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**BC Geological Survey
Assessment Report
33871**

2011 GEOCHEMICAL REPORT

PC PROJECT

Kamloops Mining Division
TRIM Sheets 092I034, 092I035
UTM (NAD 83) ZONE 10 628000E 5582000N

FOR

NOVUS GOLD CORP.
1750 - 999 West Hastings Street
Vancouver, British Columbia V6C 2W2

AND

QUALITAS HOLDINGS CORP.
5215 6th Avenue
Delta, British Columbia V4M 1L6

By; R.Tim Henneberry, P.Geo.
February 11, 2012

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SUMMARY

The PC Property is an epithermal precious metal project currently 50% owned by Novus Gold Corp. and 50% owned by Qualitas Holdings Corp., a private British Columbia corporation. The road accessible PC property lies 17 kilometres southeast of Spences Bridge, British Columbia and consists of 5 claims totaling 2452 hectares.

The PC property lies within the Lower Cretaceous Spences Bridge Group, an andesitic to rhyolitic volcanic arc belt of rocks, lying in south central British Columbia. This belt stretches from the north of Princeton to the west of Cache Creek with additional outliers continuing further north to Gang Ranch. The Spences Bridge Gold Belt is emerging as a new epithermal precious metal exploration target.

The PC property is largely underlain by volcanoclastics and andesitic flows of the Pimainus Formation of the Spences Bridge Group. Nicola Group volcanics outcrop is a small sliver on the eastern part of the claim block and diorites of the Guichon Creek batholith. A small outlier of Chilcotin Group flood basalt was mapped in the south eastern corner of the claim block.

A program of prospecting, grid soil sampling and rock sampling was completed during the fall of 2011. The gold soil survey was successful in locating four distinct gold-in-soil anomalies:

- 2800 metre long discontinuous Anomaly A consists of several anomalous gold-in-soil values along its length, including values of 78.2, 35.2, 29.9 and 40.6 ppb Au.
- 1300 metre long discontinuous Anomaly B consists of several gold-in-soil values along its length, including values of 73.8, 22 and 331.3 ppb Au.
- Anomaly C appears to be parallel to Anomaly B and is represented by a 53 ppb Au value on one line.
- Anomaly D appears to be parallel to Anomaly A and is represented by a 49.8 ppb Au values on one line and an 8.1 ppb Au value on the next line. The strike projection of this anomaly is covered by a large outcropping of recent flood basalts, likely masking the anomaly, as one of the lines north of the basalt returned a value of 11.1 ppb Au.

The PC property warrants further exploration for epithermal precious metals deposits. Anomalies A and B need to be further evaluated. The strongest anomalies are A and D and they should be the main focus of the next stage of the exploration. These trends of these two anomalies need to be prospected and the soil grid needs to be tightened to from the current 200 metres by 50 metres to 50 metres by 25 metres over an area 2800 metres long by 1700 metres wide. This will result in the collection of 3933 soil samples. The cost of this program is estimated at \$225,000.

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INTRODUCTION

The purpose of this report is to compile the data for the 2011 exploration program undertaken by Novus Gold Corp. on behalf of Qualitas Holdings Corp. on PC property. This report will also meet the assessment requirements for the claims of the PC property.

This report was commissioned by Mr. Rob McMorran, the CFO of Novus Gold Corp.

Novus Gold Corp. acquired a 50 percent interest in the PC property from Qualitas Holdings Corp. by completing \$112,500 in exploration expenditures. This report documents these expenditures.

Novus and Qualitas completed a property wide soil sampling program and limited rock sampling, taking a total of 1,556 soil samples, 1 silt sample and 16 rock samples.

The author visited the PC property on January 10, 2012 for one day. He also completed earlier exploration programs on the claims comprising the PC property in 2006 (Henneberry 2006; 2007).

RELIANCE ON OTHER EXPERTS

The author is not relying on a report or opinion of any experts. The ownership of the claims comprising the property and the ownership of the surrounding claims has been taken from the Mineral Titles Online database maintained by the British Columbia Ministry of Energy and Mines. The data on this site is assumed to be correct.

The section on the History of the property area has been taken from the British Columbia Ministry of Energy and Mines Assessment Files. The geological assessment reports have been written by competent geologists and engineers to the industry standards of the day. The rock, soil and silt analyses were completed by reputable Canadian assay labs, in accord with the industry standards of the day.

PROPERTY DESCRIPTION AND LOCATION

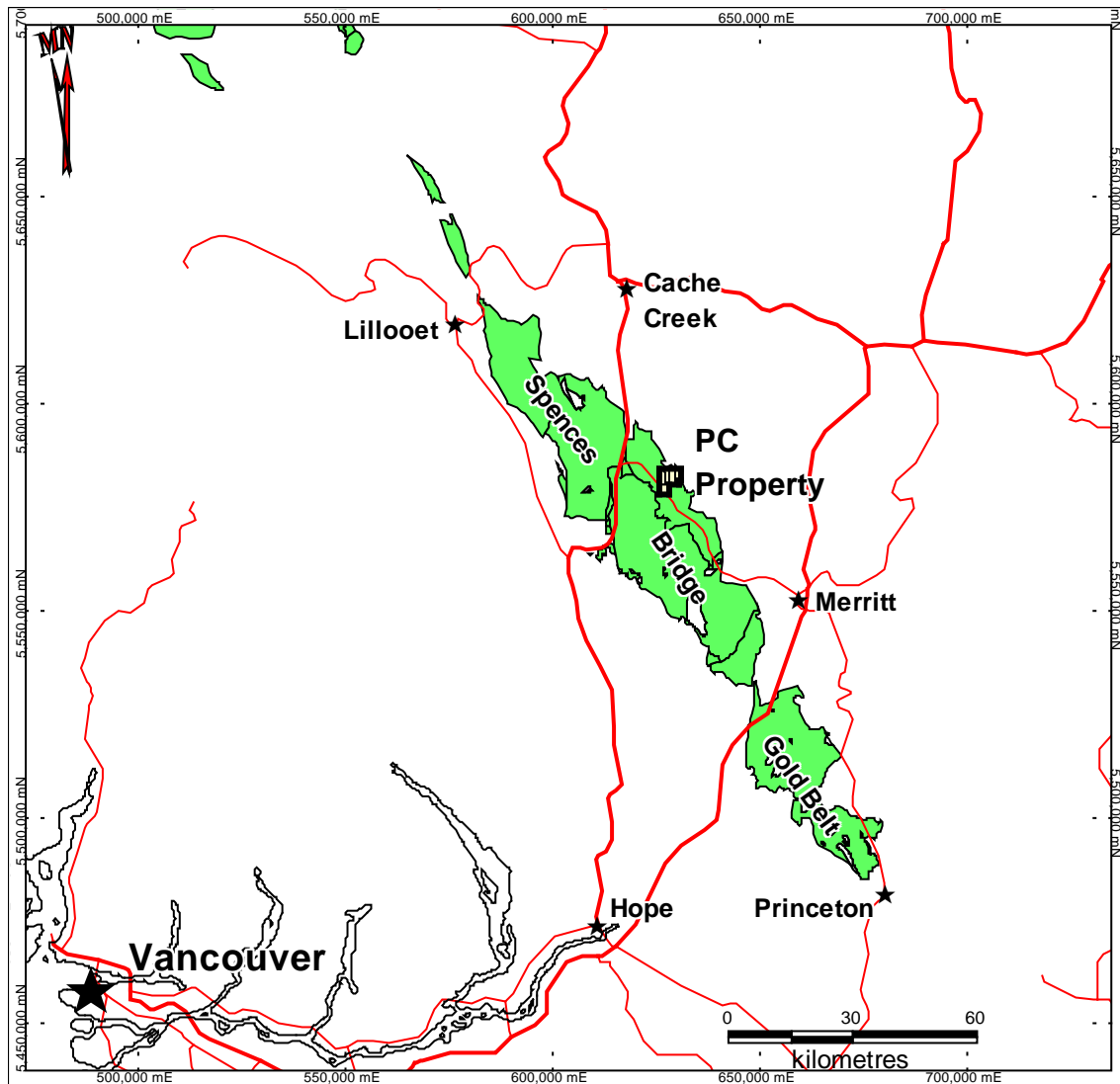
The PC project lies on TRIM claim sheets 092I034 and 092I035 in the Kamloops Mining Division. The property consists of 5 tenures totaling 2,452.31 hectares. . The geographic center of the property is approximately UTM ZONE 10 628000E 5582000N (NAD 83).

Table 1. List of Tenures

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
903429	PC 1	247642 (100%)	092I	2011/sep/28	2015/oct/31*	453.30
903449	PC 2	247642 (100%)	092I	2011/sep/28	2015/oct/31*	494.52
903469	PC 3	247642 (100%)	092I	2011/sep/28	2015/oct/31*	494.53
903489	PC 4	247642 (100%)	092I	2011/sep/28	2015/oct/31*	494.53
903509	PC 5	247642 (100%)	092I	2011/sep/28	2015/oct/31*	515.43
	5 claims					2452.31

*pending approval of 2011 assessment credits

The claims were acquired by staking by Qualitas Holdings Corp. Qualitas vended a 50 percent interest in the claims to Novus Gold Corp. on October 12, 2011. In order to acquire the 50 percent interest Novus was required to complete \$112,500 in exploration expenditures, which have been completed.

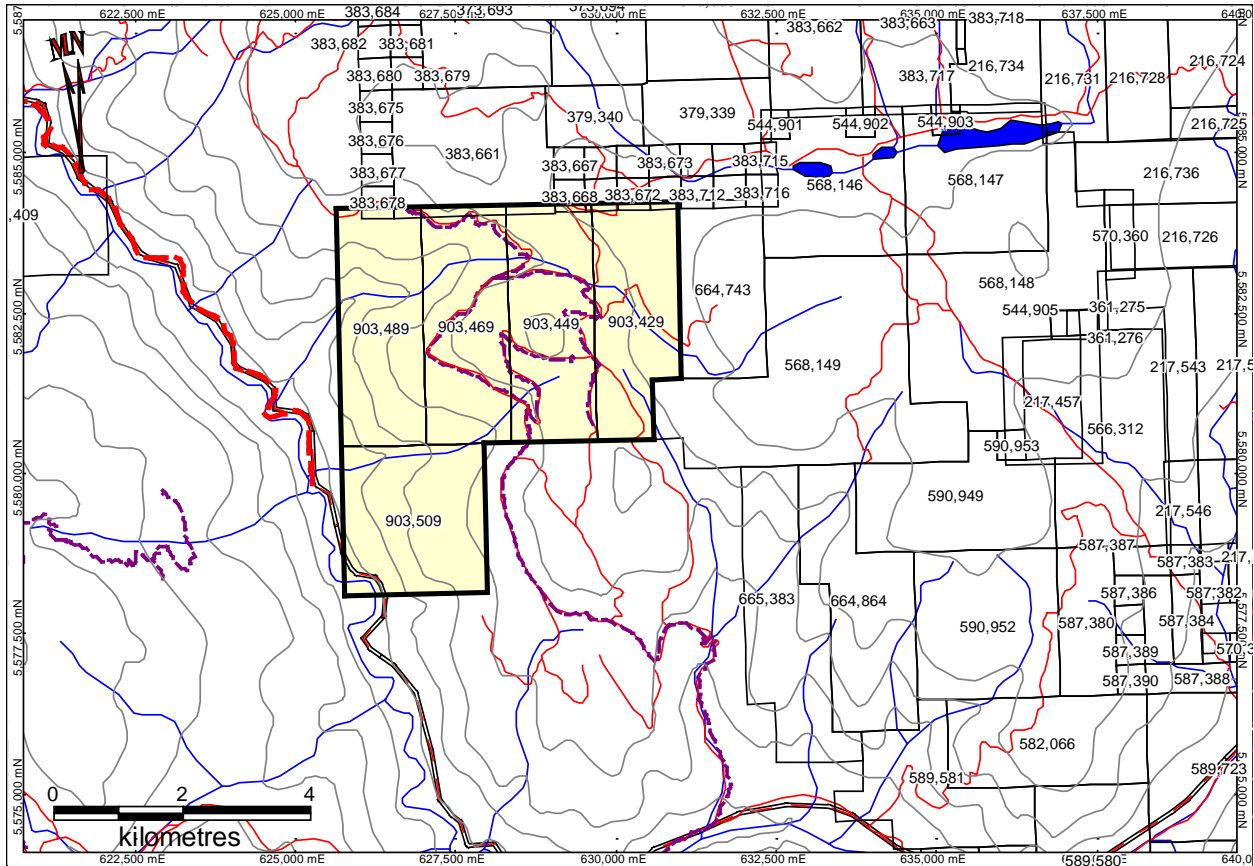


Datum NAD 83 Zone 10

Figure 1. Location Map

The author is not aware of any environmental liabilities associated with the PC property. The recommended work program will follow up soil sampling which does not require a permit. In the event follow up soil sampling program is successful, excavator trenching and/or diamond drilling programs will be the next set. These programs will require permits that according to the British Columbia Ministry of Energy, Mines and Petroleum Resources should take 6 months or less.

The author is not aware of any other significant factors or risks that may affect access, title or the right or ability to perform work on the PC property.



Datum NAD 83 Zone 10

Figure 2. Claim Map

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The PC project is located 11 kilometres southeast of the village of Spences Bridge. Road access is via Highway 8 south from Spences Bridge approximately 17 kilometres to the Skuhun Creek Forestry Road. The Pimainus Lake Road leaves Skuhun Creek Road at kilometre 2. The property lies at kilometre 15-17 on the Pimainus Lake Road. A series of logging roads provide access through most of the claim block.

The topography is steep, ranging from 300 metres at the Nicola River to 1700 metres at the extreme eastern end of the property. The claims are generally covered with open stands of pine, with lesser spruce and fir. The underbrush is thin except within creek drainages. The logging road system provides excellent access above the Pimainus Road, while the steeper terrain below the road is only accessible by foot.

The climate of this part of the province is typical of the southern interior of British Columbia. The summer field season is generally warm and dry and runs from mid- to late- April through to late-October. Winters are cold with significant snow accumulations. Temperatures can dip to minus 20 Celsius for extended periods.

The logistics of working in this part of the province are excellent. Gravel road access will allow the movement of supplies and equipment by road. Heavy equipment should be available locally in Merritt, as are supplies, fuel and lodging. Depending on the type of exploration program to be conducted, the field season generally runs from late-April to early-November.

HISTORY

There was no recorded exploration on the PC property prior to the initial discoveries of epithermal precious metal mineralization in the Spences Bride Group rocks by Almaden Minerals Ltd. in the early 2000's. This spurred a staking rush that resulted in the staking of the entire Spences Bridge Group by 2005.

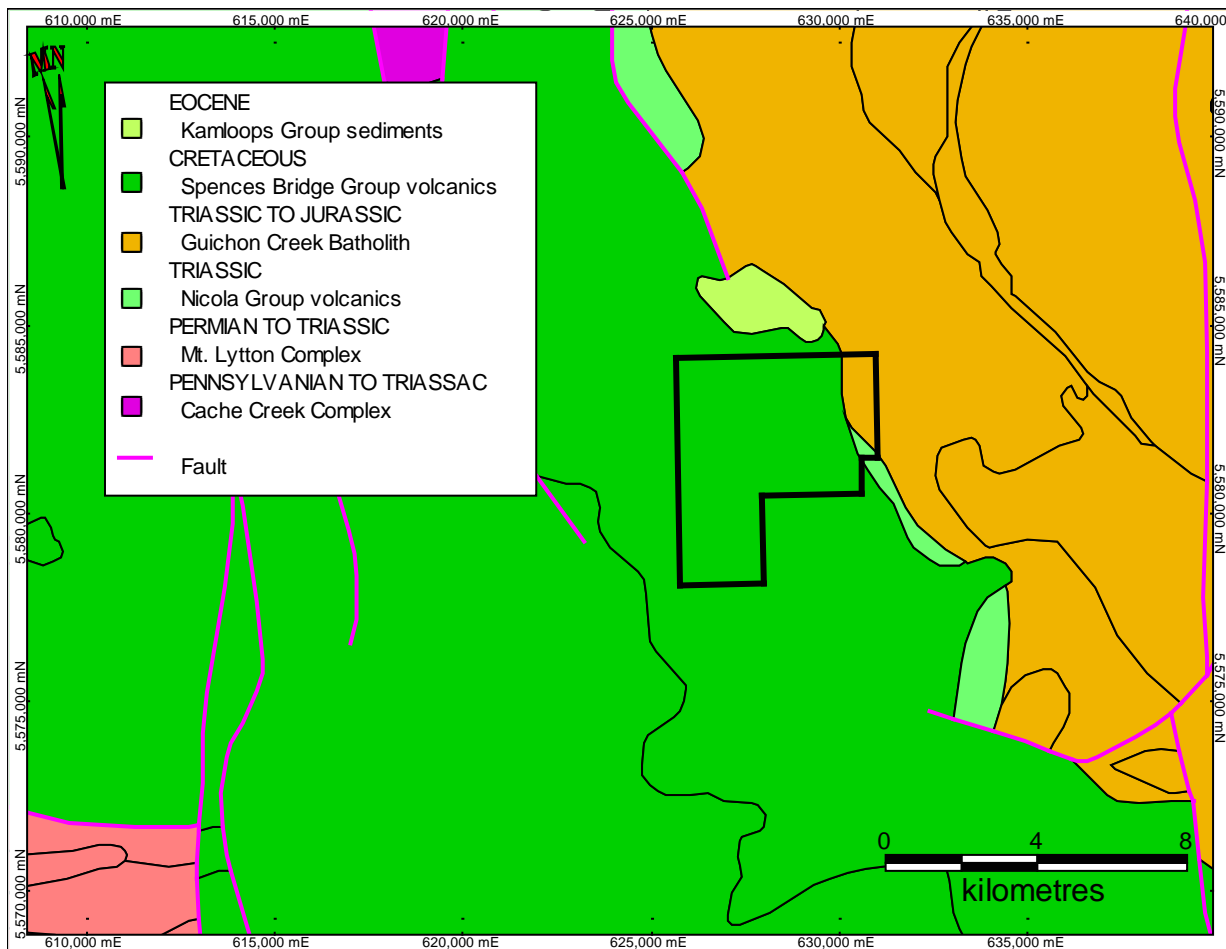
In the summer of 2006 Tanqueray Resources Ltd. completed a program of property wide silt sampling, road side and grid soil sampling, rock sampling, prospecting and mapping on the Pima property, which includes the ground now covered by the northern portion of the PC property. These programs were successful in uncovering the Pima Shear Zone, a 5-7 metre, NWW trending zone of alteration with associated epithermal quartz veinlets. Sampling showed the zone is weakly anomalous in gold, resulting in a 3 km by 3 km soil geochemistry grid. The soil grid highlighted the strike projection of the Pima Shear Zone in the area tested and also uncovered two potential shear zones in the hanging wall. (Henneberry, 2006). The Pima Shear Zone is located in the northern portion of the PC property.

In the summer of 2006 Appleton Exploration Inc. completed a program of property wide silt sampling, road side and grid soil sampling, rock sampling, prospecting and mapping on the Clapperton property which includes the ground now covered by the southern portion of the PC property. These programs were was successful in locating the weakly anomalous alteration shear zone. Soil geochemistry over the zone was successful in tracing it along strike with gold in soil anomalies. (Henneberry, 2007). This shear zone is located on the southern portion of the PC property.

GEOLOGICAL SETTING

(Summarized from MINFILE 092G, 092H, 092I, 092J, 092O, 092P; Green and Trupia, 1989)

The Spences Bridge Gold Belt lies within the Intermontane Tectonic Belt of Central British Columbia, proximal to its western boundary with the Coast Plutonic Belt. The Intermontane Belt is a region of relatively low topographic and structural relief, while the Coast Plutonic Belt is a region of high topographic and structural relief. The regional map (Figure 3) also shows small elements of Insular Belt to the extreme southwest and the Omineca Belt to the extreme northeast. The elements of these latter two belts have no relevance to the Spences Bridge Gold Belt and warrant no further discussion.



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Figure 3. Regional Geology

The two primary belts are further divided into nine lithographic terranes in the map area: Coast Complex, Harrison, Cadwallader, Bridge River, Shuksan, Methow, Stikinia, Cache Creek and Quesnellia, respectively from west to east. Each terrane is bounded by major faults.

The Harrison and Coast Complex terranes are not directly relevant to the Spences Bridge Group and its mineralization.

The Cadwallader Terrane lies to the west of the northern outliers of the Spences Bridge Group. It comprises a series of Cretaceous clastic sediments and the Powell River Group volcanoclastics. The Bridge River Terrane consists of Mississippian to middle Jurassic marine sedimentary and volcanic rocks. The Shuksan Terrane consists primarily of Cretaceous intrusives and high grade metamorphic rocks.

The Methow Terrane forms much of the boundary between the two belts. It comprises sequences of Jurassic through to Cretaceous, predominantly fine grained, clastic sediments.

The south end of the Stikinia Terrane includes Cretaceous clastic sediments and a series of Jurassic through to Cretaceous intrusives.

The geology of the Cache Creek Terrane is complex with units ranging in age from Pennsylvanian to middle Jurassic. The rocks include a mélange of Permian to Pennsylvanian carbonates with minor clastic sediments and volcanics in the eastern and central sections and a series of Permian to middle Jurassic clastic sediments with minor carbonates and volcanoclastics to the west.

The Quesnellia Terrane consists primarily of the upper Triassic Nicola Group clastic sediments, and volcanic rocks with associated late Triassic - early Jurassic intrusions. The most important is the Guichon Creek Batholith, which hosts the Highland Valley copper deposits.

The Methow, Stikinia, Cache Creek and Quesnellia Terranes through much of the map area are covered by Cretaceous and/or Tertiary sedimentary and volcanic overlap assemblages. These include Miocene - Pliocene plateau basalts and coarse clastic sediments of the Chilcotin Group, Eocene to Oligocene volcanics and Eocene basalt and andesite, local rhyolite, breccia, tuff and sandstone thought to be related to the Kamloops Group. Spences Bridge Group flows and volcanoclastics occur as a series of outliers though the lower end of the Stikinia Terrane in the north and as a large belt within the Quesnellia Terrane in the south.

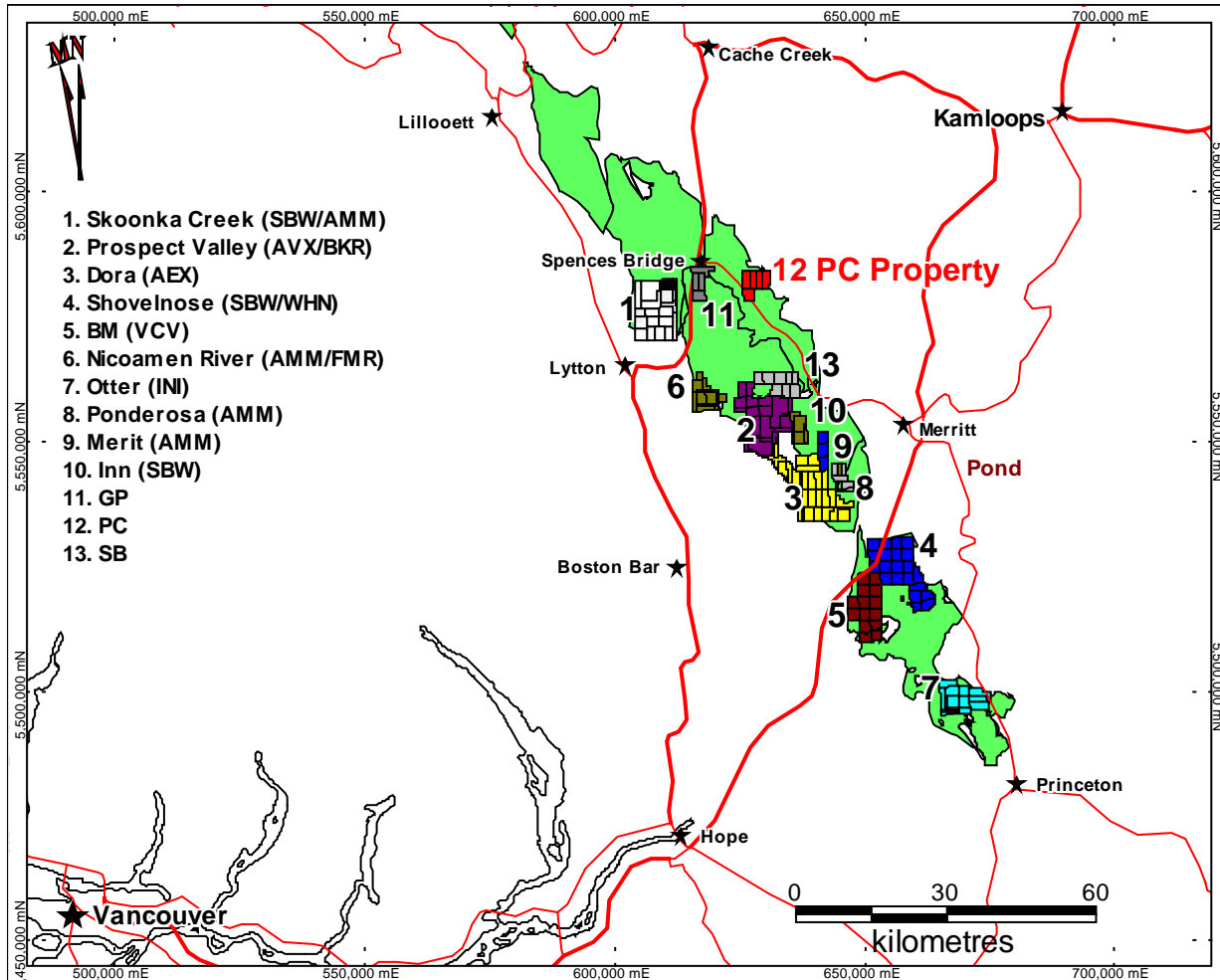
The middle to upper Cretaceous Spences Bridge Group has recently been identified as a significant target for epithermal precious metal mineralization. This group forms a northwest trending volcanic belt consisting of a thick sequence of gently folded volcanics with lesser sediments dipping shallowly to the northeast. Rocks of the Spences Bridge Group are believed to have formed as a chain of stratovolcanoes associated with subsiding, fault-bounded basins (Thorkelson, 1985).

Glacial drift and alluvium deposits were deposited in creek and river valleys by south moving Pleistocene glaciers.

Geology of the Spences Bridge Group

The Spences Bridge Group forms a northwest trending belt from 3 to 24 kilometres wide extending from north of Princeton through to east of Lillooett. (Duffel and McTaggart, 1952) A faulted extension of the belt occurs as a series of outliers in the Churn Creek / Empire Valley area west of 100 Mile House (Thorkelson, 2006). The group is estimated to be up to 3400 metres in thickness. (Thorkelson, 2006).

The Spences Bridge Group is thought to be the volcanic representation of the closure of the oceanic basin between Wrangellia to the west and the assemblage of intermontane terranes (the accreted part of ancestral North America) to the east. Spences Bridge rocks were deposited on two main basement types: west of the village of Spences Bridge, they overlie the mainly Paleozoic Cache Creek terrane; to the east, they overlie plutonic and volcanic rocks of the late Triassic Nicola Arc, part of the Quesnellia terrane. (Thorkelson 2006).

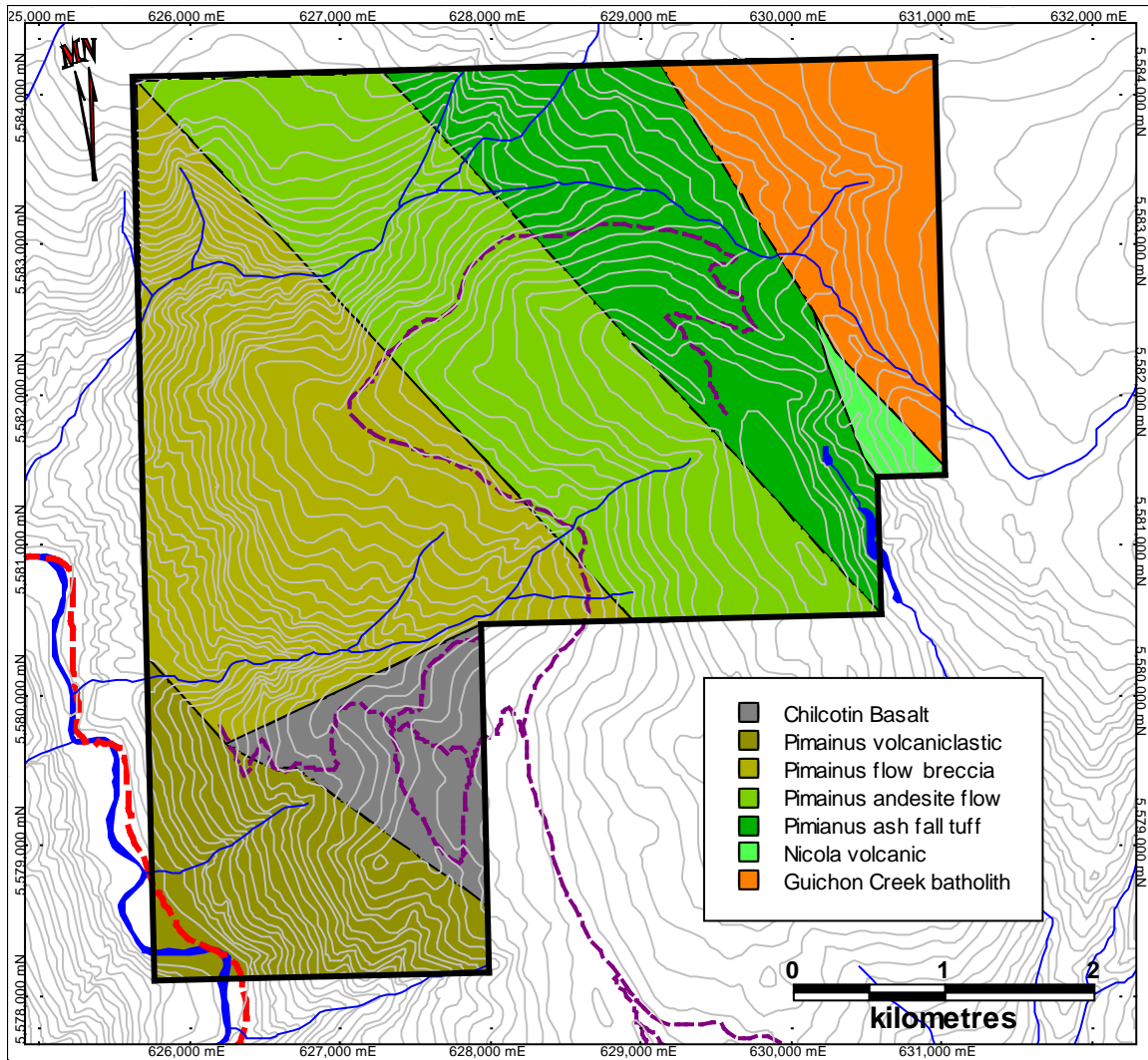


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Figure 4. Spences Bridge Gold Belt

Shortly after eruption on the Spences Bridge Group began, tectonism led to the deposition of a near-basal conglomerate that contains clasts of Triassic granitoids and Nicola volcanic rocks. These rocks commonly show foliations and lower greenschist metamorphism which are not evident in the Spences Bridge Group, suggesting Spences Bridge rocks were deposited on the basement after deposition of the Nicola Group, deformation and metamorphism, and exhumation. (Thorkelson, 2006).

The Spences Bridge Group consists of two formations: the Pimainus Formation and the overlying Spius Formation. The Pimainus Formation is highly variable, containing lava, tephra, fanglomerate, lahar, sandstone, and coal. Volcanic compositions range from basalt to rhyolite. It is most reasonably thought of as a stratovolcano assemblage. The overlying Spius Formation consists almost entirely of amygdaloidal andesitic lava, ranging from pahoehoe to aa types. In some places, the contact is conformable and hard to identify, while in others, lacustrine beds separate the two formations. (Thorkelson, 2006).



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Figure 5. PC Property Geology

The Spences Bridge Group is preserved in the Nicoamen structural depression, a complex synclorium crosscut by normal faults. It may have been forming at the same time as the Spences Bridge Group. Presently, the Spius Formation is largely confined to the centre of the structural depression but appears to be the relic of an extensive shield volcano with a few cinder cones. (Thorkelson, 2006).

Structurally, the Spences Bridge Group is generally gently folded, with dips from 10° to 40°. Individual flows and beds do not appear to be widespread. There appears to be some faulting within the group but the lack of marker horizons makes measurement of any displacement difficult. (Duffel and McTaggart, 1952).

PC Property Geology - (summarized from Henneberry, 2006; 2007)

The PC property is largely underlain by volcanoclastics and andesitic flows of the Pimainus Formation of the Spences Bridge Group. Nicola Group volcanics outcrop is a small sliver on the eastern part of the claim block and diorites of the Guichon Creek batholith. A small outlier of Chilcotin Group flood basalt was mapped in the south eastern corner of the claim block.

The northeastern part of the claims is underlain by block and ash fall tuffs. The tuffs are grey weathering and grey green to dark grey in hand specimen. The fabric of the tuffs are matrix supported with coarse grained clasts and bombs of an andesitic composition, as well as white plagioclase lapilli. These rocks are altered with chlorite and carbonate, with local fracture limonite. The alteration is pervasive throughout the rock. Very little quartz was noted throughout the block and ash fall tuffs.

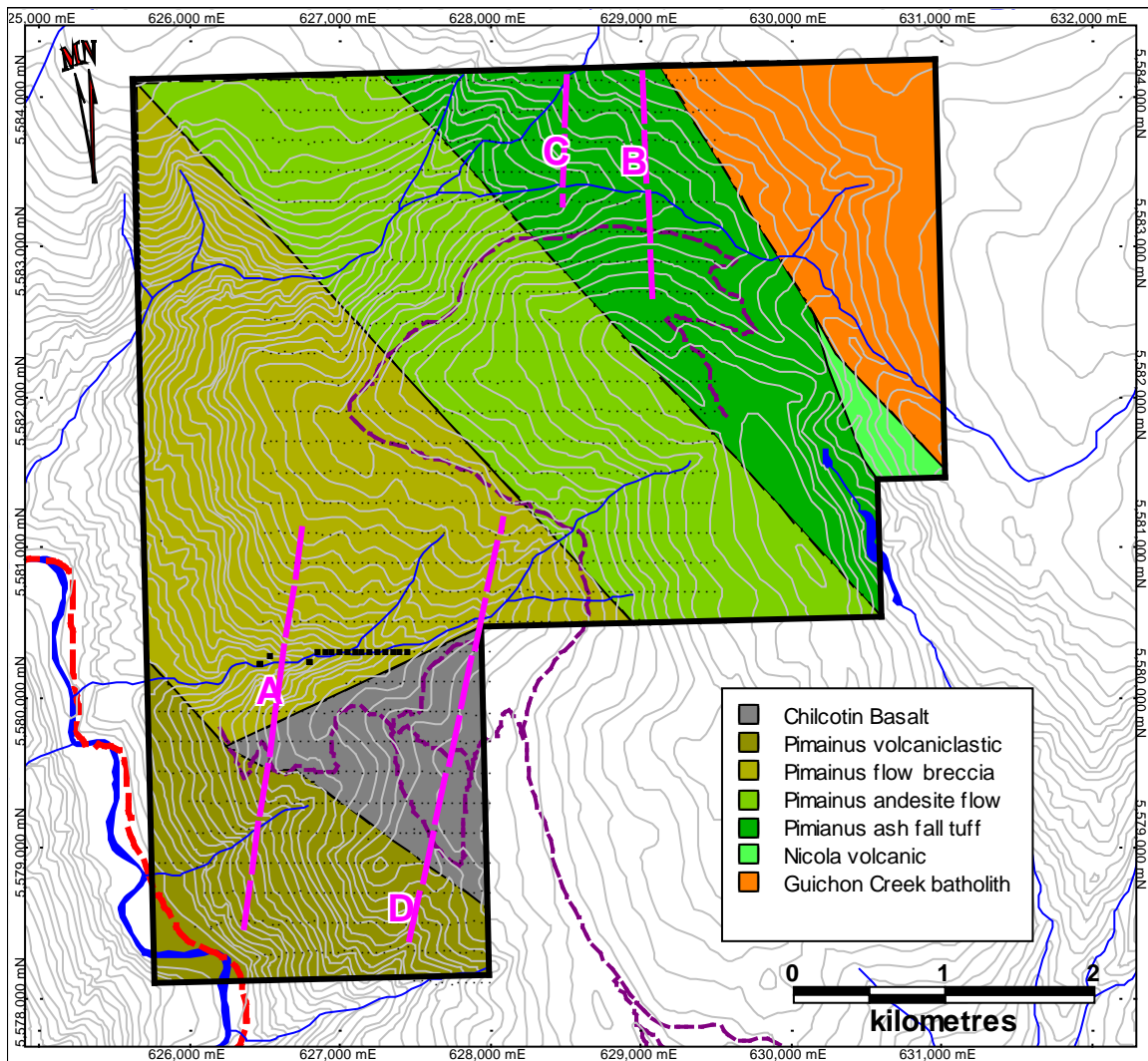
The central part of the property is underlain by andesitic flows. The flows are grey weathering, and grey green to dark grey on fresh surface. The flows are aphanitic with some porphyritic white plagioclase feldspar horizons. The phenocrysts range from 5-10 mm in size. Alteration in the flows consists of hematite, limonite and chlorite with local clay and epidote. The chlorite and hematite are pervasive throughout the formation while the clay and epidote are localized. No sulfides were noted.

The southern and western part of the property is underlain by andesitic flow breccias and lapilli tuffs. The flow breccias are grey weathering with blocky jointing. On fresh surface they are grey green to dark grey. The rock carries white plagioclase lapilli (5-10 mm in size), ranging from intact crystals to crystal fragments. The ground mass is generally aphanitic. These rocks are altered with hematite and carbonate. The orange carbonate lichen is commonly noted throughout the cliffs, suggesting carbonate alteration is pervasive through the area. The intensity of the alteration is generally weak to moderate. Shear zones containing carbonate stringers and pods are common. Hematite occurs as fracture coatings and as patches throughout the formation. Locally the alteration can be intense resulting in a mottled texture to the rock. Very little quartz was noted in the andesitic flow breccias. The lapilli in the lapilli tuffs are predominantly plagioclase with lesser mafic minerals. The lapilli are 5-10 mm in size and range from intact crystals to crystal fragments. The ground mass is generally aphanitic. These rocks are altered with hematite and carbonate. The intensity of the alteration is generally weak to moderate. Shear zones containing carbonate stringers and pods are common. Hematite occurs as fracture coatings and as patches throughout the formation. Very little quartz was noted in the volcanoclastics.

Two small syenite outcrops were located in the central part of the property. They are too small to show on the property geology map. The intrusion is pink buff weathering and porphyritic. The grey green rock contains euhedral crystals of plagioclase and K-feldspar. Alteration consists of limonite and manganese with associated clays. No sulfides were noted.

Mineralization

The exploration target for the PC property is a low sulphidation epithermal precious metal deposit. Bedrock mineralization has yet to be found on the PC property. The exploration completed to date consisted of property wide soil geochemical surveys along with preliminary rock sampling and prospecting.



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Figure 6. Soil Anomalies

The gold soil survey was successful in locating four distinct gold-in-soil anomalies:

- 2800 metre long discontinuous Anomaly A consists of several anomalous gold-in-soil values along its length, including values of 78.2, 35.2, 29.9 and 40.6 ppb Au.
- 1300 metre long discontinuous Anomaly B consists of several gold-in-soil values along its length, including values of 73.8, 22 and 331.3 ppb Au.
- Anomaly C appears to be parallel to Anomaly B and is represent by a 53 ppb Au value on one line.
- Anomaly D appears to be parallel to Anomaly A and is represented by a 49.8 ppb Au values on one line and an 8.1 ppb Au value on the next line. The strike projection of this anomaly is covered by a large outcropping of recent flood basalts, likely masking the anomaly, as one of the lines north of the basalt returned a value of 11.1 ppb Au.

The PC property is being explored for low sulphidation epithermal precious metals deposits. The following summary is condensed from British Columbia Ore Deposit Models (Panteleyev, 1996).

Low sulphidation epithermal deposits are typically hosted in volcanic island and continent-margin arcs and continental volcanic fields with extensional structures. These deposits can form in most types of volcanic rocks, though calcalkaline andesitic compositions predominate. Low sulphidation deposits can be any age, though Tertiary deposits are the most abundant. Jurassic deposits are important in British Columbia (Toodoggone).

Ore zones are typically localized in structures, but may occur in permeable lithologies. Upward-flaring ore zones centred on structurally controlled hydrothermal conduits are typical. Large (> 1 m wide and hundreds of metres in strike length) to small veins and stockworks are common with lesser disseminations and replacements. Vein systems can be laterally extensive but ore shoots have relatively restricted vertical extent. High-grade ores are commonly found in dilational zones in faults at flexures, splays and in cymoid loops.

In some districts the epithermal mineralization is tied to a specific metallogenetic event, either structural, magmatic, or both. The veins are emplaced within a restricted stratigraphic interval generally within 1 km of the paleosurface. Mineralization near surface takes place in hot spring systems, or the deeper underlying hydrothermal conduits. Normal faults, margins of grabens, coarse clastic caldera moat-fill units, radial and ring dike fracture sets and both hydrothermal and tectonic breccias are all ore fluid channeling structures. Through-going, branching, bifurcating, anastomosing and intersecting fracture systems are commonly mineralized. Hanging wall fractures in mineralized structures are particularly favourable for high-grade ore.

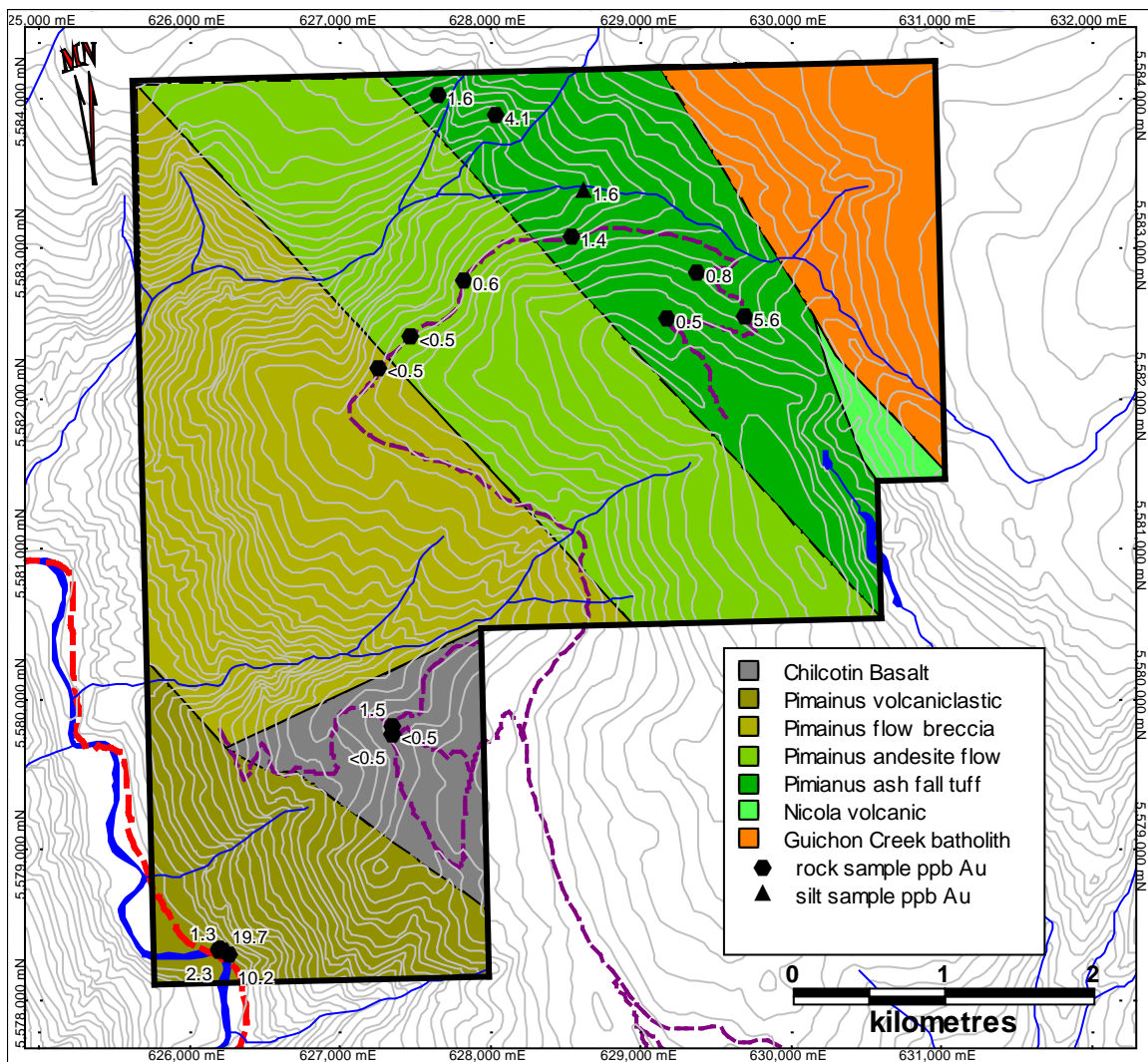
Veins are comprised of quartz, amethyst, chalcedony, quartz pseudomorphs after calcite, and calcite. They may contain lesser amounts of adularia, sericite, barite, fluorite, Ca-Mg-Mn-Fe carbonate minerals such as rhodochrosite, hematite and chlorite. Veins commonly exhibit open-space filling, symmetrical and other layering, crustification, comb structure, colloform banding and multiple brecciation.

Mineralization within the veins consists of pyrite, electrum, gold, silver and argentite, with lesser chalcopyrite, sphalerite, galena, tetrahedrite, silver sulphosalt and/or selenide minerals. Deposits can be strongly zoned along strike and vertically. Deposits are commonly zoned vertically over 250 to 350 m from a base metal poor, Au-Ag-rich top to a relatively Ag-rich base metal zone and an underlying base metal rich zone grading at depth into a sparse base metal, pyritic zone. From surface to depth, metal zones contain: Au-Ag-As-Sb-Hg, Au-Ag-Pb-Zn-Cu, Ag-Pb-Zn.

Alteration is an important in low sulphidation epithermal deposits. Silicification is extensive in ores as multiple generations of quartz and chalcedony are commonly accompanied by adularia and calcite. Pervasive silicification in vein envelopes is flanked by sericite-illite-kaolinite assemblages. Intermediate argillic alteration [kaolinite-illite-montmorillonite (smectite)] formed adjacent to some veins; advanced argillic alteration (kaolinite-alunite) may form along the tops of mineralized zones. Propylitic alteration dominates at depth and peripherally.

Prospecting for mineralized siliceous and silica-carbonate float or vein material with diagnostic open-space textures is an effective exploration method. VLF can be effective in tracing structure, while radiometric surveys may outline strong potassic alteration of wallrocks. Geochemical sampling is also an effective exploration method with elevated values in the ore metals: Au, Ag, Zn, Pb, Cu as well as elevated values for pathfinder elements: As, Sb, Ba, F, Mn and locally Te, Se and Hg. Finally, silver deposits generally have higher base metal contents than Au and Au-Ag deposits.

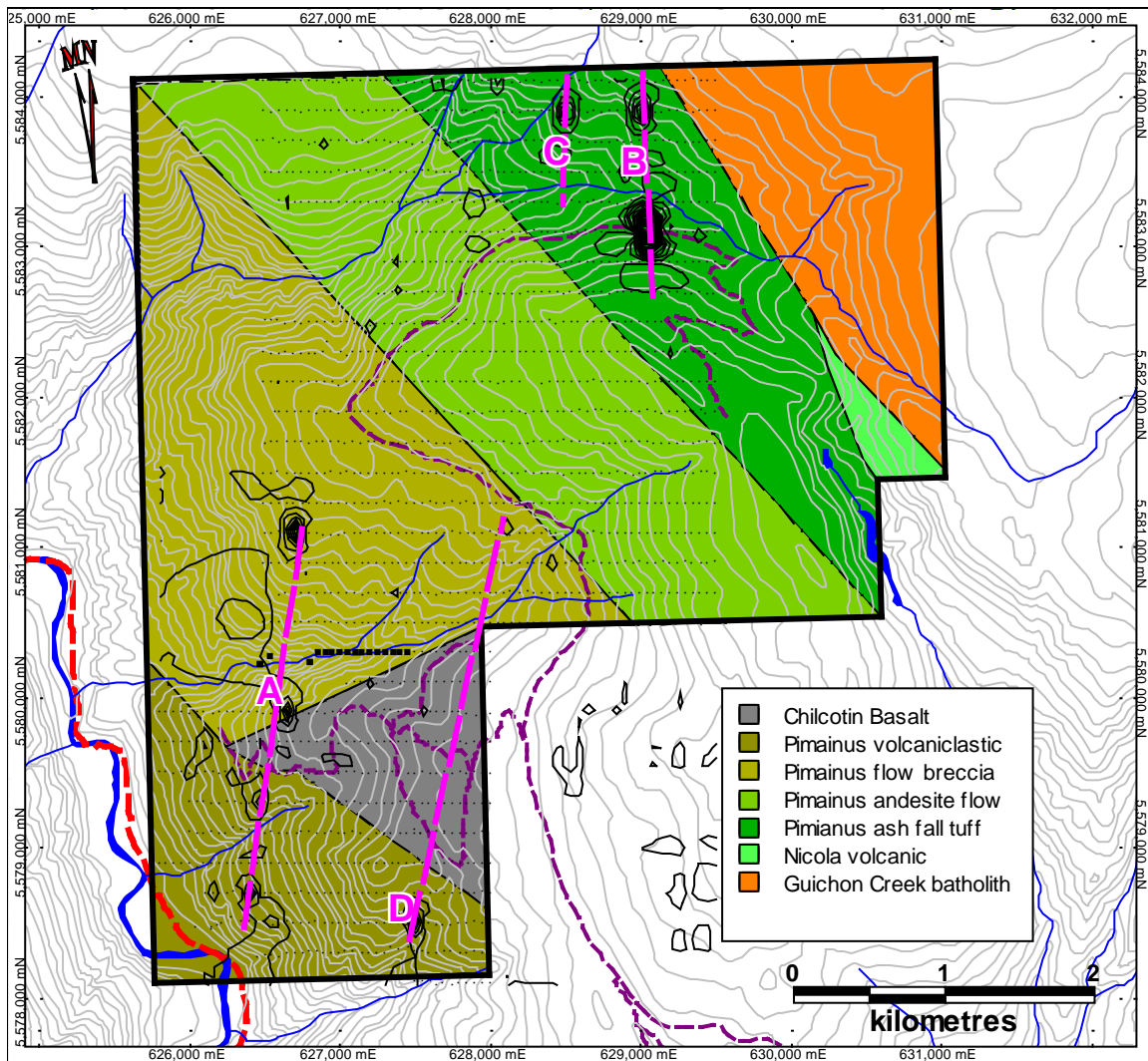
Other low sulphidation epithermal deposit examples include: Creede, Colorado USA; Toodoggone Camp, B.C.; Blackdome, B.C.; Premier, B.C.; Comstock Lode, Nevada USA and Pachuca, Mexico.



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Figure 7. PC Rock Silt Samples

Two distinct sampling surveys were completed as part of the 2011 exploration program on the PC property: road side and grid soil sampling and rock sampling. A total of 1556 soil samples 1 silt sample and 16 rock samples were taken during the October November 2011 exploration program.



Datum NAD 83 Zone 10

Figure 8. Au Soil Geochemistry

2011 rock samples from 1 to 3 kilograms for float samples and 2.5 to 8 kilograms for bedrock chip samples were collected. Float samples consisted of chips taken from one or two larger cobbles, or of several smaller fragments collected from an area of a few square metres. Individual samples were placed in labeled plastic bags, with an assay ticket also placed in the same bag. The sample locations were marked in the field with pink flagging and labeled Tyvek tags. UTM coordinates, in the map datum NAD 83, were recorded with a handheld Global Positioning System (GPS) unit.

The soil sampling survey covered most of the heart of the property and consisted of 50 metre spaced samples along 200 metre spaced lines, except for one small area where 15 road soils were taken over an alteration zone at 1 metre intervals. Each soil line was flagged and sampled at 50 metre intervals along the line measured with a hip chain. Soil bags and flagging were pre-numbered the day before. At each sample location a 500 to 1000 gram sample of the soil from the “B” horizon was taken and placed in the corresponding soil bag. Each sample location was marked as a waypoint in a GPS unit in the map datum NAD 83. The data was downloaded nightly to computers.

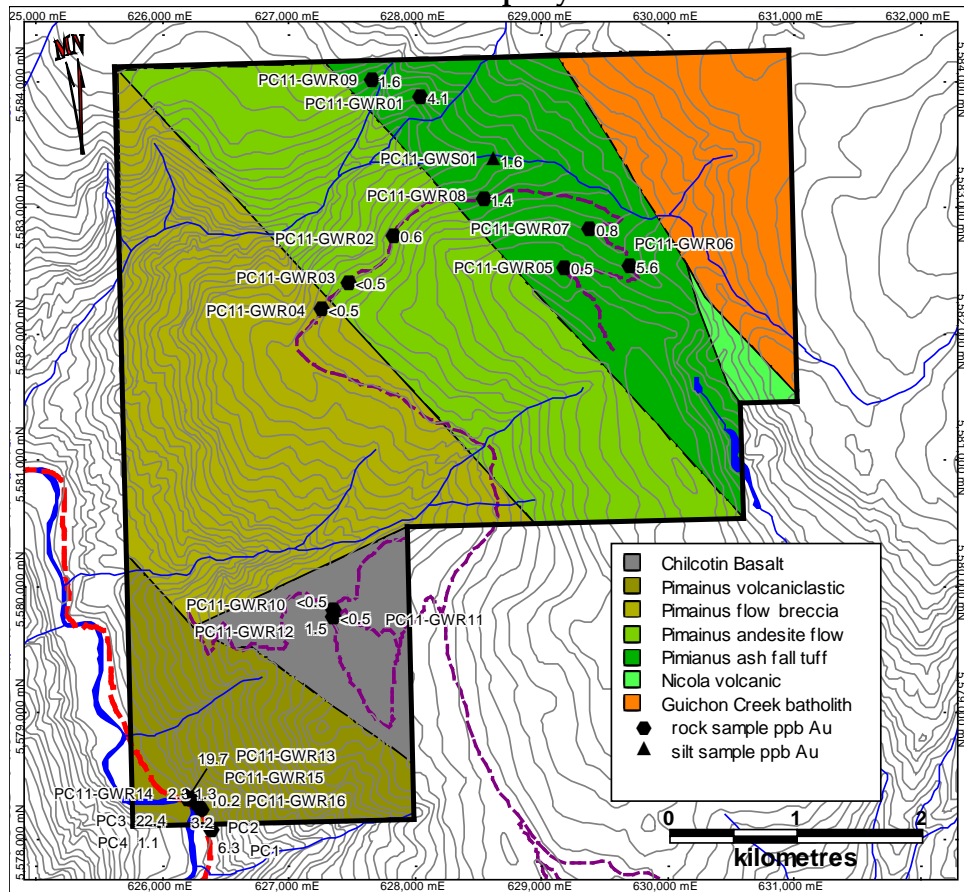
The author is not aware of any sampling or recovery factors that could materially impact the accuracy and reliability of the assay results. The author believes the samples taken by Novus Gold Corp. personnel to be representative and does not feel there are any factors that may have resulted in sample bias. There is no chance of bias in the soil sampling as these samples are just blind samples taken at regular intervals. The prospecting rock samples are generally grabs of bedrock material or float. The silt samples are blind samples of stream fines.

Table 2. 2011 Rock Samples

Sample No.	Description	Width	ppm As	ppb Au
PC11-GWR01	clay gouge in lapilli tuff	2.5	11.6	4.1
PC11-GWR02	rhyolite dyke	grab	2.3	0.6
PC11-GWR03	gossanous tuff	3.2	6.8	<0.5
PC11-GWR04	carbonate altered tuff	grab	2.7	<0.5
PC11-GWR05	clay altered tuff	grab	2.9	0.5
PC11-GWR06	rusty quartz flooded tuff	float	25.2	5.6
PC11-GWR07	gossanous tuff	float	37.6	0.8
PC11-GWR08	limonitic tuff	float	4.0	1.4
PC11-GWR09	calcite veinlets	select grab	2.1	1.6
PC11-GWR10	calcite veinlets / stockwork	grab	<0.5	<0.5
PC11-GWR11	calcite veinlets / stockwork	grab	0.6	<0.5
PC11-GWR12	calcite veinlets / stockwork	grab	0.5	1.5
PC11-GWR13	calcite vein	grab	1.9	19.7
PC11-GWR14	calcite veinlets / stockwork	1.5	4.5	2.3
PC11-GWR15	calcite veins	composite	2.1	1.3
PC11-GWR16	calcite veinlets / stockwork	2.5	4.8	10.2

The lithologies documented on the PC property include: volcanics, flow breccias, ash fall tuffs and andesitic flows of the Spences Bridge Group; diorites of the Guichon Creek batholith; Nicola Group volcanics and flood basalts of the Chilcotin Group. There has not yet been bedrock mineralization located on the PC property. The exploration target is low sulphidation epithermal precious metal mineralization which can be confined to quartz veins or fault zones, though it may be disseminated throughout porous units.

