	0.2	15	0.07	0.012
134289	Soil			0.7	64.3	12.0	126	0.5	14.5	8.3	220	2.20	6.0	1.0	2.2	8.3	12	0.2	0.4	0.2	39	0.20	0.010
134290	Soil			0.5	67.3	11.8	114	0.6	17.3	9.2	224	2.40	6.8	0.9	1.9	8.2	13	0.2	0.4	0.2	43	0.22	0.009
134291	Soil			0.9	42.6	11.2	8	0.3	2.3	1.4	123	0.66	3.6	1.7	0.7	10.6	5	0.1	0.2	0.2	5	0.07	0.009
134292	Soil			0.8	28.0	7.1	102	<0.1	21.7	14.2	589	3.82	6.2	0.9	<0.5	4.8	13	<0.1	0.2	<0.1	35	0.19	0.046
134293	Soil			0.3	4.5	18.0	29	<0.1	2.1	1.7	66	0.87	2.3	0.9	<0.5	19.9	6	<0.1	0.3	<0.1	4	0.05	0.009
134294	Soil			0.4	4.8	17.9	59	<0.1	4.2	3.3	290	1.70	2.9	1.0	2.0	15.8	5	<0.1	0.3	0.2	14	0.06	0.027
134295	Soil			1.1	22.5	93.7	147	0.2	12.8	5.0	253	2.04	27.1	1.6	2.7	8.6	13	0.8	1.0	0.3	30	0.12	0.036
134296	Soil			0.6	31.4	121.1	329	0.1	7.4	4.7	893	1.62	4.2	2.5	2.1	11.6	17	2.3	0.4	0.5	9	0.11	0.028
134297	Soil			0.6	21.7	23.0	121	<0.1	6.2	4.1	405	1.74	6.2	1.6	<0.5	9.5	11	0.4	0.6	0.4	20	0.10	0.029
134298	Soil			0.6	15.7	24.0	104	<0.1	5.8	3.0	209	1.71	5.1	1.9	0.6	9.0	12	0.2	0.7	0.3	16	0.11	0.022
134299	Soil			0.7	54.4	87.3	90	<0.1	5.5	2.4	139	1.37	16.8	3.9	0.6	13.1	8	0.3	2.7	0.9	12	0.06	0.027
134300	Soil			0.4	11.1	8.5	32	<0.1	9.0	3.8	161	1.88	3.3	1.9	<0.5	12.2	9	<0.1	0.5	0.2	18	0.06	0.007
134301	Soil			0.3	4.4	12.4	23	<0.1	2.9	1.7	62	1.05	2.0	1.9	<0.5	9.7	6	<0.1	0.2	0.2	10	0.04	0.008
134302	Soil			0.6	15.8	8.5	36	<0.1	16.6	5.7	146	1.97	7.9	1.3	<0.5	9.9	12	<0.1	0.6	0.1	33	0.09	0.011
134303	Soil			0.3	5.5	10.2	59	<0.1	7.1	5.3	211	3.61	3.4	4.0	<0.5	11.8	6	0.3	0.3	0.2	23	0.04	0.012
106984	Soil			0.8	10.9	24.6	79	<0.1	8.2	5.1	266	2.01	6.3	1.4	<0.5	13.5	9	<0.1	0.5	<0.1	23	0.05	0.016
106985	Soil			1.1	14.0	10.3	35	<0.1	13.7	5.7	211	1.87	7.7	2.7	2.3	7.3	23	<0.1	0.5	0.3	37	0.24	0.020
106986	Soil			1.4	15.1	10.1	32	0.1	10.9	4.5	234	1.65	8.6	2.4	7.1	10.1	21	<0.1	0.5	0.3	28	0.21	0.015
106987	Soil			1.2	15.7	11.2	45	0.1	15.7	8.0	270	2.35	8.9	2.1	4.7	9.7	26	<0.1	0.6	0.3	45	0.32	0.042
106988	Soil			1.3	13.0	10.2	27	<0.1	6.0	2.6	163	1.83	8.4	1.8	9.2	14.8	11	<0.1	0.5	0.3	12	0.09	0.016
106989	Soil			1.0	17.0	20.5	72	<0.1	11.8	9.2	783	2.49	6.8	1.4	1.8	14.9	17	0.2	0.8	0.3	21	0.20	0.067
106990	Soil			1.2	22.4	21.5	91	<0.1	12.6	9.0	1040	2.73	7.1	1.6	1.5	15.6	18	0.2	0.6	0.4	19	0.21	0.072
106991	Soil			1.0	16.4	10.8	38	<0.1	13.4	5.8	170	1.93	6.4	0.7	0.9	6.6	18	<0.1	0.6	0.2	38	0.18	0.019