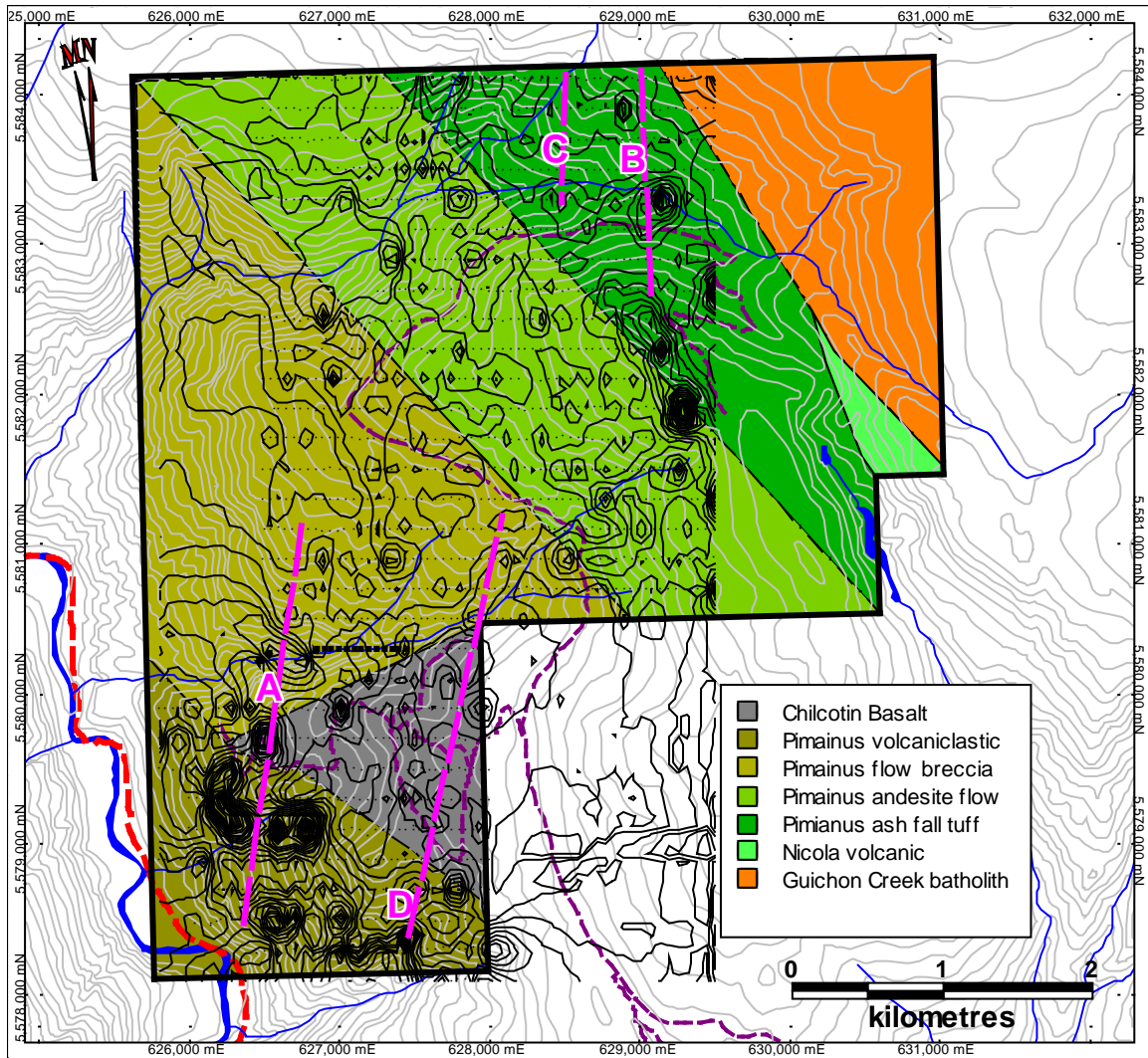
PC Property



Map Datum NAD 83 Zone 10

Rock Sample Numbers
Figure 7a

Sixteen rock samples were taken during the 2011 exploration program (Table 3; Figure 7). One sample of calcite veining in the southwest corner of the property returned a value of 19.7 ppb Au. A second sample of calcite veinlets and stockwork returned a value of 10.2 ppb Au. The remaining samples did not exceed background. The one silt sample taken returned a value of 1.6 ppb Au. (Figure 7).



Datum NAD 83 Zone 10

Figure 9. As Soil Geochemistry

The gold soil survey successfully located four distinct anomalies: A through D as shown on Figure 8. Anomaly A is 2800 metres long and consists of several anomalous gold-in-soil values along its length. Anomalous values are not continuous from line to line over the 2800 metre length. This may be a function of recent basalts masking parts of the anomaly. Anomaly B is 1300 metres long and consists of several gold-in-soil values along its length. Anomalous values are not continuous from line to line over the 1300 metre length. Anomaly C appears to be parallel to Anomaly B and is represented by a 53 ppb Au value on one line. Anomaly D appears to be parallel to Anomaly A and is represented by a 49.8 ppb Au values on one line and an 8.1 ppb Au value on the next line. The strike projection of this anomaly is covered by a large outcropping of recent flood basalts, likely masking the anomaly, as one of the lines north of the basalt returned a value of 11.1 ppb Au.

The arsenic plot (Figure 9) appears to highlight Anomalies A, C and D, though in some instances they appear to have shifted down slope, a possible function of soil creep. Anomaly A appears to extend almost through the length of the grid, though it is strongest at the southern end. Anomaly B is also evident in the arsenic plot and appears to extend the length of the grid, though it trends off the grid at the southwest end. Anomaly D also appears in the arsenic plot.

DRILLING

There has not been any drilling completed on the PC property.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

At the end of the field day, all soil samples were brought back to town. They were put in sequence and placed 12 to 15 in a 13 by 18 poly bag. Three poly bags were then placed in a rice bag. One standard, sealed in a Ziploc bag, was also placed in the rice bag. The bag was then zip strapped and shipped in groups of 10 to 20 rice bags to Acme Analytical Laboratories Ltd. in Vancouver, British Columbia by Mammoth Geological Ltd. (the geological contractor) personnel or by Greyhound Bus from Merritt. Rock samples were handled similarly, though only 10 to 12 samples were placed in the rice bags. Since these were preliminary surveys no sample splitting or reduction was necessary. The rice bags were stored in the motel rooms of Mammoth Geological Ltd. personnel until there were a sufficient number to make a shipment to the lab. Mammoth Geological Ltd. is independent of Novus Gold Corp. and also independent of the property vendor Qualitas Holdings Corp.

All samples from the 2011 exploration program were analyzed at Acme Analytical Laboratories Ltd. in Vancouver, an ISO 9001 certified lab. The sample preparation procedures follow. Silt and soil samples are first dried at 60°C and sieved at -80 mesh to obtain a 100 gram pulp. Depending on the amount of -80 mesh material obtained, a 7.5, 15 or 30 gram sub-sample is cut and leached with 90ml or 180ml of 2-2-2 HCl-HNO₃-H₂O solution at 95°C for one hour, followed by dilution to 300ml or 600ml and 36 element ICP-MS.

Rock samples are crushed to 70% passing through a 10 mesh screen. A 250 gram split is pulverized to 95% passing through a 150 mesh screen. A 30gm sub-sample of the pulverized pulp is leached with 90ml or 180ml of 2-2-2 HCl-HNO₃-H₂O solution at 95°C for one hour, followed by dilution to 300ml or 600ml and 36 element ICP-MS.

The exploration programs completed by Novus Gold Corp. are preliminary surveys. The quality control procedures employed included duplicates and standards supplied by CDN Resources Laboratories Ltd. A total of 29 standards were employed at regular intervals throughout the sample stream. The CDN standards performed relatively well for gold with only two of 15 analyses outside of the sample range for Standard CDN-GPS-2, and only three of 15 analyses outside of the sample range for Standard CDN-CGS-27 as shown in Table 4. The copper analyses for CDN-CGS-27 performed poorly with only 7 of 15 analyses reporting within the range, but that may be a function of the analytical technique.

The author feels the sample preparation, security and analytical procedures for the preliminary ground surveys on the PC property were adequate for this type of exploration program.

Table 3. Summary of Standard Performance

CDN-GPS-2			CDN-CGS-27		
Ranges	194-234		Ranges	386-478	3640-3940
Sample No	ppb Au	ppm Cu	Sample No	ppb Au	ppm Cu
PCS-02	247	67	PCS-07	478	4386
PCS-04	236	66	PCS-01	511	3738
PCS-06	215	62	PCS-03	467	3889
PCS-08	209	63	PCS-05	512	3813
PCS-10	224	66	PCS-09	543	3616
PCS-012	199	60	PCS-11	448	3202
PCS-014	219	63	PCS-011	468	3611
PCS-016	223	67	PCS-013	477	3687
PCS-018	226	73	PCS-015	451	3701
PCS-020	222	70	PCS-017	461	3654
PCS-022	210	69	PCS-019	441	3660
PCS-024	219	69	PCS-021	428	3220
PCS-026	217	64	PCS-023	423	3592
PCS-032	202	62	PCS-025	467	3279
			PCS-029	429	3487

DATA VERIFICATION

The author applied minimal verification procedures as the field crew conducting the exploration program were working for the author's geological consulting company. The author examined the security procedures during his visit to the property. The author also examined some of the sample sites and is satisfied with the sampling protocols and procedures. A review of the assay data shows no irregularities in the author's opinion.

The author is therefore satisfied that the data is adequate for the exploration programs it supports for the purpose of this technical report.

MINERAL PROCESSING AND METALLURGICAL TESTING

There has been no mineral processing or metallurgical testing undertaken on the PC property.

MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

There are presently no mineral reserves or mineral resources on the PC property.

ADJACENT PROPERTIES

This technical report is not relying on data from adjacent properties.

OTHER RELEVANT DATA AND INFORMATION

There is no additional relevant data or information known that is not disclosed on the PC property.

INTERPRETATION AND CONCLUSIONS

The Novus Gold Corp's PC property is situated in a geological environment that has shown to have exploration potential. Mineral exploration for precious metal bearing epithermal quartz veins in the subarial volcanics of the Spences Bridge Group was initiated in 2001, after follow-up of a number of Regional Geochemistry Survey gold anomalies. This resulted in a number of significant vein discoveries, including: Shovelnose Mountain, Prospect Valley, Ponderosa, Sullivan Ridge and Nic in the Merritt area (Diakow, 2008; Diakow and Barrios, 2009) and Skoonka Creek further to the north in the Lytton area.

Exploration highlights from the Spences Bridge Gold Belt include:

- Almaden Minerals Ltd. and Strongbow Exploration Inc. reporting drill results including 18.4 gpt Au over 12.8 m from their Skoonka Creek Joint Venture in the Almaden news release dated November 29, 2005.
- Altair Ventures Inc. released a 43-101 compliant resource of 10.07 million tonnes grading 0.511 gpt Au for a total of 166,000 ounces of gold from the North and South Zones on their Prospect Valley property on October 19, 2011.

The author has been unable to verify the drill results from Skoonka Creek or Prospect Valley and these drill results are not necessarily indicative of the mineralization on the PC property.

The 2011 PC exploration met with considerable success. Two strong gold-in-soil anomalies and two lesser gold-in-soil anomalies were identified. The two larger anomalies A and B were substantiated by the arsenic-in-soil geochemistry.

These two multi-element anomalies needs to be followed up and evaluated further.

RECOMMENDATIONS

The PC property warrants further exploration for epithermal precious metals deposits. Anomalies A and B need to further evaluated.

The strongest anomalies are A and D and they should be the main focus of the next stage of the exploration. These trend of these two anomalies need to be prospected and the soil grid needs to be tightened to from the current 200 metres by 50 metres to 50 metres by 25 metres over an area 2800 metres long by 1700 metres wide. This will result in the collection of 3933 soil samples.

Table 4. 2012 PC Budget

2012 PC Property Budget

Prospecting and Mapping:

Two man prospecting crew all in	15	days	@	\$1,650	\$24,750
Analysis - soil		samples	@	\$20	\$0
Analysis - rock	50	samples	@	35	\$1,750
Analysis - standards	2	samples	@	\$20	\$40

Geochemistry:

Two man soil crew all in	77	days	@	\$1,200	\$92,400
Analysis - soil	3933	samples	@	\$20	\$78,660
Analysis - rock	0	samples	@	35	\$0
Analysis - standards	80	samples	@	\$20	\$1,600

Equipment and Supplies:

\$3,000

Travel:

\$7,500

Supervision

\$5,000

Documentation

\$5,000

Contingency:

\$5,300

Total Budget

\$225,000

-23-
REFERENCES

Diakow, L.J. (2008). Spences Bridge Bedrock Mapping Project: Preliminary Results from the Merritt Region, South-Central British Columbia (Parts of NTS 092H/14, 15, 092I/02). British Columbia Ministry of Energy, Mines and Petroleum Resources Geological Fieldwork 2007, Paper 2008-1, pp 1-4.

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Panteleyev, A. (1996). Epithermal Au-Ag: Low Sulphidation, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Höy, T, Editors, British Columbia Ministry of Employment and Investment, Open File 1996-13, pages 41-44.

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Thorkelson, D. J. (1985). Geology of the Mid-Cretaceous Volcanic Units near Kingsvale, southwestern British Columbia. Geological Survey of Canada Paper 85-16, p. 333-339.

Thorkelson, D. J. (2006). Notes for Geological Field Trip - Spences Bridge - Merritt Area for Strongbow Exploration Inc. May 8-9, 2006.

CERTIFICATE FOR R. TIMOTHY HENNEBERRY

I, R.Tim Henneberry, P.Geo. of 2446 Bidston Road, Mill Bay, B.C. V0R 2P4 do hereby certify that: I am the Qualified Person for:

Novus Gold Corp.

1750 – 999 West Hastings Street
Vancouver, British Columbia V6C 2W2

I earned a Bachelor of Science Degree majoring in geology from Dalhousie University, graduating in May 1980.

I am registered with the Association of Professional Engineers and Geoscientists in the Province of British Columbia as a Professional Geoscientist.

I have practiced my profession continuously for 31 years since graduation.

I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101. My relevant experience for the purpose of this Technical Report is:

- 31 years of exploration experience for base and precious metals in the Western Cordillera

I am responsible for the preparation of the technical report titled “2011 Geochemical Report PC Property” and dated February 11, 2012 relating to the PC property. I visited the PC property on January 10, 2012 for one day and was on the property numerous times in 2006 during an earlier exploration program.

I have had prior involvement with the property that is the subject of the Technical Report. I was a partner in a private company that held an interest in claims that now cover the ground held by the PC property. I conducted and supervised 2006 exploration programs on that property.

As of February 11, 2012, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

I am independent of the issuer after applying all of the tests in section 1.4 of NI 43-101. However, my geological consulting company undertook the exploration programs that are the subject of this report.

I have read NI 43-101 and Form 43-101F, and the Technical Report has been prepared in compliance with that instrument and form.

I make this Technical Report effective February 11, 2012.

“signed and sealed”

R.Tim Henneberry, P.Geo



Ministry of Energy & Mines
 Energy & Minerals Division
 Geological Survey Branch

**ASSESSMENT REPORT
 TITLE PAGE AND SUMMARY**

TYPE OF REPORT (type of survey(s))	TOTAL COST	\$112,501.23
Geochemical sampling		

AUTHOR(S) _____ SIGNATURE(S) _____
 R.Tim Henneberry, P.Geo. "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S) 5401905 YEAR OF WORK 2011

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S)

PROPERTY NAME PC

CLAIM NAME(S) (on which work was done) _____
 PC1 903249, PC2 903449, PC3 903469, PC4 903489, PC5 903509

COMMODITIES SOUGHT Epithermal precious metals

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN _____

MINING DIVISION Nicola NTS 092I/7 TRIM 092I034, 092I035

LATITUDE _____ LONGITUDE _____ (at centre of work)

NORTHING 5582000 EASTING 628000 UTM ZONE 10 MAP DATUM NAD 83

OWNER 1 Qualitas Holdings Corp. OWNER 2 _____

MAILING ADDRESS _____
5215 – 6th Avenue
Delta, B.C. V4M1L6

OPERATORS (who paid for work) _____
Novus Gold Corp.

MAILING ADDRESS _____
1750 – 999 West Hastings Street
Vancouver, B.C. V6C 2W2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
The BM property is underlain by the Cretaceous Spence Bridge Group volcanics. Work consisted of rock sampling, and property wide grid soil sampling. Four distinct Au-in-soil anomalies, the longest being 2800 metres were identified. Further work is recommended.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS
28708, 28947

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (In Metric Units)	On Which Claims	Project Costs Apportioned
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GEOLOGICAL (scale, area)

- Ground, mapping
- Photo Interpretation

GEOPHYSICAL (line kilometres)

- Ground
 - Magnetic
 - Electromagnetic
 - Induced Polarization
 - Radiometric
 - Siesmic
 - Other
- Airborne

GEOCHEMICAL

(number of samples analyzed for)

Soil	1556	PC1,2,3,4,5
Silt	1	PC3
Rock	16	PC1,2,3,5
Other		

DRILLING

(total metres, number of holes, size)

- Core
- Non-core

RELATED TECHNICAL

- Sampling / assaying
- Petrographic
- Mineralogical
- Metallurgic

PROSPECTING (scale, area)

PREPARATION / PHYSICAL

- Line/grid (kilometres)
- Topographic / Photogrammatic (scale, area)
- Legal Surveys (scale, area)
- Road, local access (kilometres)
- Trench (metres)
- Underground dev. (metres)
- Other

TOTAL COST **\$112,501.23**

PC 2011 STATEMENT OF COSTS

Gary Wesa	Oct 12,13,14,15,16,17,18,19
Alex Balitus	Oct 12,13,14,15,16,17,18,19
Mike Pym	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25
John Taylor	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25
Riley Pym	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25
Adam Pym	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25
Kevin Taylor	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25
Dallas Hendrick	Oct 12,13,14,15,16,17,18,19,20,21,22,23,24,25

Tim Henneberry

Field Crew

Gary Wesa	8 days	@ \$ 650 /day	\$5,200.00
Alex Balitus	8 days	@ \$ 400 /day	\$3,200.00
Mike Pym	14 days	@ \$ 450 /day	\$6,300.00
John Taylor	14 days	@ \$ 450 /day	\$6,300.00
Riley Pym	14 days	@ \$ 400 /day	\$5,600.00
Adam Pym	14 days	@ \$ 400 /day	\$5,600.00
Kevin Taylor	14 days	@ \$ 400 /day	\$5,600.00
Dallas Hendrick	14 days	@ \$ 400 /day	\$5,600.00

Vehicle Rentals

Steve Butrenchuk	km	@ \$ 0.75 /km	\$0.00
Mammoth Geological	8 days	@ \$ 100 /day	\$800.00
Mike Pym	14 days	@ \$ 60 /day	\$840.00
Mike Pym	14 days	@ \$ 60 /day	\$840.00
Riley Pym	14 days	@ \$ 60 /day	\$840.00

Supervision

Tim Henneberry	50 hours	@ \$ 125 /hour	\$6,250.00
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Documentation

Tim Henneberry	71 hours	@ \$ 125 /hour	\$8,875.00
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\$61,845.00

Expenses

Travel	\$66.06
Accommodation	\$7,969.98
Meals	\$4,257.09
Fuel and Repairs	\$2,346.32
Supplies and Phone	\$1,003.02
Freight	\$389.10

\$16,031.58

Analysis

Acme Analytical

VAN11005736	VANI104410	\$439.54	
VAN11005737	VANI103867	\$348.69	
VAN11005738	VANI103868	\$19.71	
VAN11005742	VANI106259	\$5,153.87	
VAN11005754	VANI103872	\$4,211.85	
VAN11005755	VANI107081	\$3,878.81	
VAN11005974	VANI104740	\$5,372.71	
VAN11005981	VANI107780	\$4,402.86	
VAN11005991	VANI105340	\$4,227.50	
VAN11005992	VANI105341	\$3,421.42	
Service (10%)		\$3,147.70	
			<u>\$34,624.66</u>

HST GST No. 133959049

Services		\$7,421.40	
Expenses		\$1,482.01	
Analysis		\$4,154.95	
			<u>\$13,058.36</u>

Total Cost of 2011 Exploration Program \$125,559.59

Total Cost Less HST \$112,501.23

Total Assessment Filed \$112,501.23

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
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PC11JMT041	628956	5580505	0.7	PC11JMT105	626753	5581302	<0.5	PC11JMT169	628999	5584098	7.7
PC11JMT042	628902	5580502	<0.5	PC11JMT106	626699	5581302	0.6	PC11JMT170	628952	5584110	<0.5
PC11JMT043	628856	5580502	<0.5	PC11JMT107	626650	5581301	0.7	PC11JMT171	628902	5584101	<0.5
PC11JMT044	628800	5580502	<0.5	PC11JMT108	626601	5581301	<0.5	PC11JMT172	628846	5584095	<0.5
PC11JMT045	628747	5580501	0.6	PC11JMT109	626549	5581300	<0.5	PC11JMT173	628799	5584092	<0.5
PC11JMT046	628700	5580501	<0.5	PC11JMT110	626500	5581302	<0.5	no sample	628747	5584100	
PC11JMT047	628649	5580499	1.6	PC11JMT111	627805	5581906	<0.5	no sample	628704	5584101	
PC11JMT048	628599	5580499	0.9	PC11JMT112	627751	5581897	1.6	PC11JMT176	628653	5584097	5.4
PC11JMT049	628550	5580499	<0.5	PC11JMT113	627699	5581900	0.7	PC11JMT177	628602	5584106	1.6
PC11JMT050	628502	5580500	<0.5	PC11JMT114	627650	5581898	0.6	PC11JMT178	628550	5584112	1.5
PC11JMT051	627832	5581510	2.1	PC11JMT115	627648	5581902	<0.5	PC11JMT179	628506	5584101	1.6
no sample	627832	5581510		PC11JMT116	627601	5581901	<0.5	PC11JMT180	628450	5584101	1.4
PC11JMT053	627750	5581497	2.6	PC11JMT117	627549	5581900	<0.5	PC11JMT181	628404	5584100	<0.5
PC11JMT054	627751	5581498	<0.5	PC11JMT118	627454	5581903	<0.5	PC11JMT182	628349	5584098	2.7
PC11JMT055	627697	5581501	0.6	PC11JMT119	627402	5581901	1.8	PC11JMT183	628298	5584103	<0.5
PC11JMT056	627647	5581497	<0.5	PC11JMT120	627348	5581897	<0.5	PC11JMT184	628249	5584099	<0.5
PC11JMT057	627600	5581501	1.5	PC11JMT121	627298	5581902	<0.5	PC11JMT185	628199	5584094	<0.5
PC11JMT058	627549	5581496	0.5	PC11JMT122	627248	5581892	0.9	PC11JMT186	628155	5584094	1.1
PC11JMT059	627503	5581499	1.7	PC11JMT123	627199	5581903	<0.5	PC11JMT187	628099	5584100	<0.5
PC11JMT060	627450	5581502	1.1	PC11JMT124	627149	5581902	<0.5	PC11JMT188	628048	5584099	17.8
PC11JMT061	627401	5581501	0.9	PC11JMT125	627098	5581901	0.5	PC11JMT189	628001	5584101	1.1
PC11JMT062	627350	5581501	<0.5	PC11JMT126	627046	5581903	<0.5	PC11JMT190	627950	5582898	<0.5
PC11JMT063	627297	5581499	<0.5	PC11JMT127	626999	5581894	<0.5	PC11JMT191	627883	5582900	<0.5
PC11JMT064	627246	5581498	<0.5	PC11JMT128	626949	5581901	<0.5	PC11JMT192	627853	5582902	<0.5

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
PC11JMT193	627806	5582893	<0.5	PC11JMT257	625949	5579905	2.4	no sample	626220	5578501	
PC11JMT194	627752	5582895	<0.5	PC11JMT258	625901	5579898	<0.5	PC11AP061	626195	5578493	2.3
PC11JMT195	627710	5582894	<0.5	PC11JMT259	625848	5579902	2.2	no sample	626151	5578470	
PC11JMT196	627650	5582903	<0.5	PC11JMT260	625799	5579899	3.4	PC11AP062	626144	5578455	3.3
PC11JMT197	627603	5582896	0.7	PC11AP001	628001	5579702	1.3	PC11AP063	626049	5578476	3
PC11JMT198	627550	5582894	<0.5	PC11AP002	627948	5579697	1.8	PC11AP064	629496	5581103	1.7
PC11JMT199	627501	5582903	0.6	PC11AP003	627902	5579702	<0.5	PC11AP065	629446	5581101	1
PC11JMT200	627454	5582901	<0.5	PC11AP004	627850	5579698	<0.5	PC11AP066	629401	5581100	<0.5
PC11JMT201	627403	5582901	0.9	PC11AP005	627801	5579709	0.8	PC11AP067	629346	5581099	<0.5
PC11JMT202	627353	5582906	11	PC11AP006	627749	5579699	0.9	PC11AP068	629300	5581100	1.7
PC11JMT203	627301	5582902	0.5	PC11AP007	627700	5579701	1.2	PC11AP069	629248	5581097	0.6
PC11JMT204	628007	5578704	3.9	PC11AP008	627648	5579702	<0.5	PC11AP070	629200	5581103	<0.5
PC11JMT205	627955	5578707	<0.5	PC11AP009	627597	5579701	2	PC11AP071	629150	5581101	<0.5
PC11JMT206	627900	5578701	<0.5	PC11AP010	627548	5579699	<0.5	PC11AP072	629098	5581101	<0.5
PC11JMT207	627854	5578701	<0.5	PC11AP011	627499	5579700	<0.5	PC11AP073	629051	5581100	1.1
PC11JMT208	627800	5578700	5.5	PC11AP012	627449	5579700	1.7	PC11AP074	628997	5581100	<0.5
PC11JMT209	627751	5578701	1.2	PC11AP013	627398	5579701	<0.5	PC11AP075	628951	5581097	0.9
PC11JMT210	627696	5578702	<0.5	PC11AP014	627346	5579700	2.3	PC11AP076	628900	5581098	2.8
PC11JMT211	627650	5578706	<0.5	PC11AP015	627300	5579700	1.8	PC11AP077	628846	5581097	0.7
PC11JMT212	627604	5578702	2.3	PC11AP016	627248	5579702	<0.5	PC11AP078	628795	5581100	0.7
PC11JMT213	627549	5578703	1.7	PC11AP017	627196	5579698	1.5	PC11AP079	628752	5581098	<0.5
PC11JMT214	627498	5578699	1.5	PC11AP018	627147	5579702	1	PC11AP080	628700	5581104	1.4
PC11JMT215	627501	5578899	<0.5	PC11AP019	627103	5579700	0.5	PC11AP081	628650	5581102	<0.5
PC11JMT216	627549	5578900	<0.5	PC11AP020	627046	5579703	<0.5	PC11AP083	628588	5581101	3
PC11JMT217	627591	5578899	<0.5	PC11AP021	627001	5579698	0.6	PC11AP084	625814	5581040	1.8
PC11JMT218	627648	5578898	<0.5	PC11AP022	626949	5579698	<0.5	PC11AP085	629498	5581698	1.7
PC11JMT219	627700	5578900	<0.5	PC11AP023	628000	5579499	0.7	PC11AP086	629450	5581705	0.8
PC11JMT220	627751	5578906	<0.5	PC11AP024	627954	5579498	<0.5	PC11AP087	629399	5581708	0.7
PC11JMT221	627800	5578901	<0.5	PC11AP025	627896	5579512	0.9	PC11AP088	629353	5581697	1.1
PC11JMT222	627854	5578898	<0.5	PC11AP026	627998	5578504	<0.5	PC11AP089	629295	5581704	<0.5
PC11JMT223	627899	5578901	<0.5	PC11AP027	627949	5578504	<0.5	PC11AP090	629249	5581699	0.9
PC11JMT224	627951	5578900	<0.5	PC11AP028	627900	5578507	0.9	PC11AP091	629197	5581698	1.5
PC11JMT225	628000	5578900	<0.5	PC11AP029	627846	5578502	<0.5	PC11AP092	629144	5581699	0.8
PC11JMT226	627996	5579100	0.6	PC11AP030	627799	5578494	<0.5	PC11AP093	629097	5581698	1
PC11JMT227	627952	5579103	3.5	PC11AP031	627741	5578493	0.6	PC11AP094	629048	5581704	0.5
PC11JMT228	627900	5579098	0.5	PC11AP032	627693	5578486	<0.5	PC11AP095	629000	5581700	<0.5
PC11JMT229	627851	5579102	1	PC11AP033	627651	5578493	<0.5	PC11AP096	628939	5581703	<0.5
PC11JMT230	627801	5579102	3	PC11AP034	627600	5578495	<0.5	PC11AP097	628901	5581701	<0.5
PC11JMT231	627754	5579099	<0.5	PC11AP035	627551	5578501	<0.5	PC11AP098	628843	5581697	<0.5
PC11JMT232	627701	5579101	<0.5	PC11AP036	627498	5578502	49.8	PC11AP099	628800	5581699	<0.5
PC11JMT233	627651	5579104	<0.5	PC11AP037	627445	5578489	<0.5	PC11AP100	628756	5581699	<0.5
PC11JMT234	627600	5579107	3.8	PC11AP038	627394	5578505	<0.5	PC11AP101	628695	5581697	0.8
PC11JMT235	627547	5579100	<0.5	PC11AP039	627340	5578503	2	PC11AP102	628652	5581704	<0.5
PC11JMT236	627501	5579094	0.8	PC11AP040	627300	5578504	0.6	PC11AP103	628595	5581701	<0.5
PC11JMT237	626951	5579902	2.2	PC11AP041	627251	5578506	2.4	PC11AP104	628547	5581702	<0.5
PC11JMT238	626900	5579897	<0.5	PC11AP042	627198	5578506	<0.5	PC11AP105	628489	5581726	<0.5
PC11JMT239	626849	5579899	0.7	PC11AP043	627145	5578504	1.1	PC11AP106	628450	5581705	<0.5
PC11JMT240	626803	5579897	0.9	PC11AP044	627099	5578504	0.9	PC11AP107	628400	5581701	<0.5
PC11JMT241	626754	5579898	0.7	PC11AP045	627053	5578503	2.3	PC11AP108	628350	5581704	1.8
PC11JMT242	626701	5579898	<0.5	PC11AP046	627002	5578502	1.6	PC11AP109	629504	5582500	0.6
PC11JMT243	626653	5579898	35.2	PC11AP047	626953	5578495	3.9	PC11AP110	629451	5582501	0.6
PC11JMT244	626602	5579902	10.7	PC11AP048	626904	5578495	1.9	PC11AP111	629400	5582499	1.8
PC11JMT245	626547	5579895	<0.5	PC11AP049	626840	5578507	<0.5	PC11AP112	629350	5582500	3.4
PC11JMT246	626497	5579897	0.5	PC11AP050	626805	5578506	3.3	PC11AP113	629297	5582499	0.7
PC11JMT247	626459	5579901	<0.5	PC11AP051	626746	5578494	2.5	PC11AP114	629253	5582504	0.8
PC11JMT248	626404	5579901	<0.5	PC11AP052	626698	5578506	3.5	PC11AP115	629201	5582503	0.8
PC11JMT249	626350	5579901	2.5	PC11AP053	626647	5578507	1.9	PC11AP116	629147	5582499	<0.5
PC11JMT250	626301	5579899	<0.5	PC11AP054	626605	5578492	13.6	PC11AP117	629098	5582502	1.5
PC11JMT251	626252	5579902	2	PC11AP055	626558	5578493	8.8	PC11AP118	629048	5582502	2
PC11JMT252	626202	5579900	2.3	PC11AP056	626499	5578511	13.3	PC11AP119	628999	5582498	<0.5
PC11JMT253	626167	5579893	3.4	PC11AP057	626442	5578497	5.2	PC11AP120	628948	5582498	<0.5
PC11JMT254	626098	5579903	4.1	PC11AP058	626396	5578514	<0.5	PC11AP121	628904	5582503	<0.5
PC11JMT255	626050	5579899	1.6	PC11AP059	626349	5578514	2.3	PC11AP122	628848	5582499	0.7
PC11JMT256	626002	5579896	2.3	PC11AP060	626285	5578533	2.8	PC11AP123	628800	5582501	<0.5

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
PC11AP124	628743	5582504	1.7	PC11AP188	629054	5583704	<0.5	PC11AP252	626747	5579490	1.3
PC11AP125	628700	5582502	<0.5	PC11AP189	629001	5583701	0.5	PC11AP253	626692	5579500	1.1
PC11AP126	628649	5582502	<0.5	PC11AP190	628950	5583698	1.6	PC11AP254	626647	5579498	0.8
PC11AP127	628594	5582505	0.7	PC11AP191	628897	5583697	0.6	PC11AP255	626598	5579499	<0.5
PC11AP128	628546	5582503	1.1	PC11AP192	628847	5583703	<0.5	PC11AP256	626549	5579502	0.8
PC11AP129	628500	5582496	<0.5	PC11AP193	628802	5583698	<0.5	PC11AP257	626502	5579499	2.8
PC11AP130	629500	5583094	1	PC11AP194	628749	5583700	0.6	PC11AP258	626451	5579499	6.7
PC11AP131	629453	5583101	2.1	PC11AP195	628701	5583698	<0.5	PC11AP259	626406	5579500	<0.5
PC11AP132	629403	5583097	12	PC11AP196	628649	5583698	1.1	PC11AP260	626351	5579502	0.8
PC11AP133	629355	5583100	<0.5	PC11AP197	628600	5583698	1.6	PC11AP261	626303	5579502	10
PC11AP134	629300	5583099	4.8	PC11AP198	628550	5583702	<0.5	PC11AP262	626248	5579508	1.8
PC11AP135	629250	5583103	1.9	PC11AP199	628495	5583701	0.7	PC11AP263	626207	5579497	5.1
PC11AP136	629200	5583102	<0.5	PC11AP200	628448	5583705	<0.5	PC11AP264	626158	5579503	5.2
PC11AP137	629147	5583099	0.7	PC11AP201	628397	5583700	<0.5	PC11AP265	626104	5579507	1.1
PC11AP138	629099	5583107	<0.5	PC11AP202	628349	5583702	<0.5	PC11AP266	626056	5579498	2.4
PC11AP139	629039	5583099	331.3	PC11AP203	628299	5583701	<0.5	PC11AP267	626002	5579499	11.3
PC11AP140	629007	5583093	3.4	PC11AP204	628249	5583701	<0.5	PC11AP268	625954	5579501	0.9
PC11AP141	628952	5583095	0.9	PC11AP205	628201	5583701	1.2	PC11AP269	625901	5579498	1.9
PC11AP142	628907	5583103	0.6	PC11AP206	628150	5583705	<0.5	PC11AP270	625851	5579505	3.2
PC11AP143	628853	5583098	<0.5	PC11AP207	628103	5583700	0.6	PC11AP271	625803	5579501	1.9
PC11AP144	628799	5583099	<0.5	PC11AP208	628050	5583696	1.1	PC11AP272	627431	5580104	0.7
PC11AP145	628747	5583099	<0.5	PC11AP209	628003	5583704	0.7	PC11AP273	627402	5580094	1.4
PC11AP146	628704	5583108	<0.5	PC11AP210	628300	5581701	<0.5	PC11AP274	627352	5580101	1.1
PC11AP147	628646	5583107	1.7	PC11AP211	628254	5581696	<0.5	PC11AP275	627301	5580098	3
PC11AP148	628594	5583101	<0.5	PC11AP212	628198	5581696	<0.5	PC11AP276	627248	5580094	0.5
PC11AP149	628547	5583087	<0.5	PC11AP213	628155	5581696	<0.5	PC11AP277	627199	5580100	7.9
PC11AP150	628500	5583098	<0.5	PC11AP214	628099	5581701	<0.5	PC11AP278	627149	5580097	<0.5
PC11AP151	628445	5583098	<0.5	PC11AP215	628049	5581701	<0.5	PC11AP279	627102	5580101	<0.5
PC11AP152	628385	5583103	3.2	PC11AP216	627999	5581703	<0.5	PC11AP280	627047	5580096	0.9
PC11AP153	629504	5583298	2.7	PC11AP217	627946	5581703	<0.5	PC11MP034	629496	5581500	<0.5
PC11AP154	629450	5583299	1.3	PC11AP218	627889	5581702	<0.5	PC11MP035	629450	5581509	0.8
PC11AP155	629399	5583297	<0.5	PC11AP219	627844	5581698	<0.5	PC11MP036	629403	5581502	1.9
PC11AP156	629347	5583300	1.5	PC11AP220	627802	5581700	7.7	PC11MP037	629350	5581497	1.7
PC11AP157	629296	5583301	1	PC11AP221	627743	5581694	1.3	PC11MP038	629298	5581500	0.7
PC11AP158	629254	5583301	<0.5	PC11AP222	627697	5581694	<0.5	PC11MP039	629242	5581496	<0.5
PC11AP159	629200	5583300	2.2	PC11AP223	627650	5581691	<0.5	PC11MP040	629193	5581497	0.9
PC11AP160	629156	5583298	6	PC11AP224	627600	5581705	0.5	PC11MP041	629139	5581502	<0.5
PC11AP161	629112	5583299	<0.5	PC11AP225	627551	5581704	3.1	PC11MP042	629102	5581504	<0.5
PC11AP162	629050	5583297	0.7	PC11AP226	627502	5581701	<0.5	PC11MP043	629044	5581500	<0.5
PC11AP163	629002	5583292	22	PC11AP227	627445	5581699	<0.5	PC11MP044	628996	5581499	<0.5
PC11AP164	628951	5583304	1.8	PC11AP228	627399	5581695	<0.5	PC11MP045	628955	5581482	<0.5
PC11AP165	628901	5583279	1.1	PC11AP229	627349	5581693	<0.5	PC11MP046	628905	5581496	<0.5
PC11AP166	628851	5583277	3.3	PC11AP230	627287	5581699	1.7	PC11MP047	628849	5581504	<0.5
PC11AP167	628804	5583301	<0.5	PC11AP231	627242	5581706	<0.5	PC11MP048	628804	5581496	<0.5
PC11AP168	628750	5583299	<0.5	PC11AP232	627200	5581709	<0.5	PC11MP049	628747	5581488	<0.5
PC11AP169	628699	5583304	<0.5	PC11AP233	627146	5581693	<0.5	PC11MP050	628687	5581490	0.6
PC11AP170	628653	5583298	<0.5	PC11AP234	627096	5581702	1.9	PC11MP051	628646	5581499	<0.5
PC11AP171	628597	5583303	1.1	PC11AP235	627039	5581695	<0.5	PC11MP052	628600	5581501	<0.5
PC11AP172	628550	5583304	1.8	PC11AP236	627001	5581703	<0.5	PC11MP053	628548	5581495	<0.5
PC11AP173	628504	5583295	1.7	PC11AP237	626941	5581703	<0.5	PC11MP054	628498	5581484	3.9
PC11AP174	628449	5583289	<0.5	PC11AP238	626888	5581706	1.5	PC11MP055	628449	5581493	2.9
PC11AP175	628393	5583299	<0.5	PC11AP239	626853	5581710	<0.5	PC11MP056	628394	5581494	<0.5
PC11AP176	628351	5583300	2.6	PC11AP240	626799	5581697	<0.5	PC11MP057	628344	5581498	<0.5
PC11AP177	628298	5583297	2.3	PC11AP241	626747	5581700	<0.5	PC11MP058	628302	5581500	0.9
PC11AP178	628245	5583291	0.6	PC11AP242	626701	5581704	<0.5	PC11MP059	628241	5581503	<0.5
PC11AP179	629498	5583703	1.2	PC11AP243	626654	5581710	<0.5	PC11MP060	628191	5581498	<0.5
PC11AP180	629453	5583703	<0.5	PC11AP244	626591	5581701	1.1	PC11MP061	628145	5581500	0.9
PC11AP181	629390	5583699	<0.5	PC11AP245	626547	5581706	0.5	PC11MP062	628095	5581500	2.4
PC11AP182	629353	5583697	1.6	PC11AP246	626509	5581696	<0.5	PC11MP063	628042	5581504	<0.5
PC11AP183	629297	5583697	2	PC11AP247	626999	5579498	6.3	PC11MP064	628003	5581507	0.8
PC11AP184	629245	5583697	<0.5	PC11AP248	626951	5579498	2	PC11MP065	627949	5581495	<0.5
PC11AP185	629200	5583707	<0.5	PC11AP249	626902	5579501	<0.5	PC11MP066	628502	5580703	1.5
PC11AP186	629152	5583702	1	PC11AP250	626849	5579498	<0.5	PC11MP067	628450	5580695	<0.5
PC11AP187	629100	5583705	1.6	PC11AP251	626799	5579500	0.9	PC11MP068	628397	5580694	<0.5

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
PC11MP069	628348	5580699	<0.5	PC11MP133	627100	5581101	0.8	PC11MP169A	626716	5579099	1.7
PC11MP070	628295	5580699	<0.5	PC11MP134	627043	5581091	<0.5	PC11MP170A	626650	5579100	1.6
PC11MP071	628259	5580708	0.5	PC11MP135	627001	5581086	<0.5	PC11MP171A	626601	5579098	1.3
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PC11MP087	627446	5580702	0.7	PC11MP152	627710	5583706	0.8	PC11MP004	627850	5578298	1.9
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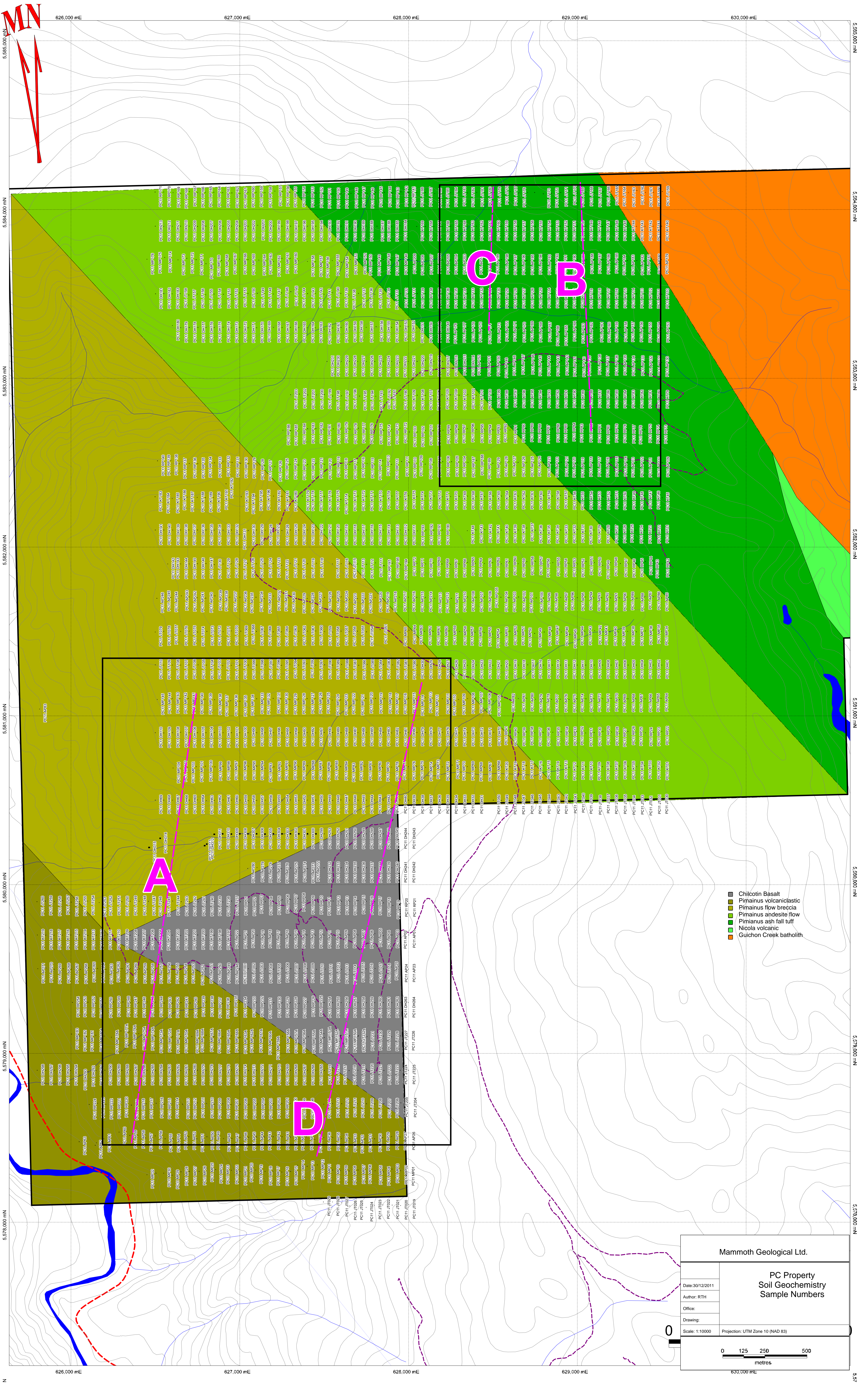
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PC11RP017	627799	5579899	1.5	PC11RP081	629099	5582697	<0.5	PC11RP145	627804	5584101	5.1
PC11RP018	627852	5579892	<0.5	PC11RP082	629049	5582700	<0.5	PC11RP146	627754	5584094	7.2
PC11RP019	627907	5579876	<0.5	PC11RP083	628993	5582699	<0.5	PC11RP147	627702	5584100	3.4
PC11RP020	627955	5579888	<0.5	PC11RP084	628948	5582706	<0.5	PC11RP148	627659	5584095	6.4
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PC11RP022	629500	5580907	<0.5	PC11RP086	628853	5582700	<0.5	PC11RP150	627552	5584093	0.8
PC11RP023	629450	5580901	2	PC11RP087	628795	5582692	1.4	PC11RP151	627499	5584093	<0.5
PC11RP024	629404	5580900	1.6	PC11RP088	628744	5582699	<0.5	PC11RP152	627452	5584097	0.8
PC11RP025	629345	5580902	<0.5	PC11RP089	628698	5582702	<0.5	PC11RP153	627399	5584100	1.3
PC11RP026	629300	5580907	1.5	PC11RP090	628649	5582699	0.8	PC11RP154	627347	5584102	<0.5
PC11RP027	629248	5580896	2.8	PC11RP091	628601	5582693	0.8	PC11RP155	627297	5584100	0.8
PC11RP028	629203	5580904	1.2	PC11RP092	628541	5582700	<0.5	PC11RP156	627252	5584105	1.8
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PC11RP033	628954	5580903	0.5	PC11RP097	628296	5582695	<0.5	PC11RP161	627001	5584095	0.8
PC11RP034	628905	5580905	4.7	PC11RP098	628250	5582695	<0.5	PC11RP162	626953	5584097	1.6
PC11RP035	628855	5580902	<0.5	PC11RP099	628204	5582692	<0.5	PC11RP163	626899	5584099	<0.5
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PC11RP037	628748	5580900	<0.5	PC11RP101	628101	5582691	<0.5	PC11RP165	626795	5584102	0.8
PC11RP038	628698	5580905	<0.5	PC11RP102	628052	5582681	1.1	PC11RP166	626749	5584099	0.8
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PC11RP040	628601	5580900	<0.5	PC11RP104	628298	5582504	<0.5	PC11RP168	626651	5584093	<0.5
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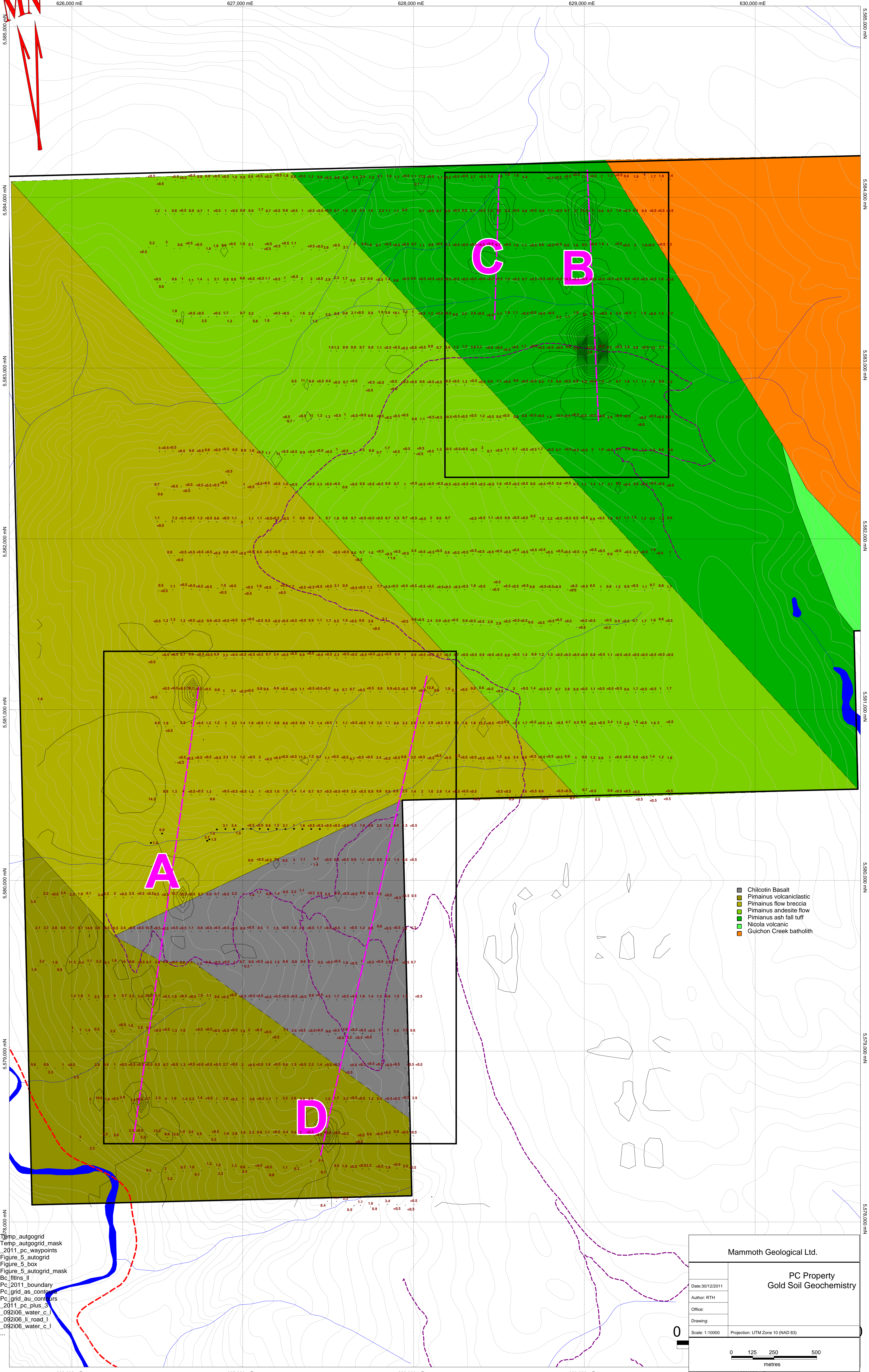
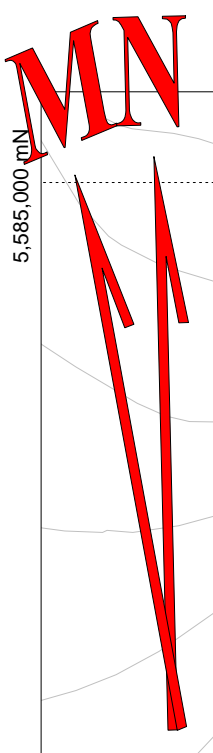
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PC11RP188	628403	5582513	2	PC11RP252	626100	5579303	1	PC11DH062	626849	5580499	0.6
PC11RP189	628446	5582491	0.7	PC11RP253	626050	5579303	1.9	PC11DH063	626802	5580498	1.3
PC11RP190	628200	5582101	0.7	PC11RP254	626009	5579302	1.2	PC11DH064	626749	5580501	<0.5
PC11RP191	628149	5582100	0.6	PC11DH001	629500	5581300	<0.5	PC11DH065	626701	5580500	<0.5
PC11RP192	628103	5582101	2	PC11DH002	629450	5581301	<0.5	PC11DH066	626652	5580501	4
PC11RP193	628052	5582096	<0.5	PC11DH003	629400	5581300	<0.5	PC11DH067	626601	5580500	1.3
PC11RP194	627952	5581894	<0.5	PC11DH004	629350	5581300	<0.5	PC11DH068	626549	5580500	0.8
PC11RP195	627903	5581904	<0.5	PC11DH005	629301	5581300	<0.5	PC11DH069	626500	5580500	14.3
PC11RP196	627854	5581890	<0.5	PC11DH006	629249	5581300	<0.5	PC11DH070	628505	5580903	<0.5
PC11RP197	627854	5581888	1.6	PC11DH007	629200	5581300	<0.5	PC11DH071	628450	5580899	<0.5
PC11RP198	627398	5578699	4.5	PC11DH008	629150	5581300	1.1	PC11DH072	628401	5580899	12.3
PC11RP199	627350	5578699	3.2	PC11DH009	629100	5581301	<0.5	PC11DH073	628350	5580900	1.8
PC11RP200	627298	5578703	2.6	PC11DH010	629050	5581300	0.8	PC11DH074	628300	5580899	1.9
PC11RP201	627249	5578703	3.2	PC11DH011	628999	5581300	<0.5	PC11DH075	628250	5580900	1.3
PC11RP202	627199	5578701	1	PC11DH012	628950	5581300	<0.5	PC11DH076	628200	5580902	2.8
PC11RP203	627151	5578698	1.7	PC11DH013	628900	5581300	<0.5	PC11DH077	628151	5580900	<0.5
PC11RP204	627105	5578700	<0.5	PC11DH014	628852	5581300	<0.5	PC11DH078	628100	5580901	2.9
PC11RP205	627055	5578698	3.8	PC11DH015	628800	5581301	1.3	PC11DH079	628050	5580901	1.4
PC11RP206	627002	5578699	1	PC11DH016	628749	5581301	1.2	PC11DH080	627999	5580900	2.5
PC11RP207	626949	5578696	<0.5	PC11DH017	628706	5581302	0.9	PC11DH081	627950	5580900	2.2
PC11RP208	626900	5578702	3.8	PC11DH018	628651	5581300	1.3	PC11DH082	627900	5580899	0.6
PC11RP209	626848	5578699	1	PC11DH019	628600	5581301	<0.5	PC11DH083	627849	5580901	1.1
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PC11RP225	627449	5579307	<0.5	PC11DH035	628200	5580500	1.4	PC11DH099	627049	5580900	1.8
PC11RP226	627403	5579305	0.6	PC11DH036	628151	5580500	2.8	PC11DH100	627000	5580900	1.4
PC11RP227	627352	5579297	<0.5	PC11DH037	628101	5580500	1.6	PC11DH101	626951	5580900	2.2
PC11RP228	627299	5579300	<0.5	PC11DH038	628051	5580500	2	PC11DH102	626901	5580900	3
PC11RP229	627250	5579300	<0.5	PC11DH039	628000	5580500	1.4	PC11DH103	626850	5580901	1.2
PC11RP230	627202	5579300	<0.5	PC11DH040	627949	5580501	3.5	PC11DH104	626800	5580900	1.2
PC11RP231	627148	5579295	<0.5	PC11DH041	627897	5580501	0.9	PC11DH105	626750	5580900	<0.5
PC11RP232	627099	5579303	<0.5	PC11DH042	627850	5580500	0.9	PC11DH106	626700	5580900	1
PC11RP233	627052	5579302	<0.5	PC11DH043	627798	5580501	0.8	PC11DH107	626650	5580902	5.5
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PC11RP236	626897	5579295	<0.5	PC11DH046	627650	5580500	2.8	PC11DH110	626500	5580900	8.9
PC11RP237	626850	5579297	0.6	PC11DH047	627599	5580501	<0.5	PC11DH111	628000	5582100	<0.5
PC11RP238	626803	5579305	1.1	PC11DH048	627550	5580499	<0.5	PC11DH112	627950	5582101	0.7
PC11RP239	626752	5579305	1.9	PC11DH049	627500	5580500	<0.5	PC11DH113	627902	5582100	0.5
PC11RP240	626706	5579298	<0.5	PC11DH050	627451	5580500	0.7	PC11DH114	627850	5582100	0.7
PC11RP241	626652	5579301	<0.5	PC11DH051	627401	5580500	0.7	PC11DH115	627800	5582100	<0.5
PC11RP242	626599	5579298	1.9	PC11DH052	627350	5580499	1.4	PC11DH116	627750	5582100	<0.5
PC11RP243	626553	5579298	<0.5	PC11DH053	627300	5580501	1.4	PC11DH117	627701	5582100	<0.5
PC11RP244	626502	5579303	1.7	PC11DH054	627250	5580501	1.3	PC11DH118	627650	5582100	0.7
PC11RP245	626450	5579304	29.9	PC11DH055	627200	5580500	1.6	PC11DH119	627599	5582100	0.8
PC11RP246	626401	5579300	3.4	PC11DH056	627151	5580500	<0.5	PC11DH120	627549	5582099	1.8

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
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PC11DH126	627250	5582098	<0.5	PC11DH190	627651	5583900	2.8	PC11DH254	627500	5579300	4.5
PC11DH127	627194	5582100	<0.5	PC11DH191	627600	5583900	1.9	PC11DH255	627550	5579300	1.7
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PC11DH130	627050	5582098	1.1	PC11DH194	627451	5583900	<0.5	PC11DH258	627700	5579300	1.9
PC11DH131	626996	5582074	5	PC11DH195	627400	5583900	<0.5	PC11DH259	627750	5579300	1.4
PC11DH132	626951	5582100	1.1	PC11DH196	627350	5583900	1	PC11DH260	627800	5579300	1.3
PC11DH133	626901	5582100	<0.5	PC11DH197	627301	5583900	<0.5	PC11DH261	627850	5579300	0.6
PC11DH134	626848	5582099	0.6	PC11DH198	627250	5583901	0.8	PC11DH262	627901	5579300	1.5
PC11DH135	626800	5582100	<0.5	PC11DH199	627199	5583900	<0.5	PC11DH263	627950	5579300	1.5
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PC11DH140	626550	5582101	<0.5	PC11DH204	626950	5583900	<0.5	PC11DH268	627300	5578900	1.5
PC11DH141	626500	5582101	1.1	PC11DH205	626901	5583900	1	PC11DH269	627250	5578900	0.6
PC11DH142	626573	5581900	0.9	PC11DH206	626850	5583900	<0.5	PC11DH270	627201	5578901	<0.5
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PC11DH145	626700	5581900	<0.5	PC11DH209	626700	5583900	0.9	PC11DH273	627051	5578898	<0.5
PC11DH146	626750	5581901	<0.5	PC11DH210	626649	5583901	<0.5	PC11DH274	626999	5578899	2
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PC11DH148	628200	5583300	<0.5	PC11DH212	626549	5583899	1	PC11DH276	626900	5578900	2.7
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PC11DH156	627808	5583306	1.9	PC11DH220	628051	5583100	<0.5	PC11DH284	626501	5578900	0.5
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PC11DH160	627600	5583300	0.8	PC11DH224	627849	5583098	<0.5	PC11DH288	626301	5578900	<0.5
PC11DH161	627551	5583297	0.9	PC11DH225	627800	5583099	1.1	PC11DH289	626251	5578900	1
PC11DH162	627500	5583291	2.9	PC11DH226	627750	5583100	0.8	PC11DH290	626201	5578900	3.4
PC11DH163	627449	5583299	1.2	PC11DH227	627699	5583100	0.7	PC11DH291	626148	5578899	2.9
PC11DH164	627400	5583299	2.4	PC11DH228	627649	5583100	0.9	no sample	626100	5578892	
PC11DH165	627350	5583300	1.6	PC11DH229	627601	5583100	0.9	PC11DH293	626052	5578871	0.5
PC11DH166	627300	5583301	1	PC11DH230	627550	5583099	1.3	PC11DH294	625997	5578899	<0.5
PC11DH167	627251	5583300	<0.5	PC11DH231	627517	5583100	1.6	PC11DH295	625949	5578899	1
PC11DH168	627200	5583300	<0.5	PC11DH232	627500	5580100	<0.5	PC11DH296	625901	5578900	2.3
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PC11DH170	627100	5583299	5.6	PC11DH234	627600	5580100	<0.5	PC11DH298	625800	5578900	0.6
PC11DH171	627049	5583299	3.2	PC11DH235	627650	5580100	0.9	PC11DH299	627451	5580300	<0.5
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PC11DH173	626949	5583299	1.3	PC11DH237	627750	5580100	<0.5	PC11DH301	627350	5580300	1.6
PC11DH174	626901	5583301	1.7	PC11DH238	627801	5580100	0.6	PC11DH302	627300	5580301	1
PC11DH175	626849	5583300	<0.5	PC11DH239	627850	5580100	1.2	PC11DH303	627250	5580300	2.1
PC11DH176	626800	5583300	2.5	PC11DH240	627901	5580100	1.4	PC11DH304	627199	5580301	1.5
PC11DH177	626752	5583300	<0.5	PC11DH241	627950	5580100	0.6	PC11DH305	627149	5580299	0.6
PC11DH178	626701	5583300	<0.5	PC11DH242	627999	5580100	<0.5	PC11DH306	627100	5580301	<0.5
PC11DH179	626650	5583300	8.3	PC11DH243	628000	5580300	<0.5	PC11DH307	627048	5580301	<0.5
PC11DH180	626601	5583312	1.8	PC11DH244	627950	5580300	1.5	PC11DH308	627000	5580300	1.5
PC11DH181	626501	5583500	<0.5	PC11DH245	627900	5580300	0.8	PC11DH309	626950	5580299	2.4
PC11DH182	626550	5583501	0.6	PC11DH246	627850	5580300	1.3	PC11DH310	626899	5580300	3.1
PC11DH183	626600	5583500	0.6	PC11DH247	627800	5580300	2.5	PC11DH311	626849	5580298	1.6
PC11DH184	627949	5583904	0.5	PC11DH248	627749	5580300	0.6	PC11DH312	626805	5580240	1.5

Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au	Number	83Z10E	83Z10N	ppb Au
PC11DH313	626792	5580231	2.7								
PC11DH314	626528	5580274	0.9								
PC11DH315	626463	5580220	7.4								

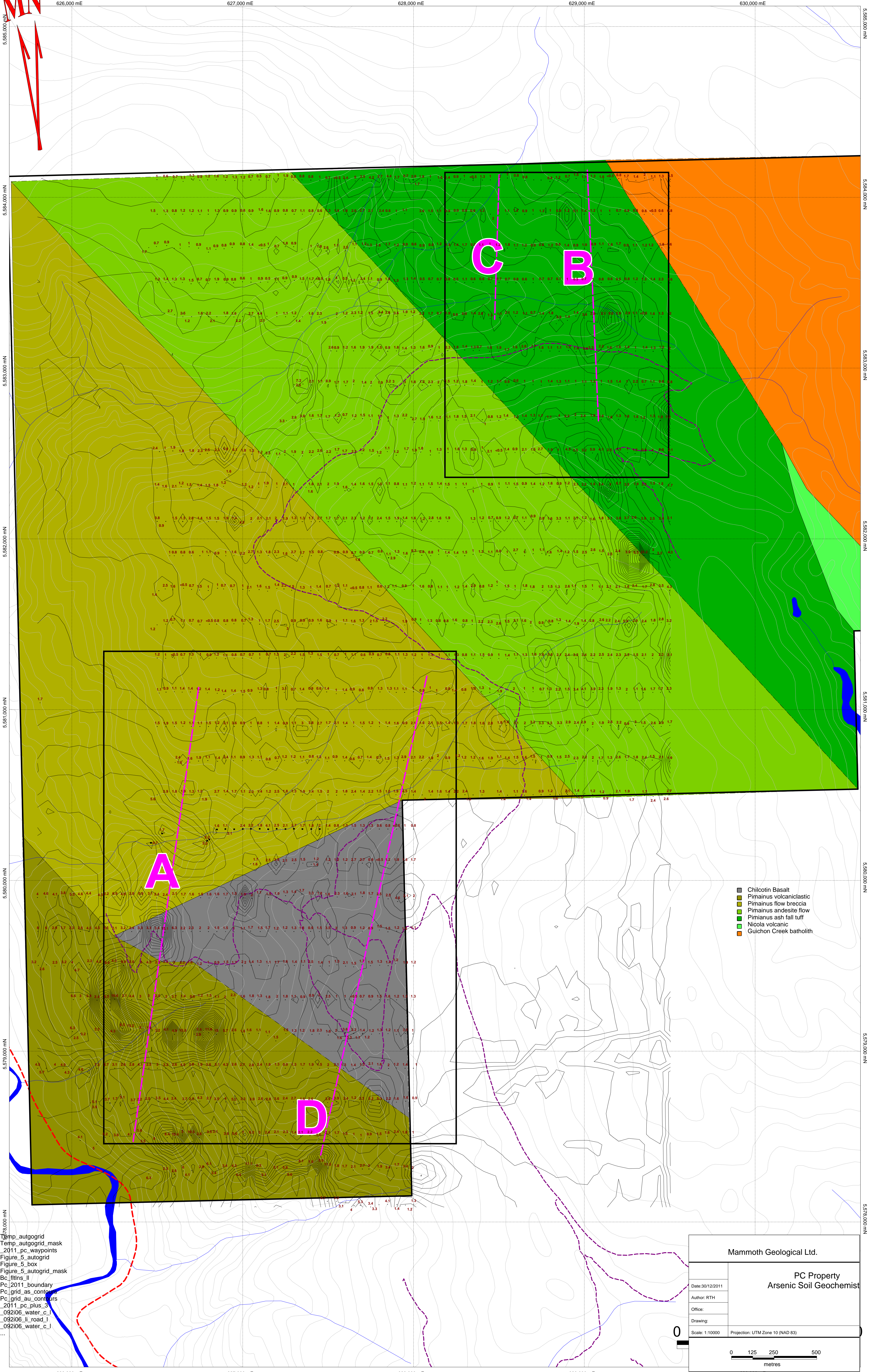
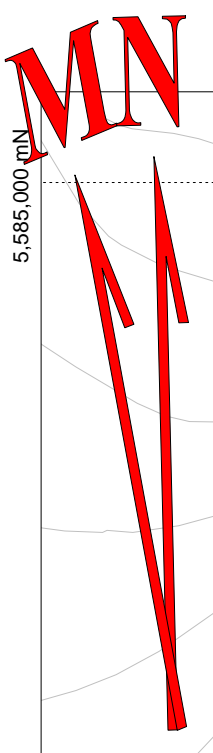


Mammoth Geological Ltd.	
PC Property Soil Geochemistry Sample Numbers	
Date: 30/12/2011	Author: RTH
Office:	
Drawing:	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)



Temp_autogrid
 Temp_autogrid_mask
 2011_pc_waypoints
 Figure_5_autogrid
 Figure_5_box
 Figure_5_autogrid_mask
 Bc_fitins_ll
 Pc_2011_boundary
 Pc_grid_as_contours
 Pc_grid_au_contours
 2011_pc_plus_3
 092106_water_c_l
 092106_li_road_l
 092106_water_c_l

Mammoth Geological Ltd.	
PC Property Gold Soil Geochemistry	
Date: 30/12/2011	
Author: RTH	
Office:	
Drawing:	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)



Temp_autogrid
 Temp_autogrid_mask
 2011_pc_waypoints
 Figure_5_autogrid
 Figure_5_box
 Figure_5_autogrid_mask
 Bc_ftlms_ll
 Pc_2011_boundary
 Pc_grid_as_contours
 Pc_grid_au_contours
 2011_pc_plus_3
 092i06_water_c_l
 092i06_li_road_l
 092i06_water_c_l

Mammoth Geological Ltd.	
PC Property Arsenic Soil Geochemist	
Date: 30/12/2011	
Author: RTH	
Office:	
Drawing:	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 25, 2011
Report Date: November 11, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11005736.1

CLIENT JOB INFORMATION

Project: PC/GP
Shipment ID:
P.O. Number
Number of Samples: 26

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	26	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX3	26	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk



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: PC/GP
 Report Date: November 11, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11005736.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
PC11-GWR01	Rock	1.56	0.4	27.0	4.0	51	0.1	11.6	10.7	624	2.74	11.6	4.1	0.6	83	<0.1	<0.1	<0.1	50	4.54	0.092
PC11-GWR02	Rock	0.89	1.5	3.3	6.0	28	<0.1	0.6	1.7	334	1.08	2.3	0.6	3.1	16	<0.1	<0.1	<0.1	10	0.99	0.032
PC11-GWR03	Rock	1.53	0.3	6.3	3.9	56	<0.1	1.0	3.8	411	1.64	6.8	<0.5	2.0	34	<0.1	0.2	<0.1	28	1.70	0.052
PC11-GWR04	Rock	0.97	1.5	5.0	3.8	16	<0.1	4.4	2.4	168	0.69	2.7	<0.5	1.6	145	<0.1	<0.1	<0.1	9	0.56	0.017
PC11-GWR05	Rock	0.66	0.4	3.4	7.9	37	<0.1	2.3	4.3	447	1.53	2.9	0.5	3.8	27	<0.1	<0.1	<0.1	30	1.26	0.042
PC11-GWR06	Rock	1.77	4.8	5.2	2.6	<1	<0.1	0.4	0.5	16	0.97	25.2	5.6	0.3	69	<0.1	1.5	1.6	8	0.01	0.006
PC11-GWR07	Rock	1.35	1.0	20.0	10.9	<1	<0.1	1.1	2.0	32	0.96	37.6	0.8	0.4	106	<0.1	2.4	2.6	23	0.01	0.014
PC11-GWR08	Rock	0.85	0.6	6.1	5.2	30	<0.1	2.3	2.7	280	1.43	4.0	1.4	6.1	13	<0.1	0.1	<0.1	21	0.28	0.043
PC11-GWR09	Rock	0.92	0.2	28.3	1.9	22	<0.1	65.2	14.2	289	1.93	2.1	1.6	0.4	121	<0.1	<0.1	<0.1	80	12.18	0.033
PC11-GWR10	Rock	1.49	0.3	52.9	1.6	47	<0.1	12.4	14.6	492	3.28	<0.5	<0.5	0.7	611	<0.1	0.2	<0.1	167	3.97	0.069
PC11-GWR11	Rock	1.21	0.3	49.9	1.5	40	<0.1	11.5	13.1	370	2.90	0.6	<0.5	0.6	570	<0.1	0.2	<0.1	160	3.69	0.066
PC11-GWR12	Rock	1.15	0.3	51.0	1.2	53	<0.1	11.1	15.3	553	3.68	0.5	1.5	0.9	713	<0.1	<0.1	<0.1	203	2.67	0.079
PC11-GWR13	Rock	1.36	1.4	20.5	1.8	26	<0.1	9.2	10.1	383	1.62	1.9	19.7	0.3	74	<0.1	0.2	<0.1	86	4.66	0.045
PC11-GWR14	Rock	0.89	31.4	52.7	1.4	76	0.2	20.0	20.9	910	3.99	4.5	2.3	0.5	103	<0.1	<0.1	<0.1	130	4.04	0.077
PC11-GWR15	Rock	0.98	0.9	58.2	1.9	65	<0.1	12.2	14.0	629	3.33	2.1	1.3	0.7	130	<0.1	<0.1	<0.1	80	6.31	0.108
PC11-GWR16	Rock	1.73	19.2	46.8	5.4	61	0.6	26.7	19.8	701	3.92	4.8	10.2	0.5	104	0.1	0.2	<0.1	120	3.82	0.084
GP11-GWR01	Rock	0.91	0.3	17.9	5.0	61	<0.1	6.8	11.1	805	2.91	1.1	<0.5	2.7	49	<0.1	<0.1	<0.1	89	0.80	0.145
GP11-GWR02	Rock	1.23	0.4	3.4	0.5	3	<0.1	4.4	1.1	99	0.47	0.6	<0.5	0.1	17	<0.1	<0.1	<0.1	7	1.28	0.012
GP11-GWR03	Rock	0.38	0.4	14.3	1.4	20	<0.1	13.3	5.4	272	0.98	<0.5	<0.5	0.6	110	<0.1	<0.1	<0.1	35	0.57	0.041
GP11-GWR04	Rock	0.58	0.2	12.5	2.2	14	<0.1	14.4	5.5	341	1.28	1.8	<0.5	0.8	176	<0.1	<0.1	<0.1	27	0.62	0.031
GP11-GWR05	Rock	1.67	0.3	11.9	2.9	12	<0.1	3.0	1.3	482	0.80	0.7	<0.5	0.2	49	<0.1	0.2	<0.1	3	1.47	0.029
GP11-GWR06	Rock	1.22	0.2	5.0	0.7	4	<0.1	3.6	1.1	101	0.49	0.5	<0.5	0.2	165	<0.1	<0.1	<0.1	7	0.20	0.011
GP11-GWR07	Rock	0.86	0.2	4.6	1.1	11	<0.1	2.9	2.8	549	0.65	4.4	<0.5	0.4	46	<0.1	<0.1	<0.1	8	5.91	0.033
GP11-GWR08	Rock	0.98	0.3	2.7	0.5	5	<0.1	1.7	1.0	159	0.49	1.9	<0.5	0.1	9	<0.1	<0.1	<0.1	4	0.47	0.010
GP11-GWR09	Rock	0.28	3.7	1.8	1.1	17	<0.1	19.0	1.5	709	0.52	133.8	1.4	1.9	94	0.2	63.3	<0.1	113	11.71	0.655
GP11-GWR10	Rock	0.28	0.2	3.3	0.5	3	<0.1	5.9	1.2	470	0.46	<0.5	<0.5	0.2	30	<0.1	<0.1	<0.1	8	1.26	0.013



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Project: PC/GP
 Report Date: November 11, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11005736.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		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	
PC11-GWR01	Rock	12	14	0.78	21	0.001	3	4.14	0.070	0.12	<0.1	<0.01	3.7	<0.1	<0.05	11	0.8	<0.2
PC11-GWR02	Rock	18	3	0.10	20	0.001	2	0.49	0.033	0.08	<0.1	<0.01	1.1	<0.1	<0.05	3	0.5	<0.2
PC11-GWR03	Rock	13	2	0.19	18	0.028	3	1.42	0.046	0.06	<0.1	<0.01	3.6	<0.1	<0.05	6	0.6	<0.2
PC11-GWR04	Rock	8	4	0.14	104	0.015	3	0.95	0.488	0.14	0.1	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
PC11-GWR05	Rock	14	5	0.38	39	0.061	<1	1.93	0.034	0.11	<0.1	<0.01	2.2	<0.1	<0.05	9	0.6	<0.2
PC11-GWR06	Rock	<1	3	<0.01	50	0.002	<1	0.33	0.046	0.09	<0.1	0.54	0.4	0.1	0.33	<1	1.7	0.8
PC11-GWR07	Rock	1	8	<0.01	36	0.002	<1	0.53	0.048	0.16	<0.1	0.19	1.1	0.1	0.53	3	<0.5	0.6
PC11-GWR08	Rock	20	7	0.06	37	0.011	1	0.33	0.044	0.08	<0.1	<0.01	2.0	<0.1	<0.05	2	0.5	<0.2
PC11-GWR09	Rock	3	21	1.35	7	0.142	<1	5.49	0.051	0.12	<0.1	<0.01	3.4	<0.1	0.12	14	0.5	<0.2
PC11-GWR10	Rock	7	17	1.00	71	0.159	<1	5.15	0.552	0.11	<0.1	<0.01	6.2	<0.1	<0.05	7	<0.5	<0.2
PC11-GWR11	Rock	6	16	0.88	57	0.131	<1	5.41	0.532	0.12	<0.1	<0.01	5.1	<0.1	<0.05	7	<0.5	<0.2
PC11-GWR12	Rock	8	25	0.84	32	0.123	<1	4.33	0.531	0.09	<0.1	<0.01	6.1	<0.1	<0.05	7	0.7	<0.2
PC11-GWR13	Rock	2	21	0.68	5	0.138	2	3.04	0.039	0.02	0.1	<0.01	4.7	<0.1	<0.05	7	0.5	<0.2
PC11-GWR14	Rock	4	32	2.34	7	0.182	<1	3.69	0.018	0.08	<0.1	<0.01	6.8	<0.1	<0.05	9	0.6	<0.2
PC11-GWR15	Rock	7	25	1.44	7	0.173	<1	3.44	0.028	0.07	0.1	<0.01	4.0	<0.1	0.06	8	<0.5	<0.2
PC11-GWR16	Rock	7	49	1.92	12	0.182	<1	3.32	0.044	0.10	<0.1	<0.01	6.9	0.1	0.06	8	0.8	0.3
GP11-GWR01	Rock	23	3	1.06	38	0.392	4	1.07	0.065	0.15	0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
GP11-GWR02	Rock	1	22	0.12	14	0.011	2	0.18	0.041	0.05	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
GP11-GWR03	Rock	5	21	0.27	78	0.087	<1	0.70	0.091	0.22	<0.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
GP11-GWR04	Rock	5	27	0.36	139	0.077	5	0.67	0.072	0.15	<0.1	<0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
GP11-GWR05	Rock	<1	19	0.24	17	0.003	<1	0.22	0.003	0.02	<0.1	<0.01	1.1	<0.1	<0.05	<1	0.5	<0.2
GP11-GWR06	Rock	2	20	0.06	182	0.028	<1	0.35	0.022	0.11	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
GP11-GWR07	Rock	3	13	0.39	940	0.014	1	0.18	0.008	0.03	<0.1	<0.01	1.2	<0.1	0.08	<1	<0.5	<0.2
GP11-GWR08	Rock	<1	22	0.10	38	0.006	<1	0.09	0.005	0.01	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
GP11-GWR09	Rock	22	35	0.54	15	0.062	194	1.16	0.006	0.02	0.2	<0.01	2.6	<0.1	0.13	3	<0.5	1.5
GP11-GWR10	Rock	2	14	0.07	28	0.018	<1	0.20	0.043	0.07	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2



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Project: PC/GP

Report Date: November 11, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11005736.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
REP PC11-GWR02	QC		1.6	3.3	6.2	29	<0.1	0.7	1.8	341	1.10	2.2	<0.5	3.2	16	<0.1	<0.1	<0.1	10	1.03	0.032
GP11-GWR02	Rock	1.23	0.4	3.4	0.5	3	<0.1	4.4	1.1	99	0.47	0.6	<0.5	0.1	17	<0.1	<0.1	<0.1	7	1.28	0.012
REP GP11-GWR02	QC		0.3	3.3	0.4	3	<0.1	4.5	1.1	98	0.46	0.6	1.2	0.1	17	<0.1	<0.1	<0.1	7	1.24	0.011
Core Reject Duplicates																					
PC11-GWR02	Rock	0.89	1.5	3.3	6.0	28	<0.1	0.6	1.7	334	1.08	2.3	0.6	3.1	16	<0.1	<0.1	<0.1	10	0.99	0.032
DUP PC11-GWR02	QC		1.5	3.2	6.4	29	<0.1	1.0	1.8	357	1.12	2.4	<0.5	3.2	17	<0.1	<0.1	<0.1	10	1.05	0.035
Reference Materials																					
STD DS8	Standard		12.3	110.9	123.2	306	1.9	38.0	7.6	611	2.53	25.2	111.1	6.7	64	2.3	5.4	6.6	44	0.72	0.081
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	2.4	2.9	42	<0.1	2.3	3.7	566	1.97	<0.5	0.7	5.1	56	<0.1	<0.1	0.1	39	0.47	0.083
G1	Prep Blank	<0.01	0.1	2.2	2.9	44	<0.1	2.0	3.8	564	1.87	<0.5	<0.5	5.5	61	<0.1	<0.1	<0.1	38	0.52	0.080



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Project: PC/GP

Report Date: November 11, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11005736.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
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																		
REP PC11-GWR02	QC	18	3	0.10	21	0.001	3	0.47	0.033	0.08	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
GP11-GWR02	Rock	1	22	0.12	14	0.011	2	0.18	0.041	0.05	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
REP GP11-GWR02	QC	1	21	0.12	13	0.012	1	0.18	0.040	0.05	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
PC11-GWR02	Rock	18	3	0.10	20	0.001	2	0.49	0.033	0.08	<0.1	<0.01	1.1	<0.1	<0.05	3	0.5	<0.2
DUP PC11-GWR02	QC	19	3	0.10	21	0.002	3	0.46	0.033	0.08	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	116	0.62	261	0.118	1	0.93	0.087	0.41	2.9	0.17	2.2	5.1	0.18	5	5.7	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
Prep Wash																		
G1	Prep Blank	11	10	0.49	154	0.119	2	0.92	0.082	0.46	0.9	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	12	10	0.49	155	0.123	1	0.93	0.088	0.46	<0.1	<0.01	2.0	0.3	<0.05	5	0.7	<0.2



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Client: Mammoth Geological Ltd.

2446 Bidston Road
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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 25, 2011
Report Date: November 09, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11005737.1

CLIENT JOB INFORMATION

Project: PC/GP
Shipment ID:
P.O. Number
Number of Samples: 18

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	18	Dry at 60C			VAN
SS80	15	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	18	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: PC/GP
 Report Date: November 09, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11005737.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		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	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11-GW01	Soil	1.3	30.8	7.2	66	0.2	10.5	9.4	830	2.99	12.5	3.6	2.0	93	0.2	0.7	<0.1	63	1.81	0.086	22
PC11-GW02	Soil	0.7	18.4	5.5	59	0.1	5.4	8.1	782	2.33	15.6	3.8	1.7	78	0.1	0.7	<0.1	42	3.60	0.077	17
PC11-GW03	Soil	0.6	18.3	5.3	54	0.2	5.6	8.3	743	2.24	13.9	2.2	1.5	84	0.2	0.5	<0.1	37	5.05	0.069	15
PC11-GW04	Soil	0.4	10.4	5.3	55	0.1	2.2	5.6	622	1.65	12.9	0.8	1.3	86	0.2	0.5	<0.1	24	7.28	0.063	13
PC11-GW05	Soil	0.5	11.9	5.2	53	<0.1	2.9	6.7	693	1.88	13.0	2.9	1.8	64	0.1	0.5	<0.1	29	3.54	0.062	15
PC11-GW06	Soil	0.7	16.3	6.2	53	0.1	4.2	8.5	742	2.10	13.8	1.8	1.5	76	0.2	0.5	<0.1	34	4.54	0.067	16
PC11-GW07	Soil	0.6	16.1	5.6	56	0.1	4.1	7.3	826	2.33	7.5	2.2	1.9	68	0.1	0.3	<0.1	33	3.04	0.068	17
PC11-GW08	Soil	0.5	13.9	5.4	47	<0.1	3.7	6.2	741	2.03	6.5	1.2	2.0	58	0.1	0.3	<0.1	28	2.69	0.064	17
PC11-GW09	Soil	0.6	14.6	4.3	43	0.1	3.8	6.0	782	1.82	8.5	2.2	1.8	57	<0.1	0.3	<0.1	27	3.42	0.071	17
PC11-GW10	Soil	0.6	18.4	5.0	49	<0.1	7.3	7.1	696	2.17	7.8	2.0	1.9	61	<0.1	0.3	<0.1	39	1.97	0.058	17
PC11-GW11	Soil	0.5	19.5	5.0	51	<0.1	7.2	7.0	668	2.10	6.9	1.7	1.8	64	0.1	0.3	<0.1	40	1.32	0.053	17
PC11-GW12	Soil	0.6	17.9	4.7	46	<0.1	4.9	6.0	502	2.05	8.5	2.4	2.0	47	<0.1	0.3	<0.1	34	1.03	0.058	16
PC11-GW13	Soil	0.6	22.2	5.4	52	0.1	10.2	7.4	510	2.43	7.1	1.9	1.8	68	0.1	0.3	<0.1	49	0.99	0.053	16
PC11-GW14	Soil	0.6	40.3	5.0	54	0.1	12.6	7.7	556	2.40	6.5	1.5	1.9	63	<0.1	0.4	<0.1	52	1.02	0.057	15
PC11-GW15	Soil	0.6	22.6	5.1	51	0.1	11.6	7.1	626	2.39	8.6	0.6	1.7	59	<0.1	0.4	<0.1	49	1.05	0.045	17
PCS-G1	Soil Pulp	16.5	62.9	15.5	17	0.1	16.0	2.5	106	3.59	435.4	206.9	0.7	29	0.3	26.2	0.1	10	0.94	0.004	2
PCS-G2	Soil Pulp	121.1	3686	22.2	61	2.5	35.7	20.4	395	4.16	51.8	429.2	1.8	29	0.3	3.4	0.4	121	0.31	0.089	10
GPS-G1	Soil Pulp	16.0	66.7	16.3	17	0.1	16.3	2.5	111	3.69	435.4	204.7	0.7	30	0.3	26.0	0.2	10	0.94	0.005	2



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Project: PC/GP
 Report Date: November 09, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11005737.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		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	
PC11-GW01	Soil	12	0.59	33	0.097	3	2.72	0.028	0.11	<0.1	0.04	5.8	<0.1	<0.05	9	0.6	<0.2
PC11-GW02	Soil	5	0.43	21	0.053	3	2.17	0.027	0.09	<0.1	0.06	3.9	<0.1	<0.05	8	<0.5	<0.2
PC11-GW03	Soil	5	0.45	19	0.042	3	1.95	0.038	0.05	<0.1	0.05	3.4	<0.1	<0.05	7	<0.5	<0.2
PC11-GW04	Soil	2	0.35	12	0.020	3	1.69	0.028	0.04	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PC11-GW05	Soil	3	0.29	14	0.021	3	1.91	0.036	0.05	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
PC11-GW06	Soil	4	0.33	18	0.033	2	1.86	0.027	0.06	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
PC11-GW07	Soil	4	0.30	16	0.026	3	1.88	0.018	0.08	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
PC11-GW08	Soil	3	0.27	15	0.016	2	1.71	0.016	0.07	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
PC11-GW09	Soil	4	0.26	17	0.009	3	1.54	0.013	0.06	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
PC11-GW10	Soil	8	0.32	26	0.038	3	1.96	0.015	0.08	<0.1	0.02	4.2	<0.1	<0.05	7	0.6	<0.2
PC11-GW11	Soil	8	0.37	25	0.042	3	1.89	0.020	0.07	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11-GW12	Soil	5	0.28	17	0.018	3	1.57	0.016	0.05	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
PC11-GW13	Soil	12	0.41	38	0.057	3	2.08	0.021	0.07	<0.1	0.02	5.4	<0.1	<0.05	7	0.6	<0.2
PC11-GW14	Soil	14	0.44	40	0.067	2	2.11	0.020	0.06	<0.1	0.02	5.6	<0.1	<0.05	7	<0.5	<0.2
PC11-GW15	Soil	14	0.36	46	0.063	3	1.91	0.019	0.07	<0.1	0.04	5.7	<0.1	<0.05	7	<0.5	<0.2
PCS-G1	Soil Pulp	21	0.02	869	0.011	1	0.17	0.007	0.06	2.5	2.73	0.8	10.5	0.11	<1	1.3	<0.2
PCS-G2	Soil Pulp	50	0.85	41	0.117	<1	1.33	0.046	0.89	3.7	0.06	9.6	0.5	1.96	6	6.3	0.9
GPS-G1	Soil Pulp	21	0.02	985	0.011	<1	0.17	0.007	0.06	2.6	2.68	0.8	10.5	0.11	<1	1.6	<0.2



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Project: PC/GP

Report Date: November 09, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11005737.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PC11-GW10	Soil	0.6	18.4	5.0	49	<0.1	7.3	7.1	696	2.17	7.8	2.0	1.9	61	<0.1	0.3	<0.1	39	1.97	0.058	17
REP PC11-GW10	QC	0.6	17.5	5.0	50	<0.1	6.6	7.3	705	2.13	8.0	2.8	2.0	61	0.1	0.3	<0.1	38	2.02	0.057	17
Reference Materials																					
STD DS8	Standard	12.2	106.1	118.8	291	1.7	36.7	7.2	583	2.37	24.4	101.7	6.6	70	2.4	5.6	6.3	40	0.66	0.078	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Mill Bay BC V0R 2P4 Canada

Project: PC/GP

Report Date: November 09, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11005737.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		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
MDL		1	0.01	1	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																	
PC11-GW10	Soil	8	0.32	26	0.038	3	1.96	0.015	0.08	<0.1	0.02	4.2	<0.1	<0.05	7	0.6	<0.2
REP PC11-GW10	QC	7	0.31	26	0.037	2	1.83	0.015	0.08	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	111	0.57	267	0.118	3	0.93	0.117	0.42	3.0	0.19	2.9	5.2	0.11	5	4.3	4.5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 25, 2011
Report Date: November 09, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11005738.1

CLIENT JOB INFORMATION

Project: PC/GP
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
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Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	1	Dry at 60C			VAN
SS80	1	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	1	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: PC/GP
Report Date: November 09, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11005738.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11-GWS01 Silt	0.9	66.2	3.1	33	<0.1	15.0	8.2	315	3.45	2.9	1.6	1.0	47	<0.1	0.1	<0.1	139	0.72	0.072	7



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Project: PC/GP
Report Date: November 09, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11005738.1

Method	1DX15																
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
PC11-GWS01	Silt	28	0.42	58	0.071	2	0.89	0.019	0.06	<0.1	0.05	2.2	<0.1	<0.05	3	<0.5	<0.2



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Project: PC/GP

Report Date: November 09, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11005738.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Reference Materials																					
STD DS8	Standard	12.2	106.1	118.8	291	1.7	36.7	7.2	583	2.37	24.4	101.7	6.6	70	2.4	5.6	6.3	40	0.66	0.078	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Mill Bay BC V0R 2P4 Canada

Project: PC/GP

Report Date: November 09, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11005738.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																	
STD DS8	Standard	111	0.57	267	0.118	3	0.93	0.117	0.42	3.0	0.19	2.9	5.2	0.11	5	4.3	4.5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 25, 2011
Report Date: November 27, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN11005742.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 262

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	262	Dry at 60C			VAN
SS80	257	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	262	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: Princeton
 Report Date: November 27, 2011

Page: 2 of 10 Part 1

CERTIFICATE OF ANALYSIS

VAN11005742.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 JT001	Soil		0.4	33.7	5.5	67	<0.1	21.4	12.6	562	3.21	2.0	0.7	1.4	62	0.2	0.3	<0.1	82	0.73	0.027	11
PC11 JT002	Soil		0.4	22.2	4.6	56	<0.1	16.5	8.3	348	2.56	1.4	0.6	1.6	55	0.1	0.2	<0.1	73	0.53	0.018	9
PC11 JT003	Soil		0.5	22.8	4.4	61	<0.1	15.6	8.7	405	2.63	1.3	<0.5	1.4	54	0.1	0.2	<0.1	77	0.47	0.014	10
PC11 JT004	Soil		0.4	21.5	4.7	55	<0.1	14.5	7.2	344	2.42	1.1	<0.5	1.6	58	<0.1	0.1	<0.1	67	0.53	0.017	11
PC11 JT005	Soil		0.3	44.6	4.6	57	<0.1	17.5	12.5	552	3.25	1.7	1.5	1.4	82	0.1	0.2	<0.1	98	0.83	0.025	11
PC11 JT006	Soil		0.3	40.9	4.8	62	0.1	18.5	12.2	540	3.20	1.6	0.8	1.6	77	<0.1	0.3	<0.1	100	0.79	0.018	12
PC11 JT007	Soil		0.3	39.7	4.0	54	<0.1	19.0	11.1	400	3.33	1.4	0.9	1.4	86	<0.1	0.2	<0.1	99	0.80	0.023	11
PC11 JT008	Soil		0.3	21.7	5.2	62	<0.1	16.3	7.3	245	2.47	1.1	0.6	1.8	59	<0.1	0.1	<0.1	63	0.53	0.027	10
PC11 JT009	Soil		0.6	65.7	3.9	50	0.1	20.0	11.1	384	3.35	2.5	7.7	2.0	77	<0.1	0.2	<0.1	94	0.95	0.054	11
PC11 JT010	Soil		0.4	28.0	4.4	58	<0.1	16.2	9.2	361	2.75	1.4	0.5	1.7	59	<0.1	0.2	<0.1	74	0.54	0.026	10
PC11 JT011	Soil		0.5	21.0	4.6	62	<0.1	14.5	7.2	354	2.21	1.0	<0.5	1.5	57	0.2	0.2	<0.1	59	0.44	0.018	8
PC11 JT012	Soil		0.4	22.2	4.2	70	<0.1	15.3	7.8	374	2.60	1.3	<0.5	1.5	62	0.1	0.2	<0.1	75	0.51	0.021	9
PC11 JT013	Soil		0.5	33.6	4.5	64	<0.1	18.8	9.5	386	2.99	2.1	1.8	1.8	71	0.1	0.2	<0.1	81	0.65	0.023	11
PC11 JT014	Soil		0.4	20.0	4.7	67	<0.1	14.2	8.1	513	2.57	1.5	<0.5	1.7	65	0.1	0.2	<0.1	78	0.53	0.019	10
PC11 JT015	Soil		0.4	22.4	4.5	52	<0.1	14.4	8.6	470	2.69	1.7	1.0	1.6	87	0.1	0.2	<0.1	87	0.57	0.017	11
PC11 JT016	Soil		0.4	14.8	4.1	47	<0.1	13.8	6.1	234	2.28	1.5	<0.5	1.4	66	<0.1	<0.1	<0.1	69	0.38	0.018	8
PC11 JT017	Soil		0.5	20.8	5.2	57	<0.1	13.7	8.3	576	2.32	1.3	<0.5	1.7	77	0.1	0.1	<0.1	73	0.55	0.017	11
PC11 JT018	Soil		0.4	13.4	4.2	49	<0.1	12.6	6.2	359	2.04	1.4	2.9	1.4	57	<0.1	<0.1	<0.1	63	0.36	0.012	6
PC11 JT019	Soil		0.5	16.8	4.4	51	<0.1	9.6	6.6	392	2.37	1.3	<0.5	1.3	52	0.1	0.1	<0.1	65	0.46	0.015	11
PC11 JT020	Soil		0.5	20.7	4.9	66	<0.1	12.5	7.7	393	2.68	1.2	<0.5	1.6	73	<0.1	0.2	<0.1	71	0.60	0.017	11
PC11 JT021	Soil		0.5	19.0	5.0	54	<0.1	11.4	7.3	451	2.33	1.4	<0.5	1.4	55	0.1	0.1	<0.1	69	0.44	0.014	10
PC11 JT022	Soil		0.8	73.9	6.3	57	0.2	18.5	12.9	527	3.31	4.1	3.4	2.1	77	0.2	0.2	<0.1	84	0.94	0.078	15
PC11 JT023	Soil		0.5	53.4	5.0	52	0.1	15.2	11.0	460	3.45	3.3	0.9	1.9	68	0.2	0.1	<0.1	94	0.76	0.053	14
PC11 JT024	Soil		0.6	66.9	5.7	60	0.2	21.4	14.6	678	3.36	3.4	1.6	1.7	118	0.2	0.2	<0.1	81	3.00	0.094	13
PC11 JT025	Soil		0.5	67.5	7.6	91	<0.1	17.7	17.6	910	4.61	5.3	1.1	0.9	59	0.1	0.1	<0.1	80	1.52	0.087	20
PC11 JT026	Soil		0.6	46.7	5.6	55	<0.1	14.4	11.3	562	3.08	4.0	0.5	1.3	104	0.2	0.1	<0.1	79	1.36	0.060	13
PC11 JT027	Soil		0.3	70.3	7.1	74	0.2	34.6	21.8	789	4.41	3.1	2.3	1.0	152	0.1	0.2	0.1	108	2.22	0.044	12
PC11 JT028	Soil		0.3	66.0	7.2	80	0.1	26.5	23.1	860	4.60	3.2	1.1	1.2	92	0.2	0.2	0.2	111	2.73	0.080	15
PC11 JT029	Soil		0.4	79.2	7.4	79	0.2	38.3	22.7	958	4.38	5.7	8.4	0.9	93	0.5	0.2	0.2	87	3.70	0.088	13
PC11 JT030	Soil		0.8	19.7	4.7	74	<0.1	11.8	7.1	485	2.19	2.7	<0.5	1.5	48	0.1	<0.1	<0.1	62	0.34	0.063	6

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Project: Princeton
 Report Date: November 27, 2011

Page: 2 of 10 Part 2

CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	1DX15															
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 JT001	Soil	39	0.71	107	0.191	4	2.13	0.020	0.33	<0.1	0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
PC11 JT002	Soil	30	0.40	89	0.164	3	1.50	0.024	0.20	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT003	Soil	30	0.43	85	0.178	2	1.60	0.026	0.19	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT004	Soil	28	0.38	80	0.159	2	1.55	0.034	0.21	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT005	Soil	31	0.65	75	0.175	2	2.38	0.039	0.23	<0.1	0.02	6.8	<0.1	<0.05	7	<0.5	<0.2
PC11 JT006	Soil	35	0.62	76	0.202	3	2.18	0.041	0.30	<0.1	0.01	6.9	<0.1	<0.05	7	0.6	<0.2
PC11 JT007	Soil	37	0.59	75	0.187	3	2.43	0.046	0.27	<0.1	<0.01	7.4	<0.1	<0.05	7	0.5	<0.2
PC11 JT008	Soil	29	0.35	94	0.156	4	1.73	0.024	0.22	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT009	Soil	31	0.64	78	0.107	1	2.12	0.028	0.15	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT010	Soil	29	0.45	81	0.142	2	1.86	0.026	0.25	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 JT011	Soil	26	0.36	98	0.142	2	1.37	0.026	0.18	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT012	Soil	29	0.44	86	0.159	3	1.82	0.028	0.23	<0.1	0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT013	Soil	33	0.52	86	0.160	3	2.19	0.029	0.24	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 JT014	Soil	30	0.41	80	0.162	1	1.66	0.026	0.19	<0.1	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT015	Soil	29	0.41	75	0.176	2	1.69	0.026	0.16	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT016	Soil	28	0.26	76	0.157	2	1.25	0.024	0.16	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT017	Soil	27	0.37	96	0.159	1	1.73	0.029	0.17	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT018	Soil	26	0.28	83	0.139	1	1.24	0.030	0.13	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT019	Soil	21	0.33	87	0.125	2	1.24	0.026	0.12	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT020	Soil	26	0.35	97	0.165	2	1.82	0.027	0.14	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT021	Soil	23	0.33	87	0.146	3	1.39	0.024	0.18	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT022	Soil	27	0.77	118	0.069	4	1.99	0.027	0.15	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
PC11 JT023	Soil	26	0.63	92	0.079	2	1.76	0.024	0.13	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT024	Soil	27	0.99	101	0.078	9	2.20	0.034	0.16	<0.1	0.05	6.0	<0.1	<0.05	7	<0.5	<0.2
PC11 JT025	Soil	30	1.33	200	0.015	13	2.60	0.010	0.24	<0.1	0.05	6.9	<0.1	<0.05	10	<0.5	<0.2
PC11 JT026	Soil	25	0.71	104	0.083	14	1.64	0.019	0.19	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 JT027	Soil	47	1.83	145	0.328	3	3.36	0.024	0.22	<0.1	0.02	9.9	<0.1	<0.05	10	<0.5	<0.2
PC11 JT028	Soil	39	1.68	118	0.208	5	3.07	0.014	0.21	<0.1	0.01	8.3	<0.1	<0.05	9	0.7	<0.2
PC11 JT029	Soil	60	1.92	92	0.124	5	2.94	0.019	0.17	<0.1	0.02	7.5	<0.1	<0.05	9	<0.5	<0.2
PC11 JT030	Soil	22	0.30	113	0.114	3	1.60	0.019	0.13	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: November 27, 2011

Page: 3 of 10 Part 1

CERTIFICATE OF ANALYSIS

VAN11005742.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 JT031	Soil		0.7	17.2	5.8	78	<0.1	11.5	7.1	726	1.96	2.6	<0.5	1.5	61	0.2	<0.1	<0.1	43	0.53	0.057	7
PC11 JT032	Soil		0.7	24.6	4.2	39	<0.1	11.6	7.0	277	2.36	2.4	<0.5	1.8	62	<0.1	0.1	<0.1	73	0.49	0.022	8
PC11 JT033	Soil		0.7	19.7	5.1	54	<0.1	10.6	7.3	465	2.22	1.7	<0.5	1.4	69	0.1	0.1	<0.1	72	0.50	0.023	5
PC11 JT034	Soil		0.9	22.6	5.3	78	<0.1	12.4	7.1	646	2.15	1.7	<0.5	1.6	63	0.1	<0.1	<0.1	64	0.46	0.026	7
PC11 JT035	Soil		0.7	26.9	5.6	58	<0.1	19.2	11.4	526	2.90	1.9	<0.5	2.1	92	0.2	0.1	<0.1	75	0.65	0.023	14
PC11 JT036	Soil		0.6	25.5	5.1	52	<0.1	14.5	8.2	340	2.45	2.1	<0.5	1.7	109	0.1	<0.1	<0.1	77	0.55	0.023	11
PC11 JT037	Soil		0.5	18.3	4.0	57	<0.1	13.1	6.4	286	2.20	0.9	0.6	1.1	104	0.1	<0.1	<0.1	65	0.53	0.027	9
PC11 JT038	Soil		0.5	26.6	5.6	58	<0.1	24.8	11.8	627	3.10	1.2	0.9	1.6	109	<0.1	0.1	<0.1	79	0.90	0.033	13
PC11 JT039	Soil		0.5	21.1	5.1	59	<0.1	15.9	9.1	531	2.49	1.2	<0.5	1.5	89	<0.1	0.1	0.1	75	0.56	0.021	11
PC11 JT040	Soil		0.4	22.3	3.8	42	<0.1	11.2	6.1	289	2.80	1.5	0.7	1.6	82	<0.1	0.1	<0.1	97	0.41	0.025	9
PC11 JT041	Soil		0.4	17.5	3.2	34	<0.1	9.1	5.4	249	2.38	1.4	0.7	1.3	75	<0.1	<0.1	<0.1	85	0.34	0.025	7
PC11 JT042	Soil		0.4	32.5	5.4	79	<0.1	17.4	7.4	576	2.82	3.1	<0.5	1.9	134	<0.1	0.1	<0.1	70	0.78	0.046	12
PC11 JT043	Soil		0.4	16.3	4.6	70	<0.1	11.4	6.3	591	2.19	1.6	<0.5	1.4	97	0.1	<0.1	<0.1	65	0.45	0.024	8
PC11 JT044	Soil		0.5	17.6	3.8	82	<0.1	11.7	6.5	501	2.14	1.2	<0.5	1.1	82	0.1	0.1	<0.1	60	0.67	0.037	8
PC11 JT045	Soil		0.4	17.4	4.7	68	<0.1	14.6	6.3	424	2.25	0.9	0.6	1.8	73	0.1	0.1	<0.1	60	0.48	0.022	9
PC11 JT046	Soil		0.4	16.7	4.7	47	<0.1	14.3	6.6	545	2.18	1.4	<0.5	1.5	78	<0.1	<0.1	<0.1	52	0.55	0.027	8
PC11 JT047	Soil		0.5	18.5	4.1	60	<0.1	15.3	6.7	390	2.36	1.6	1.6	1.7	114	0.1	0.1	<0.1	66	0.46	0.028	8
PC11 JT048	Soil		0.5	15.2	4.4	53	<0.1	15.3	5.9	239	2.00	1.1	0.9	1.5	68	<0.1	<0.1	<0.1	55	0.36	0.020	6
PC11 JT049	Soil		0.5	16.4	4.8	52	<0.1	17.8	7.2	353	2.37	1.4	<0.5	1.5	75	<0.1	0.1	<0.1	64	0.45	0.029	8
PC11 JT050	Soil		0.5	19.1	5.1	64	<0.1	15.7	7.0	654	2.36	1.4	<0.5	1.3	76	0.1	0.1	<0.1	73	0.50	0.032	7
PCS-06	Soil Pulp		16.5	62.1	17.6	17	0.1	17.4	2.5	113	3.71	455.8	215.4	0.8	30	0.3	25.9	0.2	11	1.01	0.004	2
PC11 JT051	Soil		0.5	20.9	4.5	84	<0.1	16.8	7.2	654	2.53	2.2	2.1	1.4	68	0.1	0.1	<0.1	68	0.58	0.047	8
PC11 JT053	Soil		0.4	45.4	5.2	60	0.2	20.0	12.1	542	3.40	2.0	2.6	1.8	183	<0.1	0.1	<0.1	103	1.37	0.083	14
PC11 JT054	Soil		0.4	33.9	5.3	61	<0.1	17.3	9.3	528	3.14	1.5	<0.5	1.8	151	0.1	0.1	<0.1	93	0.78	0.030	14
PC11 JT055	Soil		0.4	33.8	5.1	59	<0.1	17.2	9.4	550	3.15	1.3	0.6	1.7	122	<0.1	0.1	<0.1	90	0.66	0.026	12
PC11 JT056	Soil		0.3	33.2	4.4	53	<0.1	16.5	8.1	332	3.04	1.6	<0.5	1.8	123	<0.1	0.1	<0.1	79	0.64	0.027	14
PC11 JT057	Soil		0.3	27.0	4.0	50	<0.1	15.9	6.8	288	2.69	1.1	1.5	1.6	99	<0.1	0.1	<0.1	78	0.51	0.021	10
PC11 JT058	Soil		0.3	25.6	3.5	38	<0.1	13.3	7.2	334	2.25	1.0	0.5	1.4	71	<0.1	0.2	<0.1	75	0.40	0.016	9
PC11 JT059	Soil		0.4	67.2	3.9	49	<0.1	26.3	12.1	456	3.26	0.9	1.7	1.9	61	<0.1	0.1	<0.1	72	0.59	0.025	12
PC11 JT060	Soil		0.4	52.1	4.5	54	<0.1	20.8	10.1	422	3.35	1.6	1.1	1.8	103	<0.1	0.2	<0.1	92	0.66	0.028	11

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Report Date: November 27, 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
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	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		
PC11 JT031	Soil	20	0.37	128	0.107	2	1.83	0.022	0.16	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT032	Soil	22	0.37	79	0.140	2	1.65	0.031	0.13	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT033	Soil	23	0.33	116	0.153	3	1.30	0.031	0.13	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT034	Soil	24	0.36	133	0.153	3	1.46	0.028	0.22	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 JT035	Soil	32	0.66	101	0.158	3	2.18	0.029	0.22	<0.1	0.02	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 JT036	Soil	27	0.44	99	0.169	<1	1.73	0.035	0.21	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT037	Soil	26	0.35	96	0.182	2	1.43	0.023	0.17	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT038	Soil	31	0.70	104	0.248	2	2.79	0.023	0.15	<0.1	0.03	6.9	<0.1	<0.05	9	<0.5	<0.2
PC11 JT039	Soil	26	0.42	94	0.187	2	1.61	0.022	0.16	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT040	Soil	25	0.28	79	0.114	<1	1.31	0.021	0.09	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT041	Soil	21	0.24	60	0.119	<1	1.01	0.023	0.09	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 JT042	Soil	30	0.38	103	0.106	4	1.92	0.021	0.25	<0.1	0.02	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT043	Soil	22	0.29	122	0.148	2	1.35	0.026	0.20	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT044	Soil	22	0.33	109	0.140	3	1.31	0.023	0.18	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT045	Soil	24	0.33	94	0.143	3	1.54	0.021	0.18	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT046	Soil	27	0.30	100	0.124	4	1.35	0.018	0.24	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT047	Soil	29	0.32	100	0.137	2	1.51	0.022	0.17	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT048	Soil	31	0.33	90	0.149	2	1.32	0.026	0.10	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT049	Soil	36	0.39	92	0.156	2	1.51	0.021	0.21	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT050	Soil	30	0.33	113	0.145	4	1.22	0.023	0.21	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PCS-06	Soil Pulp	23	0.02	1025	0.010	1	0.16	0.007	0.06	2.9	2.89	0.8	11.1	0.10	<1	1.3	<0.2
PC11 JT051	Soil	30	0.39	126	0.135	4	1.71	0.021	0.23	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT053	Soil	23	0.90	60	0.236	2	2.34	0.059	0.10	<0.1	0.04	7.3	<0.1	<0.05	9	<0.5	<0.2
PC11 JT054	Soil	25	0.53	73	0.206	2	2.04	0.034	0.17	<0.1	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
PC11 JT055	Soil	27	0.40	72	0.207	2	2.01	0.027	0.21	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 JT056	Soil	26	0.42	70	0.160	4	1.97	0.025	0.30	<0.1	0.02	6.6	<0.1	<0.05	6	<0.5	<0.2
PC11 JT057	Soil	31	0.32	67	0.179	2	1.51	0.026	0.16	<0.1	0.01	5.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT058	Soil	25	0.27	69	0.152	2	1.00	0.026	0.17	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT059	Soil	29	0.59	86	0.130	6	1.82	0.024	0.39	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 JT060	Soil	31	0.47	73	0.160	2	1.85	0.024	0.22	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2



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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				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	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
PC11 JT061	Soil			0.5	28.9	4.2	60	<0.1	17.0	9.4	536	2.56	0.9	0.9	1.6	61	0.1	0.2	<0.1	73	0.49	0.014	9
PC11 JT062	Soil			0.4	19.6	4.6	69	<0.1	16.7	8.0	512	2.46	0.9	<0.5	1.5	67	0.1	0.1	<0.1	64	0.44	0.016	9
PC11 JT063	Soil			0.6	13.5	4.8	47	<0.1	9.8	6.3	279	2.05	0.9	<0.5	1.0	74	<0.1	<0.1	<0.1	58	0.43	0.017	4
PC11 JT064	Soil			0.5	20.7	5.8	159	<0.1	20.3	7.9	683	2.75	3.0	<0.5	1.5	65	0.3	0.2	<0.1	61	0.59	0.037	8
PC11 JT065	Soil			0.6	20.9	5.5	122	<0.1	22.1	8.6	682	2.65	2.5	<0.5	1.7	57	0.1	0.2	<0.1	59	0.49	0.026	10
PC11 JT066	Soil			0.6	21.5	5.7	129	<0.1	22.4	9.0	804	2.53	1.7	0.5	1.5	61	0.2	0.2	<0.1	60	0.58	0.021	11
PC11 JT067	Soil			0.6	18.8	6.2	83	<0.1	21.7	8.4	790	2.46	1.0	<0.5	1.6	70	0.1	0.1	<0.1	60	0.53	0.015	14
PC11 JT068	Soil			0.3	20.8	7.0	75	<0.1	16.0	7.1	613	2.37	1.3	<0.5	1.5	142	<0.1	0.1	<0.1	58	0.63	0.024	14
PC11 JT069	Soil			0.5	14.0	6.5	61	<0.1	14.3	6.2	447	2.02	0.7	0.6	1.7	100	<0.1	0.1	<0.1	49	0.49	0.011	14
PC11 JT070	Soil			0.4	13.4	5.7	66	<0.1	14.6	6.5	491	2.15	0.8	<0.5	1.5	92	<0.1	0.1	<0.1	60	0.43	0.014	11
PC11 JT071	Soil			0.5	11.0	5.7	78	<0.1	15.6	7.3	823	2.07	0.8	<0.5	1.3	83	0.2	0.1	<0.1	61	0.42	0.016	11
PC11 JT072	Soil			0.5	15.6	7.3	64	<0.1	15.1	6.8	544	2.08	0.8	<0.5	1.5	88	0.1	0.1	<0.1	54	0.56	0.021	19
PC11 JT073	Soil			0.5	12.2	5.5	55	<0.1	13.2	6.0	560	1.81	<0.5	0.6	1.5	81	0.1	0.1	<0.1	53	0.40	0.008	11
PC11 JT074	Soil			0.4	13.2	5.7	73	<0.1	14.2	6.6	582	2.02	0.7	<0.5	1.5	62	0.1	0.1	<0.1	54	0.49	0.018	11
PC11 JT075	Soil			0.2	17.4	5.5	64	<0.1	15.3	7.0	459	2.26	0.7	<0.5	1.6	62	0.1	0.2	<0.1	64	0.56	0.014	12
PC11 JT076	Soil			0.3	23.9	6.6	52	0.1	18.1	6.9	382	2.52	1.1	1.2	1.9	62	<0.1	0.2	<0.1	58	0.72	0.028	17
PC11 JT077	Soil			0.4	16.1	5.6	68	<0.1	14.6	6.4	386	2.13	0.7	1.3	1.7	62	<0.1	0.1	<0.1	59	0.56	0.020	14
PC11 JT078	Soil			0.4	15.8	6.3	74	<0.1	13.5	7.4	532	2.31	1.2	1.2	1.4	116	0.1	<0.1	0.1	67	0.62	0.029	11
PC11 JT079	Soil			0.3	14.3	6.7	102	<0.1	15.0	6.6	374	2.21	1.2	<0.5	1.6	60	0.1	<0.1	<0.1	44	0.53	0.025	10
PC11 JT080	Soil			0.4	19.7	4.4	47	<0.1	18.6	6.3	227	2.39	1.2	0.9	1.7	89	<0.1	0.1	<0.1	69	0.53	0.032	12
PC11 JT081	Soil			0.3	13.6	4.1	46	<0.1	10.7	5.0	169	2.00	1.3	1.0	1.2	74	<0.1	<0.1	<0.1	62	0.42	0.032	7
PC11 JT082	Soil			0.3	15.4	4.2	69	<0.1	12.2	4.9	346	2.27	1.1	0.9	1.4	88	<0.1	<0.1	<0.1	73	0.51	0.034	8
PC11 JT083	Soil			0.4	11.7	4.9	48	<0.1	8.6	5.6	382	1.82	0.8	<0.5	1.6	93	<0.1	0.1	<0.1	54	0.38	0.009	10
PC11 JT084	Soil			0.4	15.1	3.7	51	<0.1	7.7	4.9	221	1.85	0.7	<0.5	1.3	81	<0.1	0.1	<0.1	66	0.41	0.013	7
PC11 JT085	Soil			0.4	14.2	3.8	65	<0.1	9.3	4.8	238	1.88	0.9	<0.5	1.4	81	<0.1	<0.1	<0.1	61	0.41	0.019	8
PC11 JT086	Soil			0.5	11.4	3.6	61	<0.1	9.8	5.1	301	2.01	0.6	<0.5	1.0	75	<0.1	0.1	<0.1	66	0.36	0.015	6
PC11 JT087	Soil			0.4	15.3	3.6	59	<0.1	13.8	6.0	319	2.15	1.1	<0.5	1.4	83	<0.1	0.1	<0.1	68	0.42	0.016	9
PC11 JT088	Soil			0.5	14.1	4.2	67	<0.1	12.3	5.9	367	2.07	1.0	<0.5	1.3	68	<0.1	0.1	<0.1	65	0.44	0.015	8
PC11 JT089	Soil			0.3	15.2	4.4	63	<0.1	10.9	5.4	309	1.99	0.7	2.3	1.4	88	<0.1	<0.1	<0.1	64	0.43	0.019	8
PC11 JT090	Soil			0.5	19.3	4.3	63	<0.1	12.6	6.9	485	2.16	1.0	<0.5	1.3	81	<0.1	<0.1	<0.1	63	0.47	0.024	9