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Project: QUARTZ
 Report Date: November 26, 2011

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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
134282	Soil	43	18	0.28	543	0.017	<1	1.13	0.007	0.15	0.1	0.01	3.1	<0.1	<0.05	3	1.1	2.2
134283	Soil	21	25	0.50	578	0.054	1	1.40	0.024	0.07	0.2	0.04	3.6	<0.1	<0.05	4	1.2	<0.2
134284	Soil	27	20	0.40	490	0.060	<1	1.29	0.013	0.07	0.2	0.03	3.2	0.1	<0.05	4	0.7	<0.2
134285	Soil	38	16	0.39	470	0.040	<1	1.14	0.009	0.09	0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
134286	Soil	29	15	0.24	516	0.031	<1	0.87	0.007	0.07	<0.1	0.02	2.4	<0.1	<0.05	3	0.6	<0.2
134287	Soil	40	15	0.25	292	0.019	<1	1.03	0.006	0.10	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
134288	Soil	20	11	0.23	255	0.015	<1	0.87	0.004	0.12	<0.1	<0.01	1.6	0.2	<0.05	2	<0.5	<0.2
134289	Soil	24	19	0.48	306	0.052	<1	1.38	0.007	0.12	0.1	0.03	3.1	0.1	<0.05	4	0.7	<0.2
134290	Soil	24	22	0.56	319	0.060	<1	1.50	0.008	0.12	0.1	0.02	3.4	0.1	<0.05	4	0.6	<0.2
134291	Soil	21	5	0.06	209	0.003	<1	0.48	0.003	0.15	<0.1	<0.01	1.3	<0.1	<0.05	1	0.5	<0.2
134292	Soil	6	28	1.41	327	0.117	<1	2.24	0.004	0.91	<0.1	0.02	2.3	0.5	<0.05	7	<0.5	<0.2
134293	Soil	38	3	0.22	114	0.004	<1	0.60	0.003	0.13	<0.1	<0.01	3.1	0.2	<0.05	2	<0.5	<0.2
134294	Soil	50	8	0.53	107	0.057	1	1.11	0.006	0.50	<0.1	<0.01	3.5	0.6	<0.05	4	<0.5	<0.2
134295	Soil	28	19	0.38	166	0.046	2	1.18	0.006	0.14	0.1	0.05	2.7	0.3	<0.05	4	<0.5	<0.2
134296	Soil	30	6	0.47	251	0.030	2	0.71	0.017	0.27	<0.1	0.06	2.1	0.4	<0.05	3	0.6	<0.2
134297	Soil	31	12	0.30	231	0.033	2	0.92	0.012	0.25	0.1	0.01	1.5	0.2	<0.05	3	<0.5	<0.2
134298	Soil	33	10	0.24	179	0.025	1	0.83	0.004	0.24	<0.1	0.02	1.8	0.2	<0.05	4	<0.5	<0.2
134299	Soil	64	7	0.14	124	0.016	2	0.63	0.004	0.15	<0.1	0.03	1.7	0.1	<0.05	2	<0.5	<0.2
134300	Soil	51	12	0.61	191	0.071	2	1.05	0.007	0.44	<0.1	0.01	2.9	0.3	<0.05	4	<0.5	<0.2
134301	Soil	46	5	0.21	113	0.037	<1	0.67	0.003	0.24	0.1	0.01	1.7	0.2	<0.05	3	<0.5	<0.2
134302	Soil	35	21	0.37	161	0.065	1	1.09	0.011	0.17	0.1	0.02	3.1	0.1	<0.05	4	<0.5	<0.2
134303	Soil	51	9	0.47	395	0.088	<1	1.53	0.007	0.85	<0.1	0.07	7.0	0.7	<0.05	8	<0.5	<0.2
106984	Soil	18	14	0.36	164	0.030	<1	1.13	0.007	0.26	0.2	<0.01	3.5	0.3	<0.05	4	<0.5	<0.2
106985	Soil	26	21	0.35	533	0.043	1	1.13	0.014	0.08	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
106986	Soil	32	18	0.26	492	0.027	<1	0.99	0.010	0.10	0.1	0.02	2.4	0.1	<0.05	3	<0.5	<0.2
106987	Soil	25	26	0.42	534	0.046	<1	1.56	0.014	0.10	0.2	0.03	3.2	0.1	<0.05	4	<0.5	<0.2
106988	Soil	37	10	0.12	242	0.008	1	0.66	0.008	0.14	<0.1	0.01	2.6	<0.1	<0.05	2	0.5	<0.2
106989	Soil	39	16	0.54	263	0.037	<1	1.30	0.005	0.36	0.1	0.01	6.2	0.3	<0.05	4	<0.5	<0.2
106990	Soil	53	16	0.57	324	0.036	<1	1.30	0.006	0.39	0.1	<0.01	6.1	0.4	<0.05	4	<0.5	<0.2
106991	Soil	29	22	0.34	473	0.053	1	1.24	0.012	0.07	0.1	0.02	2.9	<0.1	<0.05	4	0.6	<0.2