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 JT061	Soil			27	0.32	89	0.147	3	1.28	0.027	0.21	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 JT062	Soil			28	0.37	101	0.161	4	1.47	0.028	0.26	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT063	Soil			24	0.32	73	0.155	5	1.13	0.027	0.18	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 JT064	Soil			35	0.44	116	0.145	8	1.66	0.021	0.30	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT065	Soil			38	0.43	121	0.155	4	1.70	0.022	0.26	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT066	Soil			39	0.41	144	0.154	3	1.66	0.025	0.16	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT067	Soil			37	0.37	102	0.152	3	1.69	0.027	0.15	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 JT068	Soil			29	0.39	123	0.118	3	1.67	0.024	0.24	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT069	Soil			26	0.29	114	0.144	2	1.47	0.027	0.18	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT070	Soil			31	0.30	100	0.166	3	1.34	0.027	0.18	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT071	Soil			30	0.29	110	0.156	2	1.24	0.024	0.17	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT072	Soil			26	0.30	95	0.110	3	1.44	0.022	0.15	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT073	Soil			26	0.24	106	0.137	2	1.18	0.026	0.17	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 JT074	Soil			24	0.30	105	0.133	4	1.68	0.024	0.17	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT075	Soil			27	0.35	84	0.161	2	1.71	0.026	0.15	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT076	Soil			29	0.43	84	0.133	2	2.57	0.021	0.12	<0.1	0.03	5.2	<0.1	<0.05	9	<0.5	<0.2
PC11 JT077	Soil			26	0.35	83	0.142	3	1.82	0.026	0.14	<0.1	0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 JT078	Soil			23	0.36	98	0.158	3	1.81	0.023	0.23	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
PC11 JT079	Soil			20	0.37	102	0.126	5	2.83	0.018	0.19	<0.1	0.02	4.1	<0.1	<0.05	9	<0.5	<0.2
PC11 JT080	Soil			33	0.30	87	0.168	3	1.63	0.023	0.15	<0.1	0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT081	Soil			23	0.23	80	0.163	3	1.28	0.021	0.17	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT082	Soil			28	0.24	86	0.171	5	1.36	0.024	0.19	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT083	Soil			18	0.22	112	0.135	2	1.12	0.023	0.14	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 JT084	Soil			19	0.20	77	0.149	2	0.99	0.022	0.14	<0.1	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
PC11 JT085	Soil			20	0.21	93	0.154	2	1.16	0.024	0.18	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT086	Soil			21	0.22	85	0.161	2	1.14	0.024	0.14	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT087	Soil			27	0.25	94	0.166	2	1.39	0.029	0.17	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT088	Soil			27	0.23	89	0.157	3	1.24	0.026	0.13	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT089	Soil			22	0.27	89	0.182	3	1.31	0.026	0.21	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
PC11 JT090	Soil			22	0.31	80	0.169	3	1.40	0.025	0.23	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

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 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 JT091	Soil			0.6	20.1	4.5	65	<0.1	16.0	8.1	468	2.45	1.5	<0.5	1.5	61	0.1	0.1	<0.1	73	0.46	0.025	9
PC11 JT092	Soil			0.3	30.7	3.7	73	<0.1	15.8	7.6	578	2.00	1.3	<0.5	0.9	192	0.3	<0.1	<0.1	43	2.51	0.033	8
PC11 JT093	Soil			0.5	22.3	5.2	90	<0.1	18.4	7.8	402	2.40	1.5	0.9	1.7	58	0.2	0.2	<0.1	71	0.47	0.022	10
PC11 JT094	Soil			0.5	22.1	5.3	88	<0.1	21.0	9.0	655	2.54	2.2	<0.5	1.4	58	0.2	0.1	<0.1	72	0.46	0.014	9
PC11 JT095	Soil			0.6	18.4	5.2	80	<0.1	20.0	7.7	534	2.28	2.0	<0.5	1.5	51	0.2	0.1	<0.1	63	0.45	0.019	11
PC11 JT096	Soil			0.4	25.7	5.3	70	<0.1	24.8	9.1	448	2.71	1.3	2.4	1.7	106	0.1	0.1	<0.1	78	0.57	0.019	13
PC11 JT097	Soil			0.3	18.1	5.8	63	<0.1	17.8	7.5	480	2.12	0.7	0.7	1.5	98	0.1	0.1	<0.1	64	0.48	0.018	11
PC11 JT098	Soil			0.4	17.7	5.6	50	<0.1	16.9	6.8	391	2.31	1.0	<0.5	1.6	113	0.1	0.1	<0.1	73	0.48	0.016	13
PC11 JT099	Soil			0.4	13.4	5.2	57	<0.1	15.6	7.3	510	2.10	0.7	<0.5	1.5	110	0.1	0.1	<0.1	66	0.44	0.010	11
PC11 JT100	Soil			0.4	16.0	5.2	59	<0.1	16.3	7.3	524	2.22	0.7	<0.5	1.5	88	<0.1	0.1	<0.1	69	0.47	0.014	12
PCS-08	Soil Pulp			16.3	63.4	17.1	16	0.1	16.1	2.5	103	3.50	424.4	209.0	0.8	29	0.4	24.6	0.2	10	0.97	0.005	2
PC11 JT101	Soil			0.4	15.8	5.3	51	<0.1	14.2	6.3	408	2.04	0.8	<0.5	1.6	88	<0.1	<0.1	<0.1	62	0.46	0.009	11
PC11 JT102	Soil			0.3	19.5	5.4	64	<0.1	13.9	6.7	480	2.02	1.1	3.3	1.4	102	<0.1	0.1	<0.1	60	0.49	0.013	11
PC11 JT103	Soil			0.5	23.9	5.5	53	<0.1	19.0	7.7	354	2.55	1.2	0.9	1.7	118	<0.1	0.1	<0.1	71	0.70	0.022	14
PC11 JT104	Soil			0.4	15.1	6.8	72	<0.1	13.9	6.8	534	2.07	0.9	<0.5	1.5	114	0.1	0.1	<0.1	68	0.54	0.012	11
PC11 JT105	Soil			0.4	18.4	6.1	58	<0.1	16.2	8.7	695	2.17	1.0	<0.5	1.5	85	0.1	0.1	<0.1	70	0.53	0.013	12
PC11 JT106	Soil			0.4	40.1	5.7	55	<0.1	25.4	10.8	440	3.10	1.3	0.6	1.7	101	0.1	0.1	<0.1	89	0.82	0.023	13
PC11 JT107	Soil			0.4	17.6	6.2	54	<0.1	14.1	8.8	739	1.92	0.7	0.7	1.4	236	0.1	<0.1	<0.1	75	0.68	0.012	13
PC11 JT108	Soil			0.4	14.8	4.6	52	<0.1	12.5	6.3	333	1.97	<0.5	<0.5	1.2	119	<0.1	<0.1	<0.1	62	0.49	0.012	9
PC11 JT109	Soil			0.4	15.1	4.7	60	<0.1	14.3	6.8	469	2.21	1.0	<0.5	1.3	111	0.1	0.2	0.2	64	0.49	0.014	10
PC11 JT110	Soil			0.4	18.6	5.1	52	<0.1	17.0	8.0	433	2.13	1.2	<0.5	1.7	101	0.1	0.1	<0.1	61	0.47	0.014	13
PC11 JT111	Soil			0.4	13.1	5.1	56	<0.1	11.1	5.8	570	2.02	0.6	<0.5	1.4	87	<0.1	<0.1	<0.1	53	0.46	0.019	8
PC11 JT112	Soil			0.5	14.5	4.9	67	<0.1	12.5	6.8	423	2.18	0.7	1.6	1.5	97	0.1	0.1	<0.1	75	0.43	0.014	10
PC11 JT113	Soil			0.4	12.4	5.4	53	<0.1	10.7	5.8	398	2.06	0.9	0.7	1.6	63	<0.1	0.1	<0.1	65	0.41	0.015	13
PC11 JT114	Soil			0.3	12.0	3.9	50	<0.1	10.9	4.8	269	1.73	0.7	0.6	1.4	53	<0.1	0.1	<0.1	49	0.40	0.015	9
PC11 JT115	Soil			0.3	33.4	6.9	71	<0.1	14.8	11.6	722	3.02	1.8	<0.5	1.4	139	0.1	0.1	<0.1	91	1.42	0.055	15
PC11 JT116	Soil			0.3	22.3	5.6	78	<0.1	17.4	9.2	578	2.65	0.9	<0.5	1.4	154	0.1	0.1	<0.1	98	0.54	0.015	12
PC11 JT117	Soil			0.5	24.4	5.1	65	<0.1	17.3	7.9	486	2.55	0.8	<0.5	1.5	96	0.1	0.1	<0.1	86	0.67	0.022	12
PC11 JT118	Soil			0.4	21.7	4.4	63	<0.1	15.3	8.5	481	2.70	0.8	<0.5	1.3	75	<0.1	0.1	<0.1	99	0.51	0.016	10
PC11 JT119	Soil			0.4	19.2	4.6	62	<0.1	16.9	5.9	438	2.25	1.5	1.8	1.7	86	<0.1	0.1	<0.1	55	0.47	0.029	10

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 JT091	Soil			31	0.37	90	0.147	4	1.50	0.025	0.17	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT092	Soil			22	1.53	126	0.107	17	1.61	0.059	0.27	<0.1	0.01	4.5	<0.1	<0.05	4	0.6	<0.2
PC11 JT093	Soil			35	0.36	96	0.154	3	1.61	0.028	0.18	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT094	Soil			40	0.38	104	0.159	2	1.39	0.028	0.18	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT095	Soil			37	0.41	95	0.143	3	1.44	0.022	0.21	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT096	Soil			44	0.45	111	0.170	2	1.85	0.028	0.21	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT097	Soil			33	0.33	96	0.159	3	1.40	0.029	0.25	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT098	Soil			37	0.33	99	0.167	2	1.52	0.034	0.17	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT099	Soil			33	0.31	116	0.160	2	1.38	0.028	0.20	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT100	Soil			34	0.28	89	0.167	2	1.32	0.033	0.15	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PCS-08	Soil Pulp			22	0.02	840	0.010	<1	0.17	0.006	0.06	2.3	2.72	0.7	10.2	0.12	<1	1.5	<0.2
PC11 JT101	Soil			32	0.28	83	0.158	2	1.38	0.027	0.17	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT102	Soil			28	0.30	97	0.173	2	1.47	0.029	0.19	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT103	Soil			33	0.43	91	0.188	2	2.26	0.028	0.17	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 JT104	Soil			27	0.32	117	0.182	1	1.67	0.027	0.14	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT105	Soil			30	0.34	101	0.162	1	1.59	0.027	0.18	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT106	Soil			41	0.67	72	0.169	2	2.61	0.047	0.17	<0.1	0.02	7.2	<0.1	<0.05	8	<0.5	<0.2
PC11 JT107	Soil			25	0.36	173	0.136	1	1.65	0.051	0.24	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT108	Soil			24	0.33	122	0.157	3	1.56	0.037	0.15	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT109	Soil			24	0.37	115	0.147	4	1.51	0.027	0.16	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT110	Soil			27	0.36	114	0.124	3	1.53	0.027	0.14	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT111	Soil			20	0.31	79	0.145	4	1.44	0.017	0.18	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT112	Soil			24	0.32	94	0.196	3	1.37	0.023	0.15	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT113	Soil			21	0.27	62	0.185	3	1.36	0.020	0.13	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT114	Soil			21	0.25	76	0.147	4	1.19	0.022	0.15	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT115	Soil			32	0.74	92	0.238	5	3.41	0.015	0.29	<0.1	0.03	7.9	<0.1	<0.05	11	<0.5	<0.2
PC11 JT116	Soil			38	0.42	103	0.230	2	1.67	0.021	0.15	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT117	Soil			33	0.39	80	0.222	3	1.71	0.026	0.16	<0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT118	Soil			33	0.40	65	0.237	2	1.56	0.031	0.12	<0.1	<0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT119	Soil			28	0.30	89	0.148	5	1.52	0.020	0.20	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	1
PC11 JT120	Soil	0.5	17.8	4.2	53	<0.1	19.1	7.8	408	2.38	1.7	<0.5	1.5	81	0.1	0.2	<0.1	65	0.46	0.018	10
PC11 AP16	Soil	0.4	21.9	4.9	60	<0.1	13.0	9.2	428	2.64	1.2	<0.5	1.3	71	0.1	0.3	<0.1	84	0.67	0.024	9
PC11 AP17	Soil	0.4	20.8	4.4	64	<0.1	15.5	10.1	527	2.76	1.2	1.5	1.4	55	0.1	0.2	0.1	80	0.60	0.016	10
PC11 AP18	Soil	0.3	32.2	5.2	61	<0.1	22.5	15.2	720	3.24	1.7	1.0	1.2	66	0.1	0.4	<0.1	93	0.91	0.023	9
PC11 AP19	Soil	0.4	41.9	4.5	57	<0.1	18.3	13.9	799	3.18	1.5	0.5	1.2	89	0.2	0.4	<0.1	99	1.26	0.026	8
PC11 AP20	Soil	0.5	22.1	4.8	71	<0.1	20.5	9.7	512	2.68	1.7	<0.5	1.5	57	0.1	0.2	<0.1	75	0.57	0.016	9
PC11 AP21	Soil	0.4	16.9	5.5	67	<0.1	16.6	8.6	572	2.27	1.1	0.6	1.2	54	0.2	0.1	<0.1	70	0.49	0.014	8
PC11 AP22	Soil	0.4	17.4	5.5	69	<0.1	19.1	8.9	523	2.29	1.0	<0.5	1.5	58	0.1	0.2	<0.1	66	0.53	0.011	8
PC11 AP23	Soil	0.4	23.2	4.5	36	<0.1	14.3	7.5	417	2.20	1.2	0.7	1.4	94	<0.1	0.1	<0.1	54	0.60	0.021	9
PC11 AP24	Soil	0.5	23.6	5.3	50	<0.1	13.2	8.4	534	2.56	1.4	<0.5	1.4	97	<0.1	0.1	<0.1	68	0.64	0.024	10
PC11 AP25	Soil	0.7	24.6	4.9	68	<0.1	8.2	9.9	692	2.68	1.2	0.9	0.9	56	0.2	0.1	<0.1	66	0.54	0.034	10
PC11 AP26	Soil	0.4	19.7	4.6	65	<0.1	12.2	7.3	411	2.60	1.0	<0.5	1.2	77	<0.1	0.1	<0.1	67	0.52	0.035	10
PC11 AP27	Soil	0.4	22.6	5.3	102	<0.1	13.9	7.5	693	2.50	1.8	<0.5	1.4	70	0.2	0.2	<0.1	66	0.57	0.027	10
PC11 AP28	Soil	1.0	24.2	5.8	60	<0.1	14.6	8.5	455	2.67	2.4	0.9	1.4	60	0.1	0.2	<0.1	69	0.50	0.030	10
PC11 AP29	Soil	0.5	19.7	5.1	72	<0.1	14.5	7.6	534	2.37	1.6	<0.5	1.4	53	0.1	0.2	<0.1	61	0.49	0.020	9
PC11 AP30	Soil	0.5	18.1	4.2	43	<0.1	9.9	6.8	385	2.36	1.5	<0.5	1.1	50	<0.1	0.1	<0.1	73	0.38	0.016	10
PC11 AP31	Soil	0.5	15.2	4.6	43	<0.1	9.1	6.7	444	2.16	0.9	0.6	1.1	43	<0.1	0.1	<0.1	61	0.37	0.014	10
PC11 AP32	Soil	0.4	16.7	4.0	58	<0.1	10.2	6.5	359	2.30	1.0	<0.5	1.2	51	<0.1	0.1	<0.1	64	0.42	0.019	9
PC11 AP33	Soil	0.4	20.6	4.1	54	<0.1	12.2	7.2	482	2.23	1.0	<0.5	1.3	60	0.1	0.1	<0.1	60	0.45	0.022	9
PC11 AP34	Soil	0.5	23.9	4.4	44	<0.1	12.2	8.3	454	2.39	1.5	<0.5	1.5	62	<0.1	0.2	<0.1	78	0.44	0.017	9
PC11 AP35	Soil	0.4	36.1	4.9	43	<0.1	13.7	9.7	471	2.74	1.7	<0.5	1.5	67	<0.1	0.2	<0.1	76	0.55	0.019	12
PC11 AP36	Soil	0.4	41.1	5.9	58	<0.1	14.0	10.1	556	3.23	2.1	49.8	1.4	86	0.1	0.3	<0.1	86	0.83	0.033	13
PC11 AP37	Soil	0.4	24.6	4.6	59	<0.1	11.6	8.5	456	2.74	1.6	<0.5	1.2	87	<0.1	0.2	<0.1	94	0.64	0.018	9
PC11 AP38	Soil	0.4	32.6	5.6	93	<0.1	13.9	10.7	668	3.10	2.2	<0.5	1.3	116	0.2	0.2	<0.1	94	0.86	0.031	10
PC11 AP39	Soil	0.4	30.5	4.1	57	0.1	15.9	7.7	327	2.87	2.1	2.0	1.4	99	0.2	0.2	<0.1	80	0.74	0.023	10
PC11 AP40	Soil	0.4	32.3	5.0	48	<0.1	14.0	8.9	382	3.05	1.4	0.6	1.4	103	0.1	0.2	<0.1	87	0.72	0.019	13
PC11 AP41	Soil	0.4	43.4	6.1	67	<0.1	24.2	12.6	661	3.07	2.3	2.4	1.1	119	<0.1	0.2	<0.1	80	1.63	0.030	10
PC11 AP42	Soil	0.4	21.9	5.3	61	<0.1	12.8	9.5	593	2.88	2.1	<0.5	1.0	95	0.1	0.2	<0.1	100	0.68	0.018	10
PC11 AP43	Soil	0.2	54.1	6.8	79	<0.1	26.5	16.1	790	4.07	2.4	1.1	1.1	117	0.2	0.2	0.1	104	1.28	0.026	12
PC11 AP44	Soil	0.3	53.1	5.4	66	0.1	18.2	13.1	560	4.22	3.0	0.9	1.5	202	0.2	0.2	<0.1	94	1.44	0.049	13

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Princeton
Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	1DX15															
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 JT120	Soil	30	0.34	92	0.149	3	1.48	0.025	0.14	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP16	Soil	27	0.49	91	0.211	3	1.79	0.028	0.21	<0.1	0.01	6.7	<0.1	<0.05	5	<0.5	<0.2
PC11 AP17	Soil	27	0.55	87	0.171	3	1.88	0.023	0.24	<0.1	<0.01	6.0	<0.1	<0.05	5	<0.5	<0.2
PC11 AP18	Soil	56	1.00	79	0.286	3	2.69	0.019	0.22	<0.1	0.01	9.4	<0.1	<0.05	8	<0.5	<0.2
PC11 AP19	Soil	37	0.87	87	0.255	3	3.69	0.031	0.18	<0.1	0.01	10.2	<0.1	<0.05	10	<0.5	<0.2
PC11 AP20	Soil	36	0.50	86	0.184	2	1.87	0.026	0.19	<0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 AP21	Soil	28	0.38	85	0.153	3	1.28	0.025	0.18	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP22	Soil	33	0.39	109	0.158	4	1.45	0.026	0.17	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP23	Soil	22	0.44	101	0.103	3	1.53	0.027	0.18	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 AP24	Soil	23	0.44	89	0.177	3	1.68	0.023	0.29	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP25	Soil	15	0.52	91	0.076	3	1.54	0.016	0.31	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP26	Soil	25	0.43	80	0.144	4	1.73	0.017	0.31	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 AP27	Soil	26	0.37	93	0.145	4	1.74	0.025	0.22	<0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 AP28	Soil	26	0.42	94	0.132	4	1.61	0.025	0.28	<0.1	0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP29	Soil	25	0.36	102	0.138	4	1.57	0.023	0.28	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP30	Soil	21	0.30	69	0.126	2	1.01	0.019	0.18	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP31	Soil	19	0.26	68	0.108	1	1.00	0.020	0.16	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP32	Soil	23	0.27	74	0.125	4	1.12	0.023	0.17	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP33	Soil	23	0.33	83	0.125	6	1.23	0.027	0.23	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP34	Soil	22	0.35	72	0.150	2	1.11	0.021	0.20	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP35	Soil	23	0.47	81	0.139	3	1.62	0.023	0.21	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP36	Soil	22	0.65	62	0.243	3	2.12	0.018	0.25	<0.1	0.01	6.9	<0.1	<0.05	7	<0.5	<0.2
PC11 AP37	Soil	22	0.50	57	0.245	2	1.72	0.022	0.22	<0.1	<0.01	7.2	<0.1	<0.05	6	<0.5	<0.2
PC11 AP38	Soil	23	0.67	57	0.274	4	2.31	0.018	0.31	<0.1	0.02	8.4	<0.1	<0.05	8	<0.5	<0.2
PC11 AP39	Soil	30	0.50	82	0.169	3	1.98	0.029	0.14	<0.1	0.02	6.1	<0.1	<0.05	6	<0.5	<0.2
PC11 AP40	Soil	28	0.48	83	0.227	2	2.05	0.038	0.15	<0.1	0.02	7.4	<0.1	<0.05	6	<0.5	<0.2
PC11 AP41	Soil	48	0.94	48	0.159	3	3.55	0.012	0.35	<0.1	0.02	7.1	<0.1	<0.05	9	<0.5	<0.2
PC11 AP42	Soil	27	0.58	65	0.265	2	1.57	0.028	0.20	<0.1	0.02	6.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP43	Soil	43	1.32	59	0.306	3	3.00	0.024	0.28	<0.1	0.01	8.8	<0.1	<0.05	11	<0.5	<0.2
PC11 AP44	Soil	33	1.09	79	0.248	7	3.57	0.017	0.30	<0.1	0.01	9.8	<0.1	<0.05	12	<0.5	<0.2



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 Report Date: November 27, 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	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 AP45	Soil	0.5	35.2	7.1	80	<0.1	13.3	10.7	605	3.39	6.2	2.3	1.3	117	0.2	0.2	<0.1	77	0.94	0.046	16
PC11 AP46	Soil	1.0	52.0	6.9	84	<0.1	12.2	14.2	899	3.93	7.0	1.6	1.0	102	0.1	0.2	<0.1	98	1.16	0.044	11
PC11 AP47	Soil	0.5	43.4	7.7	77	0.2	9.4	11.5	726	3.60	5.6	3.9	1.5	171	0.2	0.3	<0.1	81	1.25	0.051	12
PC11 AP48	Soil	0.5	47.3	6.0	78	0.1	13.4	11.7	744	3.47	3.6	1.9	1.2	247	0.1	0.2	<0.1	93	1.28	0.045	11
PC11 AP49	Soil	0.4	34.3	6.8	83	<0.1	14.7	13.2	1044	3.63	3.1	<0.5	1.3	254	0.2	0.2	<0.1	97	1.65	0.041	14
PC11 AP50	Soil	0.3	47.2	7.7	73	0.1	14.5	14.5	955	3.78	3.5	3.3	1.0	290	0.2	0.1	<0.1	92	1.75	0.069	10
PCS-05	Soil Pulp	130.2	3812	24.3	66	2.6	37.9	20.9	415	4.37	58.7	511.9	1.9	28	0.5	3.6	0.4	122	0.32	0.099	10
PC11 AP51	Soil	0.3	49.0	5.1	77	<0.1	14.2	15.5	994	4.23	2.6	2.5	0.8	382	<0.1	0.2	<0.1	102	1.49	0.074	9
PC11 AP52	Soil	0.4	55.4	6.7	77	<0.1	16.9	16.4	908	4.08	10.3	3.5	0.9	154	0.2	0.3	<0.1	105	1.10	0.039	9
PC11 AP53	Soil	0.3	71.4	6.4	77	<0.1	20.3	18.6	1064	4.18	3.0	1.9	0.9	181	<0.1	0.3	<0.1	101	1.92	0.049	10
PC11 AP54	Soil	0.8	93.4	3.2	81	0.2	23.5	25.9	1049	5.90	10.4	13.6	0.7	106	0.2	0.4	<0.1	103	1.57	0.054	6
PC11 AP55	Soil	1.9	80.0	5.0	69	0.4	20.7	24.7	876	4.57	8.4	8.8	0.6	133	0.1	0.3	0.2	98	1.90	0.061	5
PC11 AP56	Soil	1.8	113.6	3.0	75	0.4	17.3	20.4	1004	4.23	8.0	13.3	0.6	174	0.2	0.1	<0.1	115	4.21	0.068	6
PC11 AP57	Soil	0.6	92.3	3.1	87	0.2	21.9	22.4	1118	4.53	3.5	5.2	0.8	265	0.2	0.2	<0.1	128	1.83	0.092	8
PC11 AP58	Soil	0.7	61.3	3.5	72	<0.1	25.8	17.7	894	3.81	5.6	<0.5	1.1	221	0.2	0.2	<0.1	102	1.50	0.075	7
PC11 AP59	Soil	0.6	60.1	4.0	66	<0.1	27.1	16.2	766	3.61	4.0	2.3	1.0	201	0.2	0.2	<0.1	100	1.50	0.064	7
PC11 AP60	Soil	0.8	45.9	4.5	53	<0.1	26.3	12.2	502	3.19	3.8	2.8	1.5	80	0.1	0.3	<0.1	78	0.75	0.042	8
PC11 MP01	Soil	0.5	56.6	4.2	48	<0.1	14.5	9.8	462	2.82	2.0	<0.5	1.6	72	<0.1	0.2	<0.1	76	0.54	0.025	13
PC11 MP02	Soil	0.8	66.4	4.9	59	0.2	17.9	12.6	592	3.12	3.4	2.5	1.6	99	0.1	0.2	<0.1	81	1.77	0.085	14
PC11 MP03	Soil	0.5	27.9	4.4	53	<0.1	11.9	8.9	548	2.97	1.7	<0.5	1.1	85	<0.1	0.2	<0.1	91	0.61	0.025	11
PC11 MP04	Soil	0.6	54.7	6.3	70	<0.1	17.5	14.3	761	3.62	3.4	1.9	1.6	101	0.2	0.2	<0.1	89	1.46	0.078	15
PC11 MP05	Soil	0.5	23.5	4.4	57	<0.1	11.4	8.5	476	2.68	1.9	<0.5	1.2	73	0.1	0.2	<0.1	86	0.52	0.020	11
PC11 MP06	Soil	0.4	44.8	4.7	56	<0.1	14.1	10.4	496	3.47	2.0	3.2	1.5	92	<0.1	0.2	<0.1	88	0.82	0.042	11
PC11 MP07	Soil	0.4	40.7	6.2	71	<0.1	15.4	13.4	858	3.71	2.7	<0.5	1.2	80	0.1	0.2	<0.1	91	0.98	0.040	14
PC11 MP08	Soil	0.4	24.9	4.5	56	<0.1	11.8	9.2	525	2.90	2.1	<0.5	1.1	80	0.1	0.2	0.1	97	0.58	0.016	10
PC11 MP09	Soil	0.4	23.7	4.2	56	<0.1	12.2	8.2	430	2.78	1.7	1.9	1.2	105	<0.1	0.2	<0.1	90	0.62	0.021	11
PC11 MP10	Soil	0.3	27.5	5.1	57	<0.1	13.7	10.3	621	2.80	1.8	0.5	1.2	158	<0.1	0.2	<0.1	90	0.59	0.023	11
PC11 MP11	Soil	0.2	79.8	6.2	71	0.3	16.4	15.8	864	4.02	11.5	8.1	1.1	109	0.2	0.3	<0.1	92	1.97	0.061	15
PC11 MP12	Soil	0.4	29.2	9.0	75	<0.1	11.1	10.3	932	3.32	5.6	2.4	1.3	67	0.2	0.2	0.1	44	1.61	0.117	22
PC11 MP13	Soil	0.4	35.8	5.4	57	<0.1	17.1	10.8	541	3.18	1.9	1.0	1.4	109	<0.1	0.2	<0.1	86	0.81	0.019	10

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 AP45	Soil			22	0.69	74	0.272	7	2.45	0.017	0.36	<0.1	0.02	6.7	<0.1	<0.05	9	<0.5	<0.2
PC11 AP46	Soil			19	0.94	59	0.312	4	2.91	0.013	0.39	<0.1	0.02	8.0	<0.1	<0.05	9	<0.5	<0.2
PC11 AP47	Soil			13	0.81	78	0.304	4	2.78	0.015	0.28	0.1	0.03	7.1	<0.1	<0.05	10	<0.5	<0.2
PC11 AP48	Soil			22	0.85	71	0.278	5	2.65	0.023	0.27	<0.1	0.03	8.0	<0.1	<0.05	9	<0.5	<0.2
PC11 AP49	Soil			21	0.91	96	0.285	4	3.57	0.014	0.35	<0.1	0.03	8.7	<0.1	<0.05	12	<0.5	<0.2
PC11 AP50	Soil			26	1.14	79	0.212	2	3.49	0.028	0.17	<0.1	0.02	7.4	<0.1	<0.05	11	<0.5	<0.2
PCS-05	Soil Pulp			53	0.93	48	0.117	<1	1.33	0.049	0.96	3.9	0.08	10.9	0.5	1.93	5	6.5	1.0
PC11 AP51	Soil			27	1.43	74	0.209	<1	3.39	0.025	0.16	<0.1	0.02	6.0	<0.1	<0.05	12	<0.5	<0.2
PC11 AP52	Soil			26	1.12	85	0.253	2	2.56	0.017	0.22	<0.1	0.03	7.1	<0.1	<0.05	9	<0.5	<0.2
PC11 AP53	Soil			44	1.64	87	0.246	5	3.43	0.032	0.20	<0.1	0.02	7.3	<0.1	<0.05	9	<0.5	<0.2
PC11 AP54	Soil			27	1.14	52	0.116	2	3.56	0.031	0.20	<0.1	0.02	7.9	<0.1	0.09	10	<0.5	<0.2
PC11 AP55	Soil			26	0.86	57	0.129	2	3.89	0.030	0.16	<0.1	0.04	9.5	<0.1	<0.05	9	0.7	<0.2
PC11 AP56	Soil			27	1.54	80	0.107	5	4.65	0.017	0.23	<0.1	0.03	8.1	<0.1	<0.05	10	<0.5	<0.2
PC11 AP57	Soil			28	1.89	57	0.029	3	4.25	0.034	0.19	<0.1	0.02	9.3	<0.1	<0.05	11	<0.5	<0.2
PC11 AP58	Soil			36	1.33	76	0.122	13	3.08	0.036	0.26	<0.1	0.02	6.3	<0.1	<0.05	8	<0.5	<0.2
PC11 AP59	Soil			33	1.26	84	0.093	4	2.98	0.041	0.21	<0.1	0.02	6.2	<0.1	<0.05	8	<0.5	<0.2
PC11 AP60	Soil			36	0.74	101	0.130	4	2.24	0.026	0.29	<0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 MP01	Soil			26	0.44	100	0.108	3	1.56	0.017	0.27	<0.1	0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 MP02	Soil			25	0.81	100	0.078	3	1.77	0.030	0.12	<0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 MP03	Soil			25	0.44	73	0.146	2	1.38	0.026	0.22	<0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 MP04	Soil			26	1.00	103	0.091	3	2.19	0.018	0.25	<0.1	0.02	7.5	<0.1	<0.05	7	<0.5	<0.2
PC11 MP05	Soil			25	0.34	81	0.171	2	1.21	0.022	0.20	<0.1	0.01	5.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP06	Soil			27	0.59	84	0.121	2	2.20	0.024	0.18	<0.1	0.01	7.2	<0.1	<0.05	7	<0.5	<0.2
PC11 MP07	Soil			29	0.83	70	0.147	1	2.36	0.016	0.22	<0.1	0.02	7.4	<0.1	<0.05	8	<0.5	<0.2
PC11 MP08	Soil			27	0.51	63	0.195	2	1.47	0.029	0.22	<0.1	0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
PC11 MP09	Soil			26	0.42	72	0.205	2	1.53	0.023	0.16	<0.1	0.02	6.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP10	Soil			32	0.50	93	0.211	1	1.56	0.022	0.19	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
PC11 MP11	Soil			29	1.17	69	0.174	5	2.50	0.013	0.19	<0.1	0.02	7.1	<0.1	<0.05	8	<0.5	<0.2
PC11 MP12	Soil			14	0.88	63	0.018	7	2.43	0.017	0.46	<0.1	0.02	5.5	<0.1	<0.05	8	<0.5	<0.2
PC11 MP13	Soil			31	0.74	59	0.200	1	2.20	0.022	0.19	<0.1	0.01	7.6	<0.1	<0.05	7	<0.5	<0.2



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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 MP14	Soil		0.5	62.3	6.8	69	0.1	22.6	17.6	896	4.04	8.1	6.3	1.5	195	0.2	0.4	<0.1	107	1.36	0.041	10
PC11 MP15	Soil		0.6	56.1	5.6	73	<0.1	19.3	17.9	916	4.10	5.6	4.2	1.1	294	0.1	0.4	<0.1	107	1.07	0.052	8
PC11 MP16	Soil		0.3	58.1	6.4	59	<0.1	10.4	10.2	416	3.21	5.8	1.1	1.3	88	<0.1	0.3	<0.1	74	0.81	0.025	12
PC11 MP17	Soil		0.6	52.9	5.5	58	<0.1	25.4	15.9	590	3.64	2.1	0.8	1.5	104	<0.1	0.3	<0.1	94	1.04	0.028	10
PC11 MP18	Soil		0.3	55.1	4.7	64	<0.1	21.2	16.0	648	3.71	2.1	<0.5	1.4	94	<0.1	0.4	<0.1	105	1.09	0.024	9
PC11 MP19	Soil		0.4	22.6	9.3	85	<0.1	6.5	9.8	999	3.45	2.2	<0.5	1.1	96	0.1	0.2	0.2	61	1.67	0.116	21
PC11 MP20	Soil		0.6	67.3	4.9	61	0.2	35.5	18.7	921	3.69	11.1	2.4	1.2	341	0.2	0.2	<0.1	95	2.71	0.053	9
PC11 MP21	Soil		0.7	72.4	4.7	59	<0.1	36.1	18.7	654	3.64	4.4	0.6	1.7	173	0.2	0.2	<0.1	88	1.53	0.025	8
PC11 MP22	Soil		0.6	66.0	6.0	70	<0.1	31.0	18.7	784	3.98	4.3	1.3	1.2	177	0.2	0.2	<0.1	103	1.42	0.033	8
PC11 MP23	Soil		0.4	67.3	5.6	78	<0.1	21.4	17.7	824	3.85	3.4	2.2	1.2	135	0.1	0.1	<0.1	95	1.42	0.043	9
PC11 MP24	Soil		0.5	61.3	5.8	66	<0.1	22.5	15.7	778	3.57	3.4	1.2	1.4	155	0.1	0.2	<0.1	94	1.18	0.024	9
PC11 MP25	Soil		0.6	65.8	7.7	78	0.1	18.8	15.8	829	4.00	6.1	1.3	1.4	174	0.2	0.2	<0.1	95	1.38	0.056	11
PC11 MP26	Soil		0.5	49.6	9.8	76	0.1	14.0	15.4	1131	3.84	2.9	6.1	1.0	171	0.2	0.1	<0.1	85	1.45	0.096	10
PC11 MP27	Soil		0.4	51.6	7.3	75	<0.1	17.7	15.5	883	3.87	4.1	1.6	1.1	186	0.2	0.2	<0.1	99	1.66	0.041	9
PC11 MP28	Soil		0.3	55.3	7.9	79	<0.1	13.7	14.4	871	3.82	6.0	0.7	1.2	294	0.2	0.1	<0.1	95	2.06	0.069	10
PC11 MP29	Soil		0.8	82.3	2.5	77	<0.1	18.8	21.8	830	3.99	2.6	3.2	0.8	92	0.1	0.2	<0.1	116	1.43	0.049	6
PC11 MP30	Soil		0.4	73.5	7.0	83	0.1	16.6	20.1	972	4.51	2.3	3.0	0.9	133	0.1	0.2	<0.1	91	2.39	0.091	10
PC11 MP32	Soil		2.1	94.7	5.2	59	0.3	24.9	29.7	1030	4.32	6.3	9.3	0.8	263	0.2	0.2	0.1	92	1.82	0.051	6
PC11 MP34	Soil		0.7	36.2	5.2	60	<0.1	18.1	8.5	730	1.90	3.2	<0.5	1.2	70	0.2	<0.1	<0.1	41	0.60	0.035	8
PC11 MP35	Soil		0.5	33.9	5.6	69	0.1	17.9	8.6	187	2.31	2.8	0.8	2.2	74	0.1	0.1	<0.1	58	0.44	0.044	8
PC11 MP36	Soil		0.4	21.9	4.4	49	<0.1	11.5	5.9	133	2.05	1.8	1.9	1.3	52	<0.1	0.1	<0.1	59	0.30	0.030	4
PC11 MP37	Soil		0.4	51.2	3.5	51	0.1	14.4	6.0	301	1.55	2.4	1.7	0.6	264	0.2	0.1	<0.1	39	6.38	0.085	6
PC11 MP38	Soil		0.5	35.5	4.0	50	<0.1	14.1	6.0	533	1.23	2.9	0.7	0.5	229	0.2	<0.1	<0.1	28	5.40	0.102	5
PC11 MP39	Soil		0.7	43.4	5.6	93	0.1	17.4	8.0	1068	2.45	5.9	<0.5	1.5	142	0.2	0.1	<0.1	56	1.20	0.108	6
PC11 MP40	Soil		1.2	15.8	4.3	58	<0.1	9.1	4.9	744	1.58	2.4	0.9	1.4	70	0.1	<0.1	<0.1	39	0.40	0.035	5
PC11 MP41	Soil		0.6	20.3	5.4	73	<0.1	12.2	6.2	637	2.09	2.2	<0.5	1.9	76	<0.1	<0.1	<0.1	54	0.52	0.030	8
PC11 MP42	Soil		0.7	27.8	5.8	74	<0.1	16.3	7.1	878	1.92	2.6	<0.5	1.5	95	0.2	<0.1	<0.1	44	0.83	0.029	8
PC11 MP43	Soil		0.6	34.5	6.2	75	<0.1	22.7	8.5	851	2.66	2.8	<0.5	2.2	83	0.1	<0.1	<0.1	59	0.67	0.032	10
PC11 MP44	Soil		0.6	14.9	4.3	66	<0.1	10.1	6.6	495	2.20	1.4	<0.5	1.7	99	<0.1	<0.1	<0.1	70	0.44	0.022	7
PC11 MP45	Soil		0.4	16.8	5.9	67	<0.1	11.6	6.8	688	2.17	1.9	<0.5	2.1	101	0.1	0.2	0.1	60	0.79	0.033	11

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		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	
PC11 MP14	Soil	34	1.24	84	0.196	5	3.15	0.035	0.20	<0.1	0.02	8.1	<0.1	<0.05	10	<0.5	<0.2
PC11 MP15	Soil	45	1.31	72	0.235	3	2.81	0.035	0.20	<0.1	0.02	9.6	<0.1	<0.05	9	<0.5	<0.2
PC11 MP16	Soil	19	0.78	55	0.165	4	2.28	0.020	0.21	<0.1	0.02	6.1	<0.1	<0.05	7	<0.5	<0.2
PC11 MP17	Soil	45	1.04	80	0.205	4	2.75	0.034	0.17	<0.1	0.03	8.4	<0.1	<0.05	8	<0.5	<0.2
PC11 MP18	Soil	41	1.12	57	0.259	3	2.69	0.029	0.21	<0.1	0.02	8.3	<0.1	<0.05	8	<0.5	<0.2
PC11 MP19	Soil	11	0.86	49	0.274	3	2.50	0.018	0.26	<0.1	0.01	5.3	<0.1	<0.05	10	<0.5	<0.2
PC11 MP20	Soil	39	1.34	117	0.170	6	3.19	0.048	0.15	<0.1	0.03	8.7	<0.1	<0.05	9	<0.5	<0.2
PC11 MP21	Soil	38	1.44	74	0.174	3	3.75	0.028	0.23	<0.1	0.02	11.1	<0.1	<0.05	11	<0.5	<0.2
PC11 MP22	Soil	37	1.32	69	0.238	4	3.12	0.027	0.29	<0.1	0.02	8.6	<0.1	<0.05	10	<0.5	<0.2
PC11 MP23	Soil	37	1.40	60	0.268	8	2.96	0.016	0.34	<0.1	0.02	8.5	<0.1	<0.05	10	<0.5	<0.2
PC11 MP24	Soil	29	1.01	65	0.255	4	3.04	0.027	0.30	<0.1	0.02	7.5	<0.1	<0.05	10	<0.5	<0.2
PC11 MP25	Soil	33	1.38	60	0.213	7	3.17	0.016	0.34	<0.1	0.03	8.4	<0.1	<0.05	11	<0.5	<0.2
PC11 MP26	Soil	24	1.15	48	0.167	1	2.78	0.032	0.15	<0.1	0.03	6.1	<0.1	<0.05	10	<0.5	<0.2
PC11 MP27	Soil	28	1.21	50	0.266	7	3.24	0.016	0.24	<0.1	0.03	7.0	<0.1	<0.05	11	<0.5	<0.2
PC11 MP28	Soil	20	1.14	64	0.259	10	3.27	0.024	0.27	<0.1	0.04	7.5	<0.1	<0.05	12	<0.5	<0.2
PC11 MP29	Soil	26	1.75	53	0.096	7	3.21	0.008	0.24	<0.1	<0.01	8.1	<0.1	<0.05	8	<0.5	<0.2
PC11 MP30	Soil	25	1.48	73	0.239	5	3.13	0.016	0.16	0.1	0.03	6.1	<0.1	<0.05	9	<0.5	<0.2
PC11 MP32	Soil	30	1.19	57	0.128	6	3.43	0.034	0.24	<0.1	0.08	5.7	<0.1	0.23	8	<0.5	<0.2
PC11 MP34	Soil	24	0.39	148	0.066	4	1.54	0.023	0.16	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PC11 MP35	Soil	30	0.44	149	0.104	2	1.69	0.021	0.18	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP36	Soil	22	0.33	140	0.112	2	1.39	0.018	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP37	Soil	22	0.57	102	0.049	12	1.05	0.028	0.08	<0.1	0.03	1.9	<0.1	0.14	3	1.0	<0.2
PC11 MP38	Soil	18	0.45	105	0.043	15	0.93	0.023	0.17	<0.1	0.03	1.6	<0.1	0.13	3	<0.5	<0.2
PC11 MP39	Soil	23	0.39	168	0.085	8	1.82	0.022	0.24	<0.1	0.03	4.2	<0.1	0.08	6	<0.5	<0.2
PC11 MP40	Soil	17	0.23	126	0.083	2	1.07	0.016	0.17	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 MP41	Soil	22	0.26	129	0.104	3	1.34	0.022	0.23	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP42	Soil	27	0.28	183	0.079	3	1.32	0.024	0.17	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 MP43	Soil	40	0.39	140	0.092	5	1.85	0.031	0.27	<0.1	0.03	6.3	<0.1	<0.05	6	<0.5	<0.2
PC11 MP44	Soil	23	0.31	124	0.146	3	1.27	0.023	0.21	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP45	Soil	19	0.35	103	0.134	5	1.68	0.021	0.21	<0.1	0.03	4.2	<0.1	<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 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %	1DX15 La ppm
PC11 MP46	Soil			0.5	19.1	6.4	72	<0.1	15.2	9.0	719	2.84	1.4	<0.5	2.0	148	0.1	0.1	0.2	90	0.79	0.028	12
PC11 MP47	Soil			0.4	17.6	5.7	63	<0.1	9.0	11.0	1370	2.87	1.3	<0.5	1.8	252	0.2	0.3	<0.1	81	0.92	0.015	12
PC11 MP48	Soil			0.4	15.7	5.4	82	<0.1	8.1	10.3	824	3.16	0.8	<0.5	1.7	127	<0.1	0.2	<0.1	104	0.71	0.016	9
PC11 MP49	Soil			0.3	18.6	6.1	73	<0.1	6.2	15.9	833	3.67	0.9	<0.5	2.1	462	0.2	0.3	<0.1	93	1.61	0.020	10
PC11 MP50	Soil			0.6	14.6	4.6	56	<0.1	9.4	6.4	717	1.73	2.0	0.6	1.3	69	<0.1	<0.1	<0.1	51	0.50	0.016	6
PCS-04	Soil Pulp			16.8	66.1	17.9	18	0.1	17.6	2.7	106	3.80	443.7	236.4	0.8	26	0.3	22.4	0.1	8	1.01	0.005	2
PC11 MP61	Soil			0.4	17.9	4.6	61	<0.1	10.3	5.9	562	2.07	0.8	0.9	1.3	65	0.2	0.1	0.2	64	0.40	0.017	8
PC11 MP62	Soil			0.5	17.4	5.2	96	<0.1	11.0	5.7	633	2.25	1.3	2.4	1.3	95	0.2	0.2	0.2	69	0.54	0.021	7
PC11 MP63	Soil			0.4	12.8	4.8	56	<0.1	10.9	5.6	344	2.16	1.0	<0.5	1.5	102	0.1	0.2	0.2	68	0.46	0.018	8
PC11 MP64	Soil			0.5	13.2	5.0	57	<0.1	10.8	5.5	448	1.99	0.9	0.8	1.7	85	0.2	0.2	0.2	58	0.40	0.018	9
PC11 MP65	Soil			0.6	58.2	6.2	55	<0.1	18.0	11.3	653	3.21	1.9	<0.5	2.3	123	0.2	0.2	0.2	81	0.81	0.061	12
PC11 MP66	Soil			0.5	19.8	4.4	55	<0.1	14.3	6.9	401	2.21	1.1	1.5	1.6	84	0.1	0.2	0.2	66	0.52	0.018	9
PC11 MP67	Soil			0.5	21.4	4.5	45	<0.1	19.1	8.0	357	2.35	1.9	<0.5	1.7	92	0.1	0.2	0.2	74	0.44	0.022	9
PC11 MP68	Soil			0.3	23.9	3.9	38	<0.1	14.0	7.4	410	2.21	1.6	<0.5	1.1	183	0.1	0.1	0.1	54	2.86	0.035	9
PC11 MP69	Soil			0.3	16.7	4.5	71	<0.1	15.2	7.1	538	2.31	1.2	<0.5	1.6	85	0.2	0.1	0.1	63	0.54	0.022	8
PC11 MP70	Soil			0.5	16.3	4.4	35	<0.1	10.5	6.3	415	2.11	1.2	<0.5	1.5	73	0.1	0.1	0.1	62	0.47	0.016	8
PC11 MP71	Soil			0.8	14.1	4.1	51	<0.1	8.6	5.9	608	1.71	1.2	0.5	1.3	65	0.2	0.1	0.1	54	0.37	0.012	6
PC11 MP72	Soil			0.9	21.0	4.3	42	<0.1	8.9	7.6	275	1.92	0.9	<0.5	1.6	62	<0.1	0.1	0.1	57	0.35	0.013	6
PC11 MP73	Soil			0.4	42.5	4.9	49	<0.1	17.1	9.0	427	2.89	2.0	<0.5	1.9	131	<0.1	0.2	0.1	86	0.65	0.038	10
PC11 MP74	Soil			0.4	29.2	4.9	52	<0.1	13.4	8.1	434	2.87	1.9	<0.5	1.7	131	0.1	0.2	0.1	77	0.63	0.030	10
PC11 MP75	Soil			0.5	19.3	6.8	89	<0.1	12.8	9.1	779	2.67	2.2	<0.5	1.6	146	0.1	0.2	0.2	82	0.61	0.032	11
PC11 MP76	Soil			0.4	16.8	5.3	68	<0.1	11.6	8.0	570	2.51	2.1	3.5	1.6	147	0.1	0.2	0.1	73	0.57	0.023	10
PC11 MP77	Soil			0.6	43.0	6.2	68	<0.1	19.3	10.6	531	3.22	2.9	0.8	1.8	94	0.2	0.2	0.1	77	0.76	0.065	13
PC11 MP78	Soil			0.5	16.6	4.1	46	<0.1	14.2	7.8	469	2.24	1.3	<0.5	1.4	74	0.1	0.2	<0.1	77	0.41	0.013	9
PC11 MP79	Soil			0.4	31.9	4.6	51	<0.1	18.1	8.9	472	2.75	1.5	<0.5	1.5	108	<0.1	0.2	<0.1	84	0.58	0.034	10
PC11 MP80	Soil			0.4	16.0	4.0	58	<0.1	14.4	7.2	538	2.23	0.7	2.4	1.3	75	0.1	0.1	<0.1	72	0.43	0.012	8
PC11 MP81	Soil			0.4	17.4	4.8	56	<0.1	15.1	7.1	415	2.27	1.4	<0.5	1.6	72	<0.1	0.2	<0.1	69	0.46	0.016	10
PC11 MP82	Soil			0.5	19.5	5.8	63	<0.1	18.4	8.2	585	2.39	0.7	<0.5	1.6	72	<0.1	0.2	<0.1	67	0.46	0.019	10
PC11 MP83	Soil			0.4	17.0	4.5	53	<0.1	12.8	6.6	475	2.07	0.6	0.7	1.4	66	0.1	0.1	<0.1	59	0.41	0.017	10
PC11 MP84	Soil			0.4	21.0	5.5	78	<0.1	19.2	8.0	544	2.51	1.4	<0.5	1.6	72	0.2	0.2	<0.1	67	0.50	0.017	9

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	1DX15															
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
PC11 MP46	Soil	25	0.47	112	0.236	3	1.95	0.037	0.21	<0.1	0.03	6.5	0.1	<0.05	7	<0.5	<0.2
PC11 MP47	Soil	13	0.42	145	0.236	3	2.06	0.040	0.20	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2
PC11 MP48	Soil	12	0.43	121	0.276	3	1.77	0.024	0.28	<0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
PC11 MP49	Soil	7	0.67	163	0.253	3	3.06	0.050	0.23	<0.1	0.01	8.2	<0.1	<0.05	8	<0.5	<0.2
PC11 MP50	Soil	15	0.26	140	0.105	3	0.98	0.021	0.18	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
PCS-04	Soil Pulp	23	0.03	678	0.010	2	0.17	0.007	0.06	2.2	2.83	0.6	11.0	0.17	<1	2.3	<0.2
PC11 MP61	Soil	21	0.29	89	0.160	4	1.20	0.037	0.23	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 MP62	Soil	23	0.30	98	0.182	4	1.32	0.030	0.25	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 MP63	Soil	23	0.30	80	0.218	3	1.34	0.039	0.22	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP64	Soil	21	0.29	100	0.155	3	1.18	0.029	0.21	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP65	Soil	23	0.58	95	0.124	4	2.12	0.028	0.27	<0.1	0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 MP66	Soil	28	0.40	103	0.156	3	1.33	0.029	0.23	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP67	Soil	34	0.37	80	0.156	2	1.31	0.032	0.17	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 MP68	Soil	23	1.10	89	0.134	19	1.49	0.168	0.28	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP69	Soil	28	0.38	128	0.159	5	1.42	0.027	0.30	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 MP70	Soil	21	0.33	88	0.142	3	1.28	0.028	0.18	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP71	Soil	17	0.25	116	0.133	2	0.96	0.029	0.15	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 MP72	Soil	18	0.34	93	0.140	3	1.18	0.036	0.14	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 MP73	Soil	25	0.48	77	0.162	5	1.71	0.037	0.20	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 MP74	Soil	24	0.50	90	0.146	3	1.80	0.029	0.20	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 MP75	Soil	21	0.43	140	0.207	3	1.61	0.032	0.20	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP76	Soil	21	0.39	120	0.181	4	1.49	0.030	0.22	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 MP77	Soil	31	0.67	92	0.114	9	2.06	0.026	0.39	<0.1	0.03	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 MP78	Soil	28	0.33	88	0.161	2	1.12	0.028	0.16	<0.1	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
PC11 MP79	Soil	32	0.46	70	0.179	2	1.46	0.033	0.20	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 MP80	Soil	31	0.32	89	0.168	2	1.09	0.032	0.19	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP81	Soil	33	0.36	81	0.179	2	1.30	0.033	0.18	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP82	Soil	32	0.40	101	0.166	2	1.43	0.032	0.22	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP83	Soil	27	0.34	67	0.140	4	1.16	0.030	0.20	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 MP84	Soil	33	0.43	98	0.158	4	1.41	0.029	0.21	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
PC11 MP85	Soil			0.4	16.9	5.1	79	<0.1	15.5	7.2	609	2.37	0.9	<0.5	1.3	100	<0.1	<0.1	<0.1	78	0.49	0.015	10
PC11 MP86	Soil			0.4	15.9	5.4	69	<0.1	15.7	7.4	537	2.34	1.1	1.1	1.6	74	<0.1	0.2	<0.1	62	0.49	0.013	10
PC11 MP87	Soil			0.4	41.9	4.0	55	<0.1	17.1	9.3	555	2.76	1.2	0.7	1.8	79	<0.1	0.2	<0.1	80	0.63	0.020	11
PC11 MP88	Soil			0.4	16.4	4.9	56	<0.1	14.6	6.9	461	2.08	0.8	1.2	1.4	71	<0.1	<0.1	<0.1	63	0.41	0.011	9
PC11 MP89	Soil			0.4	23.2	4.8	46	<0.1	17.4	7.5	340	2.44	1.1	11.3	1.5	89	<0.1	0.1	<0.1	75	0.44	0.013	10
PC11 MP90	Soil			0.3	19.2	5.2	52	<0.1	15.4	7.6	443	2.20	1.2	<0.5	1.5	96	<0.1	0.1	<0.1	66	0.49	0.015	10
PC11 MP91	Soil			0.4	19.6	5.6	66	<0.1	14.9	8.4	663	2.39	1.2	<0.5	1.4	102	<0.1	0.1	<0.1	80	0.52	0.020	11
PC11 MP92	Soil			0.3	21.3	4.2	49	<0.1	15.4	7.4	439	2.44	0.7	<0.5	1.4	110	<0.1	0.1	<0.1	78	0.48	0.013	10
PC11 MP93	Soil			0.4	14.6	5.4	59	<0.1	15.2	7.0	513	2.02	0.8	<0.5	1.5	99	<0.1	0.1	<0.1	58	0.50	0.012	10
PC11 MP94	Soil			0.4	18.3	6.7	69	<0.1	14.6	8.0	779	2.12	1.1	2.0	1.3	108	<0.1	<0.1	<0.1	65	0.56	0.018	12
PC11 MP95	Soil			0.4	15.6	5.9	66	<0.1	13.2	6.0	465	2.10	1.3	<0.5	1.5	128	<0.1	<0.1	<0.1	58	0.53	0.021	11
PC11 MP96	Soil			0.4	19.1	5.2	62	<0.1	16.7	7.4	515	2.30	0.9	1.2	1.5	133	<0.1	<0.1	<0.1	75	0.49	0.013	11
PC11 MP97	Soil			0.4	13.4	4.1	62	<0.1	13.7	5.8	467	2.17	1.1	1.4	1.1	97	0.1	0.1	<0.1	67	0.44	0.017	8
PC11 MP98	Soil			0.5	63.1	5.2	52	0.1	25.6	10.2	328	3.30	2.4	2.2	2.2	139	<0.1	0.1	<0.1	80	0.86	0.052	14
PC11 MP99	Soil			0.4	14.5	4.0	53	<0.1	14.2	6.8	338	2.07	1.4	<0.5	1.3	83	<0.1	0.1	<0.1	71	0.41	0.010	8
PC11 MP100	Soil			0.4	22.7	4.8	68	<0.1	20.9	9.5	473	2.52	1.1	<0.5	1.3	105	0.1	<0.1	<0.1	80	0.49	0.010	10
PCS-01	Soil Pulp			132.6	3738	23.7	61	2.4	38.3	20.7	405	4.20	48.1	511.3	1.9	27	0.3	3.1	0.4	123	0.35	0.085	9
PC11 MP101	Soil			0.5	19.6	5.7	73	<0.1	20.4	9.7	605	2.47	1.9	<0.5	1.3	78	0.2	0.1	<0.1	85	0.47	0.011	9
PC11 MP102	Soil			0.4	21.1	4.8	56	<0.1	16.6	8.5	556	2.16	1.6	<0.5	1.5	69	0.1	0.2	<0.1	66	0.46	0.016	10
PC11 MP103	Soil			0.4	16.5	4.9	88	<0.1	16.5	8.0	603	2.10	2.4	<0.5	1.3	73	0.1	0.1	<0.1	56	0.51	0.022	9
PC11 MP104	Soil			0.7	12.2	10.3	45	<0.1	10.6	5.3	468	1.53	1.5	<0.5	1.5	52	0.1	0.1	0.1	45	0.43	0.015	13
PC11 MP105	Soil			0.4	25.0	4.3	57	<0.1	13.1	7.8	489	2.23	1.9	<0.5	1.7	72	<0.1	<0.1	<0.1	58	0.45	0.026	8



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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005742.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5		
PC11 MP85	Soil			33	0.34	101	0.188	2	1.27	0.036	0.19	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP86	Soil			30	0.36	95	0.166	2	1.43	0.031	0.18	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP87	Soil			25	0.42	89	0.153	3	1.34	0.031	0.18	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP88	Soil			27	0.31	92	0.152	2	1.19	0.029	0.18	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 MP89	Soil			33	0.36	78	0.166	2	1.39	0.034	0.16	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP90	Soil			29	0.35	89	0.164	3	1.40	0.030	0.22	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP91	Soil			30	0.36	89	0.158	2	1.29	0.028	0.17	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP92	Soil			29	0.35	82	0.189	2	1.29	0.038	0.20	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP93	Soil			26	0.35	103	0.162	2	1.44	0.033	0.19	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP94	Soil			25	0.38	94	0.166	2	1.51	0.036	0.17	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 MP95	Soil			25	0.37	91	0.147	3	1.39	0.032	0.23	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP96	Soil			33	0.41	102	0.184	2	1.44	0.043	0.20	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP97	Soil			27	0.29	101	0.144	3	1.27	0.029	0.18	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP98	Soil			28	0.77	83	0.105	4	2.13	0.041	0.10	<0.1	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
PC11 MP99	Soil			29	0.33	85	0.139	3	1.08	0.026	0.19	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 MP100	Soil			34	0.47	103	0.160	3	1.44	0.037	0.19	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PCS-01	Soil Pulp			51	0.95	39	0.115	3	1.32	0.045	0.88	3.8	0.05	9.4	0.5	2.06	5	4.6	0.7
PC11 MP101	Soil			35	0.46	95	0.155	2	1.26	0.027	0.18	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP102	Soil			25	0.37	72	0.137	4	1.23	0.030	0.18	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP103	Soil			31	0.41	85	0.119	5	1.26	0.023	0.22	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP104	Soil			19	0.27	67	0.100	3	1.11	0.024	0.19	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 MP105	Soil			21	0.39	90	0.112	8	1.50	0.026	0.31	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2



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Project: Princeton
Report Date: November 27, 2011

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QUALITY CONTROL REPORT

VAN11005742.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																				
PC11 JT016	Soil	0.4	14.8	4.1	47	<0.1	13.8	6.1	234	2.28	1.5	<0.5	1.4	66	<0.1	<0.1	<0.1	69	0.38	0.018
REP PC11 JT016	QC	0.3	15.2	3.7	47	<0.1	13.0	5.8	233	2.18	1.2	<0.5	1.4	65	<0.1	<0.1	<0.1	68	0.37	0.018
PC11 JT033	Soil	0.7	19.7	5.1	54	<0.1	10.6	7.3	465	2.22	1.7	<0.5	1.4	69	0.1	0.1	<0.1	72	0.50	0.023
REP PC11 JT033	QC	0.7	20.0	4.9	54	<0.1	10.2	7.5	469	2.18	1.8	<0.5	1.4	69	0.1	<0.1	<0.1	72	0.53	0.023
PC11 JT037	Soil	0.5	18.3	4.0	57	<0.1	13.1	6.4	286	2.20	0.9	0.6	1.1	104	0.1	<0.1	<0.1	65	0.53	0.027
REP PC11 JT037	QC	0.4	18.1	3.9	55	<0.1	12.5	6.7	282	2.20	0.9	<0.5	1.1	105	<0.1	<0.1	<0.1	68	0.53	0.026
PC11 JT070	Soil	0.4	13.4	5.7	66	<0.1	14.6	6.5	491	2.15	0.8	<0.5	1.5	92	<0.1	0.1	<0.1	60	0.43	0.014
REP PC11 JT070	QC	0.4	13.6	5.9	69	<0.1	16.0	6.7	505	2.20	1.0	<0.5	1.6	93	0.2	0.1	<0.1	61	0.44	0.015
PC11 JT089	Soil	0.3	15.2	4.4	63	<0.1	10.9	5.4	309	1.99	0.7	2.3	1.4	88	<0.1	<0.1	<0.1	64	0.43	0.019
REP PC11 JT089	QC	0.4	15.0	4.3	60	<0.1	10.7	5.4	305	1.93	1.0	0.7	1.4	84	<0.1	<0.1	<0.1	62	0.43	0.019
PC11 JT106	Soil	0.4	40.1	5.7	55	<0.1	25.4	10.8	440	3.10	1.3	0.6	1.7	101	0.1	0.1	<0.1	89	0.82	0.023
REP PC11 JT106	QC	0.3	43.8	6.1	56	<0.1	25.0	11.3	455	3.14	1.0	<0.5	1.7	105	0.2	0.1	<0.1	91	0.84	0.023
PC11 JT112	Soil	0.5	14.5	4.9	67	<0.1	12.5	6.8	423	2.18	0.7	1.6	1.5	97	0.1	0.1	<0.1	75	0.43	0.014
REP PC11 JT112	QC	0.4	14.9	4.9	67	<0.1	12.9	6.7	437	2.26	0.8	0.6	1.5	98	<0.1	0.1	<0.1	77	0.44	0.015
PC11 AP32	Soil	0.4	16.7	4.0	58	<0.1	10.2	6.5	359	2.30	1.0	<0.5	1.2	51	<0.1	0.1	<0.1	64	0.42	0.019
REP PC11 AP32	QC	0.3	16.0	4.0	54	<0.1	9.9	6.2	332	2.15	0.9	<0.5	1.2	50	0.1	0.1	<0.1	61	0.40	0.019
PC11 AP45	Soil	0.5	35.2	7.1	80	<0.1	13.3	10.7	605	3.39	6.2	2.3	1.3	117	0.2	0.2	<0.1	77	0.94	0.046
REP PC11 AP45	QC	0.6	37.7	6.8	83	<0.1	13.2	11.0	624	3.46	7.0	0.6	1.3	124	0.2	0.3	0.1	80	1.01	0.048
PC11 MP08	Soil	0.4	24.9	4.5	56	<0.1	11.8	9.2	525	2.90	2.1	<0.5	1.1	80	0.1	0.2	0.1	97	0.58	0.016
REP PC11 MP08	QC	0.4	25.5	4.4	58	<0.1	12.3	9.3	523	2.93	2.2	1.3	1.1	82	0.1	0.2	<0.1	96	0.58	0.016
PC11 MP19	Soil	0.4	22.6	9.3	85	<0.1	6.5	9.8	999	3.45	2.2	<0.5	1.1	96	0.1	0.2	0.2	61	1.67	0.116
REP PC11 MP19	QC	0.4	25.0	9.2	84	<0.1	7.8	9.8	942	3.42	2.5	0.6	1.1	94	0.1	0.2	0.1	63	1.57	0.105
PC11 MP29	Soil	0.8	82.3	2.5	77	<0.1	18.8	21.8	830	3.99	2.6	3.2	0.8	92	0.1	0.2	<0.1	116	1.43	0.049
REP PC11 MP29	QC	0.7	83.9	2.5	76	<0.1	18.2	21.8	816	4.00	2.6	1.5	0.9	94	0.1	0.1	<0.1	119	1.44	0.047
PC11 MP45	Soil	0.4	16.8	5.9	67	<0.1	11.6	6.8	688	2.17	1.9	<0.5	2.1	101	0.1	0.2	0.1	60	0.79	0.033
REP PC11 MP45	QC	0.4	17.0	6.1	65	<0.1	11.3	6.7	684	2.12	1.9	<0.5	2.0	102	<0.1	0.1	<0.1	57	0.79	0.035
PC11 MP70	Soil	0.5	16.3	4.4	35	<0.1	10.5	6.3	415	2.11	1.2	<0.5	1.5	73	0.1	0.1	0.1	62	0.47	0.016
REP PC11 MP70	QC	0.6	16.4	4.4	36	<0.1	10.2	6.5	430	2.09	1.2	<0.5	1.6	73	0.1	0.1	0.1	59	0.47	0.017

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Project: Princeton
Report Date: November 27, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005742.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	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																	
PC11 JT016	Soil	28	0.26	76	0.157	2	1.25	0.024	0.16	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT016	QC	27	0.26	75	0.150	2	1.23	0.024	0.16	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT033	Soil	23	0.33	116	0.153	3	1.30	0.031	0.13	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT033	QC	24	0.33	107	0.153	2	1.28	0.027	0.13	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT037	Soil	26	0.35	96	0.182	2	1.43	0.023	0.17	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT037	QC	26	0.35	95	0.187	2	1.41	0.021	0.16	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT070	Soil	31	0.30	100	0.166	3	1.34	0.027	0.18	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT070	QC	32	0.30	102	0.170	2	1.37	0.034	0.18	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT089	Soil	22	0.27	89	0.182	3	1.31	0.026	0.21	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT089	QC	21	0.26	89	0.176	3	1.33	0.025	0.20	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 JT106	Soil	41	0.67	72	0.169	2	2.61	0.047	0.17	<0.1	0.02	7.2	<0.1	<0.05	8	<0.5	<0.2
REP PC11 JT106	QC	41	0.69	75	0.180	2	2.55	0.038	0.17	<0.1	0.01	6.9	<0.1	<0.05	8	<0.5	<0.2
PC11 JT112	Soil	24	0.32	94	0.196	3	1.37	0.023	0.15	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
REP PC11 JT112	QC	24	0.33	93	0.203	3	1.43	0.025	0.16	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP32	Soil	23	0.27	74	0.125	4	1.12	0.023	0.17	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP32	QC	22	0.26	78	0.122	4	1.07	0.020	0.16	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP45	Soil	22	0.69	74	0.272	7	2.45	0.017	0.36	<0.1	0.02	6.7	<0.1	<0.05	9	<0.5	<0.2
REP PC11 AP45	QC	22	0.70	73	0.343	9	2.57	0.016	0.38	0.1	0.03	7.2	<0.1	<0.05	9	<0.5	<0.2
PC11 MP08	Soil	27	0.51	63	0.195	2	1.47	0.029	0.22	<0.1	0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP08	QC	26	0.54	66	0.198	2	1.56	0.028	0.22	<0.1	0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP19	Soil	11	0.86	49	0.274	3	2.50	0.018	0.26	<0.1	0.01	5.3	<0.1	<0.05	10	<0.5	<0.2
REP PC11 MP19	QC	13	0.83	50	0.256	3	2.43	0.016	0.28	<0.1	0.02	5.2	<0.1	<0.05	9	<0.5	<0.2
PC11 MP29	Soil	26	1.75	53	0.096	7	3.21	0.008	0.24	<0.1	<0.01	8.1	<0.1	<0.05	8	<0.5	<0.2
REP PC11 MP29	QC	27	1.70	55	0.097	6	3.21	0.009	0.24	<0.1	0.01	8.3	<0.1	<0.05	8	<0.5	<0.2
PC11 MP45	Soil	19	0.35	103	0.134	5	1.68	0.021	0.21	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP45	QC	20	0.34	99	0.133	6	1.66	0.021	0.21	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP70	Soil	21	0.33	88	0.142	3	1.28	0.028	0.18	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
REP PC11 MP70	QC	21	0.34	89	0.148	4	1.28	0.030	0.18	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton

Report Date: November 27, 2011

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QUALITY CONTROL REPORT

VAN11005742.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 MP87	Soil	0.4	41.9	4.0	55	<0.1	17.1	9.3	555	2.76	1.2	0.7	1.8	79	<0.1	0.2	<0.1	80	0.63	0.020	11
REP PC11 MP87	QC	0.5	42.3	4.1	53	<0.1	16.4	9.2	523	2.70	1.0	0.6	1.7	76	<0.1	0.2	<0.1	76	0.64	0.022	10
PC11 MP98	Soil	0.5	63.1	5.2	52	0.1	25.6	10.2	328	3.30	2.4	2.2	2.2	139	<0.1	0.1	<0.1	80	0.86	0.052	14
REP PC11 MP98	QC	0.6	62.4	5.7	52	<0.1	24.8	10.5	355	3.29	2.6	<0.5	2.3	145	<0.1	0.1	0.1	80	0.90	0.055	14
Reference Materials																					
STD DS8	Standard	14.4	117.6	128.0	318	1.9	40.5	7.8	623	2.50	24.6	111.1	7.1	73	2.2	5.8	6.7	44	0.69	0.075	14
STD DS8	Standard	13.7	117.4	127.2	327	1.8	39.3	7.8	622	2.54	26.2	115.5	6.9	74	2.5	5.7	6.9	44	0.69	0.085	14
STD DS8	Standard	13.3	109.4	130.2	309	1.7	36.4	7.4	629	2.54	23.6	123.3	7.5	77	2.3	5.9	7.3	43	0.72	0.077	15
STD DS8	Standard	12.7	112.7	129.6	312	2.0	38.9	7.8	598	2.48	24.8	112.8	7.6	63	2.3	4.8	6.1	42	0.70	0.076	14
STD DS8	Standard	13.8	111.9	127.5	303	1.7	39.3	7.5	603	2.37	24.5	116.7	7.5	65	2.2	5.1	5.8	42	0.68	0.073	15
STD DS8	Standard	13.0	109.4	128.2	315	1.9	37.9	7.6	629	2.53	25.1	109.3	6.9	71	2.3	5.6	6.7	44	0.70	0.078	15
STD DS8	Standard	13.1	109.3	123.7	306	1.8	38.5	7.5	592	2.43	23.5	108.7	7.0	65	2.2	5.5	6.6	38	0.68	0.076	16
STD DS8	Standard	13.1	101.8	123.1	296	1.8	35.7	7.0	590	2.35	24.2	102.6	6.8	67	2.3	5.4	6.5	41	0.68	0.077	15
STD DS8	Standard	13.4	111.3	119.6	298	1.7	36.9	7.4	578	2.34	23.9	105.8	6.9	69	2.4	5.5	6.8	42	0.69	0.072	16
STD DS8	Standard	12.8	104.2	120.8	281	1.7	35.8	7.2	562	2.28	23.4	103.9	7.0	68	2.5	5.6	6.0	40	0.64	0.070	15
STD DS8	Standard	13.3	105.8	127.1	305	1.9	35.9	7.3	598	2.47	26.4	109.0	6.8	69	2.3	5.7	6.7	41	0.64	0.076	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Client: **Mammoth Geological Ltd.**
 2446 Bidston Road
 Mill Bay BC V0R 2P4 Canada

Project: Princeton
 Report Date: November 27, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005742.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 MP87	Soil	25	0.42	89	0.153	3	1.34	0.031	0.18	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP87	QC	24	0.43	89	0.147	4	1.39	0.034	0.18	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP98	Soil	28	0.77	83	0.105	4	2.13	0.041	0.10	<0.1	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
REP PC11 MP98	QC	27	0.82	81	0.125	4	2.35	0.045	0.11	<0.1	0.02	5.4	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	122	0.67	269	0.117	3	0.95	0.118	0.42	3.1	0.20	2.1	5.6	0.13	5	5.1	4.8
STD DS8	Standard	123	0.62	283	0.120	2	0.99	0.096	0.47	3.0	0.22	2.8	5.6	0.17	5	5.0	5.0
STD DS8	Standard	120	0.63	286	0.131	3	0.96	0.110	0.42	3.0	0.21	2.7	5.4	0.15	5	4.9	4.6
STD DS8	Standard	120	0.61	268	0.114	2	0.92	0.089	0.40	2.9	0.20	2.3	5.6	0.16	5	4.4	5.0
STD DS8	Standard	120	0.62	268	0.123	1	0.95	0.107	0.39	3.1	0.21	2.6	5.3	0.13	4	6.1	5.0
STD DS8	Standard	122	0.61	283	0.126	2	0.92	0.099	0.42	2.8	0.21	2.6	5.5	0.14	5	4.4	5.3
STD DS8	Standard	114	0.61	287	0.111	2	0.90	0.099	0.41	3.1	0.20	2.3	5.4	0.14	5	4.9	4.8
STD DS8	Standard	109	0.59	275	0.113	3	0.91	0.093	0.40	2.9	0.19	2.3	5.3	0.12	5	4.8	4.6
STD DS8	Standard	118	0.58	275	0.122	2	0.97	0.108	0.45	2.7	0.19	3.2	5.2	0.15	5	4.9	4.9
STD DS8	Standard	109	0.55	275	0.114	2	0.90	0.110	0.41	2.7	0.18	2.6	4.9	0.12	5	4.1	4.4
STD DS8	Standard	111	0.62	276	0.108	3	0.92	0.089	0.41	3.0	0.18	2.2	5.4	0.14	5	6.2	4.8
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 26, 2011
Report Date: November 09, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11005754.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 214

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	214	Dry at 60C			VAN
SS80	211	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	214	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: Princeton
 Report Date: November 09, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11005754.1

Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 KT01	Soil	0.6	21.9	3.7	56	<0.1	9.1	6.2	674	1.99	1.9	1.8	0.8	118	0.2	<0.1	0.1	59	0.95	0.071	6
PC11 KT02	Soil	1.0	32.5	5.5	65	<0.1	10.3	7.7	570	2.15	2.1	1.2	0.9	62	0.1	<0.1	0.1	67	0.53	0.057	4
PC11 KT03	Soil	1.0	15.5	5.0	59	<0.1	8.1	6.1	526	1.92	1.5	1.4	0.9	50	0.1	0.1	0.1	56	0.34	0.031	4
PC11 KT04	Soil	0.9	24.6	5.1	75	0.1	10.8	7.0	699	2.04	2.4	<0.5	1.2	69	0.2	<0.1	<0.1	58	0.53	0.049	6
PC11 KT05	Soil	0.9	18.7	5.0	93	0.1	10.2	5.8	1014	1.73	1.8	0.6	0.7	70	0.2	<0.1	<0.1	50	0.63	0.045	5
PC11 KT06	Soil	0.7	17.8	3.8	87	<0.1	10.5	6.3	766	1.99	1.7	<0.5	1.0	59	0.2	<0.1	<0.1	57	0.40	0.037	5
PC11 KT07	Soil	0.8	27.5	5.1	70	<0.1	12.7	8.1	650	2.54	2.6	<0.5	1.3	90	0.2	0.1	0.1	72	0.67	0.050	8
PC11 KT08	Soil	0.7	12.7	4.5	92	<0.1	10.6	5.9	762	2.10	1.3	1.0	1.1	57	<0.1	<0.1	0.1	56	0.42	0.048	4
PC11 KT09	Soil	0.4	27.1	5.4	93	<0.1	16.7	8.4	409	2.83	1.7	0.6	1.5	72	0.1	<0.1	<0.1	68	0.63	0.062	7
PC11 KT10	Soil	0.5	17.2	3.8	55	<0.1	10.9	6.4	294	2.31	2.0	1.2	1.2	78	<0.1	<0.1	<0.1	66	0.45	0.030	5
PC11 KT11	Soil	0.5	20.5	4.5	86	<0.1	13.5	5.9	491	2.55	2.2	0.6	1.5	110	<0.1	<0.1	<0.1	67	0.52	0.046	8
PC11 KT12	Soil	0.5	24.2	5.8	56	<0.1	11.4	8.1	503	2.52	2.3	1.0	1.4	261	<0.1	0.1	<0.1	76	0.64	0.036	12
PC11 KT13	Soil	0.3	37.3	3.9	44	<0.1	15.0	7.1	295	3.01	2.5	0.9	1.7	114	<0.1	0.1	<0.1	79	0.58	0.038	9
PC11 KT14	Soil	0.4	14.0	3.7	52	<0.1	11.2	5.6	399	1.99	1.5	<0.5	1.3	102	<0.1	<0.1	<0.1	61	0.42	0.018	8
PC11 KT15	Soil	0.5	15.6	3.9	72	<0.1	10.4	5.8	601	2.07	0.9	<0.5	1.4	63	0.1	<0.1	<0.1	56	0.40	0.017	8
PC11 MP106	Soil	0.5	26.8	4.0	52	<0.1	13.1	8.1	579	2.48	1.0	<0.5	1.6	85	<0.1	0.1	<0.1	80	0.50	0.021	9
PC11 MP107	Soil	0.4	25.3	4.7	60	<0.1	14.5	7.9	430	2.90	1.3	0.6	1.7	110	<0.1	0.2	<0.1	80	0.68	0.024	12
PC11 MP108	Soil	0.5	26.3	5.0	50	<0.1	10.8	8.3	540	2.64	1.9	0.6	1.5	120	<0.1	<0.1	<0.1	83	0.63	0.024	12
PC11 MP109	Soil	0.5	31.5	3.6	46	<0.1	11.1	7.4	519	2.36	0.8	<0.5	1.6	80	<0.1	0.1	<0.1	76	0.52	0.017	9
PC11 MP110	Soil	0.4	27.2	4.2	47	<0.1	12.6	8.2	523	2.50	1.4	2.1	1.3	103	<0.1	<0.1	<0.1	89	0.52	0.023	9
PC11 MP111	Soil	0.5	39.7	3.3	47	<0.1	11.3	7.8	647	2.18	0.8	1.9	1.7	62	0.1	0.1	<0.1	74	0.48	0.013	8
PC11 MP112	Soil	0.3	13.3	4.0	58	<0.1	10.9	5.6	470	2.10	1.0	0.8	1.3	90	0.1	<0.1	<0.1	71	0.42	0.013	8
PC11 MP113	Soil	0.4	15.0	3.9	63	<0.1	14.8	6.2	355	2.17	1.0	12.8	1.3	85	<0.1	<0.1	<0.1	61	0.53	0.020	9
PC11 MP114	Soil	0.4	15.6	4.5	64	<0.1	12.2	7.0	657	2.06	0.9	<0.5	1.2	72	<0.1	<0.1	<0.1	67	0.39	0.012	9
PC11 MP115	Soil	0.5	17.3	3.7	62	<0.1	14.9	6.1	380	2.14	1.0	0.8	1.3	98	0.1	0.1	<0.1	63	0.49	0.036	8
PC11 MP116	Soil	0.5	16.3	4.2	61	<0.1	15.5	8.0	536	2.28	1.1	<0.5	1.7	87	0.1	0.1	<0.1	72	0.47	0.020	9
PC11 MP117	Soil	0.4	17.3	5.0	66	<0.1	14.4	6.8	477	2.31	1.1	<0.5	1.4	173	<0.1	0.1	<0.1	72	0.60	0.021	10
PC11 MP118	Soil	0.7	21.0	4.4	59	<0.1	22.0	9.7	738	2.44	1.3	0.9	1.5	110	0.2	0.1	<0.1	77	0.52	0.016	10
PC11 MP119	Soil	0.5	18.6	4.8	70	<0.1	18.6	9.2	774	2.42	1.3	0.6	1.3	142	<0.1	0.1	<0.1	77	0.56	0.018	9
PC11 MP120	Soil	0.4	13.2	3.9	61	<0.1	13.5	6.3	484	2.06	0.9	<0.5	1.2	59	<0.1	<0.1	<0.1	65	0.38	0.011	7

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Project: Princeton
Report Date: November 09, 2011

Page: 2 of 9 **Part** 2

CERTIFICATE OF ANALYSIS

VAN11005754.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	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		
PC11 KT01	Soil	15	0.30	115	0.092	8	1.12	0.030	0.23	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT02	Soil	18	0.33	107	0.094	4	1.21	0.020	0.21	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT03	Soil	18	0.26	106	0.104	3	1.15	0.024	0.15	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT04	Soil	19	0.29	146	0.100	3	1.37	0.024	0.21	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 KT05	Soil	16	0.25	178	0.088	4	1.10	0.022	0.19	<0.1	0.04	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT06	Soil	18	0.26	134	0.100	3	1.23	0.022	0.23	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT07	Soil	22	0.40	114	0.110	3	1.56	0.029	0.16	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 KT08	Soil	19	0.28	124	0.105	4	1.62	0.021	0.11	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PC11 KT09	Soil	24	0.47	127	0.156	5	2.68	0.025	0.11	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
PC11 KT10	Soil	23	0.32	110	0.146	3	1.39	0.028	0.17	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT11	Soil	24	0.30	131	0.111	7	1.68	0.022	0.32	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 KT12	Soil	20	0.36	130	0.130	2	1.61	0.024	0.20	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 KT13	Soil	27	0.34	88	0.131	3	1.77	0.036	0.20	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 KT14	Soil	20	0.23	114	0.130	3	1.10	0.025	0.24	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT15	Soil	20	0.24	105	0.121	2	1.28	0.019	0.18	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP106	Soil	23	0.31	102	0.131	4	1.25	0.023	0.24	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP107	Soil	25	0.37	89	0.168	3	1.94	0.029	0.20	<0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
PC11 MP108	Soil	22	0.30	83	0.136	2	1.44	0.025	0.14	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP109	Soil	22	0.27	96	0.132	3	1.13	0.020	0.22	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP110	Soil	21	0.30	71	0.152	2	1.24	0.025	0.15	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP111	Soil	20	0.24	112	0.117	2	1.00	0.017	0.20	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP112	Soil	21	0.24	73	0.159	3	1.13	0.030	0.20	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP113	Soil	28	0.28	87	0.160	2	1.28	0.020	0.21	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 MP114	Soil	22	0.25	85	0.142	1	1.09	0.022	0.18	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP115	Soil	26	0.29	97	0.153	4	1.26	0.022	0.24	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP116	Soil	28	0.28	112	0.158	3	1.27	0.023	0.21	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP117	Soil	27	0.31	118	0.205	2	1.63	0.024	0.21	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP118	Soil	31	0.34	118	0.176	2	1.40	0.026	0.19	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP119	Soil	29	0.31	123	0.185	2	1.45	0.022	0.18	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP120	Soil	25	0.23	106	0.152	1	1.10	0.024	0.15	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: November 09, 2011

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CERTIFICATE OF ANALYSIS

VAN11005754.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 MP121	Soil		0.4	13.0	4.5	63	<0.1	11.5	6.0	537	1.93	0.8	<0.5	1.3	75	0.1	<0.1	<0.1	59	0.43	0.013	8
PC11 MP122	Soil		0.4	15.6	3.7	59	<0.1	12.9	7.1	494	2.20	0.9	0.7	1.0	77	<0.1	0.1	<0.1	76	0.40	0.013	8
PC11 MP123	Soil		0.5	29.0	4.2	50	<0.1	15.6	8.6	489	2.63	1.4	0.7	1.4	90	<0.1	0.1	<0.1	73	0.51	0.027	9
PC11 MP124	Soil		0.6	22.9	4.5	56	<0.1	14.3	8.6	556	2.34	1.0	0.6	1.2	104	<0.1	0.1	<0.1	73	0.54	0.018	10
PC11 MP125	Soil		0.4	13.8	4.8	76	<0.1	14.2	7.6	604	2.10	1.4	<0.5	1.3	60	0.1	0.1	<0.1	55	0.42	0.013	9
PC11 MP126	Soil		0.5	13.7	5.3	85	<0.1	11.9	8.4	884	2.17	0.6	<0.5	1.2	103	0.2	<0.1	<0.1	83	0.40	0.013	12
PC11 MP127	Soil		0.5	18.6	5.0	56	<0.1	17.1	8.3	529	2.43	0.9	<0.5	1.5	90	<0.1	0.1	0.1	69	0.48	0.014	12
PC11 MP128	Soil		0.3	17.7	6.1	77	<0.1	14.5	6.6	414	2.33	1.4	1.1	1.6	104	<0.1	0.3	0.1	61	0.59	0.021	12
PC11 MP129	Soil		0.4	15.1	4.5	62	<0.1	14.3	7.5	604	2.12	0.7	<0.5	1.2	109	<0.1	<0.1	<0.1	70	0.52	0.010	10
PC11 MP130	Soil		0.5	23.0	5.5	74	<0.1	19.4	8.8	669	2.32	3.1	<0.5	1.5	53	0.2	0.2	<0.1	62	0.44	0.020	10
PC11 MP131	Soil		0.4	18.7	5.8	55	<0.1	17.1	8.0	548	2.35	1.0	6.6	1.6	82	0.1	0.2	<0.1	67	0.50	0.013	11
PC11 MP132	Soil		0.4	15.3	5.6	48	<0.1	13.5	6.4	407	2.13	0.8	0.6	1.5	76	<0.1	0.1	<0.1	61	0.45	0.012	11
PC11 MP133	Soil		0.4	14.1	5.4	74	<0.1	13.4	5.9	492	2.12	1.3	0.8	1.5	82	0.1	0.1	<0.1	55	0.52	0.032	10
PC11 MP134	Soil		0.4	14.9	5.1	79	<0.1	13.2	6.0	598	1.98	0.9	<0.5	1.4	73	<0.1	0.1	<0.1	52	0.45	0.012	9
PC11 MP135	Soil		0.4	16.3	5.6	57	<0.1	14.5	7.2	495	2.25	1.5	<0.5	1.6	88	0.1	0.1	<0.1	63	0.52	0.022	11
PC11 MP181	Soil		0.6	33.3	4.6	60	<0.1	22.0	11.0	583	2.92	3.2	1.4	1.2	64	0.1	0.3	<0.1	83	0.68	0.027	8
PC11 MP182	Soil		0.6	37.5	4.7	72	<0.1	27.5	11.9	584	3.11	2.5	1.0	1.5	57	0.2	0.2	<0.1	81	0.65	0.033	10
PC11 MP183	Soil		0.8	46.8	5.3	63	<0.1	27.4	12.7	612	3.18	6.3	1.0	1.3	81	0.2	0.3	<0.1	84	0.94	0.046	8
PC11 RP90	Soil		0.8	11.0	5.7	102	<0.1	8.9	4.0	529	1.66	1.4	0.8	1.2	37	<0.1	0.1	0.2	38	0.36	0.030	4
PC11 RP91	Soil		0.5	9.4	4.3	93	<0.1	9.2	4.3	429	1.55	1.3	0.8	0.7	34	<0.1	<0.1	0.1	37	0.26	0.042	3
PC11 RP92	Soil		0.5	12.4	4.5	58	<0.1	10.8	5.1	221	2.00	1.4	<0.5	1.0	37	<0.1	0.1	0.1	50	0.35	0.026	4
PC11 RP93	Soil		0.5	11.4	4.9	63	<0.1	9.8	5.5	345	1.99	1.2	0.6	1.0	56	<0.1	0.1	0.1	55	0.45	0.020	4
PC11 RP94	Soil		0.5	9.0	4.4	66	<0.1	9.4	4.0	288	1.66	0.8	<0.5	0.9	44	<0.1	<0.1	<0.1	40	0.41	0.024	4
PC11 RP95	Soil		0.3	10.5	4.1	45	<0.1	9.7	5.3	233	2.11	1.0	1.2	0.9	78	<0.1	<0.1	<0.1	63	0.40	0.021	4
PC11 RP96	Soil		0.5	24.3	3.8	46	<0.1	15.9	8.4	280	2.80	2.1	<0.5	1.2	69	<0.1	0.1	<0.1	87	0.43	0.048	6
PC11 RP97	Soil		0.5	20.5	5.3	61	<0.1	14.3	7.4	636	2.31	1.5	<0.5	1.1	80	0.2	<0.1	0.1	58	0.60	0.039	5
PC11 RP98	Soil		0.5	14.9	4.6	86	<0.1	13.4	5.4	543	1.90	1.8	<0.5	1.3	46	0.2	<0.1	<0.1	39	0.50	0.065	4
PC11 RP99	Soil		0.3	17.7	4.3	67	0.1	9.1	5.7	418	2.62	1.1	<0.5	1.3	96	<0.1	<0.1	<0.1	73	0.73	0.057	6
PC11 RP100	Soil		0.3	20.1	4.3	73	<0.1	11.7	6.7	418	2.83	1.2	<0.5	1.7	69	<0.1	0.1	<0.1	64	0.66	0.027	9
PCS-10	Soil Pulp		17.2	66.2	18.0	18	0.2	17.6	2.6	113	3.92	470.2	224.3	0.8	30	0.4	27.9	0.2	10	1.03	0.005	2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Princeton
 Report Date: November 09, 2011

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CERTIFICATE OF ANALYSIS

VAN11005754.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PC11 MP121	Soil			21	0.24	102	0.147	3	1.12	0.022	0.19	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 MP122	Soil			24	0.25	88	0.151	1	1.01	0.026	0.16	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP123	Soil			26	0.38	78	0.156	8	1.42	0.029	0.35	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 MP124	Soil			23	0.34	94	0.153	3	1.27	0.025	0.23	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP125	Soil			26	0.28	117	0.130	4	1.30	0.022	0.23	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP126	Soil			22	0.28	135	0.166	3	1.03	0.027	0.21	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP127	Soil			31	0.43	98	0.170	6	1.41	0.035	0.22	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 MP128	Soil			28	0.32	92	0.162	3	1.53	0.029	0.21	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 MP129	Soil			26	0.31	138	0.163	2	1.18	0.032	0.19	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP130	Soil			31	0.36	96	0.126	3	1.12	0.020	0.23	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP131	Soil			33	0.32	95	0.165	3	1.34	0.026	0.24	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP132	Soil			28	0.28	92	0.162	3	1.29	0.029	0.17	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP133	Soil			26	0.29	105	0.139	7	1.27	0.023	0.28	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP134	Soil			25	0.26	109	0.128	3	1.21	0.022	0.22	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP135	Soil			27	0.31	98	0.153	4	1.40	0.022	0.21	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 MP181	Soil			35	0.63	77	0.145	3	1.66	0.029	0.19	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 MP182	Soil			40	0.60	100	0.134	3	1.70	0.033	0.24	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP183	Soil			35	0.85	93	0.159	4	2.12	0.028	0.22	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 RP90	Soil			14	0.22	123	0.110	2	1.41	0.024	0.10	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP91	Soil			15	0.24	102	0.088	2	1.45	0.020	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 RP92	Soil			20	0.25	81	0.110	2	1.52	0.025	0.11	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP93	Soil			21	0.27	110	0.134	1	1.65	0.024	0.04	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PC11 RP94	Soil			17	0.24	79	0.114	3	1.52	0.023	0.06	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP95	Soil			21	0.28	88	0.167	1	1.62	0.018	0.08	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PC11 RP96	Soil			25	0.40	78	0.174	1	2.28	0.024	0.07	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP97	Soil			18	0.37	137	0.164	2	2.95	0.022	0.09	<0.1	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2
PC11 RP98	Soil			18	0.29	105	0.118	5	2.39	0.021	0.09	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP99	Soil			21	0.33	82	0.230	7	2.09	0.020	0.21	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP100	Soil			21	0.37	76	0.188	3	2.39	0.027	0.11	<0.1	<0.01	5.9	<0.1	<0.05	7	<0.5	<0.2
PCS-10	Soil Pulp			24	0.02	1574	0.010	1	0.17	0.007	0.06	2.8	3.12	0.7	11.5	0.13	<1	2.0	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 RP101	Soil	0.3	24.6	5.8	65	<0.1	12.8	7.7	477	3.38	1.6	<0.5	2.4	102	0.1	0.1	<0.1	76	0.81	0.033	16
PC11 RP102	Soil	0.5	19.4	4.2	48	<0.1	12.5	8.5	277	2.77	1.9	1.1	1.4	76	<0.1	0.1	<0.1	75	0.58	0.026	8
PC11 RP103	Soil	0.7	21.9	5.4	80	<0.1	11.9	9.3	900	2.86	2.7	0.8	1.5	134	0.1	0.1	<0.1	77	0.83	0.024	12
PC11 RP104	Soil	0.3	17.2	6.0	73	<0.1	8.7	8.2	831	2.83	1.3	<0.5	1.8	134	0.1	0.1	<0.1	98	0.81	0.029	11
PC11 RP105	Soil	0.4	18.0	7.1	76	<0.1	9.4	10.2	1086	3.32	1.6	<0.5	1.6	228	0.1	0.1	<0.1	112	1.01	0.040	11
PC11 RP106	Soil	0.3	6.4	3.9	33	<0.1	6.0	3.0	108	1.33	1.0	<0.5	0.7	29	<0.1	<0.1	<0.1	25	0.55	0.036	3
PC11 RP107	Soil	0.5	17.7	5.0	87	<0.1	10.4	9.5	609	3.50	1.3	1.3	1.6	256	<0.1	<0.1	<0.1	111	0.76	0.055	9
PC11 RP108	Soil	0.5	12.4	3.9	66	<0.1	10.5	5.4	373	2.02	1.0	<0.5	1.1	53	<0.1	0.1	<0.1	49	0.33	0.026	5
PC11 RP109	Soil	0.5	15.7	4.8	67	<0.1	13.4	8.0	645	2.61	1.8	<0.5	1.6	240	0.1	0.1	<0.1	65	0.70	0.032	7
PC11 RP110	Soil	0.5	16.1	6.1	72	<0.1	14.4	6.9	396	2.56	1.9	<0.5	1.7	62	<0.1	0.1	0.1	60	0.55	0.037	7
PC11 RP111	Soil	0.5	16.1	4.8	76	<0.1	11.3	5.8	687	2.06	1.7	<0.5	1.3	66	<0.1	0.1	<0.1	55	0.63	0.033	7
PC11 RP112	Soil	0.5	17.1	3.6	49	<0.1	12.6	6.8	336	2.21	1.2	<0.5	1.1	48	0.1	0.1	<0.1	63	0.41	0.022	5
PC11 RP113	Soil	0.6	19.3	3.7	72	<0.1	10.6	6.8	680	2.08	1.1	1.7	1.1	75	0.2	0.1	0.1	51	0.59	0.039	6
PC11 RP114	Soil	0.6	16.7	3.5	44	<0.1	12.0	7.6	319	2.34	1.2	0.7	1.0	53	<0.1	0.1	<0.1	63	0.50	0.028	4
PC11 RP115	Soil	0.5	17.4	3.8	54	<0.1	14.0	7.7	327	2.37	1.5	0.9	1.2	41	0.1	0.2	0.1	60	0.40	0.027	6
PC11 RP116	Soil	0.6	20.7	3.3	42	<0.1	15.4	8.2	344	2.41	1.2	1.3	1.2	40	<0.1	0.2	<0.1	61	0.40	0.027	6
PC11 RP117	Soil	0.6	18.3	4.1	60	<0.1	16.8	7.9	418	2.31	2.3	1.0	1.2	47	<0.1	0.1	<0.1	54	0.49	0.055	6
PC11 RP118	Soil	0.7	13.3	4.3	66	<0.1	12.7	6.8	1084	1.90	1.7	<0.5	0.9	56	0.1	0.1	<0.1	41	0.52	0.032	4
PC11 RP119	Soil	0.5	16.5	4.8	76	<0.1	14.3	7.3	855	2.52	1.7	1.0	1.4	79	0.1	0.1	<0.1	52	0.64	0.038	8
PC11 RP120	Soil	0.6	17.0	4.9	72	<0.1	17.6	8.1	577	2.54	2.2	<0.5	1.4	56	<0.1	0.2	<0.1	53	0.49	0.035	7
PC11 RP121	Soil	0.7	18.0	5.6	72	<0.1	17.3	8.5	547	2.75	2.6	<0.5	1.6	62	0.1	0.2	<0.1	59	0.60	0.031	8
PC11 RP122	Soil	0.6	17.3	5.6	85	<0.1	19.4	8.6	667	2.67	2.2	<0.5	1.3	70	0.1	0.2	0.1	60	0.58	0.028	9
PC11 RP123	Soil	0.6	17.0	6.2	90	<0.1	16.0	7.1	831	2.39	2.0	0.9	1.5	71	0.2	0.1	<0.1	51	0.70	0.045	10
PC11 RP124	Soil	0.8	17.9	5.6	66	<0.1	17.4	8.5	411	2.58	1.9	<0.5	1.5	62	<0.1	0.2	<0.1	61	0.53	0.021	8
PC11 RP125	Soil	0.7	28.0	7.1	71	<0.1	21.9	11.3	863	3.11	2.0	<0.5	1.6	110	0.2	0.1	<0.1	68	0.96	0.040	13
PC11 RP126	Soil	0.5	22.0	5.2	70	<0.1	17.6	8.9	638	2.87	1.1	11.0	1.5	90	0.1	0.2	<0.1	69	0.66	0.022	14
PC11 RP127	Soil	1.1	34.9	6.3	60	<0.1	16.5	8.3	442	3.49	3.5	1.7	1.4	148	<0.1	0.2	<0.1	80	1.22	0.055	14
PC11 RP128	Soil	0.7	18.3	6.7	58	<0.1	14.4	7.7	708	2.30	1.2	<0.5	2.5	55	0.1	0.1	<0.1	46	0.79	0.018	20
PC11 RP129	Soil	0.5	23.7	5.9	60	<0.1	15.3	9.8	689	2.79	1.3	1.8	1.6	83	0.1	0.1	<0.1	64	0.75	0.020	14
PC11 RP130	Soil	0.6	23.7	5.1	79	<0.1	12.5	9.6	489	3.34	1.8	0.9	1.4	193	0.2	0.1	<0.1	72	1.16	0.057	12

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Project: Princeton
Report Date: November 09, 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
		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	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	
PC11 RP101	Soil	21	0.46	108	0.224	4	3.14	0.032	0.16	<0.1	0.03	7.2	<0.1	<0.05	10	<0.5	<0.2
PC11 RP102	Soil	27	0.38	85	0.163	3	1.99	0.033	0.10	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 RP103	Soil	22	0.50	116	0.189	2	2.39	0.040	0.22	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP104	Soil	24	0.40	104	0.295	2	2.01	0.026	0.21	<0.1	0.02	5.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP105	Soil	29	0.63	169	0.287	2	2.73	0.042	0.13	<0.1	0.03	6.4	<0.1	<0.05	9	<0.5	<0.2
PC11 RP106	Soil	11	0.20	39	0.092	6	1.49	0.025	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP107	Soil	29	0.55	135	0.253	4	2.56	0.074	0.18	<0.1	0.02	6.4	<0.1	<0.05	9	<0.5	<0.2
PC11 RP108	Soil	20	0.24	80	0.122	2	1.47	0.021	0.10	<0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP109	Soil	25	0.49	122	0.195	2	2.45	0.023	0.13	<0.1	0.02	5.8	<0.1	<0.05	7	<0.5	<0.2
PC11 RP110	Soil	26	0.39	83	0.138	4	2.14	0.024	0.11	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
PC11 RP111	Soil	21	0.28	113	0.115	6	1.32	0.018	0.17	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP112	Soil	22	0.28	81	0.126	2	1.24	0.019	0.08	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 RP113	Soil	19	0.29	111	0.131	4	1.46	0.020	0.12	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP114	Soil	24	0.27	83	0.125	4	1.33	0.030	0.09	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP115	Soil	26	0.30	94	0.116	3	1.30	0.029	0.12	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 RP116	Soil	24	0.30	101	0.108	3	1.23	0.028	0.09	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP117	Soil	23	0.37	138	0.112	4	1.86	0.020	0.10	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
PC11 RP118	Soil	20	0.30	143	0.095	3	1.55	0.024	0.05	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP119	Soil	21	0.42	135	0.133	4	2.31	0.021	0.09	<0.1	0.02	5.1	<0.1	<0.05	8	<0.5	<0.2
PC11 RP120	Soil	26	0.40	117	0.121	4	2.07	0.021	0.12	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 RP121	Soil	28	0.44	131	0.148	4	2.37	0.021	0.15	<0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
PC11 RP122	Soil	28	0.46	132	0.157	3	2.15	0.023	0.11	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
PC11 RP123	Soil	25	0.37	146	0.123	7	1.95	0.018	0.21	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP124	Soil	30	0.43	144	0.142	2	2.13	0.022	0.07	<0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP125	Soil	32	0.51	111	0.138	3	2.54	0.022	0.13	<0.1	0.03	6.0	<0.1	<0.05	9	<0.5	<0.2
PC11 RP126	Soil	28	0.48	83	0.167	5	2.09	0.025	0.20	<0.1	0.02	5.4	<0.1	<0.05	8	<0.5	<0.2
PC11 RP127	Soil	24	0.67	86	0.176	5	3.22	0.032	0.13	<0.1	0.04	8.6	<0.1	<0.05	11	<0.5	<0.2
PC11 RP128	Soil	20	0.34	86	0.057	3	1.93	0.019	0.10	<0.1	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2
PC11 RP129	Soil	23	0.49	87	0.107	3	2.19	0.025	0.11	<0.1	0.01	5.2	<0.1	<0.05	8	<0.5	<0.2
PC11 RP130	Soil	18	0.62	89	0.146	6	3.20	0.045	0.14	<0.1	0.03	7.4	<0.1	<0.05	11	<0.5	<0.2



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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 RP131	Soil	0.8	32.8	4.4	63	<0.1	25.4	13.4	638	4.12	6.1	0.5	2.2	171	<0.1	<0.1	<0.1	84	0.67	0.056	22
PC11 RP132	Soil	0.6	20.1	5.2	57	<0.1	19.6	10.1	792	2.59	1.8	<0.5	1.4	74	0.1	0.1	<0.1	60	0.67	0.024	8
PC11 RP133	Soil	0.4	26.2	5.4	83	<0.1	22.4	12.3	991	3.43	2.3	<0.5	1.7	96	0.2	0.2	<0.1	77	0.93	0.032	11
PC11 RP134	Soil	0.6	26.5	6.6	66	<0.1	24.6	13.1	618	3.25	2.5	0.8	1.7	101	0.2	0.2	<0.1	77	0.85	0.032	12
PC11 RP135	Soil	0.4	33.2	5.7	71	<0.1	25.6	16.3	849	3.87	2.3	<0.5	1.7	233	0.2	0.1	<0.1	100	1.30	0.045	11
PC11 RP136	Soil	0.5	58.8	4.3	41	<0.1	39.5	14.7	338	3.38	1.8	0.8	1.9	78	0.1	0.2	<0.1	81	0.68	0.030	10
PC11 RP137	Soil	0.4	31.1	5.5	49	<0.1	24.9	12.2	607	3.11	1.8	<0.5	1.6	78	0.1	0.2	<0.1	75	0.69	0.022	9
PC11 RP138	Soil	0.4	39.0	5.3	53	<0.1	31.1	13.2	481	3.20	1.9	<0.5	1.8	76	<0.1	0.2	<0.1	75	0.71	0.028	12
PC11 RP139	Soil	0.4	36.4	6.1	76	<0.1	43.5	15.2	669	3.80	1.0	<0.5	2.2	90	0.2	0.1	<0.1	78	1.01	0.036	15
PC11 RP140	Soil	0.4	56.4	7.1	46	<0.1	36.9	17.1	579	3.46	2.4	3.0	1.3	371	0.1	0.2	<0.1	86	2.61	0.087	13
PC11 RP141	Soil	0.5	84.7	4.1	48	<0.1	32.4	14.7	457	3.57	1.7	2.1	2.0	46	<0.1	0.2	<0.1	90	0.70	0.074	10
PC11 RP142	Soil	0.4	22.4	3.5	37	<0.1	16.3	8.6	319	2.33	0.7	<0.5	1.4	35	<0.1	0.1	<0.1	62	0.39	0.014	8
PC11 RP143	Soil	0.6	69.3	4.7	53	<0.1	29.7	16.0	630	3.29	1.7	1.7	2.1	48	<0.1	0.2	<0.1	86	0.53	0.028	14
PC11 RP144	Soil	0.6	58.9	5.6	55	<0.1	21.6	13.8	683	3.17	4.4	1.6	1.4	68	0.1	0.2	<0.1	81	0.79	0.045	9
PC11 RP145	Soil	0.4	52.4	3.6	40	0.2	19.2	10.6	386	2.68	2.7	5.1	1.7	109	0.1	0.3	<0.1	78	2.93	0.125	9
PC11 RP146	Soil	0.4	51.3	6.3	59	0.1	18.7	12.2	593	3.57	4.2	7.2	1.8	108	<0.1	0.2	<0.1	83	0.94	0.036	13
PC11 RP147	Soil	0.4	76.3	5.1	46	<0.1	24.2	13.3	338	3.27	2.5	3.4	2.0	75	0.1	0.2	<0.1	76	0.77	0.044	11
PC11 RP148	Soil	0.6	79.0	6.5	56	0.2	32.6	16.6	634	3.58	5.0	6.4	1.8	88	0.1	0.3	<0.1	96	1.67	0.123	12
PC11 RP149	Soil	0.5	88.2	5.0	63	<0.1	40.5	17.2	561	3.59	2.4	6.9	2.2	69	0.1	0.2	0.1	77	0.82	0.080	12
PC11 RP150	Soil	0.4	19.9	3.2	53	<0.1	17.8	8.6	530	2.16	<0.5	0.8	1.1	35	<0.1	0.1	<0.1	62	0.38	0.009	7
PCS-014	Soil Pulp	16.0	63.2	17.5	17	0.2	16.2	2.5	106	3.69	438.9	219.4	0.7	27	0.4	24.9	0.2	10	1.01	0.005	2
PC11 RP151	Soil	0.5	26.5	3.8	38	<0.1	19.8	11.1	369	2.33	0.7	<0.5	1.4	38	<0.1	0.1	<0.1	71	0.42	0.018	9
PC11 RP152	Soil	0.8	14.9	3.3	54	<0.1	12.3	7.1	513	1.98	1.0	0.8	0.9	36	<0.1	<0.1	<0.1	57	0.42	0.033	5
PC11 RP153	Soil	0.5	17.4	3.4	58	<0.1	14.9	7.7	365	2.19	0.8	1.3	1.1	38	<0.1	0.1	<0.1	60	0.41	0.036	6
PC11 RP154	Soil	0.4	13.4	2.9	67	<0.1	11.6	6.4	432	1.94	0.8	<0.5	1.0	31	<0.1	0.1	<0.1	59	0.31	0.018	4
PC11 RP155	Soil	0.5	17.1	3.6	68	<0.1	15.8	7.4	542	2.10	0.8	0.8	1.2	45	0.1	0.1	<0.1	60	0.49	0.032	6
PC11 RP156	Soil	0.6	87.9	6.3	59	<0.1	28.5	14.8	578	3.40	1.9	1.8	2.4	52	0.1	0.3	<0.1	90	0.71	0.031	11
PC11 RP157	Soil	0.5	32.4	3.9	54	<0.1	20.6	10.8	635	2.47	1.0	<0.5	1.5	42	<0.1	0.2	<0.1	67	0.48	0.021	9
PC11 RP158	Soil	0.5	27.0	4.2	46	<0.1	20.3	10.3	582	2.44	0.7	<0.5	1.6	45	<0.1	0.1	<0.1	73	0.50	0.017	10
PC11 RP159	Soil	0.4	13.8	2.9	32	<0.1	9.7	6.0	197	1.84	0.5	<0.5	0.6	32	<0.1	<0.1	<0.1	54	0.29	0.015	3

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		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
MDL		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	
PC11 RP131	Soil	16	0.52	53	0.018	5	1.87	0.026	0.21	<0.1	<0.01	11.1	<0.1	<0.05	8	<0.5	<0.2
PC11 RP132	Soil	29	0.50	128	0.135	3	2.23	0.026	0.08	<0.1	0.02	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 RP133	Soil	32	0.69	146	0.203	4	3.14	0.027	0.10	<0.1	0.02	7.4	<0.1	<0.05	10	<0.5	<0.2
PC11 RP134	Soil	38	0.69	128	0.174	4	2.96	0.032	0.10	<0.1	0.03	6.8	<0.1	<0.05	9	<0.5	<0.2
PC11 RP135	Soil	34	1.07	93	0.257	4	3.32	0.042	0.17	<0.1	0.02	9.7	<0.1	<0.05	11	<0.5	<0.2
PC11 RP136	Soil	37	0.84	83	0.132	3	2.09	0.037	0.08	<0.1	0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 RP137	Soil	38	0.55	109	0.153	3	2.29	0.031	0.11	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP138	Soil	41	0.66	116	0.151	3	2.59	0.029	0.11	<0.1	0.02	6.4	<0.1	<0.05	8	<0.5	<0.2
PC11 RP139	Soil	56	1.04	80	0.166	7	2.95	0.042	0.19	<0.1	0.02	6.2	<0.1	<0.05	11	<0.5	<0.2
PC11 RP140	Soil	47	1.43	56	0.163	6	3.30	0.064	0.10	<0.1	0.07	5.5	<0.1	<0.05	9	<0.5	<0.2
PC11 RP141	Soil	31	0.63	116	0.100	2	1.83	0.031	0.16	<0.1	0.03	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 RP142	Soil	26	0.26	78	0.101	3	1.07	0.034	0.17	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP143	Soil	30	0.51	115	0.107	4	1.67	0.043	0.25	<0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP144	Soil	30	0.79	102	0.078	5	1.97	0.027	0.21	<0.1	0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
PC11 RP145	Soil	25	0.65	77	0.122	4	1.45	0.031	0.07	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP146	Soil	30	0.75	78	0.195	3	3.33	0.033	0.22	<0.1	0.02	7.1	<0.1	<0.05	11	<0.5	<0.2
PC11 RP147	Soil	30	0.74	104	0.069	2	2.20	0.019	0.14	<0.1	0.01	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP148	Soil	36	1.14	113	0.065	4	2.36	0.025	0.12	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP149	Soil	35	0.78	133	0.099	11	2.36	0.025	0.43	<0.1	0.03	6.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP150	Soil	29	0.31	96	0.117	3	1.00	0.023	0.18	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PCS-014	Soil Pulp	22	0.02	765	0.010	2	0.17	0.007	0.06	2.6	2.88	0.6	10.8	0.13	<1	1.0	<0.2
PC11 RP151	Soil	32	0.36	73	0.139	3	1.19	0.027	0.17	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 RP152	Soil	27	0.29	100	0.104	5	1.00	0.022	0.18	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 RP153	Soil	29	0.30	105	0.124	4	1.20	0.021	0.20	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP154	Soil	25	0.25	78	0.120	2	0.92	0.020	0.15	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 RP155	Soil	28	0.30	113	0.125	5	1.09	0.023	0.23	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP156	Soil	36	0.60	128	0.135	3	2.01	0.022	0.28	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP157	Soil	31	0.37	118	0.126	3	1.27	0.021	0.24	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 RP158	Soil	32	0.37	102	0.146	3	1.30	0.030	0.22	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 RP159	Soil	23	0.28	70	0.127	2	0.95	0.025	0.10	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 RP160	Soil	0.5	18.9	3.7	47	<0.1	14.9	7.7	392	2.23	0.7	0.6	1.0	37	<0.1	0.1	<0.1	61	0.39	0.018	5
PC11 RP161	Soil	0.5	25.8	4.2	43	<0.1	19.5	9.6	520	2.52	1.2	0.8	1.2	47	0.1	0.1	<0.1	71	0.45	0.019	7
PC11 RP162	Soil	0.6	22.5	4.5	53	<0.1	16.4	8.4	479	2.30	1.3	1.6	1.3	45	<0.1	0.1	<0.1	65	0.51	0.022	8
PC11 RP163	Soil	0.5	19.7	4.2	44	<0.1	14.5	8.1	294	2.20	1.2	<0.5	1.4	44	<0.1	0.1	<0.1	66	0.46	0.014	6
PC11 RP164	Soil	0.6	30.0	4.5	51	<0.1	21.1	11.5	421	2.55	1.6	<0.5	1.5	48	<0.1	0.2	<0.1	71	0.56	0.030	10
PC11 RP165	Soil	0.5	16.5	3.6	40	<0.1	11.5	6.5	257	1.97	1.2	0.8	1.0	40	<0.1	0.2	<0.1	66	0.39	0.015	5
PC11 RP166	Soil	0.4	19.8	3.9	39	<0.1	12.8	6.9	235	2.20	0.9	0.8	1.2	44	<0.1	0.2	<0.1	70	0.46	0.013	6
PC11 RP167	Soil	0.6	14.9	3.9	65	<0.1	11.5	6.4	555	1.77	1.3	<0.5	1.0	42	<0.1	0.1	<0.1	53	0.45	0.028	5
PC11 RP168	Soil	0.4	18.7	4.3	51	<0.1	13.6	6.9	294	2.18	1.1	<0.5	1.3	46	<0.1	0.1	<0.1	63	0.46	0.032	7
PC11 RP169	Soil	0.5	27.0	4.3	52	<0.1	17.0	9.3	588	2.15	0.7	<0.5	1.5	43	0.1	0.1	<0.1	56	0.46	0.017	9
PC11 RP170	Soil	0.3	25.1	4.1	58	<0.1	17.6	7.8	360	2.38	0.6	<0.5	1.7	39	<0.1	0.1	<0.1	59	0.42	0.013	8
PC11 RP171	Soil	0.6	19.1	3.8	48	<0.1	13.5	7.9	282	2.25	1.0	<0.5	1.1	39	<0.1	0.1	<0.1	67	0.40	0.024	5
PC11 RP172	Soil	0.7	24.0	6.0	75	<0.1	14.0	9.9	857	3.19	2.2	<0.5	1.6	104	0.1	0.2	<0.1	79	0.83	0.036	12
PC11 RP173	Soil	0.8	18.6	6.6	69	<0.1	13.9	7.4	698	2.56	1.3	<0.5	2.1	56	0.1	0.2	<0.1	64	0.60	0.024	12
PC11 RP174	Soil	0.7	19.1	4.9	59	<0.1	13.0	7.2	551	2.34	1.0	<0.5	1.7	44	<0.1	0.2	<0.1	62	0.43	0.019	10
PC11 RP175	Soil	0.9	19.6	3.9	63	<0.1	12.7	7.0	598	2.27	1.1	<0.5	1.1	43	<0.1	0.1	<0.1	61	0.39	0.034	6
PC11 RP176	Soil	0.5	67.0	4.0	46	<0.1	23.2	11.6	414	3.05	1.1	0.6	2.0	55	0.1	0.2	<0.1	78	0.65	0.030	11
PC11 RP177	Soil	0.5	67.8	4.7	46	<0.1	22.7	12.0	377	3.30	1.5	<0.5	2.0	52	<0.1	0.2	<0.1	86	0.62	0.036	13
PC11 RP178	Soil	0.4	34.4	4.9	53	<0.1	20.7	10.2	293	3.27	1.2	<0.5	1.8	66	<0.1	0.2	<0.1	77	0.69	0.030	10
PC11 RP179	Soil	0.4	39.0	2.5	27	<0.1	22.9	8.3	240	2.92	0.7	1.0	1.3	38	<0.1	0.1	<0.1	84	0.45	0.031	8
PC11 RP180	Soil	0.4	27.4	3.4	48	<0.1	20.7	9.3	399	3.12	1.2	<0.5	1.5	51	<0.1	0.1	<0.1	84	0.51	0.037	8
PC11 JT121	Soil	0.4	38.2	5.1	69	<0.1	24.1	10.4	601	3.58	2.7	<0.5	1.8	140	0.2	0.1	<0.1	93	0.79	0.033	13
PC11 JT122	Soil	0.4	22.7	4.7	52	<0.1	17.5	8.3	475	2.66	1.6	0.9	1.8	90	<0.1	0.1	<0.1	78	0.52	0.017	11
PC11 JT123	Soil	0.4	42.3	5.6	76	0.1	23.8	11.1	463	3.83	2.3	<0.5	2.3	76	<0.1	0.1	<0.1	97	0.78	0.030	16
PC11 JT124	Soil	0.6	28.5	6.2	81	<0.1	21.1	11.9	1057	3.32	1.8	<0.5	1.8	72	<0.1	0.1	<0.1	98	0.55	0.025	13
PC11 JT125	Soil	0.5	28.5	5.2	78	<0.1	21.7	10.7	647	3.46	1.3	0.5	1.8	95	<0.1	0.1	<0.1	96	0.68	0.026	13
PC11 JT126	Soil	0.5	30.2	6.2	96	<0.1	23.9	9.9	578	3.22	2.7	<0.5	1.8	102	0.1	0.2	<0.1	74	0.84	0.044	12
PC11 JT127	Soil	0.6	23.5	4.8	133	<0.1	23.0	8.6	985	2.64	2.2	<0.5	1.3	63	0.1	0.1	<0.1	60	0.54	0.034	9
PC11 JT128	Soil	0.5	25.5	5.2	84	<0.1	26.3	10.1	420	2.99	1.6	<0.5	1.8	71	<0.1	0.1	<0.1	74	0.59	0.027	13
PC11 JT129	Soil	0.4	26.7	5.0	65	<0.1	31.1	10.7	493	2.98	1.0	0.8	1.6	71	<0.1	0.1	<0.1	80	0.64	0.028	13