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Project: QUARTZ
 Report Date: November 26, 2011

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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	0.1	2	0.01	0.001
106992	Soil	0.9	28.3	11.5	46	<0.1	21.3	7.2	260	2.28	8.5	1.1	0.5	6.7	26	<0.1	0.8	0.2	47	0.27	0.032
106993	Soil	1.0	29.0	11.7	49	<0.1	21.9	7.2	276	2.32	9.1	0.9	2.4	7.7	25	<0.1	0.8	0.2	50	0.24	0.023
106994	Soil	0.8	17.1	21.7	40	<0.1	16.0	7.1	285	1.93	6.5	0.9	<0.5	10.2	13	<0.1	0.5	0.1	37	0.12	0.012
106995	Soil	1.1	21.7	23.5	39	<0.1	13.8	5.1	205	1.62	7.1	1.0	3.6	11.8	16	<0.1	0.6	0.2	30	0.12	0.011
106996	Soil	1.3	28.0	20.2	47	0.2	19.0	6.4	232	2.06	11.3	1.0	4.3	11.6	17	<0.1	0.8	0.2	39	0.14	0.012
106997	Soil	0.7	27.2	15.9	43	0.4	19.4	6.4	182	2.07	9.1	0.8	4.2	9.8	21	<0.1	0.6	0.2	37	0.25	0.039
106998	Soil	1.1	26.4	19.4	47	0.5	18.1	5.6	221	2.07	10.3	1.0	7.3	10.6	23	<0.1	0.7	0.2	38	0.24	0.024
106999	Soil	1.0	24.6	27.2	72	<0.1	19.0	6.3	209	2.11	11.2	1.0	0.8	9.8	14	0.2	0.6	0.2	26	0.16	0.022
107000	Soil	1.3	25.3	17.3	90	0.1	21.6	7.1	312	2.16	14.1	1.3	1.5	8.5	20	0.4	0.8	0.2	33	0.24	0.026
106970	Soil	0.6	23.5	12.5	55	<0.1	16.9	6.7	205	2.18	6.2	1.4	3.8	7.3	28	<0.1	0.7	0.2	40	0.32	0.040
106971	Soil	0.8	13.2	14.1	47	<0.1	11.7	5.4	222	1.84	4.8	1.1	1.2	8.9	20	0.1	0.6	0.1	34	0.22	0.024
106972	Soil	0.7	12.3	13.7	52	0.1	10.7	4.5	176	1.81	4.8	1.0	0.9	7.5	20	0.1	0.5	0.2	33	0.23	0.035
106973	Soil	0.6	10.2	15.3	45	<0.1	9.3	3.9	152	1.59	3.9	1.1	1.5	9.8	13	0.1	0.4	0.1	29	0.14	0.018
106974	Soil	0.6	12.6	14.8	52	<0.1	10.9	6.7	240	1.99	4.4	1.0	1.4	12.3	14	0.1	0.5	0.2	32	0.15	0.017
106975	Soil	0.7	8.7	16.5	31	0.1	8.0	3.3	165	1.61	5.1	0.6	3.3	5.1	13	0.1	0.4	0.2	44	0.12	0.016
106976	Soil	0.5	14.2	21.0	77	<0.1	13.1	5.9	235	2.00	4.5	1.5	2.4	16.2	19	<0.1	0.5	0.2	26	0.18	0.013
106977	Soil	0.5	13.1	16.9	49	<0.1	25.7	9.3	229	1.86	3.6	0.9	6.5	10.7	15	<0.1	0.7	0.2	36	0.21	0.009
106978	Soil	0.6	7.4	12.7	45	0.1	6.4	2.7	170	1.31	3.8	0.9	<0.5	5.1	12	<0.1	0.3	0.4	20	0.09	0.014
106979	Soil	0.8	6.2	16.9	58	<0.1	6.9	4.2	356	1.57	3.1	0.9	1.3	8.9	10	0.1	0.6	0.2	21	0.09	0.017
106980	Soil	1.5	11.4	32.2	38	<0.1	4.4	2.3	129	1.10	2.1	2.0	<0.5	9.8	19	0.1	0.2	0.4	7	0.08	0.006
106981	Soil	0.7	9.6	46.3	78	0.1	6.6	3.4	290	1.22	4.8	1.1	0.9	11.6	10	0.2	0.3	0.2	19	0.09	0.022
106982	Soil	1.0	14.6	27.9	72	<0.1	7.2	5.1	281	1.67	3.3	1.7	<0.5	15.6	10	0.1	0.2	1.2	13	0.06	0.025