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Project: Princeton
 Report Date: November 09, 2011

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CERTIFICATE OF ANALYSIS

VAN11005754.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 RP160	Soil			29	0.31	108	0.131	3	1.19	0.027	0.16	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 RP161	Soil			35	0.46	101	0.133	3	1.30	0.024	0.15	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP162	Soil			28	0.33	101	0.134	4	1.27	0.021	0.17	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 RP163	Soil			31	0.36	95	0.148	3	1.28	0.025	0.11	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 RP164	Soil			35	0.47	97	0.146	3	1.59	0.023	0.18	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP165	Soil			25	0.28	76	0.147	<1	1.00	0.020	0.09	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP166	Soil			28	0.31	86	0.150	1	1.18	0.021	0.11	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 RP167	Soil			23	0.27	121	0.123	2	1.09	0.021	0.17	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 RP168	Soil			31	0.34	89	0.143	5	1.24	0.023	0.23	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 RP169	Soil			28	0.35	115	0.138	2	1.30	0.027	0.16	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 RP170	Soil			32	0.33	90	0.140	3	1.39	0.025	0.22	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP171	Soil			30	0.31	105	0.149	1	1.19	0.026	0.12	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 RP172	Soil			25	0.55	98	0.179	2	2.82	0.040	0.14	<0.1	0.02	7.5	<0.1	<0.05	9	<0.5	<0.2
PC11 RP173	Soil			24	0.37	108	0.157	4	1.99	0.028	0.18	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 RP174	Soil			26	0.32	89	0.120	2	1.40	0.024	0.16	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP175	Soil			25	0.29	106	0.119	3	1.38	0.031	0.13	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 RP176	Soil			32	0.43	120	0.141	3	1.65	0.024	0.25	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 RP177	Soil			33	0.46	108	0.150	3	1.84	0.027	0.20	<0.1	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2
PC11 RP178	Soil			31	0.45	88	0.183	3	2.42	0.044	0.13	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP179	Soil			28	0.33	54	0.112	<1	1.06	0.030	0.06	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 RP180	Soil			35	0.35	89	0.151	6	1.57	0.027	0.23	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT121	Soil			40	0.45	104	0.190	3	2.25	0.027	0.19	<0.1	0.02	7.8	<0.1	<0.05	7	<0.5	<0.2
PC11 JT122	Soil			33	0.35	106	0.183	1	1.60	0.029	0.21	<0.1	0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT123	Soil			41	0.48	79	0.155	3	2.81	0.030	0.15	<0.1	0.02	9.5	<0.1	<0.05	9	<0.5	<0.2
PC11 JT124	Soil			37	0.40	99	0.181	5	1.98	0.021	0.16	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 JT125	Soil			42	0.51	96	0.233	4	2.21	0.028	0.16	<0.1	0.02	7.8	<0.1	<0.05	7	<0.5	<0.2
PC11 JT126	Soil			36	0.55	118	0.185	4	2.41	0.024	0.15	<0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
PC11 JT127	Soil			35	0.42	159	0.145	5	1.79	0.022	0.17	<0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT128	Soil			48	0.53	125	0.172	4	2.32	0.026	0.11	<0.1	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
PC11 JT129	Soil			51	0.57	89	0.187	3	2.10	0.041	0.11	<0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	
PC11 JT130	Soil	0.4	17.6	5.8	84	<0.1	23.0	9.4	967	2.64	0.9	<0.5	1.5	58	<0.1	0.1	<0.1	70	0.52	0.019	11
PC11 JT131	Soil	0.5	43.7	4.1	51	<0.1	17.4	9.9	507	2.73	1.4	0.6	1.8	47	<0.1	0.1	<0.1	71	0.59	0.038	8
PC11 JT132	Soil	0.6	29.2	3.5	81	<0.1	12.3	8.1	351	2.35	1.3	<0.5	1.2	43	<0.1	0.1	<0.1	66	0.53	0.033	4
PC11 JT133	Soil	0.6	43.2	4.1	83	<0.1	16.2	8.7	412	2.52	1.3	0.6	1.7	42	<0.1	0.1	<0.1	63	0.46	0.037	8
PC11 JT134	Soil	0.5	132.6	4.5	52	0.1	32.8	16.2	525	3.66	1.9	1.2	2.6	53	<0.1	0.3	<0.1	90	0.79	0.062	12
PC11 JT135	Soil	0.9	37.2	3.6	47	<0.1	19.0	10.8	527	2.65	0.9	<0.5	1.4	47	<0.1	0.1	<0.1	75	0.54	0.026	9
PC11 JT136	Soil	0.5	50.9	4.0	47	<0.1	21.2	12.0	585	2.92	1.1	0.9	1.7	45	<0.1	0.2	<0.1	81	0.54	0.019	10
PC11 JT137	Soil	0.6	110.9	5.2	53	0.1	29.7	16.2	549	3.63	3.4	2.2	2.6	54	<0.1	0.4	<0.1	97	0.87	0.086	12
PC11 JT138	Soil	0.4	72.2	3.2	35	<0.1	23.8	10.9	301	3.60	1.2	0.8	1.9	41	<0.1	0.2	<0.1	99	0.56	0.027	9
PC11 JT139	Soil	0.5	50.2	3.8	49	<0.1	32.0	15.9	682	3.18	0.5	1.7	1.7	45	<0.1	0.1	<0.1	78	0.53	0.021	12
PC11 JT140	Soil	0.7	50.8	5.6	85	<0.1	37.6	14.7	821	3.78	4.0	2.3	1.6	72	<0.1	0.2	<0.1	77	1.10	0.061	14
PC11 JT141	Soil	0.5	108.5	3.7	42	0.2	21.6	12.0	447	3.21	1.9	2.9	1.9	70	<0.1	0.2	<0.1	81	1.77	0.093	10
PC11 JT142	Soil	0.4	48.5	3.1	49	<0.1	31.4	12.9	400	3.23	<0.5	<0.5	1.5	43	<0.1	0.1	<0.1	69	0.55	0.027	11
PC11 JT143	Soil	0.5	90.0	3.5	57	0.2	56.6	20.7	517	3.87	1.7	3.0	2.0	65	<0.1	0.2	<0.1	79	1.04	0.142	12
PC11 JT144	Soil	0.4	78.4	4.2	54	<0.1	35.7	12.9	393	3.68	1.5	2.0	1.9	52	<0.1	0.2	<0.1	80	0.79	0.042	11
PC11 JT145	Soil	0.3	25.1	3.4	49	<0.1	21.3	9.1	379	2.65	0.9	<0.5	1.1	40	<0.1	<0.1	<0.1	70	0.45	0.019	8
PC11 JT146	Soil	0.4	55.5	3.7	52	0.1	33.7	12.1	319	3.68	0.9	1.0	1.6	41	<0.1	0.1	<0.1	78	0.56	0.024	9
PC11 JT147	Soil	0.5	24.8	3.4	41	<0.1	20.2	9.5	408	2.47	1.1	<0.5	1.2	37	<0.1	0.2	<0.1	73	0.45	0.015	8
PC11 JT148	Soil	0.5	19.5	3.4	43	<0.1	19.5	8.2	436	2.42	0.5	1.1	1.3	38	<0.1	0.1	<0.1	66	0.41	0.010	7
PC11 JT149	Soil	0.4	22.8	3.8	41	<0.1	19.6	8.8	323	2.55	0.9	<0.5	1.4	40	<0.1	0.1	<0.1	72	0.43	0.016	8
PC11 JT150	Soil	0.5	19.2	4.2	55	<0.1	15.8	8.6	342	2.51	1.0	<0.5	1.3	44	<0.1	0.2	<0.1	73	0.46	0.013	7
PCS-016	Soil Pulp	17.0	66.6	17.3	18	0.1	16.3	2.6	110	3.85	468.0	223.0	0.7	30	0.3	28.2	0.2	11	0.98	0.005	2
PC11 JT151	Soil	0.4	19.4	4.0	58	<0.1	13.5	7.3	225	2.13	0.6	0.6	1.2	39	<0.1	<0.1	<0.1	59	0.43	0.016	6
PC11 JT152	Soil	0.4	21.1	4.2	45	<0.1	18.4	8.4	367	2.44	0.8	0.8	1.4	40	<0.1	0.1	<0.1	69	0.44	0.013	8
PC11 JT153	Soil	0.5	14.0	3.8	49	<0.1	11.7	6.3	309	2.00	0.9	0.8	1.1	37	<0.1	0.1	<0.1	60	0.40	0.014	6
PC11 JT154	Soil	0.5	59.0	3.9	38	<0.1	26.9	10.4	308	3.21	1.9	2.1	1.6	47	<0.1	0.2	<0.1	87	0.60	0.060	9
PC11 JT155	Soil	0.4	12.4	3.7	60	<0.1	13.3	5.7	301	1.88	0.7	1.0	1.1	36	<0.1	0.1	<0.1	55	0.40	0.012	5
PC11 JT156	Soil	0.5	12.7	3.5	39	<0.1	10.8	5.2	271	1.89	0.7	1.4	0.9	36	<0.1	0.1	<0.1	61	0.39	0.013	5
PC11 JT157	Soil	0.4	33.4	4.3	52	<0.1	28.5	8.4	275	2.94	1.5	1.1	1.6	43	<0.1	0.1	<0.1	68	0.51	0.033	9
PC11 JT158	Soil	0.4	24.2	4.9	48	<0.1	21.2	7.9	229	2.37	1.3	1.0	1.7	41	<0.1	0.1	<0.1	56	0.43	0.019	9

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 2446 Bidston Road
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Project: Princeton
 Report Date: November 09, 2011

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CERTIFICATE OF ANALYSIS

VAN11005754.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 JT130	Soil			38	0.37	124	0.174	4	1.82	0.028	0.14	<0.1	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 JT131	Soil			26	0.38	140	0.123	4	1.62	0.025	0.18	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT132	Soil			23	0.33	114	0.118	3	1.25	0.022	0.12	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT133	Soil			25	0.38	145	0.116	6	1.53	0.025	0.19	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT134	Soil			30	0.73	122	0.126	5	2.07	0.030	0.28	<0.1	0.03	5.7	<0.1	<0.05	7	<0.5	<0.2
PC11 JT135	Soil			27	0.39	96	0.132	3	1.20	0.028	0.19	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT136	Soil			30	0.39	108	0.124	3	1.31	0.028	0.19	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT137	Soil			29	0.80	147	0.110	4	2.02	0.037	0.17	<0.1	0.04	6.0	<0.1	<0.05	7	<0.5	<0.2
PC11 JT138	Soil			35	0.45	93	0.113	4	1.63	0.020	0.12	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT139	Soil			33	0.46	103	0.146	3	1.47	0.044	0.21	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT140	Soil			53	1.14	77	0.135	6	3.16	0.022	0.34	<0.1	0.02	7.3	<0.1	<0.05	10	<0.5	<0.2
PC11 JT141	Soil			24	0.60	90	0.143	4	1.57	0.033	0.15	<0.1	0.04	4.0	<0.1	<0.05	6	<0.5	<0.2
PC11 JT142	Soil			37	0.42	75	0.155	3	1.65	0.034	0.17	<0.1	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT143	Soil			33	0.95	88	0.134	4	1.92	0.082	0.13	<0.1	0.05	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 JT144	Soil			43	0.69	101	0.122	4	2.15	0.023	0.22	<0.1	0.01	6.3	<0.1	<0.05	7	<0.5	<0.2
PC11 JT145	Soil			36	0.40	71	0.141	3	1.25	0.025	0.22	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT146	Soil			48	0.50	67	0.150	3	2.00	0.023	0.22	<0.1	0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
PC11 JT147	Soil			33	0.36	65	0.147	2	1.15	0.032	0.14	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT148	Soil			34	0.32	82	0.138	2	1.19	0.022	0.17	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT149	Soil			35	0.34	77	0.150	4	1.34	0.022	0.19	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT150	Soil			33	0.32	108	0.154	2	1.37	0.023	0.10	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PCS-016	Soil Pulp			23	0.02	1053	0.011	1	0.18	0.006	0.07	2.4	2.84	0.6	10.8	0.13	<1	1.5	<0.2
PC11 JT151	Soil			27	0.31	110	0.145	3	1.30	0.025	0.13	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT152	Soil			35	0.31	86	0.148	2	1.33	0.024	0.14	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT153	Soil			26	0.25	74	0.143	1	1.10	0.024	0.10	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 JT154	Soil			37	0.56	79	0.118	2	1.62	0.024	0.11	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 JT155	Soil			25	0.24	83	0.129	2	1.02	0.020	0.10	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 JT156	Soil			24	0.21	74	0.140	3	0.96	0.019	0.10	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 JT157	Soil			46	0.39	82	0.144	6	1.67	0.017	0.20	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT158	Soil			33	0.32	104	0.139	2	1.73	0.023	0.10	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	
PC11 JT159	Soil	0.8	58.6	4.5	44	0.1	19.0	9.4	284	2.91	3.5	2.4	1.9	51	0.4	0.4	0.4	75	0.53	0.065	10
PC11 JT160	Soil	0.6	23.6	4.0	55	<0.1	10.4	6.0	309	1.99	1.3	1.9	1.1	36	0.3	0.4	0.2	59	0.35	0.030	4
PC11 JT161	Soil	0.7	19.8	4.0	38	<0.1	10.0	5.4	240	1.98	1.1	1.7	1.1	31	0.3	0.4	0.2	59	0.29	0.023	3
PC11 JT162	Soil	0.8	72.9	4.0	45	0.1	23.3	9.5	333	2.87	2.0	4.0	1.6	38	0.2	0.4	0.3	84	0.43	0.061	9
PC11 JT163	Soil	0.5	30.8	4.3	50	0.1	13.2	6.6	238	2.14	1.4	1.9	1.3	37	0.2	0.3	0.3	58	0.41	0.038	6
PC11 JT164	Soil	0.8	22.2	4.6	62	<0.1	12.5	6.8	258	2.35	1.7	0.6	1.3	32	0.2	0.3	0.2	69	0.31	0.065	4
PC11 JT165	Soil	0.5	16.9	3.9	37	<0.1	7.6	4.6	225	1.68	0.8	<0.5	1.2	39	0.2	0.3	0.2	52	0.31	0.015	5
PC11 JT166	Soil	0.8	10.9	4.7	95	<0.1	9.8	5.0	630	1.76	<0.5	1.3	1.0	42	0.2	0.2	0.1	46	0.30	0.018	3
PC11 JT167	Soil	0.7	30.9	4.5	133	0.2	16.3	5.7	503	1.80	1.6	7.0	1.2	30	0.2	0.2	0.1	47	0.30	0.063	5
PC11 JT168	Soil	0.9	25.1	6.5	52	<0.1	12.2	7.4	348	2.42	1.3	<0.5	1.8	61	0.1	0.3	0.2	60	0.44	0.037	12
PC11 JT169	Soil	0.6	15.5	4.5	47	<0.1	9.5	5.9	240	1.98	1.1	7.7	1.2	39	<0.1	<0.1	<0.1	55	0.33	0.020	5
PC11 JT170	Soil	0.5	26.7	3.7	44	<0.1	16.6	9.8	237	2.53	1.5	<0.5	1.5	41	<0.1	0.3	<0.1	67	0.40	0.028	6
PC11 JT171	Soil	0.6	18.4	2.8	40	<0.1	12.6	8.0	270	2.54	0.7	<0.5	1.1	30	<0.1	0.2	<0.1	88	0.30	0.020	4
PC11 JT172	Soil	0.6	21.0	3.8	57	<0.1	17.5	8.6	269	2.49	1.2	<0.5	1.3	41	<0.1	0.2	<0.1	71	0.34	0.029	5
PC11 JT173	Soil	0.7	24.5	4.3	77	<0.1	16.2	7.9	428	2.40	0.8	<0.5	1.4	37	<0.1	0.2	<0.1	62	0.38	0.030	4
PC11 JT176	Soil	0.5	20.6	5.2	47	<0.1	13.0	7.0	267	2.15	0.8	5.4	1.5	42	<0.1	<0.1	<0.1	63	0.42	0.021	6
PC11 JT177	Soil	0.6	40.5	5.0	56	<0.1	17.0	9.3	481	2.57	0.8	1.6	1.9	49	<0.1	0.1	<0.1	69	0.51	0.026	10
PC11 JT178	Soil	0.6	19.1	3.4	49	<0.1	12.7	7.5	308	2.02	1.0	1.5	1.3	38	<0.1	<0.1	<0.1	53	0.37	0.033	5
PC11 JT179	Soil	0.4	36.0	4.0	58	<0.1	15.3	8.3	373	2.20	2.0	1.6	1.5	30	<0.1	<0.1	<0.1	54	0.37	0.027	7
PC11 JT180	Soil	0.5	21.0	3.8	44	<0.1	14.1	8.8	298	2.17	1.0	1.4	1.8	51	<0.1	0.1	<0.1	62	0.39	0.020	8
PC11 JT256	Soil	0.6	46.3	6.3	56	<0.1	29.3	12.1	604	2.95	5.5	2.3	1.3	99	0.2	0.3	<0.1	80	1.11	0.089	10
PC11 JT257	Soil	0.6	55.2	6.0	59	<0.1	26.5	14.2	838	3.24	3.8	2.4	1.6	109	0.2	0.3	<0.1	84	1.13	0.059	9
PC11 JT258	Soil	0.7	47.3	5.0	59	<0.1	28.6	12.7	628	2.91	4.1	<0.5	1.6	87	0.1	0.2	<0.1	80	0.92	0.068	9
PC11 JT259	Soil	0.8	46.4	5.1	59	<0.1	37.1	12.8	532	3.04	4.6	2.2	1.6	90	<0.1	0.3	<0.1	81	0.87	0.070	9
PC11 JT260	Soil	0.7	37.0	4.9	61	<0.1	29.2	11.9	601	2.95	4.0	3.4	1.6	74	0.1	0.2	<0.1	77	0.72	0.056	9
PC11 KT211	Soil	0.5	30.5	5.7	62	<0.1	26.6	10.6	512	2.80	2.5	<0.5	1.9	70	<0.1	0.2	<0.1	65	0.64	0.020	9
PC11 KT212	Soil	1.3	52.0	5.7	61	<0.1	39.0	14.0	571	3.17	4.5	3.8	1.9	85	<0.1	0.3	<0.1	79	0.87	0.049	11
PC11 KT213	Soil	1.3	68.1	4.6	68	0.2	22.2	16.1	778	3.44	4.5	14.9	1.1	80	0.1	0.2	<0.1	87	1.08	0.060	8
PC11 KT214	Soil	0.5	76.3	4.3	73	<0.1	24.3	19.8	776	3.83	2.6	4.7	1.1	107	<0.1	0.3	<0.1	122	1.42	0.056	6
PC11 KT215	Soil	0.6	51.5	4.7	60	<0.1	21.5	13.0	606	3.19	2.3	1.1	1.3	78	<0.1	0.3	<0.1	95	0.82	0.043	8

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				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		
				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	
PC11 JT159	Soil			25	0.53	110	0.114	2	1.80	0.023	0.14	0.1	0.02	4.7	<0.1	0.06	5	<0.5	<0.2
PC11 JT160	Soil			20	0.28	125	0.124	2	1.12	0.028	0.11	0.2	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT161	Soil			21	0.27	119	0.113	3	0.94	0.033	0.08	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 JT162	Soil			29	0.49	116	0.107	2	1.53	0.025	0.12	0.2	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT163	Soil			22	0.32	147	0.116	2	1.21	0.027	0.10	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT164	Soil			24	0.33	147	0.118	3	1.37	0.020	0.09	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT165	Soil			19	0.23	92	0.129	2	0.88	0.023	0.08	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 JT166	Soil			20	0.26	216	0.133	3	1.25	0.025	0.11	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 JT167	Soil			21	0.30	226	0.110	2	1.48	0.023	0.11	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT168	Soil			19	0.36	110	0.143	1	1.38	0.028	0.13	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT169	Soil			22	0.28	109	0.133	1	1.09	0.021	0.13	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 JT170	Soil			28	0.35	99	0.152	2	1.25	0.037	0.16	0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 JT171	Soil			25	0.25	85	0.112	2	0.75	0.025	0.10	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 JT172	Soil			28	0.35	134	0.145	2	1.34	0.026	0.11	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT173	Soil			28	0.34	163	0.149	2	1.49	0.023	0.10	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 JT176	Soil			27	0.28	126	0.150	<1	1.36	0.021	0.11	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT177	Soil			27	0.37	168	0.157	2	1.40	0.031	0.17	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT178	Soil			24	0.29	129	0.121	2	1.18	0.026	0.12	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 JT179	Soil			23	0.36	88	0.109	2	1.47	0.023	0.15	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT180	Soil			27	0.36	112	0.130	2	1.15	0.029	0.14	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 JT256	Soil			39	0.81	116	0.131	4	2.30	0.035	0.16	<0.1	0.02	4.9	<0.1	0.07	6	<0.5	<0.2
PC11 JT257	Soil			37	0.89	83	0.170	4	2.73	0.033	0.27	<0.1	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
PC11 JT258	Soil			37	0.75	106	0.147	3	1.95	0.035	0.23	0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT259	Soil			45	0.88	111	0.136	4	1.92	0.031	0.21	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT260	Soil			39	0.68	123	0.137	3	1.76	0.029	0.20	0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 KT211	Soil			36	0.65	101	0.148	4	2.04	0.032	0.24	<0.1	<0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT212	Soil			44	0.92	118	0.142	3	2.21	0.031	0.25	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 KT213	Soil			33	1.17	69	0.154	4	2.46	0.022	0.24	<0.1	0.01	6.0	<0.1	<0.05	7	<0.5	<0.2
PC11 KT214	Soil			37	1.38	58	0.239	2	3.32	0.024	0.22	0.1	0.02	7.9	<0.1	<0.05	9	<0.5	<0.2
PC11 KT215	Soil			32	0.87	77	0.189	4	2.03	0.025	0.25	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2

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VAN11005754.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		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	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 KT216	Soil	0.6	56.7	3.6	54	<0.1	20.4	11.0	486	2.79	1.7	0.8	1.5	55	<0.1	0.2	<0.1	92	0.58	0.031	8
PC11 KT217	Soil	0.7	70.0	5.2	54	<0.1	28.4	12.9	553	3.26	2.9	2.8	1.7	68	<0.1	0.1	<0.1	107	0.81	0.069	9
PC11 KT218	Soil	0.7	57.5	4.2	48	0.1	22.8	11.8	517	2.85	6.0	3.7	1.4	132	<0.1	0.2	<0.1	90	3.36	0.089	10
PC11 KT219	Soil	2.0	45.9	13.2	72	0.1	26.5	14.2	798	3.06	8.0	2.1	1.3	69	<0.1	0.2	<0.1	67	1.04	0.071	12



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Project: Princeton
Report Date: November 09, 2011

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CERTIFICATE OF ANALYSIS

VAN11005754.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		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	
PC11 KT216	Soil	33	0.54	86	0.141	3	1.39	0.027	0.22	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT217	Soil	35	0.79	86	0.129	3	1.74	0.032	0.22	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 KT218	Soil	31	0.87	90	0.138	7	1.58	0.042	0.19	<0.1	0.04	4.9	<0.1	0.06	5	<0.5	<0.2
PC11 KT219	Soil	29	0.87	152	0.117	5	2.18	0.022	0.28	<0.1	0.02	3.9	<0.1	0.06	7	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005754.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PC11 MP108	Soil	0.5	26.3	5.0	50	<0.1	10.8	8.3	540	2.64	1.9	0.6	1.5	120	<0.1	<0.1	<0.1	83	0.63	0.024	12
REP PC11 MP108	QC	0.5	26.6	5.1	49	<0.1	11.1	8.0	527	2.45	1.7	1.1	1.4	115	<0.1	0.1	<0.1	81	0.62	0.023	12
PC11 MP125	Soil	0.4	13.8	4.8	76	<0.1	14.2	7.6	604	2.10	1.4	<0.5	1.3	60	0.1	0.1	<0.1	55	0.42	0.013	9
REP PC11 MP125	QC	0.4	14.2	4.9	75	<0.1	15.3	7.4	624	2.08	1.4	1.4	1.5	64	<0.1	0.1	<0.1	55	0.43	0.015	9
PC11 MP127	Soil	0.5	18.6	5.0	56	<0.1	17.1	8.3	529	2.43	0.9	<0.5	1.5	90	<0.1	0.1	0.1	69	0.48	0.014	12
REP PC11 MP127	QC	0.5	18.7	5.1	55	<0.1	17.1	8.1	538	2.42	0.8	1.3	1.5	91	<0.1	0.2	<0.1	71	0.49	0.015	11
PC11 RP110	Soil	0.5	16.1	6.1	72	<0.1	14.4	6.9	396	2.56	1.9	<0.5	1.7	62	<0.1	0.1	0.1	60	0.55	0.037	7
REP PC11 RP110	QC	0.5	16.3	6.0	72	<0.1	13.9	7.0	398	2.48	2.0	<0.5	1.7	62	0.1	0.1	0.1	59	0.57	0.037	7
PC11 RP127	Soil	1.1	34.9	6.3	60	<0.1	16.5	8.3	442	3.49	3.5	1.7	1.4	148	<0.1	0.2	<0.1	80	1.22	0.055	14
REP PC11 RP127	QC	1.2	35.9	6.8	61	0.1	16.9	8.7	477	3.67	3.9	2.4	1.5	151	0.1	0.2	<0.1	83	1.38	0.057	15
PC11 RP145	Soil	0.4	52.4	3.6	40	0.2	19.2	10.6	386	2.68	2.7	5.1	1.7	109	0.1	0.3	<0.1	78	2.93	0.125	9
REP PC11 RP145	QC	0.5	52.0	3.8	39	0.2	19.7	10.7	384	2.68	2.8	3.3	1.8	111	<0.1	0.3	<0.1	79	3.12	0.135	9
PC11 RP160	Soil	0.5	18.9	3.7	47	<0.1	14.9	7.7	392	2.23	0.7	0.6	1.0	37	<0.1	0.1	<0.1	61	0.39	0.018	5
REP PC11 RP160	QC	0.4	18.6	3.5	47	<0.1	14.5	8.1	407	2.25	0.6	<0.5	1.0	37	<0.1	0.1	<0.1	60	0.40	0.018	5
PC11 RP168	Soil	0.4	18.7	4.3	51	<0.1	13.6	6.9	294	2.18	1.1	<0.5	1.3	46	<0.1	0.1	<0.1	63	0.46	0.032	7
REP PC11 RP168	QC	0.3	18.9	3.7	52	<0.1	13.2	7.0	291	2.15	0.9	<0.5	1.3	46	<0.1	0.1	0.1	61	0.46	0.034	7
PC11 JT132	Soil	0.6	29.2	3.5	81	<0.1	12.3	8.1	351	2.35	1.3	<0.5	1.2	43	<0.1	0.1	<0.1	66	0.53	0.033	4
REP PC11 JT132	QC	0.6	28.9	3.4	82	<0.1	11.7	8.3	363	2.37	1.1	<0.5	1.2	44	<0.1	0.1	<0.1	64	0.54	0.032	5
PC11 JT155	Soil	0.4	12.4	3.7	60	<0.1	13.3	5.7	301	1.88	0.7	1.0	1.1	36	<0.1	0.1	<0.1	55	0.40	0.012	5
REP PC11 JT155	QC	0.4	13.0	3.8	60	<0.1	12.5	5.9	301	1.90	0.6	2.0	1.2	38	<0.1	0.1	<0.1	54	0.41	0.013	6
PC11 JT167	Soil	0.7	30.9	4.5	133	0.2	16.3	5.7	503	1.80	1.6	7.0	1.2	30	0.2	0.2	0.1	47	0.30	0.063	5
REP PC11 JT167	QC	0.8	31.3	4.2	135	0.2	16.1	5.9	502	1.76	1.7	0.7	1.2	29	0.2	0.2	0.1	47	0.30	0.065	5
PC11 JT258	Soil	0.7	47.3	5.0	59	<0.1	28.6	12.7	628	2.91	4.1	<0.5	1.6	87	0.1	0.2	<0.1	80	0.92	0.068	9
REP PC11 JT258	QC	0.7	47.3	4.9	58	<0.1	27.7	12.8	653	2.94	4.2	1.5	1.7	89	<0.1	0.2	<0.1	80	0.93	0.067	9
Reference Materials																					
STD DS8	Standard	12.9	113.0	127.4	321	2.0	38.4	7.6	629	2.60	26.3	126.0	6.7	74	2.5	6.2	6.9	42	0.69	0.084	14
STD DS8	Standard	13.3	113.6	124.5	325	1.9	37.9	7.9	629	2.52	25.5	108.8	6.9	66	2.4	5.9	6.9	41	0.71	0.082	15
STD DS8	Standard	13.6	109.2	127.5	294	1.7	38.4	7.6	626	2.44	22.7	106.6	7.5	74	2.1	5.7	6.7	42	0.69	0.074	15

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Project: Princeton
Report Date: November 09, 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
Analyte	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	
MDL	1	0.01	1	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																	
PC11 MP108	Soil	22	0.30	83	0.136	2	1.44	0.025	0.14	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP108	QC	22	0.30	83	0.133	2	1.35	0.024	0.13	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP125	Soil	26	0.28	117	0.130	4	1.30	0.022	0.23	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
REP PC11 MP125	QC	27	0.28	118	0.136	4	1.35	0.021	0.23	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP127	Soil	31	0.43	98	0.170	6	1.41	0.035	0.22	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP127	QC	33	0.45	98	0.172	5	1.42	0.039	0.22	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP110	Soil	26	0.39	83	0.138	4	2.14	0.024	0.11	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
REP PC11 RP110	QC	25	0.38	84	0.135	5	2.13	0.021	0.11	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2
PC11 RP127	Soil	24	0.67	86	0.176	5	3.22	0.032	0.13	<0.1	0.04	8.6	<0.1	<0.05	11	<0.5	<0.2
REP PC11 RP127	QC	24	0.71	90	0.189	6	3.54	0.033	0.14	<0.1	0.04	9.4	<0.1	<0.05	11	<0.5	<0.2
PC11 RP145	Soil	25	0.65	77	0.122	4	1.45	0.031	0.07	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
REP PC11 RP145	QC	25	0.69	81	0.135	4	1.62	0.040	0.07	<0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP160	Soil	29	0.31	108	0.131	3	1.19	0.027	0.16	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
REP PC11 RP160	QC	28	0.30	106	0.130	3	1.19	0.024	0.15	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 RP168	Soil	31	0.34	89	0.143	5	1.24	0.023	0.23	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
REP PC11 RP168	QC	29	0.35	92	0.136	5	1.26	0.021	0.22	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 JT132	Soil	23	0.33	114	0.118	3	1.25	0.022	0.12	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
REP PC11 JT132	QC	23	0.32	113	0.120	4	1.18	0.022	0.12	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT155	Soil	25	0.24	83	0.129	2	1.02	0.020	0.10	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
REP PC11 JT155	QC	26	0.25	84	0.132	3	1.10	0.024	0.10	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 JT167	Soil	21	0.30	226	0.110	2	1.48	0.023	0.11	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
REP PC11 JT167	QC	21	0.31	224	0.109	2	1.56	0.024	0.11	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT258	Soil	37	0.75	106	0.147	3	1.95	0.035	0.23	0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
REP PC11 JT258	QC	38	0.73	107	0.147	3	1.92	0.035	0.23	<0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.61	292	0.109	3	1.01	0.110	0.44	3.1	0.21	2.9	5.5	0.13	5	6.0	4.8
STD DS8	Standard	119	0.62	290	0.121	2	0.92	0.090	0.42	3.1	0.21	2.0	5.4	0.14	5	5.7	5.3
STD DS8	Standard	121	0.59	285	0.134	2	0.94	0.109	0.42	2.9	0.20	2.9	5.0	0.16	5	4.4	5.0

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS8	Standard	13.8	108.3	123.2	302	1.9	38.1	7.4	601	2.46	24.3	108.2	7.3	69	2.4	5.8	6.3	42	0.70	0.080	17
STD DS8	Standard	13.7	116.2	130.2	320	1.8	39.3	7.8	643	2.60	25.4	114.8	7.5	72	2.3	5.8	6.7	45	0.74	0.082	18
STD DS8	Standard	13.2	112.2	121.9	320	1.9	38.9	7.4	610	2.49	26.1	120.2	6.2	72	2.1	5.4	6.2	43	0.71	0.085	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	116	0.60	286	0.124	2	0.93	0.090	0.41	3.1	0.20	2.3	5.5	0.15	5	5.0	4.9
STD DS8	Standard	118	0.63	297	0.131	2	1.05	0.110	0.43	3.0	0.22	2.7	5.6	0.17	5	4.9	5.1
STD DS8	Standard	116	0.63	306	0.118	4	1.05	0.091	0.49	3.1	0.20	2.2	5.6	0.15	5	5.5	5.2
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: Mammoth Geological Ltd.

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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 26, 2011
Report Date: December 01, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11005755.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 197

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	197	Dry at 60C			VAN
SS80	195	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	197	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: Princeton
 Report Date: December 01, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11005755.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP01	Soil		0.5	23.1	4.5	57	<0.1	14.0	9.2	634	2.33	1.1	1.3	1.1	94	<0.1	0.1	<0.1	72	0.51	0.026	9
PC11 AP02	Soil		0.6	34.5	4.3	54	<0.1	16.4	9.4	365	2.68	1.8	1.8	1.4	102	<0.1	0.1	<0.1	73	0.60	0.039	11
PC11 AP03	Soil		0.6	16.3	4.0	73	<0.1	11.8	6.7	433	2.08	1.2	<0.5	1.3	59	0.1	0.1	<0.1	60	0.38	0.022	6
PC11 AP04	Soil		0.4	21.1	3.7	59	<0.1	13.3	8.3	471	2.49	1.5	<0.5	1.2	79	0.1	0.1	<0.1	75	0.55	0.037	8
PC11 AP05	Soil		0.5	18.8	4.3	35	<0.1	14.6	8.0	516	2.25	1.5	0.8	1.4	73	<0.1	0.1	<0.1	56	0.47	0.015	9
PC11 AP06	Soil		0.4	18.1	4.3	62	<0.1	14.0	6.3	500	2.10	0.9	0.9	1.3	55	<0.1	0.1	<0.1	58	0.36	0.022	7
PC11 AP07	Soil		0.4	11.2	4.1	62	<0.1	10.8	5.0	300	1.79	1.2	1.2	1.2	64	<0.1	0.1	<0.1	50	0.37	0.027	5
PC11 AP08	Soil		0.4	13.0	4.4	61	<0.1	11.3	5.8	378	2.06	0.9	<0.5	1.3	83	<0.1	0.1	<0.1	59	0.44	0.017	7
PC11 AP09	Soil		0.4	14.3	4.6	58	<0.1	11.2	5.9	310	2.06	1.3	2.0	1.3	58	0.1	0.2	<0.1	59	0.42	0.023	7
PC11 AP10	Soil		0.6	26.7	4.4	67	<0.1	17.1	9.7	560	2.87	2.0	<0.5	1.5	69	<0.1	0.2	<0.1	84	0.56	0.023	11
PC11 AP11	Soil		0.5	34.3	4.7	86	<0.1	18.2	11.7	727	3.09	3.5	<0.5	1.3	95	0.1	0.2	<0.1	92	0.81	0.038	9
PC11 AP12	Soil		0.4	37.2	3.8	74	<0.1	18.4	13.4	695	3.28	1.5	1.7	1.1	90	0.2	0.2	<0.1	118	0.86	0.019	8
PC11 AP13	Soil		0.4	20.1	4.4	81	<0.1	13.5	9.2	570	2.58	0.9	<0.5	1.1	62	<0.1	0.2	<0.1	82	0.57	0.020	7
PC11 AP14	Soil		0.4	32.0	4.7	61	<0.1	14.4	9.2	438	2.81	1.8	2.3	1.3	85	0.1	0.2	<0.1	77	0.84	0.033	12
PC11 AP15	Soil		0.3	27.6	4.1	58	<0.1	14.9	10.7	480	2.93	1.3	1.8	1.2	67	<0.1	0.2	<0.1	95	0.62	0.019	9
PC11 AP61	Soil		0.7	58.8	3.9	67	<0.1	24.4	18.5	842	3.92	5.2	2.3	1.0	243	0.2	0.2	<0.1	115	1.55	0.060	7
PC11 AP62	Soil		0.7	68.5	4.4	60	0.1	23.0	15.7	677	3.85	5.0	3.3	1.1	141	0.1	0.2	<0.1	117	2.28	0.080	8
PC11 AP63	Soil		0.7	68.3	5.9	68	0.1	29.1	13.9	952	3.32	4.1	3.0	1.3	74	0.3	0.3	<0.1	95	0.86	0.098	8
PC11 AP64	Soil		0.6	25.4	4.9	57	<0.1	11.7	6.5	300	2.20	2.3	1.7	1.6	61	<0.1	0.2	<0.1	70	0.39	0.055	6
PC11 AP65	Soil		0.6	12.0	3.6	80	<0.1	8.0	4.1	687	1.45	1.7	1.0	0.9	47	0.1	0.1	<0.1	42	0.35	0.051	3
PC11 AP66	Soil		0.6	17.0	4.0	68	<0.1	9.4	5.7	368	1.84	1.7	<0.5	1.1	49	<0.1	<0.1	<0.1	54	0.31	0.048	4
PC11 AP67	Soil		1.0	17.9	3.8	79	<0.1	8.3	5.3	879	1.58	1.6	<0.5	0.9	54	0.1	<0.1	<0.1	47	0.39	0.040	4
PC11 AP68	Soil		0.4	13.1	3.6	68	<0.1	8.8	4.2	318	1.62	1.1	1.7	1.0	68	<0.1	<0.1	<0.1	47	0.39	0.023	4
PC11 AP69	Soil		0.4	15.5	3.7	51	<0.1	10.2	7.0	186	2.28	2.0	0.6	1.6	113	<0.1	0.1	<0.1	71	0.47	0.037	7
PC11 AP70	Soil		0.4	16.9	3.7	53	<0.1	10.3	5.7	230	2.07	1.3	<0.5	1.4	74	<0.1	0.1	<0.1	61	0.37	0.023	5
PC11 AP71	Soil		0.4	12.8	3.7	55	<0.1	8.5	4.9	287	1.85	1.9	<0.5	1.1	88	<0.1	0.2	<0.1	64	0.38	0.022	4
PC11 AP72	Soil		0.6	18.9	3.9	46	<0.1	9.0	6.1	352	2.17	2.3	<0.5	1.4	105	<0.1	0.1	<0.1	76	0.44	0.025	6
PC11 AP73	Soil		0.9	22.2	4.6	80	<0.1	11.7	6.8	699	1.67	3.9	1.1	1.0	67	0.1	<0.1	<0.1	39	0.50	0.061	6
PC11 AP74	Soil		0.6	30.7	4.7	47	<0.1	11.2	7.4	415	2.22	4.1	<0.5	1.6	82	<0.1	0.1	<0.1	60	0.57	0.031	9
PC11 AP75	Soil		0.4	42.0	4.4	53	0.1	14.3	10.1	494	3.04	3.4	0.9	1.9	137	<0.1	0.2	<0.1	90	0.72	0.044	12

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Project: Princeton
 Report Date: December 01, 2011

Page: 2 of 8 Part 2

CERTIFICATE OF ANALYSIS

VAN11005755.1

Method	Analyte	1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15		1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te		
Unit	MDL	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm			
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2			
PC11 AP01	Soil	24	0.44	91	0.113	3	1.60	0.024	0.17	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP02	Soil	29	0.43	88	0.109	4	1.79	0.022	0.18	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP03	Soil	24	0.30	100	0.118	3	1.27	0.021	0.17	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP04	Soil	25	0.41	73	0.116	3	1.50	0.017	0.23	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP05	Soil	25	0.41	86	0.108	3	1.64	0.024	0.17	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP06	Soil	24	0.27	92	0.132	3	1.22	0.021	0.20	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP07	Soil	20	0.25	99	0.125	4	1.21	0.019	0.18	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP08	Soil	23	0.27	114	0.138	2	1.46	0.023	0.09	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP09	Soil	24	0.28	82	0.144	2	1.44	0.020	0.12	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP10	Soil	31	0.50	83	0.163	2	2.04	0.020	0.20	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2		
PC11 AP11	Soil	29	0.72	66	0.168	6	2.48	0.029	0.28	<0.1	0.03	7.2	<0.1	<0.05	7	<0.5	<0.2		
PC11 AP12	Soil	32	0.82	64	0.203	3	2.48	0.037	0.28	<0.1	0.02	8.3	<0.1	<0.05	7	<0.5	<0.2		
PC11 AP13	Soil	25	0.49	84	0.152	3	1.61	0.027	0.22	<0.1	0.01	5.8	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP14	Soil	25	0.49	83	0.113	5	1.96	0.022	0.26	<0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP15	Soil	30	0.52	72	0.174	3	1.75	0.030	0.22	<0.1	0.01	6.5	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP61	Soil	29	1.50	63	0.144	3	3.46	0.038	0.19	<0.1	0.03	6.9	<0.1	<0.05	9	<0.5	<0.2		
PC11 AP62	Soil	32	1.24	63	0.126	10	2.26	0.040	0.23	<0.1	0.02	5.8	<0.1	<0.05	7	<0.5	<0.2		
PC11 AP63	Soil	37	0.85	157	0.111	6	1.71	0.022	0.27	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2		
PC11 AP64	Soil	20	0.29	99	0.104	1	1.30	0.021	0.12	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP65	Soil	15	0.20	111	0.093	2	1.12	0.015	0.11	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2		
PC11 AP66	Soil	19	0.24	103	0.104	2	1.25	0.017	0.14	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP67	Soil	15	0.23	124	0.088	2	1.06	0.020	0.15	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2		
PC11 AP68	Soil	16	0.21	96	0.113	3	1.15	0.017	0.13	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP69	Soil	20	0.33	89	0.158	1	1.77	0.025	0.10	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP70	Soil	22	0.24	92	0.132	2	1.23	0.021	0.12	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP71	Soil	20	0.20	96	0.139	1	1.08	0.017	0.11	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2		
PC11 AP72	Soil	20	0.25	83	0.116	2	1.11	0.022	0.15	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP73	Soil	17	0.29	110	0.088	5	1.50	0.016	0.27	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2		
PC11 AP74	Soil	20	0.38	100	0.099	3	1.49	0.020	0.17	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2		
PC11 AP75	Soil	20	0.53	93	0.151	2	2.12	0.032	0.16	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2		

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Project: Princeton
 Report Date: December 01, 2011

Page: 3 of 8 Part 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	0.1	2	0.01	0.001		
PC11 AP76	Soil			0.5	15.6	4.0	43	<0.1	7.8	5.0	247	1.76	1.5	2.8	1.1	82	<0.1	0.1	<0.1	61	0.37	0.025	4
PC11 AP77	Soil			0.4	20.9	4.4	51	<0.1	10.8	6.6	346	2.31	2.2	0.7	1.7	108	<0.1	0.1	<0.1	70	0.47	0.021	9
PC11 AP78	Soil			0.5	12.1	3.8	86	<0.1	10.2	4.7	620	1.82	1.3	0.7	1.4	86	0.1	<0.1	<0.1	45	0.40	0.022	6
PC11 AP79	Soil			0.5	13.6	4.4	44	<0.1	8.4	5.1	340	1.74	0.7	<0.5	1.3	87	<0.1	0.1	<0.1	54	0.41	0.016	7
PC11 AP80	Soil			0.5	14.8	4.6	66	<0.1	9.8	6.1	622	1.84	1.0	1.4	1.3	99	0.1	0.1	<0.1	54	0.37	0.017	6
PC11 AP81	Soil			0.6	18.3	3.7	36	<0.1	9.4	5.9	334	1.83	1.0	<0.5	1.2	66	<0.1	0.1	<0.1	58	0.43	0.018	6
PC11 AP82	Soil			0.3	28.6	5.0	51	<0.1	14.0	8.4	571	2.47	2.0	3.0	1.9	109	0.1	<0.1	<0.1	72	0.69	0.029	10
PC11 AP83	Soil			0.6	63.5	5.1	47	<0.1	12.1	8.8	615	2.31	1.7	1.8	2.0	61	0.1	0.1	<0.1	75	0.69	0.032	9
PC11 AP85	Soil			0.5	23.6	5.2	58	<0.1	14.9	7.7	736	2.27	4.3	1.7	2.1	125	<0.1	<0.1	<0.1	58	0.59	0.030	9
PC11 AP86	Soil			0.7	18.9	4.7	75	<0.1	12.6	6.1	723	1.89	3.5	0.8	1.7	92	0.2	<0.1	<0.1	49	0.52	0.039	7
PC11 AP87	Soil			0.7	18.4	6.2	56	<0.1	15.2	7.6	1039	1.79	2.8	0.7	1.9	101	0.2	<0.1	<0.1	46	0.63	0.026	9
PC11 AP88	Soil			0.5	13.4	4.9	60	<0.1	11.1	5.7	575	1.62	1.7	1.1	1.9	74	<0.1	<0.1	<0.1	41	0.40	0.016	7
PC11 AP89	Soil			0.5	12.6	4.6	63	<0.1	10.9	4.2	570	1.24	2.4	<0.5	1.3	74	<0.1	<0.1	<0.1	36	0.41	0.023	4
PC11 AP90	Soil			0.8	12.8	5.3	86	<0.1	11.1	4.5	1207	1.20	1.6	0.9	1.5	71	<0.1	<0.1	<0.1	34	0.37	0.015	6
PC11 AP106	Soil			0.4	12.1	5.6	99	<0.1	7.7	6.2	836	2.23	1.2	<0.5	1.6	79	<0.1	<0.1	<0.1	60	0.54	0.027	7
PC11 AP107	Soil			0.3	13.8	6.6	67	<0.1	8.0	7.7	475	2.76	0.8	<0.5	1.9	81	<0.1	0.1	<0.1	73	0.59	0.017	9
PC11 AP108	Soil			0.5	51.4	4.7	52	<0.1	18.5	11.3	498	3.12	2.9	1.8	2.1	79	0.1	0.1	<0.1	93	0.69	0.058	10
PC11 AP109	Soil			0.6	8.4	5.7	102	<0.1	13.2	5.4	452	1.15	2.1	0.6	1.0	24	0.1	<0.1	<0.1	30	0.30	0.114	2
PC11 AP110	Soil			0.8	7.6	4.1	71	<0.1	6.8	3.6	428	1.26	0.8	0.6	0.8	29	<0.1	<0.1	<0.1	46	0.28	0.020	2
PC11 AP111	Soil			0.6	31.4	4.9	39	<0.1	9.7	6.3	276	2.64	4.0	1.8	2.3	86	<0.1	<0.1	<0.1	90	0.72	0.062	11
PC11 AP112	Soil			0.5	8.1	4.6	75	<0.1	7.4	3.8	375	1.56	0.9	3.4	0.7	42	<0.1	<0.1	<0.1	43	0.30	0.025	2
PC11 AP113	Soil			0.3	14.4	5.0	54	<0.1	10.6	5.2	226	2.12	1.5	0.7	1.2	58	<0.1	<0.1	<0.1	59	0.38	0.025	4
PC11 AP114	Soil			0.4	5.1	5.0	81	<0.1	6.6	2.9	427	0.96	1.0	0.8	0.6	19	<0.1	<0.1	<0.1	27	0.21	0.025	2
PC11 AP115	Soil			0.7	4.9	6.5	71	<0.1	4.6	2.8	693	0.98	1.3	0.8	1.3	33	<0.1	<0.1	<0.1	32	0.33	0.027	4
PC11 AP116	Soil			0.6	16.0	6.7	53	<0.1	8.6	5.2	457	1.91	2.5	<0.5	1.6	69	<0.1	<0.1	<0.1	54	0.44	0.046	6
PC11 AP117	Soil			0.7	22.4	7.1	61	<0.1	13.9	7.7	423	2.48	4.1	1.5	1.9	126	<0.1	<0.1	<0.1	73	0.57	0.066	6
PC11 AP118	Soil			0.9	79.5	5.7	38	0.2	13.2	2.9	68	0.77	5.9	2.0	0.4	179	0.1	<0.1	<0.1	26	2.50	0.085	14
PC11 AP119	Soil			0.7	11.0	5.4	114	<0.1	14.3	6.1	980	1.86	3.2	<0.5	0.8	56	0.2	<0.1	<0.1	53	0.42	0.050	3
PC11 AP120	Soil			0.5	9.7	5.2	95	<0.1	7.8	4.1	743	1.26	3.5	<0.5	0.9	34	<0.1	<0.1	<0.1	39	0.28	0.029	3
PC11 AP121	Soil			0.6	12.2	4.5	136	<0.1	9.0	3.6	890	1.02	4.3	<0.5	0.9	29	0.1	<0.1	<0.1	29	0.19	0.032	3

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Project: Princeton
 Report Date: December 01, 2011

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 AP76	Soil			20	0.22	87	0.118	2	0.96	0.025	0.12	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 AP77	Soil			24	0.26	89	0.123	2	1.37	0.028	0.17	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP78	Soil			20	0.24	104	0.098	3	1.38	0.025	0.21	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP79	Soil			18	0.21	84	0.125	2	1.06	0.022	0.16	<0.1	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2
PC11 AP80	Soil			20	0.23	120	0.114	2	1.19	0.022	0.18	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP81	Soil			19	0.26	72	0.117	3	1.02	0.023	0.18	<0.1	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
PC11 AP82	Soil			23	0.41	96	0.127	5	1.55	0.031	0.22	<0.1	0.01	4.9	<0.1	<0.05	5	0.5	<0.2
PC11 AP83	Soil			19	0.39	107	0.115	6	1.19	0.025	0.26	<0.1	0.02	3.7	<0.1	<0.05	4	0.6	<0.2
PC11 AP85	Soil			24	0.37	118	0.112	5	1.52	0.030	0.26	<0.1	0.02	4.5	<0.1	<0.05	5	0.7	<0.2
PC11 AP86	Soil			21	0.30	107	0.095	4	1.33	0.023	0.19	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP87	Soil			22	0.30	144	0.096	4	1.20	0.032	0.22	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP88	Soil			23	0.24	183	0.092	3	1.06	0.024	0.23	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
PC11 AP89	Soil			21	0.22	194	0.081	4	1.02	0.024	0.20	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 AP90	Soil			19	0.22	208	0.076	3	1.03	0.023	0.19	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 AP106	Soil			14	0.32	97	0.171	5	1.58	0.028	0.21	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP107	Soil			13	0.39	92	0.244	4	1.79	0.037	0.22	<0.1	<0.01	6.3	<0.1	<0.05	6	0.6	<0.2
PC11 AP108	Soil			26	0.57	79	0.108	1	1.95	0.027	0.13	<0.1	0.01	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 AP109	Soil			14	0.20	122	0.078	2	1.58	0.017	0.09	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP110	Soil			15	0.18	87	0.097	2	1.17	0.017	0.08	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP111	Soil			19	0.39	52	0.106	1	1.50	0.031	0.08	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
PC11 AP112	Soil			15	0.21	91	0.124	2	1.45	0.024	0.07	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP113	Soil			19	0.28	65	0.132	3	1.60	0.026	0.10	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PC11 AP114	Soil			11	0.17	72	0.082	1	1.27	0.019	0.06	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP115	Soil			10	0.16	114	0.082	1	0.85	0.016	0.07	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP116	Soil			15	0.29	82	0.113	2	1.38	0.023	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	0.6	<0.2
PC11 AP117	Soil			19	0.44	81	0.140	2	1.87	0.032	0.11	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
PC11 AP118	Soil			10	0.51	88	0.037	12	1.21	0.040	0.04	<0.1	0.06	1.7	<0.1	0.31	3	0.7	<0.2
PC11 AP119	Soil			18	0.38	114	0.143	3	1.67	0.023	0.16	<0.1	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP120	Soil			14	0.22	128	0.097	1	1.22	0.019	0.11	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP121	Soil			14	0.21	186	0.086	3	1.26	0.018	0.12	<0.1	<0.01	1.6	<0.1	<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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP122	Soil		0.7	8.7	5.1	92	<0.1	8.6	4.1	669	0.96	1.0	0.7	0.7	27	0.1	<0.1	<0.1	27	0.27	0.022	2
PC11 AP123	Soil		0.7	13.1	5.7	86	<0.1	8.2	3.8	478	1.04	1.9	<0.5	1.0	42	<0.1	<0.1	<0.1	31	0.27	0.018	3
PC11 AP124	Soil		0.9	9.7	5.5	95	<0.1	5.9	2.9	378	0.97	2.7	1.7	1.0	27	<0.1	<0.1	<0.1	27	0.23	0.034	3
PC11 AP125	Soil		0.7	5.8	4.4	64	<0.1	3.8	2.1	492	0.85	1.5	<0.5	0.8	23	<0.1	<0.1	<0.1	24	0.22	0.017	3
PC11 AP126	Soil		1.0	8.6	5.7	144	<0.1	6.8	3.2	1345	1.09	2.1	<0.5	1.0	41	0.2	<0.1	<0.1	29	0.47	0.033	4
PC11 AP127	Soil		0.9	8.5	5.0	103	<0.1	6.3	3.1	665	1.06	0.9	0.7	0.9	24	0.1	<0.1	<0.1	32	0.22	0.023	3
PC11 AP128	Soil		0.5	13.2	5.9	58	<0.1	8.6	4.8	336	2.03	1.4	1.1	1.7	51	<0.1	<0.1	<0.1	56	0.39	0.015	5
PC11 AP129	Soil		0.5	6.5	5.2	63	<0.1	5.8	3.2	206	1.15	<0.5	<0.5	0.8	35	<0.1	<0.1	<0.1	35	0.29	0.025	3
PC11 AP130	Soil		0.9	31.1	6.7	118	0.1	17.0	8.3	713	2.59	2.0	1.0	1.4	31	<0.1	<0.1	<0.1	78	0.34	0.246	4
PC11 AP131	Soil		0.6	18.8	4.8	65	<0.1	13.8	7.6	659	2.38	1.3	2.1	0.9	22	<0.1	<0.1	<0.1	79	0.26	0.089	3
PC11 AP132	Soil		0.6	24.6	3.9	36	<0.1	11.9	7.3	233	2.90	1.3	12.0	1.1	28	<0.1	<0.1	<0.1	111	0.30	0.047	3
PC11 AP133	Soil		0.5	12.0	4.1	42	<0.1	8.2	5.1	271	1.82	1.4	<0.5	1.0	20	<0.1	<0.1	<0.1	60	0.26	0.028	3
PC11 AP134	Soil		0.5	16.7	3.9	23	<0.1	8.0	5.8	171	2.25	1.0	4.8	0.9	37	<0.1	0.2	0.1	73	0.35	0.010	4
PC11 AP135	Soil		0.7	14.0	4.6	90	<0.1	13.5	6.3	793	1.93	1.4	1.9	0.8	26	0.1	<0.1	0.1	54	0.25	0.063	3
PC11 AP151	Soil		0.6	14.6	4.5	43	<0.1	10.7	6.4	264	2.15	1.5	<0.5	1.0	43	<0.1	0.1	0.1	61	0.40	0.025	4
PC11 AP152	Soil		0.8	8.4	3.1	57	<0.1	8.0	4.0	225	1.54	0.7	3.2	0.6	26	<0.1	0.1	0.1	42	0.23	0.026	2
PC11 AP153	Soil		0.7	25.8	7.0	111	0.1	10.2	5.5	602	1.92	2.0	2.7	0.9	44	0.5	0.1	0.1	63	0.49	0.051	4
PC11 AP154	Soil		0.8	18.5	4.7	104	<0.1	9.3	5.5	702	1.76	1.5	1.3	0.8	42	0.3	0.1	0.1	56	0.57	0.035	3
PC11 AP155	Soil		0.8	23.9	4.2	75	0.1	10.2	6.5	301	2.17	1.6	<0.5	1.1	32	<0.1	0.1	0.1	74	0.32	0.036	3
PC11 AP156	Soil		0.6	13.3	3.6	68	<0.1	8.8	4.8	268	1.80	<0.5	1.5	0.8	25	<0.1	0.1	<0.1	61	0.26	0.031	3
PC11 AP157	Soil		0.5	41.9	4.8	46	<0.1	10.7	7.2	385	2.41	1.1	1.0	1.4	39	0.1	0.1	<0.1	87	0.37	0.020	5
PC11 AP158	Soil		0.8	87.7	7.7	53	0.2	16.6	11.8	317	2.89	2.9	<0.5	2.0	55	0.1	0.2	<0.1	107	0.63	0.068	7
PC11 AP159	Soil		0.7	67.9	6.7	41	<0.1	11.4	11.3	409	2.76	2.9	2.2	1.3	66	0.2	0.2	<0.1	89	0.79	0.040	5
PC11 AP160	Soil		1.1	92.2	5.0	47	<0.1	17.4	11.2	405	2.92	9.6	6.0	1.9	69	0.1	0.3	0.1	84	1.12	0.063	11
PC11 AP161	Soil		0.6	14.4	4.4	95	<0.1	13.7	7.4	538	2.05	2.1	<0.5	0.8	31	<0.1	<0.1	<0.1	53	0.42	0.060	3
PC11 AP162	Soil		0.5	20.1	4.4	114	0.1	23.7	8.9	312	2.20	2.8	0.7	1.4	30	<0.1	<0.1	<0.1	51	0.28	0.176	4
PC11 AP163	Soil		0.6	30.8	4.4	30	<0.1	14.5	8.0	603	2.50	3.4	22.0	1.0	48	<0.1	0.1	<0.1	76	0.89	0.035	5
PC11 AP164	Soil		0.6	14.4	3.3	36	<0.1	9.6	6.4	381	2.23	1.4	1.8	0.9	30	<0.1	<0.1	<0.1	83	0.33	0.038	3
PC11 AP165	Soil		0.5	20.1	3.5	44	<0.1	16.3	8.1	377	3.00	1.4	1.1	1.3	27	<0.1	<0.1	<0.1	109	0.33	0.059	4
PC11 AP166	Soil		0.6	41.1	4.2	81	<0.1	19.3	9.5	456	2.58	2.9	3.3	1.3	52	0.2	0.1	<0.1	81	0.73	0.086	7

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				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		
				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	
PC11 AP122	Soil			14	0.19	129	0.079	1	1.07	0.020	0.08	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP123	Soil			16	0.20	198	0.073	2	0.90	0.020	0.13	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
PC11 AP124	Soil			13	0.18	129	0.079	1	0.96	0.016	0.09	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 AP125	Soil			9	0.11	121	0.056	1	0.71	0.016	0.06	<0.1	<0.01	1.1	<0.1	<0.05	2	0.6	<0.2
PC11 AP126	Soil			12	0.16	198	0.070	4	1.15	0.020	0.12	<0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP127	Soil			14	0.18	136	0.088	1	1.21	0.017	0.08	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP128	Soil			20	0.25	86	0.136	1	1.55	0.027	0.08	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP129	Soil			12	0.18	69	0.107	2	1.27	0.020	0.06	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP130	Soil			23	0.33	279	0.081	2	1.80	0.019	0.08	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PC11 AP131	Soil			20	0.26	130	0.081	1	1.48	0.017	0.07	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PC11 AP132	Soil			22	0.27	94	0.080	<1	1.19	0.014	0.05	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP133	Soil			17	0.22	115	0.087	1	1.04	0.015	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP134	Soil			20	0.23	67	0.111	2	1.12	0.022	0.04	<0.1	<0.01	1.9	<0.1	0.06	4	<0.5	<0.2
PC11 AP135	Soil			20	0.29	125	0.103	2	1.61	0.018	0.07	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP151	Soil			21	0.32	73	0.134	3	1.47	0.027	0.08	<0.1	<0.01	2.4	<0.1	<0.05	5	0.6	<0.2
PC11 AP152	Soil			17	0.22	72	0.108	3	1.15	0.023	0.05	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP153	Soil			18	0.28	190	0.105	4	1.18	0.023	0.15	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP154	Soil			17	0.27	137	0.105	3	1.13	0.023	0.11	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP155	Soil			22	0.31	107	0.125	3	1.24	0.023	0.11	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP156	Soil			17	0.25	133	0.101	2	1.20	0.016	0.10	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP157	Soil			22	0.33	105	0.131	2	1.07	0.021	0.14	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP158	Soil			25	0.52	114	0.143	3	1.63	0.024	0.17	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP159	Soil			21	0.48	85	0.116	5	1.28	0.026	0.21	<0.1	0.06	3.1	<0.1	0.05	4	<0.5	<0.2
PC11 AP160	Soil			20	0.69	112	0.111	3	1.64	0.032	0.17	<0.1	0.05	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 AP161	Soil			20	0.29	137	0.107	2	1.62	0.023	0.12	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP162	Soil			23	0.33	227	0.097	2	2.01	0.023	0.08	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP163	Soil			24	0.36	72	0.086	6	1.28	0.025	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PC11 AP164	Soil			22	0.24	94	0.106	2	1.06	0.018	0.09	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP165	Soil			26	0.31	75	0.097	3	1.39	0.019	0.07	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP166	Soil			25	0.36	132	0.106	6	1.37	0.025	0.18	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: December 01, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				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	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 AP167	Soil			0.8	14.5	5.2	52	<0.1	13.5	8.1	870	2.48	1.8	<0.5	0.8	35	<0.1	<0.1	<0.1	79	0.53	0.062	3	
PC11 AP168	Soil			0.6	10.0	4.5	73	<0.1	9.4	5.5	726	1.94	1.4	<0.5	0.6	29	<0.1	0.1	<0.1	62	0.36	0.028	3	
PC11 AP169	Soil			0.6	9.2	2.9	68	<0.1	8.0	4.1	507	1.54	0.7	<0.5	0.7	23	<0.1	<0.1	<0.1	50	0.28	0.027	2	
PC11 AP170	Soil			0.6	13.8	3.1	47	<0.1	8.8	5.3	258	2.20	1.1	<0.5	0.7	29	<0.1	<0.1	<0.1	80	0.29	0.026	3	
PC11 AP171	Soil			0.5	14.5	3.7	60	<0.1	9.6	6.3	508	2.44	1.2	1.1	0.8	30	<0.1	<0.1	<0.1	88	0.31	0.025	3	
PC11 AP172	Soil			0.7	35.7	3.6	42	<0.1	15.8	8.2	304	2.88	2.1	1.8	1.3	43	<0.1	0.1	<0.1	111	0.50	0.054	7	
PC11 AP173	Soil			0.6	20.1	3.1	35	<0.1	10.9	6.5	370	2.42	1.1	1.7	1.0	31	<0.1	<0.1	<0.1	87	0.31	0.023	4	
PC11 AP174	Soil			0.5	25.0	2.8	32	<0.1	11.6	7.8	247	2.84	1.3	<0.5	1.4	30	<0.1	<0.1	<0.1	99	0.36	0.043	4	
PC11 AP175	Soil			0.8	30.8	4.5	52	<0.1	15.9	8.6	356	4.11	2.8	<0.5	1.5	51	<0.1	0.2	<0.1	165	0.65	0.081	7	
PC11 AP176	Soil			0.7	24.6	4.0	66	<0.1	15.8	8.9	588	2.92	1.4	2.6	1.1	37	<0.1	0.1	<0.1	107	0.35	0.040	5	
PC11 AP177	Soil			0.4	16.4	3.2	30	<0.1	9.9	6.9	179	2.29	0.9	2.3	1.4	31	<0.1	0.1	<0.1	71	0.36	0.034	3	
PC11 AP178	Soil			0.7	25.4	3.6	34	<0.1	10.5	7.7	366	2.14	0.8	0.6	0.9	51	0.1	<0.1	<0.1	52	0.74	0.035	4	
PC11 AP179	Soil			0.8	22.1	3.6	39	<0.1	12.1	8.4	715	2.07	1.6	1.2	1.0	43	<0.1	0.1	<0.1	57	0.50	0.031	6	
PC11 AP180	Soil			0.7	18.5	3.6	48	<0.1	12.0	6.7	637	1.91	1.8	<0.5	0.8	53	<0.1	<0.1	<0.1	51	0.56	0.049	5	
PC11 AP181	Soil			0.9	23.5	5.5	58	<0.1	10.4	7.4	663	2.64	1.2	<0.5	1.2	38	0.1	0.1	<0.1	74	0.38	0.056	9	
PC11 AP182	Soil			0.9	24.5	5.2	55	<0.1	14.2	9.3	878	2.28	1.2	1.6	1.6	46	<0.1	0.1	<0.1	54	0.48	0.027	11	
PC11 AP183	Soil			0.7	20.1	5.3	51	<0.1	11.4	8.5	665	2.15	1.1	2.0	1.4	46	<0.1	0.1	<0.1	54	0.46	0.040	8	
PC11 AP184	Soil			1.0	12.5	4.6	72	<0.1	9.2	5.8	777	1.78	0.9	<0.5	0.9	36	0.1	0.1	<0.1	50	0.37	0.028	5	
PC11 AP185	Soil			0.8	21.0	5.6	81	<0.1	12.9	7.9	334	2.77	1.7	<0.5	1.6	46	<0.1	0.1	0.1	82	0.38	0.038	7	
PC11 AP186	Soil			0.9	17.8	4.4	73	<0.1	9.9	6.4	528	2.18	1.8	1.0	1.1	33	<0.1	0.1	<0.1	73	0.37	0.029	3	
PC11 AP187	Soil			0.6	20.1	6.2	61	<0.1	9.7	6.5	430	2.17	1.1	1.6	1.7	57	0.1	0.1	0.1	61	0.43	0.020	11	
PC11 AP188	Soil			1.2	12.1	5.0	108	<0.1	9.8	5.7	545	1.88	0.9	<0.5	1.2	41	0.1	0.1	<0.1	43	0.46	0.026	5	
PC11 AP189	Soil			0.6	21.7	7.2	79	<0.1	11.1	7.0	990	2.44	1.9	0.5	2.0	57	0.2	0.1	0.1	64	0.51	0.025	12	
PC11 AP190	Soil			0.7	14.4	4.2	57	<0.1	10.1	6.8	363	2.00	0.9	1.6	1.2	39	<0.1	0.1	<0.1	57	0.36	0.026	5	
PC11 AP191	Soil			0.6	30.6	5.6	71	<0.1	14.6	8.2	623	2.66	1.4	0.6	1.8	51	0.1	0.1	<0.1	76	0.52	0.028	10	
PC11 AP192	Soil			0.6	16.4	3.8	34	<0.1	12.6	6.5	293	2.15	0.8	<0.5	1.2	38	0.1	0.1	<0.1	67	0.37	0.016	6	
PC11 AP193	Soil			0.6	24.0	3.7	53	<0.1	20.5	8.8	480	2.90	1.2	<0.5	1.3	47	<0.1	0.2	<0.1	87	0.53	0.029	9	
PC11 AP194	Soil			0.6	20.3	3.7	74	<0.1	15.5	7.5	630	2.40	0.8	0.6	1.3	41	0.1	0.1	<0.1	74	0.39	0.017	7	
PC11 AP195	Soil			0.5	18.0	3.8	61	<0.1	16.3	8.1	617	2.47	0.9	<0.5	1.3	41	<0.1	0.1	<0.1	77	0.42	0.023	7	
PC11 AP196	Soil			0.7	22.7	4.8	66	<0.1	18.0	9.0	892	2.48	1.2	1.1	1.6	45	0.2	0.1	<0.1	79	0.45	0.018	10	

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Project: Princeton
 Report Date: December 01, 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
		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	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	
PC11 AP167	Soil	23	0.31	123	0.096	4	1.63	0.018	0.09	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP168	Soil	18	0.22	159	0.103	3	1.18	0.022	0.10	<0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP169	Soil	16	0.19	85	0.092	2	0.91	0.017	0.09	<0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PC11 AP170	Soil	20	0.24	103	0.111	2	1.02	0.020	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP171	Soil	23	0.23	109	0.117	2	1.03	0.018	0.09	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP172	Soil	26	0.38	80	0.105	1	1.11	0.021	0.10	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP173	Soil	19	0.27	85	0.100	2	0.94	0.016	0.11	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 AP174	Soil	21	0.29	58	0.084	2	0.98	0.017	0.10	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP175	Soil	34	0.35	105	0.095	4	1.31	0.014	0.15	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP176	Soil	26	0.30	127	0.107	1	1.31	0.019	0.09	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PC11 AP177	Soil	21	0.25	67	0.107	3	1.13	0.020	0.13	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP178	Soil	18	0.32	89	0.090	8	1.26	0.023	0.16	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP179	Soil	19	0.31	135	0.097	3	1.14	0.020	0.16	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP180	Soil	16	0.28	125	0.081	3	1.08	0.017	0.16	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP181	Soil	16	0.33	109	0.068	2	1.23	0.010	0.27	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PC11 AP182	Soil	19	0.36	166	0.113	3	1.50	0.020	0.23	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP183	Soil	19	0.34	145	0.119	3	1.30	0.020	0.19	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP184	Soil	17	0.27	157	0.115	1	1.11	0.017	0.16	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP185	Soil	23	0.32	134	0.133	2	1.91	0.019	0.08	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
PC11 AP186	Soil	20	0.30	148	0.131	3	1.24	0.019	0.16	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP187	Soil	20	0.28	129	0.157	2	1.36	0.031	0.13	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP188	Soil	17	0.24	158	0.121	3	1.43	0.021	0.10	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP189	Soil	19	0.29	184	0.142	4	1.51	0.032	0.24	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP190	Soil	21	0.24	110	0.130	2	1.21	0.022	0.10	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP191	Soil	25	0.31	143	0.144	4	1.47	0.021	0.21	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP192	Soil	23	0.22	81	0.143	2	1.05	0.023	0.12	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP193	Soil	32	0.28	114	0.130	2	1.22	0.034	0.12	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP194	Soil	27	0.24	140	0.137	3	1.10	0.029	0.15	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP195	Soil	27	0.25	150	0.132	3	1.18	0.035	0.14	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP196	Soil	29	0.28	178	0.154	3	1.17	0.030	0.16	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP197	Soil	0.6	20.5	4.1	73	<0.1	16.0	7.8	869	2.19	1.1	1.6	1.3	47	0.1	0.1	<0.1	64	0.49	0.026	8
PC11 AP198	Soil	0.6	21.2	4.7	81	<0.1	17.2	8.1	855	2.28	1.8	<0.5	1.3	54	0.1	0.1	<0.1	61	0.55	0.031	7
PC11 AP199	Soil	0.6	23.6	4.0	71	<0.1	17.2	8.1	676	2.40	1.2	0.7	1.5	49	<0.1	0.1	<0.1	66	0.50	0.030	8
PC11 AP200	Soil	0.5	20.5	3.4	87	<0.1	14.6	6.9	822	2.18	1.0	<0.5	1.2	51	0.1	0.1	<0.1	60	0.59	0.030	7
PCS-015	Rock Pulp	133.1	3701	23.4	63	2.5	36.7	20.4	403	4.17	55.0	450.8	2.1	30	0.6	3.7	0.4	128	0.33	0.091	11
PC11 AP201	Soil	0.6	21.6	3.6	41	<0.1	15.9	8.7	653	2.36	1.1	<0.5	1.4	38	<0.1	0.1	<0.1	77	0.40	0.015	8
PC11 AP202	Soil	0.6	14.1	2.8	46	<0.1	14.8	7.7	549	2.33	0.7	<0.5	1.1	36	<0.1	0.1	<0.1	78	0.38	0.016	6
PC11 AP203	Soil	0.4	21.4	3.4	83	<0.1	15.2	7.4	816	2.34	1.7	<0.5	1.0	52	0.1	0.1	<0.1	71	0.58	0.048	6
PC11 AP204	Soil	0.4	24.5	3.0	52	<0.1	18.6	9.7	507	2.92	1.4	<0.5	1.4	43	<0.1	0.1	<0.1	95	0.49	0.038	7
PC11 AP205	Soil	0.7	61.5	2.3	31	<0.1	25.3	9.7	230	3.67	1.9	1.2	1.4	32	<0.1	0.1	<0.1	129	0.47	0.066	7
PC11 AP206	Soil	0.5	17.4	3.1	58	<0.1	13.9	7.1	422	2.30	1.2	<0.5	1.3	38	<0.1	0.1	<0.1	68	0.41	0.021	6
PC11 AP207	Soil	0.6	30.3	2.8	61	<0.1	21.2	10.5	393	2.98	0.8	0.6	1.3	40	0.1	0.1	<0.1	92	0.48	0.035	8
PC11 AP208	Soil	0.6	53.4	4.0	49	<0.1	31.4	15.9	582	3.13	0.9	1.1	1.7	51	0.1	0.2	<0.1	79	0.59	0.025	11
PC11 AP209	Soil	0.5	28.8	2.6	48	<0.1	20.1	11.3	352	2.78	0.6	0.7	1.5	46	<0.1	0.1	<0.1	72	0.51	0.028	9
PC11 AP210	Soil	0.5	15.0	5.3	69	<0.1	8.6	5.1	510	1.93	1.4	<0.5	1.3	96	0.2	0.1	<0.1	59	0.63	0.025	6
PC11 AP211	Soil	0.4	13.0	3.9	69	<0.1	10.3	5.5	343	2.05	1.2	<0.5	1.3	92	<0.1	<0.1	<0.1	59	0.50	0.019	8
PC11 AP212	Soil	0.5	17.8	5.3	67	<0.1	12.3	6.9	834	2.14	1.0	<0.5	1.5	90	0.1	0.1	<0.1	66	0.51	0.020	10
PC11 AP213	Soil	0.4	18.1	4.7	84	<0.1	14.0	7.3	516	2.46	1.1	<0.5	1.6	100	<0.1	0.1	<0.1	71	0.56	0.032	9
PC11 AP214	Soil	0.6	12.2	3.8	77	<0.1	8.6	4.5	581	1.74	0.8	<0.5	0.9	64	<0.1	<0.1	<0.1	52	0.39	0.021	5
PC11 AP215	Soil	0.5	20.5	5.1	54	<0.1	14.5	8.2	603	2.61	1.6	<0.5	1.6	116	<0.1	0.1	<0.1	90	0.52	0.021	12
PC11 AP216	Soil	0.3	16.6	4.4	55	<0.1	11.2	6.0	286	2.46	1.0	<0.5	1.5	113	<0.1	0.1	<0.1	83	0.49	0.019	9
PC11 AP217	Soil	0.4	13.1	4.6	60	<0.1	12.0	6.5	557	2.08	0.9	<0.5	1.4	92	<0.1	0.1	<0.1	69	0.48	0.012	8
PC11 AP218	Soil	0.3	15.2	4.8	66	<0.1	12.1	6.4	447	2.23	1.1	<0.5	1.6	107	0.1	0.1	<0.1	81	0.49	0.019	10
PC11 AP219	Soil	0.4	15.7	4.0	101	<0.1	11.9	6.2	655	2.17	1.2	<0.5	1.2	64	<0.1	0.1	<0.1	65	0.48	0.023	7
PC11 AP220	Soil	0.3	17.0	4.7	63	<0.1	12.8	7.0	535	2.36	0.6	7.7	1.6	93	<0.1	0.1	<0.1	74	0.47	0.017	11
PC11 AP221	Soil	0.4	14.0	5.8	68	<0.1	11.5	6.1	522	2.18	1.1	1.3	1.6	97	<0.1	0.1	<0.1	67	0.59	0.022	11
PC11 AP222	Soil	0.4	19.2	5.5	69	<0.1	20.4	9.8	808	2.55	0.8	<0.5	1.5	121	<0.1	0.1	<0.1	80	0.56	0.014	14
PC11 AP223	Soil	0.5	15.0	5.3	61	<0.1	14.7	8.1	712	2.29	<0.5	<0.5	1.3	105	0.1	<0.1	<0.1	84	0.46	0.014	10
PC11 AP224	Soil	0.3	23.6	5.3	69	<0.1	20.0	9.2	737	2.75	1.1	0.5	1.5	106	<0.1	0.1	<0.1	85	0.55	0.016	11
PC11 AP225	Soil	0.4	17.4	4.5	73	<0.1	16.7	7.1	599	2.17	1.2	3.1	1.5	68	<0.1	0.1	<0.1	59	0.47	0.023	9

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Project: Princeton
 Report Date: December 01, 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	
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
PC11 AP197	Soil	23	0.26	175	0.123	3	1.14	0.026	0.16	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP198	Soil	25	0.25	196	0.130	3	1.28	0.028	0.18	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP199	Soil	27	0.29	186	0.133	3	1.21	0.031	0.19	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP200	Soil	24	0.25	182	0.117	4	1.12	0.026	0.19	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
PCS-015	Rock Pulp	53	0.93	46	0.118	2	1.47	0.051	0.92	4.0	0.07	10.7	0.5	2.06	6	6.5	0.7
PC11 AP201	Soil	26	0.23	104	0.130	2	1.02	0.027	0.13	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 AP202	Soil	25	0.21	113	0.123	2	0.92	0.024	0.11	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 AP203	Soil	25	0.25	177	0.107	5	1.03	0.024	0.21	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 AP204	Soil	33	0.26	117	0.123	3	1.19	0.023	0.13	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP205	Soil	31	0.50	47	0.075	1	0.85	0.021	0.05	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP206	Soil	27	0.23	111	0.128	3	1.10	0.027	0.16	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP207	Soil	32	0.30	98	0.124	3	1.18	0.029	0.13	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP208	Soil	31	0.41	94	0.148	3	1.44	0.044	0.22	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 AP209	Soil	29	0.30	65	0.155	2	1.10	0.048	0.14	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP210	Soil	19	0.25	104	0.154	4	1.17	0.028	0.23	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP211	Soil	19	0.25	98	0.154	3	1.39	0.029	0.21	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP212	Soil	23	0.26	110	0.155	2	1.24	0.030	0.24	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP213	Soil	27	0.33	104	0.198	4	1.57	0.032	0.21	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP214	Soil	17	0.23	100	0.147	2	1.16	0.028	0.18	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP215	Soil	28	0.30	80	0.199	2	1.45	0.031	0.19	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
PC11 AP216	Soil	26	0.27	78	0.211	2	1.47	0.033	0.20	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP217	Soil	24	0.26	89	0.199	2	1.29	0.029	0.18	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP218	Soil	24	0.25	85	0.224	2	1.17	0.033	0.19	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP219	Soil	22	0.26	127	0.154	3	1.26	0.024	0.20	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP220	Soil	23	0.32	79	0.193	3	1.35	0.023	0.20	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP221	Soil	21	0.31	92	0.195	3	1.34	0.022	0.20	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 AP222	Soil	30	0.38	92	0.234	2	1.63	0.023	0.21	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 AP223	Soil	27	0.32	89	0.223	2	1.25	0.029	0.20	<0.1	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP224	Soil	31	0.39	85	0.235	2	1.59	0.028	0.24	<0.1	0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 AP225	Soil	26	0.32	118	0.174	3	1.38	0.024	0.20	<0.1	0.02	4.0	<0.1	<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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP226	Soil		0.4	18.0	4.1	70	<0.1	16.3	7.4	596	2.30	0.7	<0.5	1.4	78	0.1	0.1	<0.1	68	0.44	0.015	8
PC11 AP227	Soil		0.3	16.5	4.1	63	<0.1	13.6	6.4	365	2.15	1.4	<0.5	1.3	75	<0.1	0.1	<0.1	62	0.42	0.024	7
PC11 AP228	Soil		0.4	22.7	5.4	86	<0.1	15.0	8.6	613	2.62	1.0	<0.5	1.4	167	0.1	0.1	<0.1	75	0.55	0.017	10
PC11 AP229	Soil		0.4	40.1	4.3	64	<0.1	23.4	9.1	305	3.53	1.3	<0.5	1.8	109	0.1	0.1	<0.1	87	0.68	0.029	12
PC11 AP230	Soil		0.4	20.6	5.3	93	<0.1	15.5	6.8	410	2.50	1.5	1.7	1.4	70	0.1	0.1	<0.1	71	0.53	0.024	8
PC11 AP231	Soil		0.4	23.5	7.2	72	<0.1	17.6	9.1	673	2.75	2.2	<0.5	1.5	106	0.3	0.1	<0.1	84	0.56	0.031	10
PC11 AP232	Soil		0.4	18.9	5.2	73	<0.1	17.7	8.7	530	2.58	1.4	<0.5	1.6	93	0.1	0.1	<0.1	83	0.51	0.017	10
PC11 AP233	Soil		0.5	16.9	4.9	87	<0.1	16.9	7.3	419	2.36	1.5	<0.5	1.4	65	0.1	0.1	<0.1	59	0.46	0.016	6
PC11 AP234	Soil		0.6	22.2	5.8	82	<0.1	22.1	9.4	588	2.79	1.6	1.9	1.7	72	0.2	0.2	<0.1	71	0.53	0.022	10
PC11 AP235	Soil		0.5	14.0	7.5	113	<0.1	14.7	6.3	951	2.29	2.1	<0.5	1.6	79	0.2	0.1	<0.1	57	0.72	0.052	11
PC11 AP236	Soil		0.5	14.9	5.6	83	<0.1	17.7	7.3	674	2.33	1.0	<0.5	1.3	57	0.2	0.1	<0.1	65	0.49	0.016	9
PC11 AP237	Soil		0.4	13.7	5.8	54	<0.1	15.8	6.3	454	1.99	0.7	<0.5	1.5	83	0.2	0.1	<0.1	54	0.44	0.017	12
PC11 AP238	Soil		0.4	8.8	5.1	65	<0.1	9.7	5.1	389	1.74	0.7	1.5	1.1	61	<0.1	<0.1	<0.1	45	0.40	0.015	5
PC11 AP239	Soil		0.6	10.7	9.2	64	<0.1	8.9	3.9	628	1.76	1.0	<0.5	3.3	57	0.1	0.2	<0.1	31	0.55	0.022	22
PC11 AP240	Soil		0.4	11.8	5.6	109	<0.1	14.1	5.7	462	2.01	1.0	<0.5	1.4	72	0.2	<0.1	<0.1	47	0.46	0.020	9
PC11 AP241	Soil		0.4	19.0	8.1	82	<0.1	19.4	8.4	625	2.77	1.5	<0.5	1.7	65	0.2	0.1	<0.1	71	0.58	0.032	13
PC11 AP242	Soil		0.4	14.1	6.5	58	<0.1	11.8	5.4	412	1.93	0.7	<0.5	1.7	65	<0.1	0.1	<0.1	49	0.45	0.013	13
PC11 AP243	Soil		0.4	11.1	6.3	48	<0.1	11.0	5.8	523	1.82	<0.5	<0.5	1.2	150	<0.1	<0.1	<0.1	47	0.43	0.012	8
PC11 AP244	Soil		0.4	16.0	5.8	97	<0.1	16.9	7.0	664	2.41	1.6	1.1	1.8	98	0.1	0.1	<0.1	61	0.60	0.036	12
PC11 AP245	Soil		0.6	37.9	7.0	66	<0.1	26.3	14.2	607	3.48	2.5	0.5	1.5	106	0.2	0.1	<0.1	115	0.95	0.024	11
PC11 AP246	Soil		0.4	22.5	4.9	75	<0.1	28.6	10.3	570	2.93	1.4	<0.5	1.4	74	0.1	0.1	<0.1	85	0.63	0.025	9
PC11 AP247	Soil		0.4	32.5	5.9	73	<0.1	21.1	12.5	593	3.49	2.0	6.3	1.4	77	0.2	0.3	<0.1	84	0.94	0.038	11
PC11 AP248	Soil		0.4	29.0	6.5	71	<0.1	21.6	11.1	523	2.95	1.7	2.0	1.3	71	0.2	0.2	<0.1	80	0.71	0.026	11
PC11 AP249	Soil		0.5	22.7	7.3	82	<0.1	22.3	9.8	648	2.68	1.5	<0.5	1.6	63	0.2	0.2	<0.1	71	0.58	0.019	10
PC11 AP250	Soil		0.3	22.2	5.7	80	<0.1	21.1	9.7	619	2.63	0.9	<0.5	1.6	86	0.2	0.1	<0.1	63	0.60	0.014	9
PCS-017	Rock Pulp		120.7	3654	23.8	63	2.5	37.1	19.9	399	4.34	56.1	460.6	2.0	29	0.2	3.7	0.4	122	0.32	0.093	10
PC11 AP251	Soil		0.6	19.0	4.9	81	<0.1	19.7	9.0	698	2.26	1.0	0.9	1.4	53	0.2	0.2	0.1	56	0.45	0.016	8
PC11 AP252	Soil		0.4	23.8	4.6	67	<0.1	19.7	8.8	421	2.41	1.2	1.3	1.4	59	<0.1	0.2	<0.1	64	0.50	0.026	9
PC11 AP253	Soil		0.5	20.1	4.9	87	<0.1	18.0	9.0	604	2.59	1.8	1.1	1.3	61	0.1	0.2	<0.1	68	0.52	0.022	9
PC11 AP254	Soil		0.8	18.1	6.0	72	<0.1	18.0	9.3	728	2.44	2.2	0.8	1.4	51	0.1	0.2	<0.1	68	0.47	0.017	11

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				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		
				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	
PC11 AP226	Soil			28	0.32	111	0.174	3	1.24	0.030	0.24	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP227	Soil			26	0.28	88	0.173	4	1.20	0.024	0.20	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP228	Soil			29	0.44	134	0.222	3	1.81	0.020	0.20	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 AP229	Soil			40	0.58	82	0.203	3	2.57	0.028	0.19	<0.1	0.01	8.1	<0.1	<0.05	8	<0.5	<0.2
PC11 AP230	Soil			31	0.34	101	0.188	4	1.46	0.027	0.21	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP231	Soil			33	0.38	102	0.193	4	1.59	0.032	0.23	<0.1	0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP232	Soil			35	0.36	94	0.213	2	1.48	0.028	0.20	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP233	Soil			32	0.39	127	0.175	3	1.57	0.027	0.17	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 AP234	Soil			41	0.48	127	0.200	3	2.09	0.026	0.23	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 AP235	Soil			33	0.31	122	0.145	6	1.83	0.021	0.21	<0.1	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP236	Soil			37	0.35	110	0.163	2	1.47	0.029	0.13	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP237	Soil			29	0.29	114	0.145	2	1.32	0.027	0.19	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP238	Soil			23	0.23	120	0.141	2	1.13	0.025	0.09	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP239	Soil			14	0.25	72	0.048	3	1.64	0.014	0.19	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PC11 AP240	Soil			28	0.29	98	0.145	3	1.52	0.027	0.16	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP241	Soil			35	0.38	95	0.161	3	1.83	0.025	0.20	<0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 AP242	Soil			25	0.26	91	0.141	3	1.30	0.022	0.15	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP243	Soil			24	0.33	149	0.107	6	1.32	0.056	0.24	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP244	Soil			33	0.37	119	0.161	7	1.79	0.025	0.23	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP245	Soil			48	0.82	84	0.268	2	2.73	0.041	0.16	<0.1	0.02	8.1	<0.1	<0.05	8	<0.5	<0.2
PC11 AP246	Soil			52	0.62	102	0.227	4	2.05	0.033	0.18	<0.1	0.02	6.8	<0.1	<0.05	6	<0.5	<0.2
PC11 AP247	Soil			38	0.75	116	0.234	6	2.56	0.021	0.43	<0.1	0.02	7.2	<0.1	<0.05	7	<0.5	<0.2
PC11 AP248	Soil			34	0.63	116	0.205	3	2.08	0.024	0.27	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 AP249	Soil			34	0.46	110	0.169	4	1.80	0.031	0.21	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP250	Soil			31	0.70	124	0.150	6	1.87	0.051	0.26	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PCS-017	Rock Pulp			53	0.92	45	0.116	2	1.39	0.040	0.87	3.9	0.07	9.7	0.5	1.97	5	6.2	0.9
PC11 AP251	Soil			28	0.41	126	0.133	3	1.52	0.023	0.21	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP252	Soil			33	0.51	90	0.148	4	1.45	0.028	0.29	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP253	Soil			35	0.52	116	0.162	5	1.57	0.024	0.27	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 AP254	Soil			30	0.39	99	0.158	2	1.30	0.025	0.19	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2



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Project: Princeton
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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP255	Soil	0.5	17.7	5.2	69	<0.1	21.4	8.9	678	2.47	3.0	<0.5	1.3	55	0.2	0.2	<0.1	65	0.52	0.016	9
PC11 AP256	Soil	0.4	20.0	4.5	85	<0.1	18.1	7.3	449	2.51	3.3	0.8	1.4	57	0.1	0.2	<0.1	64	0.52	0.023	9
PC11 AP257	Soil	0.6	20.3	6.0	71	<0.1	20.4	8.9	687	2.62	2.3	2.8	1.5	58	0.1	0.2	<0.1	63	0.52	0.023	11
PC11 AP258	Soil	0.5	23.1	19.1	75	0.2	16.5	8.1	1233	2.55	4.5	6.7	1.4	87	0.3	0.3	<0.1	55	1.20	0.042	13
PC11 AP259	Soil	0.6	33.6	8.5	45	0.2	18.3	7.6	349	2.88	3.0	<0.5	1.8	77	<0.1	0.3	<0.1	64	0.91	0.030	11
PC11 AP260	Soil	0.7	36.2	4.7	58	<0.1	26.3	11.1	588	3.06	2.6	0.8	1.4	112	0.2	0.3	<0.1	82	0.91	0.028	8
PC11 AP261	Soil	0.5	58.5	6.6	53	0.3	18.8	10.9	518	3.23	9.9	10.0	1.7	88	0.1	0.3	<0.1	73	1.08	0.036	11
PC11 AP262	Soil	0.5	37.2	5.3	54	<0.1	16.2	8.8	423	3.08	4.3	1.8	1.3	67	<0.1	0.2	<0.1	67	0.66	0.027	10
PC11 AP263	Soil	1.3	35.6	5.6	57	<0.1	15.7	10.3	566	2.86	8.6	5.1	1.0	78	0.1	0.2	<0.1	74	0.77	0.026	10
PC11 AP264	Soil	0.2	56.5	2.5	50	0.3	21.0	13.8	652	3.09	4.2	5.2	0.6	230	0.1	0.1	<0.1	98	5.97	0.059	6
PC11 AP265	Soil	0.4	66.6	3.4	73	<0.1	29.4	19.4	784	4.34	2.3	1.1	0.9	140	0.1	0.1	<0.1	120	1.65	0.047	6
PC11 AP266	Soil	0.7	41.9	4.0	48	<0.1	23.2	10.6	478	2.88	4.7	2.4	1.3	119	0.1	0.3	<0.1	97	2.62	0.077	9
PC11 AP267	Soil	0.9	68.0	4.7	57	0.2	26.0	13.2	562	3.60	4.0	11.3	1.7	95	0.1	0.3	<0.1	105	1.18	0.072	10
PC11 AP268	Soil	1.0	40.5	4.3	70	<0.1	19.9	11.7	720	2.99	3.2	0.9	1.4	84	0.1	0.2	<0.1	81	0.71	0.027	10
PC11 AP269	Soil	0.7	40.0	4.5	60	<0.1	22.6	11.1	560	3.02	2.5	1.9	1.5	73	0.1	0.2	<0.1	81	0.70	0.029	10
PC11 AP270	Soil	0.6	61.7	4.7	55	<0.1	23.4	12.4	591	3.19	2.6	3.2	1.8	84	0.1	0.2	<0.1	87	0.80	0.053	10
PC11 AP271	Soil	0.7	41.6	4.2	57	<0.1	26.1	12.1	551	3.04	3.2	1.9	1.2	83	0.1	0.3	<0.1	82	0.79	0.065	8



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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		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PC11 AP255	Soil			29	0.48	127	0.120	2	1.45	0.027	0.20	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP256	Soil			31	0.41	107	0.137	4	1.56	0.030	0.23	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP257	Soil			31	0.44	98	0.135	3	1.64	0.025	0.24	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
PC11 AP258	Soil			22	0.46	653	0.138	7	2.60	0.021	0.36	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
PC11 AP259	Soil			26	0.56	142	0.151	5	2.37	0.033	0.18	<0.1	0.03	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 AP260	Soil			34	0.81	93	0.167	2	2.36	0.034	0.16	<0.1	<0.01	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 AP261	Soil			24	0.81	99	0.165	2	2.62	0.037	0.14	<0.1	0.04	6.3	<0.1	<0.05	8	<0.5	<0.2
PC11 AP262	Soil			26	0.62	68	0.135	7	1.92	0.026	0.36	<0.1	0.01	5.2	<0.1	<0.05	7	<0.5	<0.2
PC11 AP263	Soil			23	0.66	63	0.137	4	1.86	0.030	0.26	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
PC11 AP264	Soil			34	1.28	37	0.104	3	3.73	0.032	0.15	<0.1	0.02	6.8	<0.1	<0.05	9	<0.5	<0.2
PC11 AP265	Soil			36	1.87	50	0.166	6	3.93	0.031	0.35	<0.1	0.01	8.7	<0.1	<0.05	11	<0.5	<0.2
PC11 AP266	Soil			31	0.81	68	0.135	2	1.53	0.071	0.07	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 AP267	Soil			35	0.90	82	0.128	4	2.10	0.041	0.19	<0.1	0.03	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 AP268	Soil			30	0.62	98	0.139	5	1.72	0.034	0.31	0.2	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 AP269	Soil			33	0.64	91	0.142	4	1.83	0.033	0.31	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP270	Soil			32	0.75	92	0.123	3	1.98	0.033	0.24	<0.1	0.02	5.6	<0.1	<0.05	6	<0.5	<0.2
PC11 AP271	Soil			38	0.85	116	0.131	3	1.71	0.028	0.20	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PC11 AP04	Soil	0.4	21.1	3.7	59	<0.1	13.3	8.3	471	2.49	1.5	<0.5	1.2	79	0.1	0.1	<0.1	75	0.55	0.037	8
REP PC11 AP04	QC	0.4	22.1	3.6	58	<0.1	14.2	8.3	475	2.51	1.4	1.8	1.2	81	<0.1	0.1	<0.1	74	0.55	0.036	8
PC11 AP66	Soil	0.6	17.0	4.0	68	<0.1	9.4	5.7	368	1.84	1.7	<0.5	1.1	49	<0.1	<0.1	<0.1	54	0.31	0.048	4
REP PC11 AP66	QC	0.6	17.8	4.1	68	<0.1	9.8	5.5	376	1.87	1.7	3.2	1.1	51	0.1	0.1	<0.1	55	0.31	0.045	4
PC11 AP86	Soil	0.7	18.9	4.7	75	<0.1	12.6	6.1	723	1.89	3.5	0.8	1.7	92	0.2	<0.1	<0.1	49	0.52	0.039	7
REP PC11 AP86	QC	0.7	19.4	4.7	76	<0.1	12.2	6.1	726	1.89	3.5	<0.5	1.5	91	0.1	<0.1	<0.1	49	0.52	0.036	7
PC11 AP133	Soil	0.5	12.0	4.1	42	<0.1	8.2	5.1	271	1.82	1.4	<0.5	1.0	20	<0.1	<0.1	<0.1	60	0.26	0.028	3
REP PC11 AP133	QC	0.5	11.6	4.1	41	<0.1	7.9	5.2	262	1.77	1.3	1.1	0.8	19	<0.1	<0.1	<0.1	58	0.24	0.029	2
PC11 AP152	Soil	0.8	8.4	3.1	57	<0.1	8.0	4.0	225	1.54	0.7	3.2	0.6	26	<0.1	0.1	0.1	42	0.23	0.026	2
REP PC11 AP152	QC	0.8	8.7	3.4	62	<0.1	8.3	4.3	243	1.62	0.8	3.0	0.6	26	0.1	0.1	0.1	44	0.24	0.028	3
PC11 AP170	Soil	0.6	13.8	3.1	47	<0.1	8.8	5.3	258	2.20	1.1	<0.5	0.7	29	<0.1	<0.1	<0.1	80	0.29	0.026	3
REP PC11 AP170	QC	0.6	13.3	2.8	45	<0.1	9.1	5.2	263	2.03	0.6	0.9	0.7	27	<0.1	<0.1	<0.1	74	0.26	0.024	2
PC11 AP192	Soil	0.6	16.4	3.8	34	<0.1	12.6	6.5	293	2.15	0.8	<0.5	1.2	38	0.1	0.1	<0.1	67	0.37	0.016	6
REP PC11 AP192	QC	0.6	15.9	3.7	34	<0.1	11.4	6.6	276	2.10	0.6	1.2	1.2	38	<0.1	0.1	<0.1	67	0.35	0.017	6
PC11 AP217	Soil	0.4	13.1	4.6	60	<0.1	12.0	6.5	557	2.08	0.9	<0.5	1.4	92	<0.1	0.1	<0.1	69	0.48	0.012	8
REP PC11 AP217	QC	0.5	13.9	4.7	59	<0.1	11.8	6.7	552	2.08	0.9	<0.5	1.3	93	<0.1	0.1	<0.1	70	0.47	0.013	8
PC11 AP221	Soil	0.4	14.0	5.8	68	<0.1	11.5	6.1	522	2.18	1.1	1.3	1.6	97	<0.1	0.1	<0.1	67	0.59	0.022	11
REP PC11 AP221	QC	0.4	13.2	5.9	68	<0.1	11.7	6.1	513	2.16	1.0	<0.5	1.5	95	<0.1	0.1	<0.1	63	0.58	0.023	11
PC11 AP245	Soil	0.6	37.9	7.0	66	<0.1	26.3	14.2	607	3.48	2.5	0.5	1.5	106	0.2	0.1	<0.1	115	0.95	0.024	11
REP PC11 AP245	QC	0.6	36.5	6.4	66	<0.1	25.9	13.6	587	3.30	2.4	<0.5	1.4	107	0.2	0.1	<0.1	107	0.91	0.023	11
PC11 AP258	Soil	0.5	23.1	19.1	75	0.2	16.5	8.1	1233	2.55	4.5	6.7	1.4	87	0.3	0.3	<0.1	55	1.20	0.042	13
REP PC11 AP258	QC	0.6	23.2	18.8	73	0.2	15.5	7.9	1211	2.44	4.5	9.6	1.3	84	0.3	0.3	<0.1	52	1.20	0.042	12
Reference Materials																					
STD DS8	Standard	13.1	101.8	123.1	296	1.8	35.7	7.0	590	2.35	24.2	102.6	6.8	67	2.3	5.4	6.5	41	0.68	0.077	15
STD DS8	Standard	12.7	106.1	122.2	301	1.8	36.2	7.0	578	2.36	24.7	113.1	6.6	64	2.2	5.4	6.0	41	0.65	0.075	14
STD DS8	Standard	14.1	112.8	126.4	309	1.7	40.6	7.9	613	2.50	25.9	113.6	7.2	72	2.2	5.5	6.7	45	0.71	0.076	16
STD DS8	Standard	13.7	108.7	124.5	299	1.8	36.5	7.3	639	2.47	26.3	104.0	7.1	74	2.3	5.8	6.6	38	0.75	0.076	18
STD DS8	Standard	13.3	111.7	118.0	308	1.8	38.6	7.4	596	2.46	25.8	125.8	7.1	71	2.3	5.9	6.8	41	0.67	0.080	15

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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QUALITY CONTROL REPORT

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		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	
Pulp Duplicates																	
PC11 AP04	Soil	25	0.41	73	0.116	3	1.50	0.017	0.23	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
REP PC11 AP04	QC	25	0.42	74	0.117	4	1.54	0.017	0.22	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP66	Soil	19	0.24	103	0.104	2	1.25	0.017	0.14	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP66	QC	19	0.24	106	0.105	3	1.22	0.018	0.13	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 AP86	Soil	21	0.30	107	0.095	4	1.33	0.023	0.19	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP86	QC	21	0.30	105	0.097	4	1.33	0.025	0.19	<0.1	0.02	3.6	<0.1	<0.05	4	0.7	<0.2
PC11 AP133	Soil	17	0.22	115	0.087	1	1.04	0.015	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP133	QC	16	0.21	109	0.085	<1	1.01	0.014	0.05	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP152	Soil	17	0.22	72	0.108	3	1.15	0.023	0.05	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP152	QC	17	0.23	74	0.109	2	1.22	0.025	0.05	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP170	Soil	20	0.24	103	0.111	2	1.02	0.020	0.08	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP170	QC	20	0.21	103	0.098	1	0.91	0.016	0.08	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PC11 AP192	Soil	23	0.22	81	0.143	2	1.05	0.023	0.12	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP192	QC	23	0.22	83	0.141	2	1.06	0.024	0.12	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP217	Soil	24	0.26	89	0.199	2	1.29	0.029	0.18	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP217	QC	24	0.27	94	0.201	2	1.34	0.033	0.19	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP221	Soil	21	0.31	92	0.195	3	1.34	0.022	0.20	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
REP PC11 AP221	QC	21	0.31	94	0.189	3	1.36	0.022	0.20	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP245	Soil	48	0.82	84	0.268	2	2.73	0.041	0.16	<0.1	0.02	8.1	<0.1	<0.05	8	<0.5	<0.2
REP PC11 AP245	QC	45	0.80	83	0.255	2	2.64	0.036	0.15	<0.1	0.02	8.0	<0.1	<0.05	8	<0.5	<0.2
PC11 AP258	Soil	22	0.46	653	0.138	7	2.60	0.021	0.36	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
REP PC11 AP258	QC	21	0.46	625	0.125	5	2.65	0.020	0.35	<0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	109	0.59	275	0.113	3	0.91	0.093	0.40	2.9	0.19	2.3	5.3	0.12	5	4.8	4.6
STD DS8	Standard	114	0.55	266	0.109	2	0.85	0.097	0.39	3.0	0.21	2.8	5.1	0.08	4	4.7	5.6
STD DS8	Standard	118	0.62	273	0.131	3	0.89	0.097	0.41	2.9	0.19	2.2	5.4	0.17	5	5.2	4.7
STD DS8	Standard	117	0.61	282	0.131	2	0.96	0.097	0.43	2.9	0.20	2.5	5.2	0.21	5	4.9	5.3
STD DS8	Standard	114	0.60	273	0.121	3	0.94	0.095	0.41	2.9	0.19	2.2	5.2	0.14	5	4.7	5.0

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Project: Princeton

Report Date: December 01, 2011

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QUALITY CONTROL REPORT

VAN11005755.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	12.3	112.0	134.2	323	2.0	38.9	7.7	638	2.51	27.9	114.5	7.5	60	2.8	4.6	5.4	43	0.69	0.082	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Princeton

Report Date: December 01, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005755.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	117	0.63	274	0.112	3	0.90	0.094	0.43	2.8	0.18	2.7	5.4	0.19	5	6.2	4.8
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 25, 2011
Report Date: November 10, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11005974.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 273

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	273	Dry at 60C			VAN
SS80	269	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	273	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: Princeton
 Report Date: November 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11005974.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		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	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 DH01	Soil	0.8	15.6	4.2	72	<0.1	9.9	6.3	514	1.68	2.1	<0.5	1.3	52	<0.1	<0.1	0.1	41	0.38	0.047	4
PC11 DH02	Soil	0.8	18.7	4.5	39	<0.1	10.6	6.3	439	1.68	2.3	<0.5	0.9	65	<0.1	<0.1	<0.1	37	0.65	0.038	5
PC11 DH03	Soil	0.9	26.4	5.3	67	<0.1	11.9	6.7	660	1.84	2.0	<0.5	1.2	67	0.1	<0.1	<0.1	40	0.60	0.052	7
PC11 DH04	Soil	1.0	21.9	4.4	53	<0.1	9.0	6.1	721	1.67	2.1	<0.5	0.9	59	0.1	<0.1	<0.1	44	0.47	0.045	6
PC11 DH05	Soil	0.7	14.3	4.3	46	<0.1	8.4	5.1	428	1.61	1.5	<0.5	1.1	60	0.1	<0.1	<0.1	45	0.43	0.028	5
PC11 DH06	Soil	1.7	13.7	4.1	67	<0.1	8.8	5.3	905	1.60	2.3	<0.5	0.6	90	<0.1	<0.1	<0.1	43	0.56	0.099	3
PC11 DH07	Soil	1.2	14.8	3.6	43	<0.1	7.2	5.1	740	1.53	2.3	<0.5	1.1	69	<0.1	<0.1	<0.1	44	0.42	0.028	5
PC11 DH08	Soil	0.5	14.3	3.7	79	<0.1	9.3	5.0	544	1.76	2.4	1.1	1.1	84	<0.1	0.1	<0.1	50	0.48	0.038	5
PC11 DH09	Soil	0.5	16.7	3.6	55	<0.1	9.5	5.8	580	2.01	2.5	<0.5	1.3	94	<0.1	<0.1	<0.1	61	0.45	0.029	6
PC11 DH10	Soil	0.8	16.9	3.8	49	<0.1	9.2	6.5	609	1.82	2.2	0.8	1.2	83	<0.1	<0.1	<0.1	56	0.46	0.033	6
PC11 DH11	Soil	0.7	24.2	4.1	81	<0.1	12.4	6.4	680	2.05	3.4	<0.5	1.5	82	0.1	<0.1	<0.1	52	0.58	0.035	7
PC11 DH12	Soil	0.8	24.4	4.0	56	<0.1	14.4	7.4	397	2.43	3.2	<0.5	1.6	87	<0.1	0.1	<0.1	68	0.48	0.031	8
PC11 DH13	Soil	0.6	22.4	4.0	41	<0.1	12.1	7.4	302	2.30	2.4	<0.5	1.6	95	<0.1	<0.1	<0.1	69	0.46	0.022	9
PC11 DH14	Soil	0.5	22.7	4.5	57	<0.1	11.0	7.8	551	2.25	2.1	<0.5	1.7	108	<0.1	0.1	<0.1	63	0.65	0.028	9
PC11 DH15	Soil	0.5	82.7	3.5	47	<0.1	22.2	12.1	534	2.71	5.8	1.3	1.5	147	0.2	0.2	<0.1	79	4.00	0.115	9
PC11 DH16	Soil	0.5	15.3	4.0	56	<0.1	7.1	7.2	556	2.02	1.8	1.2	1.3	115	<0.1	0.1	<0.1	56	0.59	0.024	7
PC11 DH17	Soil	0.5	18.7	4.2	67	<0.1	10.6	6.5	686	2.11	1.6	0.9	1.3	77	0.1	<0.1	<0.1	57	0.48	0.025	8
PC11 DH18	Soil	0.6	15.1	4.3	49	<0.1	9.8	6.0	447	2.07	1.3	1.3	1.5	95	<0.1	<0.1	<0.1	63	0.53	0.020	9
PC11 DH19	Soil	0.5	12.7	3.4	62	<0.1	7.0	4.7	384	1.84	1.1	<0.5	1.1	60	<0.1	<0.1	<0.1	50	0.41	0.021	6
PC11 DH20	Soil	0.5	10.9	3.7	75	<0.1	9.3	5.6	508	1.94	1.4	0.9	1.2	70	<0.1	<0.1	<0.1	57	0.37	0.027	6
PC11 DH21	Soil	0.4	16.8	4.5	49	<0.1	9.0	5.6	225	2.01	1.0	<0.5	1.5	68	<0.1	0.1	<0.1	59	0.41	0.015	8
PC11 DH22	Soil	0.6	10.9	3.3	53	<0.1	5.9	4.2	324	1.55	0.9	<0.5	0.9	58	<0.1	0.1	<0.1	45	0.41	0.013	4
PC11 DH23	Soil	0.3	13.4	3.9	87	<0.1	9.6	4.9	397	1.94	1.5	0.6	1.2	71	<0.1	0.1	<0.1	51	0.43	0.036	7
PC11 DH24	Soil	0.4	12.1	4.2	55	<0.1	10.0	5.8	362	2.06	1.1	<0.5	1.4	78	<0.1	<0.1	<0.1	59	0.45	0.018	8
PC11 DH25	Soil	0.4	13.0	3.9	40	<0.1	8.3	5.0	267	1.95	0.8	<0.5	1.3	96	<0.1	<0.1	<0.1	66	0.40	0.007	8
PC11 DH26	Soil	0.4	19.3	4.1	62	<0.1	12.0	7.9	603	2.49	1.3	0.7	1.3	129	0.1	0.1	<0.1	85	0.54	0.015	10
PC11 DH27	Soil	0.4	15.4	3.9	55	<0.1	12.3	7.2	462	2.38	1.1	<0.5	1.4	95	<0.1	0.1	<0.1	72	0.46	0.011	9
PC11 DH28	Soil	0.3	15.2	3.8	62	<0.1	12.6	6.4	334	2.31	1.0	0.7	1.3	95	<0.1	0.1	<0.1	71	0.54	0.018	9
PC11 DH29	Soil	0.4	14.9	4.3	62	<0.1	12.6	6.7	441	2.19	1.3	<0.5	1.4	89	<0.1	0.1	<0.1	74	0.45	0.020	10
PC11 DH30	Soil	0.4	14.0	4.1	49	<0.1	14.4	5.6	278	2.11	1.0	<0.5	1.3	81	0.1	0.1	<0.1	63	0.43	0.019	10