106983	Soil	1.0	7.0	20.1	73	<0.1	4.9	6.0	529	1.87	3.0	2.0	<0.5	18.7	13	0.1	0.2	0.2	14	0.09	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	0.1	0.01	0.1	0.05	1	0.5	0.2	
106992	Soil	24	28	0.42	618	0.058	<1	1.47	0.015	0.07	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
106993	Soil	24	30	0.42	677	0.063	1	1.64	0.014	0.08	0.2	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
106994	Soil	31	22	0.37	366	0.043	<1	1.24	0.008	0.08	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
106995	Soil	35	18	0.33	633	0.034	1	1.03	0.009	0.10	0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
106996	Soil	24	25	0.37	691	0.047	1	1.28	0.015	0.10	0.1	0.05	3.8	<0.1	<0.05	4	<0.5	<0.2
106997	Soil	25	22	0.40	552	0.044	1	1.17	0.014	0.09	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
106998	Soil	35	23	0.39	572	0.046	<1	1.26	0.015	0.10	0.1	0.06	4.2	0.1	<0.05	4	<0.5	<0.2
106999	Soil	29	21	0.44	365	0.030	2	1.17	0.011	0.11	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
107000	Soil	25	23	0.48	431	0.038	<1	1.28	0.010	0.10	0.1	0.03	3.0	<0.1	<0.05	3	0.6	<0.2
106970	Soil	24	23	0.45	323	0.077	1	1.37	0.018	0.17	0.1	0.03	4.1	0.1	<0.05	4	<0.5	<0.2
106971	Soil	28	19	0.34	286	0.054	<1	1.09	0.009	0.11	0.1	0.03	3.2	0.1	<0.05	4	<0.5	<0.2
106972	Soil	25	18	0.37	240	0.053	<1	1.22	0.011	0.13	0.2	0.03	2.7	0.1	<0.05	4	0.5	<0.2
106973	Soil	32	15	0.32	218	0.048	<1	1.11	0.014	0.10	0.1	0.03	2.5	0.1	<0.05	4	<0.5	<0.2
106974	Soil	31	17	0.40	225	0.060	<1	1.28	0.009	0.13	0.1	0.02	2.5	0.2	<0.05	4	<0.5	<0.2
106975	Soil	15	18	0.25	200	0.054	1	1.22	0.008	0.09	0.1	0.02	1.9	0.1	<0.05	5	<0.5	<0.2
106976	Soil	59	22	0.51	355	0.056	<1	1.23	0.010	0.15	<0.1	0.03	4.5	0.2	<0.05	5	<0.5	<0.2
106977	Soil	46	49	0.83	221	0.101	1	1.41	0.007	0.11	0.1	0.02	2.7	0.2	<0.05	5	<0.5	<0.2
106978	Soil	4	9	0.32	140	0.031	<1	0.93	0.004	0.15	<0.1	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
106979	Soil	10	12	0.27	258	0.024	2	0.93	0.008	0.21	0.1	<0.01	3.2	0.2	<0.05	4	<0.5	<0.2
106980	Soil	18	5	0.11	343	0.002	<1	0.47	0.003	0.12	<0.1	0.02	3.3	<0.1	<0.05	1	<0.5	<0.2
106981	Soil	16	12	0.25	275	0.016	1	0.91	0.007	0.14	<0.1	0.02	2.2	0.1	<0.05	3	<0.5	<0.2
106982	Soil	24	9	0.44	333	0.022	<1	0.96	0.004	0.29	<0.1	<0.01	3.7	0.3	<0.05	3	<0.5	<0.2
106983	Soil	45	7	0.52	212	0.034	<1	0.99	0.010	0.42	<0.1	<0.01	3.4	0.6	<0.05	4	<0.5	<0.2



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Project: QUARTZ
Report Date: November 26, 2011

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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	
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																					
146691	Soil	0.9	29.5	25.0	114	0.2	16.8	9.9	516	2.31	22.2	1.7	3.3	3.8	29	0.4	0.7	0.2	43	0.43	0.056
REP 146691	QC	1.2	30.1	25.6	117	0.3	18.0	10.3	534	2.38	23.8	1.8	2.0	3.8	31	0.4	0.7	0.2	44	0.46	0.056
146715	Soil	1.1	16.5	10.6	44	<0.1	15.7	7.6	286	2.18	8.2	1.2	2.1	6.4	20	<0.1	0.6	0.2	44	0.23	0.021
REP 146715	QC	1.2	16.5	10.5	42	0.1	16.7	7.4	279	2.13	8.3	1.2	3.2	6.4	20	0.1	0.6	0.2	44	0.23	0.022
146733	Soil	0.8	24.1	12.5	78	0.2	20.5	7.9	313	2.57	3.3	1.7	3.1	7.0	26	0.2	0.8	0.2	41	0.38	0.042
REP 146733	QC	0.8	23.4	12.0	77	0.2	19.1	7.6	316	2.56	3.1	1.8	1.1	7.2	26	0.2	0.9	0.2	40	0.36	0.041
146743	Soil	0.5	22.4	30.5	99	0.1	10.0	4.9	273	1.90	2.8	0.8	0.7	7.7	10	0.1	0.4	0.1	23	0.08	0.016
REP 146743	QC	0.6	21.5	31.8	98	0.1	9.9	5.0	269	1.89	3.0	0.9	1.0	8.2	10	0.2	0.4	0.1	22	0.08	0.017
146753	Soil	0.6	46.5	8.9	56	<0.1	3.7	2.5	146	1.02	2.5	1.4	5.7	8.7	12	<0.1	0.2	0.2	12	0.07	0.005
REP 146753	QC	0.6	45.8	8.6	52	<0.1	3.8	2.5	145	0.97	3.0	1.4	6.0	8.3	12	<0.1	0.2	0.2	13	0.07	0.004
133292	Soil	1.1	30.9	9.8	71	0.1	26.2	9.8	440	2.25	11.3	0.6	2.1	4.1	54	0.4	0.9	0.1	48	1.42	0.076
REP 133292	QC	1.2	31.6	10.4	74	0.1	28.8	9.9	453	2.39	11.6	0.6	6.1	4.3	56	0.4	0.8	0.2	50	1.51	0.080
133301	Soil	0.6	15.5	19.3	47	0.1	11.6	4.1	161	1.43	7.2	3.0	4.8	10.0	23	0.2	0.5	0.2	27	0.23	0.021
REP 133301	QC	0.6	15.3	19.6	47	0.2	11.6	4.0	158	1.47	7.1	3.0	3.2	10.0	23	0.3	0.5	0.2	28	0.23	0.021
133316	Soil	1.4	29.6	20.6	92	0.1	18.5	9.0	275	2.60	28.2	1.7	0.8	5.9	34	0.4	1.4	0.2	46	0.43	0.069
REP 133316	QC	1.3	29.4	21.0	88	0.1	18.0	9.0	266	2.57	28.7	1.7	3.3	6.0	35	0.4	1.5	0.2	45	0.44	0.065
133341	Soil	0.8	26.6	15.3	70	0.1	15.2	6.3	202	2.10	11.6	1.3	2.6	6.1	21	<0.1	0.5	0.3	36	0.29	0.050
REP 133341	QC	0.8	26.6	14.9	72	0.1	15.8	6.3	204	2.14	11.5	1.3	3.1	6.0	21	0.1	0.5	0.3	38	0.31	0.049
133368	Soil	1.7	21.0	11.2	39	0.2	10.2	4.0	121	1.72	7.4	3.2	2.7	4.9	18	0.2	0.4	0.3	31	0.16	0.037
REP 133368	QC	1.7	21.2	11.6	39	0.2	10.1	4.0	123	1.78	7.3	3.2	2.7	5.1	19	0.2	0.4	0.3	32	0.17	0.037
133384	Soil	1.0	47.1	106.6	148	0.2	13.8	5.6	175	2.05	8.8	4.1	3.6	19.8	12	0.2	0.5	0.1	33	0.08	0.015
REP 133384	QC	0.9	46.4	102.2	146	0.2	14.0	5.7	176	2.09	8.4	3.9	3.3	19.3	12	0.2	0.5	0.2	32	0.08	0.015
133392	Soil	0.7	14.2	20.0	77	<0.1	6.5	3.8	117	1.78	4.4	2.6	1.1	14.7	20	0.1	2.1	0.1	9	0.03	0.019
REP 133392	QC	0.7	13.7	20.4	80	<0.1	6.7	3.7	115	1.75	4.4	2.7	1.7	14.9	20	0.2	2.2	<0.1	9	0.03	0.017
134271	Soil	2.1	55.8	57.5	124	0.2	115.2	29.2	970	4.47	2.2	4.0	7.2	38.6	265	0.4	<0.1	0.1	140	1.61	0.484
REP 134271	QC	2.0	55.3	57.4	121	0.2	113.4	29.0	965	4.49	1.9	3.9	7.4	37.9	262	0.4	0.1	<0.1	139	1.59	0.473
134282	Soil	1.2	16.5	38.3	37	0.7	9.3	6.9	250	1.57	42.6	2.7	2.6	17.0	22	0.1	0.7	0.5	19	0.20	0.009
REP 134282	QC	1.3	16.6	39.5	36	0.7	10.6	6.7	254	1.60	42.9	2.9	7.6	17.1	23	0.2	0.7	0.5	21	0.19	0.009



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Project: QUARTZ
Report Date: November 26, 2011

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QUALITY CONTROL REPORT

WHI11001317.1

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																		
146691	Soil	20	24	0.54	365	0.043	<1	1.32	0.012	0.06	0.2	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
REP 146691	QC	21	25	0.55	372	0.046	<1	1.38	0.013	0.07	0.2	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
146715	Soil	23	25	0.44	474	0.052	<1	1.31	0.012	0.09	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 146715	QC	22	24	0.43	457	0.054	<1	1.27	0.013	0.08	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
146733	Soil	31	25	0.65	410	0.091	<1	1.55	0.010	0.31	0.2	0.05	4.8	0.2	<0.05	6	<0.5	<0.2
REP 146733	QC	31	25	0.66	413	0.086	1	1.55	0.010	0.29	0.2	0.05	4.4	0.2	<0.05	6	0.9	<0.2
146743	Soil	20	12	0.49	376	0.051	<1	1.15	0.006	0.18	<0.1	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
REP 146743	QC	20	12	0.50	371	0.051	<1	1.17	0.005	0.18	0.1	<0.01	3.3	0.3	<0.05	4	<0.5	<0.2
146753	Soil	12	6	0.63	215	0.019	<1	0.86	0.003	0.07	<0.1	<0.01	2.1	0.1	<0.05	3	<0.5	<0.2
REP 146753	QC	11	5	0.59	203	0.018	<1	0.79	0.003	0.07	<0.1	<0.01	1.9	0.1	<0.05	3	<0.5	<0.2
133292	Soil	13	23	0.85	349	0.066	2	1.11	0.024	0.08	0.2	0.03	2.8	<0.1	0.06	3	<0.5	<0.2
REP 133292	QC	14	23	0.86	350	0.069	2	1.16	0.027	0.08	0.2	0.03	3.0	<0.1	0.06	3	<0.5	<0.2
133301	Soil	42	18	0.28	403	0.050	<1	0.86	0.011	0.08	0.1	0.03	4.1	<0.1	<0.05	3	0.6	<0.2
REP 133301	QC	42	18	0.26	402	0.049	<1	0.82	0.010	0.08	0.1	0.03	4.0	<0.1	<0.05	3	0.6	<0.2
133316	Soil	23	24	0.48	368	0.057	1	1.15	0.016	0.09	0.3	0.05	3.7	<0.1	0.05	3	0.7	<0.2
REP 133316	QC	24	24	0.47	374	0.058	<1	1.13	0.013	0.08	0.4	0.04	3.8	<0.1	<0.05	3	0.9	<0.2
133341	Soil	19	22	0.41	268	0.043	<1	1.03	0.010	0.06	0.2	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
REP 133341	QC	19	23	0.42	266	0.043	<1	1.01	0.009	0.06	0.2	0.03	3.5	<0.1	<0.05	3	0.8	<0.2
133368	Soil	25	17	0.32	250	0.033	<1	1.08	0.005	0.08	0.2	0.03	2.4	0.1	0.05	4	<0.5	<0.2
REP 133368	QC	25	18	0.33	257	0.034	<1	1.10	0.006	0.09	0.2	0.04	2.5	0.2	<0.05	4	<0.5	<0.2
133384	Soil	51	20	0.47	229	0.047	1	1.27	0.009	0.10	0.1	0.07	4.1	0.1	<0.05	4	<0.5	<0.2
REP 133384	QC	50	20	0.47	219	0.045	<1	1.26	0.008	0.10	<0.1	0.07	4.0	0.1	<0.05	4	0.5	<0.2
133392	Soil	50	8	0.15	405	0.006	2	0.71	0.003	0.16	<0.1	0.14	3.4	0.1	<0.05	2	<0.5	<0.2
REP 133392	QC	49	8	0.15	396	0.006	3	0.68	0.003	0.16	<0.1	0.12	3.3	0.1	<0.05	2	<0.5	<0.2
134271	Soil	85	168	2.37	657	0.114	<1	1.40	0.029	0.68	<0.1	0.04	11.0	0.4	<0.05	7	<0.5	<0.2
REP 134271	QC	85	166	2.35	666	0.109	<1	1.42	0.029	0.68	<0.1	0.03	11.1	0.4	<0.05	8	<0.5	<0.2
134282	Soil	43	18	0.28	543	0.017	<1	1.13	0.007	0.15	0.1	0.01	3.1	<0.1	<0.05	3	1.1	2.2
REP 134282	QC	44	19	0.28	537	0.019	<1	1.17	0.007	0.15	0.1	0.01	3.1	<0.1	<0.05	3	1.1	2.0

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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 Report Date: November 26, 2011

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QUALITY CONTROL REPORT

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		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
134301	Soil	0.3	4.4	12.4	23	<0.1	2.9	1.7	62	1.05	2.0	1.9	<0.5	9.7	6	<0.1	0.2	0.2	10	0.04	0.008
REP 134301	QC	0.3	4.5	12.6	24	<0.1	2.8	1.8	63	1.04	2.0	1.9	<0.5	9.6	6	<0.1	0.2	0.2	9	0.04	0.008
106997	Soil	0.7	27.2	15.9	43	0.4	19.4	6.4	182	2.07	9.1	0.8	4.2	9.8	21	<0.1	0.6	0.2	37	0.25	0.039
REP 106997	QC	0.8	26.0	16.3	42	0.4	18.7	6.5	177	2.01	9.0	0.9	4.1	10.1	22	<0.1	0.6	0.2	37	0.25	0.037
106982	Soil	1.0	14.6	27.9	72	<0.1	7.2	5.1	281	1.67	3.3	1.7	<0.5	15.6	10	0.1	0.2	1.2	13	0.06	0.025
REP 106982	QC	1.1	14.7	26.5	71	<0.1	6.9	5.5	287	1.67	3.2	1.8	1.1	15.4	9	0.1	0.2	1.2	13	0.05	0.025
Reference Materials																					
STD DS8	Standard	12.2	106.4	123.9	309	1.8	36.0	7.3	609	2.44	25.0	2.9	102.3	6.8	71	2.5	5.6	7.2	41	0.67	0.074
STD DS8	Standard	11.9	104.1	114.9	302	1.7	37.1	7.2	578	2.30	26.8	2.6	107.6	6.4	67	2.1	5.1	6.3	45	0.62	0.073
STD DS8	Standard	11.1	117.1	124.5	310	1.8	36.4	7.2	583	2.34	27.0	2.6	108.9	6.0	68	2.2	6.0	6.9	41	0.62	0.080
STD DS8	Standard	13.6	123.3	120.9	309	1.7	38.9	7.9	600	2.38	30.2	2.9	117.1	7.1	64	2.7	6.3	7.7	43	0.64	0.082
STD DS8	Standard	11.7	115.7	119.2	304	1.7	37.7	7.4	590	2.37	24.5	2.6	96.7	6.3	69	2.2	5.9	6.6	42	0.67	0.078
STD DS8	Standard	13.3	107.4	123.4	306	1.7	37.5	7.3	607	2.36	25.2	2.8	107.2	7.3	73	2.3	5.5	6.6	43	0.71	0.078
STD DS8	Standard	12.8	109.8	123.7	300	1.8	37.7	7.4	593	2.39	24.8	2.8	106.0	6.8	65	2.3	5.5	6.6	43	0.67	0.076
STD DS8	Standard	12.5	109.3	131.0	307	1.9	36.8	7.3	606	2.39	25.7	3.2	102.6	7.6	64	2.4	4.9	5.5	41	0.67	0.079
STD DS8	Standard	13.2	116.8	133.0	318	1.8	38.1	7.7	634	2.54	28.0	3.3	116.2	8.0	66	2.5	5.1	5.8	44	0.70	0.083
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	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



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Project: QUARTZ
 Report Date: November 26, 2011

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QUALITY CONTROL REPORT

WHI11001317.1

		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
134301	Soil	46	5	0.21	113	0.037	<1	0.67	0.003	0.24	0.1	0.01	1.7	0.2	<0.05	3	<0.5	<0.2
REP 134301	QC	45	5	0.21	116	0.037	<1	0.66	0.003	0.23	0.1	<0.01	1.6	0.2	<0.05	3	<0.5	<0.2
106997	Soil	25	22	0.40	552	0.044	1	1.17	0.014	0.09	0.1	0.02	3.3	0.1	<0.05	3	<0.5	<0.2
REP 106997	QC	25	21	0.38	549	0.043	1	1.13	0.015	0.08	0.1	0.04	3.2	<0.1	<0.05	3	<0.5	<0.2
106982	Soil	24	9	0.44	333	0.022	<1	0.96	0.004	0.29	<0.1	<0.01	3.7	0.3	<0.05	3	<0.5	<0.2
REP 106982	QC	24	9	0.43	336	0.020	1	0.97	0.005	0.30	<0.1	<0.01	3.6	0.3	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	14	113	0.61	280	0.110	3	0.94	0.101	0.46	2.9	0.19	2.8	5.5	0.08	5	5.2	4.7
STD DS8	Standard	13	109	0.59	252	0.113	2	0.90	0.111	0.42	2.8	0.19	2.9	5.2	0.14	4	4.4	4.9
STD DS8	Standard	11	111	0.58	253	0.110	2	0.84	0.088	0.40	2.9	0.22	2.4	5.4	0.18	4	4.9	4.8
STD DS8	Standard	16	120	0.60	273	0.133	2	0.89	0.091	0.39	2.9	0.19	2.5	5.3	0.18	4	4.7	5.0
STD DS8	Standard	14	113	0.58	263	0.121	3	0.88	0.093	0.42	2.8	0.19	2.6	5.1	0.15	5	4.5	4.8
STD DS8	Standard	17	116	0.61	288	0.129	3	0.95	0.110	0.43	2.9	0.18	2.4	5.3	0.18	5	4.8	4.4
STD DS8	Standard	15	118	0.61	271	0.121	2	0.93	0.091	0.41	3.0	0.20	2.2	5.3	0.14	5	5.4	4.6
STD DS8	Standard	15	113	0.60	284	0.113	2	0.90	0.097	0.41	2.9	0.19	2.4	5.5	0.14	5	5.2	4.8
STD DS8	Standard	16	122	0.63	301	0.122	3	0.96	0.105	0.43	3.1	0.19	2.9	5.6	0.15	5	5.4	5.0
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<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