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Project: Princeton
 Report Date: November 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11005974.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	Unit	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	MDL	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	
PC11 DH01	Soil	19	0.28	138	0.098	3	1.28	0.020	0.16	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH02	Soil	17	0.32	109	0.086	4	1.42	0.019	0.14	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH03	Soil	19	0.36	132	0.093	3	1.58	0.020	0.12	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 DH04	Soil	16	0.28	112	0.090	3	1.20	0.018	0.13	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH05	Soil	15	0.26	100	0.103	3	1.18	0.024	0.11	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH06	Soil	14	0.26	120	0.093	4	1.30	0.016	0.19	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH07	Soil	14	0.20	108	0.102	2	1.01	0.021	0.13	<0.1	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 DH08	Soil	18	0.28	122	0.121	4	1.32	0.025	0.23	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH09	Soil	20	0.29	123	0.132	3	1.22	0.024	0.17	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH10	Soil	18	0.29	105	0.119	2	1.17	0.022	0.19	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH11	Soil	23	0.31	118	0.105	4	1.48	0.023	0.26	<0.1	0.02	4.1	<0.1	<0.05	4	0.5	<0.2
PC11 DH12	Soil	26	0.32	101	0.115	3	1.46	0.026	0.19	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH13	Soil	23	0.34	107	0.133	2	1.36	0.028	0.17	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH14	Soil	20	0.33	107	0.133	4	1.50	0.023	0.25	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH15	Soil	25	0.78	100	0.098	5	1.60	0.041	0.17	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH16	Soil	12	0.33	102	0.174	5	1.40	0.028	0.28	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH17	Soil	18	0.29	108	0.140	4	1.41	0.022	0.28	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH18	Soil	19	0.28	91	0.149	4	1.25	0.028	0.22	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH19	Soil	16	0.22	95	0.115	4	1.00	0.021	0.21	<0.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 DH20	Soil	17	0.24	107	0.140	4	1.35	0.023	0.20	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH21	Soil	17	0.27	97	0.148	3	1.39	0.028	0.17	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH22	Soil	13	0.21	95	0.112	2	0.89	0.025	0.10	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 DH23	Soil	20	0.24	102	0.138	5	1.31	0.022	0.20	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH24	Soil	22	0.23	89	0.160	3	1.32	0.029	0.14	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH25	Soil	19	0.23	74	0.167	1	1.02	0.032	0.16	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH26	Soil	22	0.32	78	0.194	1	1.33	0.038	0.19	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH27	Soil	25	0.29	82	0.176	2	1.33	0.027	0.20	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH28	Soil	25	0.29	71	0.194	2	1.35	0.028	0.18	<0.1	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH29	Soil	25	0.27	74	0.194	2	1.26	0.029	0.13	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH30	Soil	28	0.27	70	0.173	3	1.27	0.025	0.15	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: November 10, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	1
PC11 DH31	Soil	0.7	14.4	4.0	43	<0.1	11.9	6.4	755	1.86	1.3	<0.5	1.1	60	<0.1	<0.1	<0.1	51	0.49	0.018	6
PC11 DH32	Soil	0.5	20.5	4.3	46	<0.1	14.4	8.1	447	2.19	1.5	<0.5	1.5	70	<0.1	0.1	<0.1	65	0.41	0.020	9
PC11 DH33	Soil	0.6	20.7	3.9	51	<0.1	15.6	7.3	379	2.63	2.4	<0.5	1.5	77	<0.1	0.1	<0.1	78	0.46	0.035	9
PC11 DH34	Soil	0.6	20.6	3.6	65	<0.1	15.9	7.4	445	2.75	2.2	<0.5	1.3	79	<0.1	0.1	<0.1	88	0.43	0.034	8
PC11 DH35	Soil	0.4	13.9	3.5	37	<0.1	11.0	6.4	289	2.02	1.4	1.4	1.2	63	<0.1	<0.1	<0.1	59	0.33	0.017	6
PC11 DH36	Soil	0.5	16.0	3.7	58	<0.1	10.9	6.2	582	2.03	1.6	2.8	1.1	69	0.1	0.1	<0.1	59	0.50	0.046	6
PC11 DH37	Soil	0.3	69.2	2.3	28	<0.1	13.6	4.3	263	1.19	1.4	1.6	0.2	380	0.3	0.1	0.1	28	11.10	0.147	7
PC11 DH38	Soil	0.6	65.5	4.5	50	<0.1	18.2	11.3	545	2.66	2.0	2.0	1.8	94	<0.1	0.2	<0.1	76	0.98	0.048	11
PC11 DH39	Soil	0.5	65.2	4.0	44	<0.1	15.8	9.4	344	2.79	1.4	1.4	2.0	71	<0.1	0.2	<0.1	75	0.65	0.037	13
PC11 DH40	Soil	0.6	54.0	4.8	50	0.1	26.1	14.8	816	3.14	4.5	3.5	1.5	176	0.1	0.2	0.2	86	3.16	0.095	13
PC11 DH41	Soil	0.5	37.8	3.7	56	<0.1	16.1	10.3	519	2.81	1.9	0.9	1.5	86	<0.1	0.1	<0.1	77	0.80	0.042	10
PC11 DH42	Soil	0.5	72.1	4.8	53	<0.1	20.6	13.3	632	2.97	1.5	0.9	2.0	86	<0.1	0.2	<0.1	84	0.69	0.030	12
PC11 DH43	Soil	0.6	73.1	4.5	51	<0.1	26.3	14.3	616	3.23	1.5	0.8	1.9	85	<0.1	0.2	<0.1	90	0.74	0.035	13
PC11 DH44	Soil	0.5	69.1	4.9	60	<0.1	23.0	12.5	566	3.21	2.2	0.8	2.0	81	<0.1	0.2	<0.1	86	0.71	0.034	13
PC11 DH45	Soil	0.5	44.6	4.2	59	<0.1	20.5	10.8	585	2.78	1.4	<0.5	1.7	79	<0.1	0.1	<0.1	84	0.60	0.024	11
PC11 DH46	Soil	0.6	83.3	5.2	56	0.2	24.9	12.7	451	3.58	2.4	2.8	2.3	96	0.1	0.2	<0.1	85	1.01	0.051	13
PC11 DH47	Soil	0.5	25.7	5.0	68	<0.1	21.8	9.5	523	2.77	1.8	<0.5	1.7	73	0.1	0.2	<0.1	76	0.52	0.018	11
PC11 DH48	Soil	0.5	17.7	4.7	88	<0.1	16.7	7.2	541	2.54	2.0	<0.5	1.5	72	0.1	0.1	<0.1	74	0.51	0.024	9
PC11 DH49	Soil	0.5	36.0	4.7	54	<0.1	20.2	8.1	359	3.01	2.0	<0.5	1.7	99	<0.1	0.1	<0.1	84	0.58	0.027	12
PC11 DH50	Soil	0.5	82.6	3.9	49	<0.1	24.2	13.3	503	3.26	1.5	0.7	2.1	66	<0.1	0.2	<0.1	87	0.71	0.037	12
PCS-03	Soil Pulp	132.8	3889	23.7	65	2.5	39.3	22.0	414	4.46	51.7	467.1	2.0	27	0.4	3.5	0.4	132	0.34	0.094	11
PC11 DH51	Soil	0.5	35.8	4.8	49	<0.1	17.9	9.6	495	2.78	1.4	0.7	1.8	101	<0.1	0.1	<0.1	82	0.59	0.021	12
PC11 DH52	Soil	0.5	31.3	4.4	55	<0.1	20.5	8.1	373	3.22	1.9	1.4	1.6	85	<0.1	0.1	<0.1	103	0.61	0.030	11
PC11 DH53	Soil	0.4	29.1	4.2	52	<0.1	15.7	7.7	347	2.64	1.3	1.4	1.5	88	<0.1	0.1	<0.1	78	0.56	0.021	12
PC11 DH54	Soil	0.6	46.4	4.7	54	<0.1	21.0	11.0	602	2.88	1.8	1.3	1.5	77	0.1	0.1	<0.1	79	0.65	0.032	12
PC11 DH55	Soil	0.7	61.2	4.2	52	0.1	30.4	14.8	569	3.26	2.5	1.6	1.8	99	<0.1	0.2	<0.1	93	1.54	0.097	12
PC11 DH56	Soil	0.5	32.5	4.4	56	<0.1	20.4	10.1	502	2.72	1.2	<0.5	1.5	89	<0.1	0.1	<0.1	78	0.53	0.018	11
PC11 DH57	Soil	0.4	70.6	3.6	49	0.1	30.3	12.1	382	3.04	1.4	1.0	1.7	93	<0.1	0.1	<0.1	74	0.82	0.057	9
PC11 DH58	Soil	0.4	41.7	5.1	51	0.2	21.9	9.6	440	2.91	2.3	1.5	1.5	148	0.1	0.2	<0.1	80	2.72	0.135	11
PC11 DH59	Soil	0.4	33.0	5.2	53	<0.1	21.4	9.1	441	2.85	1.1	<0.5	1.6	107	<0.1	0.1	<0.1	81	0.63	0.019	12

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		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	
PC11 DH31	Soil	22	0.27	100	0.121	2	1.16	0.023	0.15	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH32	Soil	27	0.32	89	0.132	3	1.27	0.024	0.16	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH33	Soil	29	0.32	91	0.123	4	1.46	0.021	0.22	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH34	Soil	30	0.32	88	0.126	2	1.43	0.020	0.15	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH35	Soil	23	0.30	79	0.122	2	1.25	0.027	0.10	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH36	Soil	22	0.28	100	0.102	4	1.14	0.019	0.22	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 DH37	Soil	13	0.79	78	0.032	23	0.93	0.026	0.12	<0.1	0.04	1.3	<0.1	0.08	3	1.1	<0.2
PC11 DH38	Soil	23	0.66	81	0.112	7	1.53	0.032	0.30	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH39	Soil	23	0.54	91	0.097	5	1.70	0.024	0.21	<0.1	0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
PC11 DH40	Soil	31	1.23	73	0.074	4	1.86	0.029	0.11	<0.1	0.02	7.2	<0.1	<0.05	7	<0.5	<0.2
PC11 DH41	Soil	25	0.60	85	0.116	4	1.68	0.030	0.23	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH42	Soil	27	0.59	100	0.112	3	1.83	0.028	0.24	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH43	Soil	33	0.64	104	0.124	2	2.00	0.039	0.21	<0.1	0.01	5.3	<0.1	<0.05	7	<0.5	<0.2
PC11 DH44	Soil	30	0.63	103	0.108	2	2.02	0.028	0.20	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 DH45	Soil	29	0.49	91	0.129	3	1.55	0.031	0.22	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH46	Soil	33	0.71	99	0.106	4	2.37	0.033	0.27	<0.1	0.02	6.6	<0.1	<0.05	8	<0.5	<0.2
PC11 DH47	Soil	36	0.42	101	0.140	3	1.70	0.027	0.23	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH48	Soil	32	0.33	104	0.131	4	1.42	0.027	0.25	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH49	Soil	35	0.38	80	0.141	1	1.84	0.030	0.15	<0.1	<0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH50	Soil	27	0.65	94	0.115	2	1.88	0.036	0.20	<0.1	<0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
PCS-03	Soil Pulp	55	0.94	44	0.109	<1	1.42	0.047	0.90	4.2	0.07	9.9	0.5	2.14	6	6.4	0.8
PC11 DH51	Soil	27	0.44	79	0.145	2	1.71	0.037	0.19	<0.1	0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 DH52	Soil	38	0.43	59	0.137	1	1.63	0.030	0.10	<0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
PC11 DH53	Soil	30	0.36	82	0.128	2	1.55	0.030	0.16	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH54	Soil	28	0.53	82	0.112	3	1.61	0.031	0.22	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH55	Soil	29	0.84	70	0.123	2	1.76	0.067	0.11	<0.1	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
PC11 DH56	Soil	30	0.44	86	0.129	1	1.56	0.038	0.18	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH57	Soil	29	0.71	79	0.112	4	1.77	0.053	0.12	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH58	Soil	30	0.64	74	0.125	3	2.16	0.053	0.14	<0.1	0.04	5.1	<0.1	<0.05	7	<0.5	<0.2
PC11 DH59	Soil	33	0.54	80	0.127	1	1.90	0.046	0.16	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 DH60	Soil		0.5	46.3	7.2	59	<0.1	23.2	10.8	502	3.02	1.7	<0.5	2.3	132	<0.1	0.2	<0.1	75	0.95	0.048	17
PC11 DH61	Soil		0.5	7.0	13.4	24	<0.1	3.3	2.6	310	0.85	1.4	<0.5	3.3	148	<0.1	<0.1	0.2	10	3.66	0.024	24
PC11 DH62	Soil		2.0	15.5	11.6	43	<0.1	9.4	6.6	613	1.45	2.7	0.6	2.0	115	0.1	0.2	0.1	31	0.79	0.017	16
PC11 DH63	Soil		0.5	34.6	10.0	53	0.1	17.3	7.6	389	2.55	1.9	1.3	1.9	105	0.1	0.2	<0.1	62	0.84	0.023	11
PC11 DH64	Soil		0.5	28.6	7.2	74	<0.1	31.1	13.3	655	3.17	1.2	<0.5	1.5	98	0.2	0.1	<0.1	88	0.73	0.021	16
PC11 DH65	Soil		0.4	21.2	8.2	65	<0.1	18.7	8.9	952	2.18	1.3	<0.5	1.9	90	0.1	0.1	<0.1	56	0.79	0.016	13
PC11 DH66	Soil		1.0	42.1	17.8	132	0.8	14.1	7.6	684	2.25	1.9	4.0	3.4	68	0.2	0.2	0.2	29	1.34	0.027	22
PC11 DH67	Soil		0.6	29.4	6.4	63	<0.1	20.9	11.0	672	2.84	1.8	1.3	1.5	84	0.1	0.2	<0.1	73	1.02	0.023	12
PC11 DH68	Soil		1.6	22.5	8.0	49	<0.1	14.7	8.5	529	2.07	3.9	0.8	1.1	93	0.1	0.2	<0.1	50	0.91	0.020	12
PC11 DH69	Soil		0.4	82.7	3.7	65	<0.1	35.0	21.7	676	4.98	5.6	14.3	1.2	208	0.1	0.2	<0.1	167	1.50	0.038	7
PC11 DH70	Soil		0.6	37.3	4.6	57	<0.1	15.7	9.9	607	2.47	1.8	<0.5	1.8	80	<0.1	0.1	<0.1	73	0.55	0.031	10
PC11 DH71	Soil		0.5	38.2	6.0	53	<0.1	16.1	10.3	672	2.57	2.8	<0.5	1.8	82	<0.1	0.1	<0.1	70	0.78	0.057	11
PC11 DH72	Soil		0.4	37.4	4.9	49	<0.1	13.4	9.5	486	2.69	1.6	12.3	2.2	104	0.1	0.1	<0.1	92	0.57	0.022	10
PC11 DH73	Soil		0.3	32.4	4.1	41	<0.1	14.7	8.5	372	2.72	1.8	1.8	1.9	151	<0.1	0.1	<0.1	82	2.61	0.037	11
PC11 DH74	Soil		0.5	31.6	4.7	47	<0.1	13.3	8.9	489	2.82	1.7	1.9	2.0	85	<0.1	0.1	<0.1	85	0.55	0.030	10
PC11 DH75	Soil		0.4	43.5	4.4	50	<0.1	13.9	9.1	375	3.13	1.3	1.3	2.3	94	<0.1	0.1	<0.1	98	0.56	0.025	10
PC11 DH76	Soil		0.3	22.1	4.6	63	<0.1	11.8	8.0	490	2.60	1.4	2.8	1.8	109	<0.1	<0.1	<0.1	74	0.61	0.023	9
PC11 DH77	Soil		0.5	33.4	7.0	161	<0.1	14.1	9.0	1541	2.52	3.5	<0.5	2.2	119	0.2	0.1	0.1	56	0.91	0.037	11
PC11 DH78	Soil		0.4	51.5	5.5	60	<0.1	16.3	13.1	511	4.02	2.1	2.9	2.4	149	0.1	0.2	<0.1	116	1.02	0.032	11
PC11 DH79	Soil		0.5	34.3	4.8	54	<0.1	15.5	9.0	442	2.84	1.6	1.4	2.0	98	<0.1	0.1	<0.1	88	0.71	0.037	13
PC11 DH80	Soil		0.5	36.5	5.0	58	<0.1	14.5	9.0	462	2.82	2.1	2.5	2.0	108	<0.1	0.1	<0.1	82	0.65	0.025	11
PC11 DH81	Soil		0.5	16.0	4.3	56	<0.1	12.8	7.0	399	2.63	0.9	2.2	1.8	73	<0.1	0.1	<0.1	94	0.44	0.013	8
PC11 DH82	Soil		0.6	22.8	4.1	49	<0.1	15.0	7.2	310	2.60	1.6	0.6	1.8	80	<0.1	0.1	<0.1	78	0.51	0.030	10
PC11 DH83	Soil		0.5	21.1	4.6	60	<0.1	16.1	8.3	539	2.37	1.4	1.1	1.8	69	<0.1	0.1	<0.1	76	0.44	0.017	9
PC11 DH84	Soil		0.5	24.6	4.4	61	<0.1	13.5	7.3	397	2.63	1.0	2.6	1.8	65	0.1	0.1	<0.1	81	0.47	0.017	9
PC11 DH85	Soil		0.5	14.7	4.5	67	<0.1	12.8	7.4	522	2.33	1.2	1.6	1.6	70	0.2	<0.1	<0.1	72	0.44	0.017	9
PC11 DH86	Soil		0.4	20.5	5.4	66	<0.1	16.4	8.6	577	2.61	1.5	<0.5	2.0	79	0.1	0.1	<0.1	69	0.54	0.017	10
PC11 DH87	Soil		0.4	15.1	4.2	63	<0.1	13.8	7.2	466	2.41	1.0	<0.5	1.6	81	0.1	<0.1	<0.1	77	0.48	0.013	8
PC11 DH88	Soil		0.7	20.5	5.4	85	<0.1	16.6	8.0	740	2.58	1.4	1.1	1.7	73	0.2	0.1	<0.1	78	0.54	0.020	8
PC11 DH89	Soil		0.5	33.5	5.5	65	<0.1	23.1	8.8	397	3.15	2.1	1.0	2.2	80	0.1	0.2	<0.1	77	0.61	0.028	13

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Project: Princeton
 Report Date: November 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11005974.1

Method	Analyte	1DX15															
		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
MDL		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	
PC11 DH60	Soil	30	0.76	107	0.103	2	2.54	0.060	0.21	<0.1	0.02	5.4	<0.1	<0.05	9	<0.5	<0.2
PC11 DH61	Soil	<1	0.20	62	<0.001	<1	4.57	0.042	0.30	<0.1	0.03	0.7	0.1	<0.05	8	<0.5	<0.2
PC11 DH62	Soil	12	0.30	111	0.011	<1	1.86	0.152	0.21	<0.1	0.02	2.0	0.1	<0.05	5	<0.5	<0.2
PC11 DH63	Soil	27	0.50	87	0.096	3	2.12	0.063	0.16	<0.1	0.04	4.5	<0.1	<0.05	7	<0.5	<0.2
PC11 DH64	Soil	41	0.72	109	0.134	2	2.47	0.037	0.16	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 DH65	Soil	26	0.41	94	0.098	2	1.95	0.107	0.25	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
PC11 DH66	Soil	13	0.59	62	0.021	1	2.84	0.025	0.17	<0.1	0.10	3.5	<0.1	<0.05	9	<0.5	<0.2
PC11 DH67	Soil	31	0.67	72	0.104	3	2.64	0.032	0.31	<0.1	0.01	5.2	<0.1	<0.05	8	<0.5	<0.2
PC11 DH68	Soil	18	0.54	72	0.086	1	2.02	0.022	0.30	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
PC11 DH69	Soil	57	1.74	58	0.176	2	4.32	0.092	0.20	<0.1	0.02	12.7	<0.1	<0.05	11	<0.5	<0.2
PC11 DH70	Soil	23	0.38	117	0.106	4	1.47	0.022	0.32	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH71	Soil	22	0.44	121	0.096	15	1.47	0.028	0.45	0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH72	Soil	22	0.42	94	0.137	2	1.36	0.030	0.20	<0.1	0.01	4.2	<0.1	<0.05	5	0.7	<0.2
PC11 DH73	Soil	21	0.63	66	0.135	5	1.41	0.049	0.15	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH74	Soil	25	0.44	93	0.110	3	1.43	0.021	0.26	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH75	Soil	26	0.42	91	0.149	3	1.64	0.033	0.18	<0.1	0.02	5.1	<0.1	<0.05	6	0.7	<0.2
PC11 DH76	Soil	22	0.37	111	0.141	3	1.51	0.025	0.21	0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH77	Soil	18	0.40	201	0.164	5	1.80	0.025	0.34	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH78	Soil	24	0.78	105	0.155	<1	2.47	0.042	0.10	<0.1	0.02	8.2	<0.1	<0.05	8	0.6	<0.2
PC11 DH79	Soil	30	0.36	103	0.135	2	1.65	0.027	0.22	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH80	Soil	28	0.40	91	0.138	3	1.58	0.030	0.24	<0.1	0.02	4.6	<0.1	<0.05	5	0.6	<0.2
PC11 DH81	Soil	31	0.27	85	0.173	<1	1.26	0.035	0.10	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 DH82	Soil	30	0.30	79	0.158	2	1.31	0.030	0.18	<0.1	<0.01	4.5	<0.1	<0.05	4	0.6	<0.2
PC11 DH83	Soil	28	0.31	113	0.155	2	1.16	0.029	0.19	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH84	Soil	28	0.32	87	0.149	1	1.32	0.026	0.25	<0.1	<0.01	4.1	<0.1	<0.05	4	0.8	<0.2
PC11 DH85	Soil	25	0.30	119	0.153	1	1.24	0.030	0.20	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 DH86	Soil	30	0.39	113	0.160	2	1.62	0.030	0.28	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH87	Soil	29	0.31	94	0.167	1	1.30	0.030	0.19	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH88	Soil	34	0.35	124	0.163	1	1.33	0.031	0.22	<0.1	<0.01	4.2	<0.1	<0.05	5	0.7	<0.2
PC11 DH89	Soil	41	0.50	93	0.153	2	1.93	0.032	0.20	<0.1	0.02	5.9	<0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: November 10, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 DH90	Soil	0.7	22.0	6.4	83	<0.1	26.9	11.2	729	2.81	1.7	<0.5	2.0	58	0.2	0.2	<0.1	71	0.50	0.011	11
PC11 DH91	Soil	0.7	27.9	7.4	162	<0.1	26.4	10.5	755	3.01	2.7	1.4	2.0	65	0.3	0.2	<0.1	64	0.64	0.019	11
PC11 DH92	Soil	0.7	36.6	6.9	117	<0.1	30.6	10.8	542	3.30	3.8	1.3	2.3	52	0.2	0.3	<0.1	72	0.60	0.026	11
PC11 DH93	Soil	0.7	23.3	7.4	127	<0.1	22.3	10.4	987	2.79	3.0	0.8	1.9	56	0.4	0.3	<0.1	69	0.59	0.014	10
PC11 DH94	Soil	0.4	17.5	5.3	54	<0.1	16.3	7.7	415	2.23	1.1	<0.5	1.6	74	<0.1	0.1	<0.1	61	0.45	0.011	12
PC11 DH95	Soil	0.5	19.5	5.9	73	<0.1	17.2	8.3	603	2.62	0.9	0.6	1.8	77	<0.1	0.1	<0.1	78	0.57	0.017	11
PC11 DH96	Soil	0.5	18.4	5.5	46	<0.1	14.5	7.1	392	2.40	1.4	0.8	1.8	85	0.1	0.1	<0.1	82	0.48	0.016	11
PC11 DH97	Soil	0.4	15.2	6.2	52	<0.1	12.1	6.1	310	2.19	1.0	1.1	1.8	120	<0.1	0.1	<0.1	65	0.56	0.013	13
PC11 DH98	Soil	0.5	15.2	6.5	77	<0.1	14.9	7.4	644	2.33	0.8	<0.5	1.7	115	0.1	<0.1	<0.1	68	0.57	0.018	11
PC11 DH99	Soil	0.5	16.1	6.0	69	<0.1	16.5	8.3	517	2.29	1.0	1.8	1.8	83	<0.1	0.1	<0.1	69	0.47	0.012	10
PC11 DH100	Soil	0.6	21.3	6.2	70	<0.1	18.4	8.2	675	2.60	0.9	1.4	2.0	112	0.1	0.1	<0.1	72	0.64	0.016	12
PCS-07	Soil Pulp	124.9	4386	26.7	68	2.7	38.3	22.3	433	4.59	56.9	478.0	2.6	30	0.3	3.5	0.4	137	0.34	0.095	11
PC11 DH101	Soil	1.6	29.1	12.3	64	<0.1	10.1	5.8	357	3.22	3.6	2.2	3.3	106	0.1	0.3	0.1	47	0.81	0.061	24
PC11 DH102	Soil	0.5	55.5	6.5	55	0.1	28.4	12.9	548	3.24	2.1	3.0	2.5	144	<0.1	0.2	<0.1	91	1.17	0.070	13
PC11 DH103	Soil	0.3	16.9	4.9	56	<0.1	17.5	6.6	256	2.27	1.2	1.2	1.8	80	<0.1	0.1	<0.1	67	0.48	0.022	9
PC11 DH104	Soil	0.4	20.8	6.3	56	<0.1	17.2	8.6	559	2.29	1.5	1.2	2.0	86	<0.1	0.1	<0.1	69	0.55	0.015	10
PC11 DH105	Soil	0.5	19.4	5.2	55	<0.1	16.8	8.1	478	2.32	1.1	<0.5	1.7	83	<0.1	<0.1	<0.1	71	0.50	0.012	11
PC11 DH106	Soil	0.5	16.0	5.6	75	<0.1	16.9	7.5	480	2.18	1.1	1.0	1.8	74	0.1	0.2	<0.1	60	0.50	0.018	10
PC11 DH107	Soil	0.4	14.6	5.1	73	<0.1	15.1	6.5	339	2.07	1.2	5.5	1.5	54	0.1	0.1	0.1	50	0.39	0.011	8
PC11 DH108	Soil	0.4	16.8	6.0	76	<0.1	19.6	8.6	448	2.49	1.5	<0.5	1.4	58	<0.1	0.1	<0.1	64	0.47	0.030	10
PC11 DH109	Soil	0.8	20.9	7.6	53	<0.1	18.2	8.8	666	2.19	1.9	1.9	1.7	66	0.1	0.1	0.1	60	0.47	0.017	11
PC11 DH110	Soil	0.4	17.6	8.4	71	<0.1	14.6	8.5	740	2.23	1.5	8.9	2.0	124	0.2	0.1	<0.1	63	0.60	0.014	16
PC11 DH111	Soil	0.6	14.4	5.2	62	0.1	10.7	7.0	413	2.27	1.6	<0.5	1.3	61	<0.1	<0.1	<0.1	58	0.49	0.031	7
PC11 DH112	Soil	0.7	14.2	5.9	65	<0.1	9.7	6.8	508	2.15	1.4	0.7	1.7	108	<0.1	0.1	0.1	58	0.39	0.015	7
PC11 DH113	Soil	0.5	23.5	5.6	62	0.2	15.9	9.0	433	2.94	1.9	0.5	1.5	69	<0.1	0.1	<0.1	86	0.58	0.025	11
PC11 DH114	Soil	0.3	20.0	5.7	68	<0.1	16.8	9.0	419	3.06	1.5	0.7	1.8	147	<0.1	0.1	<0.1	89	0.58	0.020	14
PC11 DH115	Soil	0.4	29.5	6.5	78	0.1	36.9	11.9	459	3.50	2.4	<0.5	2.1	98	<0.1	0.2	<0.1	79	1.09	0.038	19
PC11 DH116	Soil	0.4	19.6	6.0	69	<0.1	15.0	8.0	558	2.95	1.1	<0.5	1.7	127	<0.1	0.1	<0.1	84	0.67	0.023	15
PC11 DH117	Soil	0.5	22.8	5.3	79	<0.1	32.1	9.6	704	3.12	1.2	<0.5	2.1	148	0.2	<0.1	<0.1	74	0.68	0.034	14
PC11 DH118	Soil	0.4	19.8	5.3	96	0.1	23.5	8.9	707	2.71	2.3	0.7	1.5	100	<0.1	0.1	<0.1	64	0.98	0.051	10

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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
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	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		
PC11 DH90	Soil	41	0.46	137	0.154	2	1.63	0.027	0.24	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH91	Soil	38	0.53	143	0.145	5	2.04	0.034	0.29	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 DH92	Soil	46	0.55	126	0.147	5	2.11	0.027	0.34	<0.1	0.02	6.2	<0.1	<0.05	7	<0.5	<0.2
PC11 DH93	Soil	35	0.44	158	0.138	2	1.54	0.027	0.26	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH94	Soil	30	0.33	94	0.149	2	1.43	0.044	0.21	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH95	Soil	34	0.36	101	0.165	3	1.44	0.036	0.21	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH96	Soil	33	0.31	80	0.170	2	1.26	0.042	0.16	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH97	Soil	28	0.30	130	0.164	2	1.39	0.033	0.18	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH98	Soil	28	0.36	135	0.160	2	1.64	0.034	0.21	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH99	Soil	32	0.34	135	0.158	1	1.55	0.032	0.18	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH100	Soil	32	0.39	120	0.162	2	1.75	0.036	0.27	<0.1	0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
PCS-07	Soil Pulp	57	0.97	52	0.123	<1	1.49	0.053	0.92	4.3	0.09	10.5	0.6	1.98	6	6.8	1.2
PC11 DH101	Soil	16	0.35	83	0.035	<1	2.17	0.039	0.23	<0.1	0.04	4.2	<0.1	0.08	10	0.8	0.3
PC11 DH102	Soil	34	0.89	88	0.146	2	2.40	0.053	0.17	<0.1	0.03	6.1	<0.1	<0.05	8	<0.5	<0.2
PC11 DH103	Soil	35	0.35	86	0.140	3	1.34	0.041	0.23	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH104	Soil	30	0.36	103	0.144	1	1.33	0.037	0.24	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH105	Soil	32	0.34	98	0.136	<1	1.37	0.038	0.18	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH106	Soil	31	0.36	109	0.130	1	1.48	0.035	0.16	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH107	Soil	25	0.34	89	0.131	3	1.44	0.020	0.19	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH108	Soil	31	0.43	92	0.141	3	1.68	0.021	0.16	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH109	Soil	27	0.38	82	0.121	3	1.23	0.034	0.19	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH110	Soil	24	0.43	97	0.179	3	1.53	0.023	0.24	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
PC11 DH111	Soil	19	0.32	102	0.132	3	1.70	0.017	0.14	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
PC11 DH112	Soil	19	0.25	132	0.118	1	1.34	0.023	0.12	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH113	Soil	31	0.51	77	0.266	1	2.25	0.025	0.09	<0.1	0.03	6.5	<0.1	<0.05	8	<0.5	<0.2
PC11 DH114	Soil	32	0.45	119	0.249	3	2.16	0.039	0.14	<0.1	0.02	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 DH115	Soil	30	0.68	96	0.178	4	3.63	0.024	0.18	<0.1	0.02	8.6	<0.1	<0.05	12	<0.5	<0.2
PC11 DH116	Soil	31	0.44	99	0.242	3	2.23	0.026	0.13	<0.1	0.02	6.9	<0.1	<0.05	8	<0.5	<0.2
PC11 DH117	Soil	24	0.60	97	0.205	4	2.04	0.029	0.16	<0.1	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
PC11 DH118	Soil	28	0.46	91	0.188	10	2.29	0.025	0.24	<0.1	0.02	6.1	<0.1	<0.05	7	<0.5	<0.2



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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 DH119	Soil		0.4	15.6	5.7	74	<0.1	16.5	6.7	373	2.55	2.1	0.8	1.6	81	<0.1	0.1	<0.1	62	0.60	0.035	11
PC11 DH120	Soil		0.4	18.7	6.1	71	0.1	23.4	7.4	348	2.89	1.7	1.8	1.9	114	0.1	0.1	<0.1	64	0.65	0.034	15
PC11 DH121	Soil		0.5	14.9	6.0	71	0.1	14.6	6.6	335	2.73	1.7	0.7	1.6	111	<0.1	0.1	<0.1	68	0.78	0.028	12
PC11 DH122	Soil		0.5	20.7	5.3	96	<0.1	14.0	7.2	922	2.64	2.7	1.0	1.6	102	0.2	0.1	<0.1	72	0.61	0.043	11
PC11 DH123	Soil		0.4	28.1	5.9	71	<0.1	22.2	9.9	535	3.23	1.7	0.9	1.9	110	<0.1	0.1	<0.1	83	0.69	0.028	18
PC11 DH124	Soil		0.3	26.1	4.9	96	<0.1	19.3	9.8	684	3.35	1.3	0.8	1.7	92	<0.1	<0.1	<0.1	78	0.85	0.030	14
PC11 DH125	Soil		0.6	18.6	5.8	82	<0.1	19.7	7.1	572	2.73	1.3	1.0	1.7	99	0.1	0.1	<0.1	59	0.62	0.025	12
PC11 DH126	Soil		0.5	18.1	4.4	78	<0.1	19.3	7.9	662	2.59	1.9	<0.5	1.8	62	<0.1	<0.1	<0.1	59	0.45	0.019	11
PC11 DH127	Soil		0.3	24.9	5.6	70	<0.1	36.7	10.0	406	3.28	2.0	<0.5	1.9	65	<0.1	<0.1	<0.1	66	0.72	0.034	15
PC11 DH128	Soil		0.5	27.0	5.4	70	<0.1	38.5	11.5	609	3.33	2.1	<0.5	1.9	70	<0.1	0.1	<0.1	72	0.64	0.025	17
PC11 DH129	Soil		0.8	17.0	4.4	75	<0.1	18.4	7.0	485	2.56	2.1	1.1	1.4	63	0.1	<0.1	<0.1	56	0.61	0.034	9
PC11 DH130	Soil		0.5	15.5	5.5	74	<0.1	17.5	7.7	415	2.57	2.0	1.1	1.6	81	<0.1	0.1	<0.1	58	0.53	0.023	9
PC11 DH131	Soil		0.7	16.4	6.6	140	<0.1	17.1	8.0	401	2.46	4.5	5.0	1.3	41	0.2	0.1	0.1	54	0.39	0.029	5
PC11 DH132	Soil		0.3	45.2	3.4	72	<0.1	17.6	12.3	516	3.96	1.4	1.1	2.1	84	<0.1	<0.1	<0.1	114	0.80	0.041	14
PC11 DH133	Soil		0.5	21.1	4.8	74	<0.1	22.0	9.5	344	2.73	1.9	<0.5	1.5	65	<0.1	0.2	<0.1	66	0.55	0.026	7
PC11 DH134	Soil		0.4	16.0	4.6	64	<0.1	18.6	7.2	394	2.23	1.5	0.6	1.1	60	<0.1	<0.1	<0.1	55	0.49	0.021	6
PC11 DH135	Soil		0.5	19.1	4.7	65	<0.1	19.7	7.7	283	2.31	1.5	<0.5	1.3	60	<0.1	0.1	<0.1	58	0.45	0.016	6
PC11 RP16	Soil		0.9	15.5	4.4	43	<0.1	11.7	6.2	366	2.09	1.7	0.5	1.3	69	<0.1	0.1	<0.1	56	0.43	0.016	7
PC11 RP17	Soil		0.6	35.6	4.6	55	<0.1	19.7	12.0	718	3.14	2.5	1.5	1.5	73	<0.1	0.2	<0.1	83	0.73	0.026	12
PC11 RP18	Soil		0.5	29.7	4.0	77	<0.1	18.8	10.8	529	3.26	2.5	<0.5	1.3	97	<0.1	0.1	<0.1	102	0.72	0.034	8
PC11 RP19	Soil		0.8	49.3	3.8	86	<0.1	23.7	16.5	776	3.91	4.6	<0.5	1.2	104	0.1	0.2	<0.1	108	0.79	0.054	15
PC11 RP20	Soil		0.4	26.2	4.2	76	<0.1	17.4	9.3	515	2.89	2.1	<0.5	1.5	108	0.1	0.1	<0.1	80	0.72	0.036	10
PC11 RP21	Soil		0.4	29.0	4.2	80	<0.1	18.9	10.3	524	3.09	2.0	0.5	1.5	261	<0.1	0.1	<0.1	83	0.71	0.029	12
PC11 RP22	Soil		0.3	13.3	3.7	56	<0.1	7.7	4.4	323	1.73	1.7	<0.5	1.1	64	<0.1	<0.1	<0.1	54	0.36	0.024	4
PC11 RP23	Soil		0.7	48.7	4.8	55	<0.1	14.0	7.9	526	2.49	2.9	2.0	1.8	95	<0.1	0.1	<0.1	77	0.53	0.033	10
PC11 RP24	Soil		0.6	13.3	4.8	61	<0.1	7.4	5.1	449	1.86	2.6	1.6	1.2	96	<0.1	0.1	<0.1	59	0.43	0.028	4
PC11 RP25	Soil		0.5	14.9	4.4	61	<0.1	10.3	7.0	494	2.44	1.5	<0.5	1.2	96	0.1	0.1	<0.1	76	0.55	0.021	6
PC11 RP26	Soil		0.3	21.4	5.4	89	<0.1	12.5	8.4	717	2.79	3.0	1.5	2.1	165	0.1	0.1	<0.1	79	0.99	0.044	9
PC11 RP27	Soil		0.5	12.9	4.4	42	<0.1	7.5	5.8	429	1.92	0.9	2.8	1.3	90	<0.1	0.1	<0.1	61	0.44	0.016	6
PC11 RP28	Soil		0.6	12.9	4.9	73	<0.1	9.6	6.1	734	1.89	2.2	1.2	1.4	91	<0.1	0.1	<0.1	60	0.51	0.034	7

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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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 DH119	Soil			29	0.33	65	0.192	5	1.91	0.019	0.13	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 DH120	Soil			25	0.42	84	0.177	4	2.40	0.021	0.15	<0.1	0.02	6.4	<0.1	<0.05	9	<0.5	<0.2
PC11 DH121	Soil			22	0.38	90	0.225	3	2.30	0.021	0.08	<0.1	0.02	5.8	<0.1	<0.05	8	<0.5	<0.2
PC11 DH122	Soil			25	0.30	117	0.187	3	1.96	0.022	0.11	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 DH123	Soil			35	0.46	84	0.227	3	2.65	0.026	0.14	<0.1	0.02	7.3	<0.1	<0.05	9	<0.5	<0.2
PC11 DH124	Soil			25	0.55	83	0.247	4	2.59	0.036	0.17	<0.1	0.02	7.3	<0.1	<0.05	9	<0.5	<0.2
PC11 DH125	Soil			28	0.32	94	0.167	4	2.04	0.025	0.14	<0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 DH126	Soil			25	0.31	77	0.115	3	1.64	0.023	0.15	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH127	Soil			28	0.58	55	0.156	3	2.91	0.023	0.13	<0.1	0.01	7.8	<0.1	<0.05	10	<0.5	<0.2
PC11 DH128	Soil			27	0.45	46	0.129	3	2.18	0.027	0.11	<0.1	0.01	8.2	<0.1	<0.05	8	<0.5	<0.2
PC11 DH129	Soil			23	0.31	54	0.121	4	1.64	0.020	0.17	<0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH130	Soil			27	0.39	92	0.168	2	2.19	0.025	0.09	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 DH131	Soil			31	0.38	125	0.136	2	1.96	0.021	0.07	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH132	Soil			35	0.64	64	0.251	3	2.31	0.043	0.08	<0.1	0.01	10.9	<0.1	<0.05	7	<0.5	<0.2
PC11 DH133	Soil			39	0.46	104	0.174	3	2.10	0.024	0.09	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 DH134	Soil			30	0.40	103	0.150	3	1.65	0.023	0.10	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH135	Soil			33	0.41	104	0.167	2	1.66	0.021	0.09	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP16	Soil			25	0.34	76	0.138	3	1.34	0.025	0.14	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 RP17	Soil			34	0.58	89	0.103	3	2.12	0.024	0.25	<0.1	0.01	6.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP18	Soil			34	0.65	86	0.146	3	2.40	0.065	0.22	<0.1	<0.01	7.1	<0.1	<0.05	7	<0.5	<0.2
PC11 RP19	Soil			48	0.83	90	0.070	2	2.60	0.030	0.26	<0.1	0.01	8.0	<0.1	<0.05	8	<0.5	<0.2
PC11 RP20	Soil			36	0.45	90	0.172	4	2.08	0.021	0.26	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 RP21	Soil			40	0.50	115	0.160	2	2.29	0.024	0.27	<0.1	0.01	6.5	<0.1	<0.05	8	<0.5	<0.2
PC11 RP22	Soil			17	0.22	96	0.129	3	1.09	0.018	0.17	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP23	Soil			25	0.42	110	0.135	<1	1.47	0.024	0.19	<0.1	0.02	4.3	<0.1	0.08	5	<0.5	<0.2
PC11 RP24	Soil			17	0.26	104	0.141	2	1.15	0.029	0.13	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 RP25	Soil			21	0.47	97	0.207	5	1.54	0.033	0.14	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP26	Soil			27	0.58	112	0.175	11	2.48	0.023	0.25	<0.1	0.03	5.7	<0.1	0.05	8	1.2	<0.2
PC11 RP27	Soil			17	0.29	101	0.157	2	1.13	0.031	0.15	<0.1	0.02	3.2	<0.1	0.05	4	<0.5	<0.2
PC11 RP28	Soil			22	0.30	112	0.140	2	1.24	0.030	0.18	<0.1	0.02	3.0	<0.1	<0.05	4	0.6	<0.2



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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 RP29	Soil	0.5	19.6	6.8	62	<0.1	11.9	8.0	934	2.28	2.6	2.4	2.1	95	0.1	0.1	0.1	60	0.67	0.027	13
PC11 RP30	Soil	0.5	15.1	4.9	53	<0.1	9.8	6.2	340	2.21	1.9	<0.5	1.8	114	<0.1	0.1	<0.1	65	0.50	0.020	9
PC11 RP31	Soil	0.5	13.3	4.1	62	<0.1	9.9	6.4	643	2.07	2.0	<0.5	1.4	113	<0.1	0.1	<0.1	69	0.48	0.019	8
PC11 RP32	Soil	0.7	25.4	4.3	49	<0.1	13.7	7.5	323	2.48	2.9	0.6	1.7	109	<0.1	0.1	<0.1	77	0.56	0.027	12
PC11 RP33	Soil	0.4	18.4	4.6	58	<0.1	11.4	6.3	471	2.23	2.4	0.5	1.8	151	<0.1	0.1	<0.1	65	0.47	0.023	10
PC11 RP34	Soil	0.6	19.7	4.8	62	<0.1	11.7	6.7	370	2.25	2.9	4.7	1.7	201	<0.1	0.1	<0.1	65	0.50	0.023	9
PC11 RP35	Soil	0.9	22.3	4.7	75	<0.1	13.3	7.2	579	2.27	3.3	<0.5	1.6	81	<0.1	0.1	<0.1	61	0.48	0.030	8
PC11 RP36	Soil	0.7	25.8	5.1	62	<0.1	14.1	6.6	573	2.36	3.3	2.4	1.8	106	0.1	0.1	<0.1	75	0.44	0.026	9
PC11 RP37	Soil	0.8	23.8	4.1	97	<0.1	12.3	6.8	584	2.26	3.3	<0.5	1.7	168	0.1	<0.1	<0.1	56	0.68	0.033	9
PC11 RP38	Soil	0.7	28.5	4.7	72	<0.1	15.7	7.7	502	2.80	3.2	<0.5	2.0	114	<0.1	0.1	<0.1	90	0.53	0.034	10
PC11 RP39	Soil	0.6	22.4	5.6	62	<0.1	12.8	7.2	620	2.25	2.0	1.7	1.9	82	0.1	0.1	0.1	61	0.59	0.022	9
PC11 RP40	Soil	0.5	30.3	5.2	66	<0.1	14.6	9.5	632	2.68	3.1	<0.5	1.8	86	0.1	0.1	<0.1	83	0.52	0.023	10
PC11 RP41	Soil	0.7	41.8	4.9	44	<0.1	14.9	9.8	512	2.53	1.8	6.3	1.9	85	<0.1	0.1	<0.1	61	0.76	0.027	10
PC11 RP42	Soil	0.5	17.6	5.7	39	<0.1	9.8	6.4	302	1.87	4.3	1.0	1.2	59	<0.1	<0.1	0.1	48	0.46	0.017	7
PC11 RP43	Soil	0.5	17.3	4.7	76	<0.1	20.7	6.9	584	2.04	3.2	<0.5	1.6	118	<0.1	<0.1	0.1	48	0.50	0.019	7
PC11 RP44	Soil	0.5	13.8	4.0	91	<0.1	12.5	4.2	621	1.53	3.0	1.9	1.0	61	0.1	<0.1	<0.1	39	0.42	0.022	3
PC11 RP45	Soil	0.9	50.4	5.4	99	<0.1	74.3	16.5	746	3.94	22.2	<0.5	2.8	135	<0.1	0.1	0.1	79	0.76	0.059	11
PC11 RP46	Soil	1.0	28.5	6.1	111	<0.1	33.5	9.5	1517	2.34	6.3	0.7	1.5	128	<0.1	0.1	<0.1	55	0.86	0.039	6
PC11 RP47	Soil	0.9	21.7	5.2	70	<0.1	29.0	8.7	901	2.02	3.9	<0.5	2.0	109	<0.1	<0.1	<0.1	48	0.48	0.021	8
PC11 RP48	Soil	0.5	16.3	4.6	45	<0.1	16.0	6.6	252	1.80	2.4	<0.5	1.7	112	<0.1	0.1	<0.1	49	0.44	0.029	5
PC11 RP49	Soil	0.4	14.4	4.3	58	<0.1	12.3	4.9	324	1.60	2.5	0.9	1.0	98	<0.1	0.1	<0.1	38	0.34	0.028	4
PC11 RP50	Soil	0.7	13.2	4.5	68	<0.1	8.3	3.0	561	1.34	1.5	<0.5	1.2	67	<0.1	<0.1	<0.1	30	0.36	0.023	4
PCS-02	Soil Pulp	19.0	67.2	17.8	19	0.2	18.1	2.6	124	3.98	478.7	246.6	0.8	32	0.3	28.8	0.1	11	1.05	0.005	2
PC11 RP51	Soil	0.5	13.9	4.7	37	<0.1	6.8	3.8	311	1.58	2.6	<0.5	1.6	63	<0.1	0.1	<0.1	49	0.29	0.026	5
PC11 RP52	Soil	0.6	14.3	4.6	41	<0.1	7.1	4.4	248	1.70	2.5	1.9	1.3	76	<0.1	0.1	<0.1	53	0.28	0.018	4
PC11 RP53	Soil	0.5	9.9	4.7	72	<0.1	6.6	3.5	466	1.59	1.5	<0.5	1.4	83	<0.1	<0.1	<0.1	38	0.35	0.014	4
PC11 RP54	Soil	0.5	9.9	5.0	52	<0.1	6.7	4.3	261	1.85	1.2	<0.5	1.6	82	<0.1	0.1	<0.1	55	0.37	0.020	6
PC11 RP55	Soil	0.7	8.2	4.8	62	<0.1	5.2	3.3	403	1.21	1.4	<0.5	1.2	116	<0.1	<0.1	<0.1	36	0.33	0.016	5
PC11 RP56	Soil	0.5	18.5	6.4	79	<0.1	12.6	12.5	793	3.57	1.6	<0.5	2.2	371	<0.1	0.1	<0.1	119	1.06	0.031	11
PC11 RP57	Soil	0.4	16.0	4.8	70	<0.1	11.2	8.3	461	2.96	1.1	<0.5	1.8	191	<0.1	0.1	<0.1	99	0.80	0.031	10

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Report Date: November 10, 2011

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		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	
PC11 RP29	Soil	22	0.48	98	0.116	4	1.68	0.030	0.20	<0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
PC11 RP30	Soil	24	0.36	97	0.144	2	1.41	0.039	0.16	<0.1	0.02	4.3	<0.1	0.06	5	<0.5	<0.2
PC11 RP31	Soil	20	0.28	128	0.123	3	1.14	0.028	0.19	<0.1	0.02	3.3	<0.1	<0.05	4	0.5	<0.2
PC11 RP32	Soil	23	0.36	86	0.128	<1	1.42	0.024	0.18	<0.1	0.01	4.4	<0.1	<0.05	5	0.7	<0.2
PC11 RP33	Soil	22	0.33	109	0.104	2	1.46	0.026	0.24	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 RP34	Soil	22	0.37	136	0.123	3	1.52	0.033	0.25	<0.1	0.02	4.7	<0.1	<0.05	5	0.8	<0.2
PC11 RP35	Soil	26	0.35	125	0.114	4	1.49	0.025	0.23	<0.1	0.02	4.2	<0.1	<0.05	5	1.1	<0.2
PC11 RP36	Soil	25	0.36	112	0.115	3	1.41	0.028	0.23	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 RP37	Soil	21	0.36	121	0.093	6	1.67	0.031	0.31	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 RP38	Soil	30	0.37	100	0.107	4	1.67	0.031	0.21	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 RP39	Soil	24	0.36	111	0.126	3	1.52	0.036	0.20	<0.1	0.03	4.3	<0.1	<0.05	5	0.5	<0.2
PC11 RP40	Soil	24	0.40	123	0.149	4	1.53	0.027	0.27	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP41	Soil	24	0.51	107	0.114	5	1.55	0.026	0.35	<0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 RP42	Soil	18	0.32	90	0.114	<1	1.70	0.030	0.06	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP43	Soil	36	0.35	198	0.108	3	1.73	0.035	0.13	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP44	Soil	22	0.25	154	0.095	3	1.15	0.024	0.14	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 RP45	Soil	77	0.52	152	0.089	7	2.05	0.032	0.32	<0.1	0.03	10.5	0.1	<0.05	6	<0.5	<0.2
PC11 RP46	Soil	36	0.34	226	0.085	6	1.60	0.028	0.15	<0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
PC11 RP47	Soil	39	0.30	226	0.082	4	1.32	0.034	0.19	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 RP48	Soil	36	0.33	180	0.121	<1	1.35	0.037	0.17	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP49	Soil	26	0.24	212	0.102	4	1.25	0.029	0.15	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 RP50	Soil	17	0.21	183	0.075	5	1.07	0.021	0.15	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
PCS-02	Soil Pulp	25	0.03	1292	0.012	2	0.21	0.008	0.06	2.8	3.04	0.8	11.7	0.19	<1	1.9	<0.2
PC11 RP51	Soil	15	0.17	130	0.076	2	0.77	0.018	0.15	<0.1	0.03	2.0	<0.1	0.07	3	<0.5	<0.2
PC11 RP52	Soil	17	0.21	152	0.093	1	0.93	0.028	0.12	<0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 RP53	Soil	16	0.19	147	0.113	4	1.13	0.023	0.14	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP54	Soil	18	0.23	97	0.153	2	1.28	0.025	0.13	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 RP55	Soil	13	0.17	198	0.102	1	0.96	0.024	0.11	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
PC11 RP56	Soil	29	0.74	196	0.356	3	3.46	0.050	0.20	<0.1	0.02	9.5	<0.1	0.06	10	1.0	<0.2
PC11 RP57	Soil	25	0.48	167	0.292	4	2.43	0.037	0.22	<0.1	0.02	7.3	<0.1	0.06	7	0.6	<0.2



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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 RP58	Soil		0.6	12.2	5.4	112	<0.1	8.7	6.2	942	2.21	1.0	<0.5	1.5	125	0.1	<0.1	<0.1	66	0.60	0.022	6
PC11 RP59	Soil		0.5	12.3	5.0	52	<0.1	7.7	5.2	197	1.92	1.0	<0.5	1.7	112	<0.1	0.1	<0.1	61	0.42	0.017	7
PC11 RP60	Soil		0.7	26.5	6.5	54	<0.1	12.4	7.3	331	2.56	2.7	<0.5	2.7	126	<0.1	0.1	<0.1	80	0.64	0.035	14
PC11 RP61	Soil		0.5	11.5	4.6	79	<0.1	8.8	5.7	439	2.10	1.0	<0.5	1.5	77	<0.1	<0.1	<0.1	58	0.52	0.025	5
PC11 RP62	Soil		0.4	14.1	4.5	58	<0.1	7.2	5.1	468	2.03	0.8	<0.5	1.6	115	<0.1	0.1	<0.1	65	0.48	0.017	7
PC11 RP63	Soil		0.5	13.2	5.0	58	<0.1	8.1	5.8	483	2.23	1.1	<0.5	1.9	118	<0.1	0.1	<0.1	73	0.51	0.018	8
PC11 RP64	Soil		0.5	14.0	5.3	67	<0.1	9.4	10.0	504	2.67	1.3	<0.5	1.9	139	<0.1	0.1	<0.1	86	0.62	0.022	9
PC11 RP65	Soil		0.6	12.8	4.5	63	<0.1	6.8	6.0	382	2.04	1.0	<0.5	1.5	211	<0.1	<0.1	<0.1	57	0.44	0.017	6
PC11 RP66	Soil		0.7	16.5	4.6	49	<0.1	8.6	5.7	377	1.85	1.5	<0.5	1.4	66	<0.1	<0.1	<0.1	59	0.47	0.023	7
PC11 RP67	Soil		0.9	9.3	4.8	40	<0.1	6.4	5.1	480	1.52	1.4	<0.5	0.9	66	<0.1	<0.1	<0.1	39	0.53	0.035	4
PC11 RP68	Soil		0.5	19.7	5.8	64	<0.1	13.4	10.2	618	2.92	1.4	0.6	1.9	118	0.2	0.2	<0.1	80	0.72	0.046	13
PC11 RP69	Soil		0.4	13.9	5.5	70	<0.1	11.4	6.6	519	2.28	1.0	<0.5	1.8	122	0.1	<0.1	<0.1	68	0.58	0.016	13
PC11 RP70	Soil		0.5	15.5	4.2	66	<0.1	11.0	6.6	557	2.16	0.8	<0.5	1.8	77	<0.1	<0.1	<0.1	65	0.39	0.014	9
PC11 RP71	Soil		0.4	13.7	4.7	56	<0.1	11.6	6.9	449	2.16	0.8	<0.5	1.6	89	<0.1	<0.1	<0.1	71	0.43	0.014	8
PC11 RP72	Soil		3.2	21.8	12.9	44	0.2	5.2	6.2	307	2.54	8.3	2.4	3.2	37	<0.1	0.2	1.6	20	0.94	0.083	27
PC11 RP73	Soil		0.6	13.8	3.9	46	<0.1	10.3	6.5	235	2.12	1.3	0.9	1.1	26	<0.1	<0.1	<0.1	60	0.28	0.052	3
PC11 RP74	Soil		0.7	15.3	4.6	65	<0.1	16.8	6.5	442	2.08	1.8	<0.5	1.2	23	<0.1	<0.1	<0.1	62	0.31	0.121	3
PC11 RP75	Soil		0.7	14.8	4.1	65	0.1	12.5	6.3	1025	1.84	1.3	<0.5	0.8	31	0.1	<0.1	<0.1	52	0.46	0.117	3
PC11 RP76	Soil		0.5	11.0	4.9	46	<0.1	10.0	4.8	313	1.70	1.2	<0.5	0.9	27	<0.1	<0.1	<0.1	47	0.31	0.038	3
PC11 RP77	Soil		0.5	19.7	3.2	27	<0.1	11.1	5.7	160	2.35	1.6	<0.5	1.3	31	<0.1	<0.1	<0.1	85	0.31	0.050	4
PC11 RP78	Soil		0.5	14.1	4.3	57	<0.1	14.8	6.1	279	1.88	1.8	<0.5	1.2	24	<0.1	<0.1	<0.1	54	0.23	0.054	3
PC11 RP79	Soil		0.4	13.2	6.3	59	<0.1	12.1	6.8	289	2.26	1.3	<0.5	1.2	45	<0.1	<0.1	<0.1	51	0.39	0.029	3
PC11 RP80	Soil		0.5	18.7	4.5	57	<0.1	12.6	8.7	374	2.73	1.6	2.6	1.2	121	<0.1	<0.1	<0.1	71	0.63	0.030	5
PC11 RP81	Soil		0.4	9.7	4.0	69	<0.1	7.2	3.9	414	1.51	2.8	<0.5	0.8	69	0.1	<0.1	<0.1	38	0.35	0.024	3
PC11 RP82	Soil		0.5	12.1	5.3	57	<0.1	10.1	5.0	390	1.95	1.9	<0.5	1.0	102	0.1	<0.1	<0.1	51	0.40	0.041	3
PC11 RP83	Soil		0.4	14.1	4.4	47	<0.1	12.0	5.6	250	2.09	2.4	<0.5	1.0	86	<0.1	<0.1	<0.1	63	0.42	0.028	4
PC11 RP84	Soil		0.6	12.1	5.4	60	<0.1	11.0	4.9	287	1.84	2.0	<0.5	1.2	33	<0.1	<0.1	<0.1	43	0.29	0.032	4
PC11 RP85	Soil		0.5	10.4	5.8	83	<0.1	12.3	6.1	567	2.12	2.2	<0.5	0.9	95	0.1	<0.1	<0.1	58	0.45	0.030	4
PC11 RP86	Soil		0.4	21.7	5.2	107	<0.1	18.4	8.3	454	2.39	4.0	<0.5	1.1	52	0.1	<0.1	<0.1	59	0.59	0.079	6
PC11 RP87	Soil		0.6	7.5	5.8	45	<0.1	6.0	3.1	251	1.17	1.1	1.4	1.0	36	<0.1	<0.1	<0.1	33	0.26	0.023	4

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PC11 RP58	Soil			19	0.35	137	0.186	3	1.52	0.024	0.16	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 RP59	Soil			17	0.25	115	0.147	1	1.27	0.035	0.09	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP60	Soil			22	0.35	90	0.118	1	1.80	0.024	0.11	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 RP61	Soil			21	0.39	89	0.197	3	1.51	0.025	0.21	<0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP62	Soil			18	0.26	84	0.148	2	1.32	0.027	0.15	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 RP63	Soil			18	0.31	86	0.166	2	1.37	0.028	0.21	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 RP64	Soil			23	0.54	111	0.218	2	1.86	0.026	0.20	<0.1	0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
PC11 RP65	Soil			14	0.30	179	0.090	2	1.24	0.026	0.23	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP66	Soil			19	0.26	93	0.111	2	1.00	0.016	0.15	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 RP67	Soil			12	0.24	80	0.067	3	1.02	0.017	0.12	<0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 RP68	Soil			24	0.49	96	0.137	5	2.04	0.027	0.21	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP69	Soil			21	0.36	87	0.137	2	1.49	0.023	0.18	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP70	Soil			20	0.29	111	0.120	1	1.08	0.021	0.16	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP71	Soil			23	0.31	115	0.162	2	1.19	0.024	0.17	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 RP72	Soil			4	0.15	43	0.002	4	1.06	0.008	0.09	<0.1	0.02	3.2	<0.1	<0.05	4	0.6	<0.2
PC11 RP73	Soil			20	0.24	125	0.088	1	1.37	0.014	0.08	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP74	Soil			19	0.28	125	0.076	2	1.75	0.015	0.08	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PC11 RP75	Soil			17	0.23	160	0.072	3	1.30	0.018	0.10	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP76	Soil			16	0.20	78	0.088	2	1.33	0.013	0.06	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 RP77	Soil			23	0.23	58	0.092	1	0.98	0.012	0.04	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 RP78	Soil			18	0.24	99	0.086	1	1.56	0.014	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP79	Soil			19	0.36	125	0.174	2	2.40	0.029	0.07	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP80	Soil			25	0.45	91	0.201	<1	2.37	0.048	0.07	<0.1	0.01	6.2	<0.1	<0.05	6	<0.5	<0.2
PC11 RP81	Soil			15	0.20	98	0.103	2	1.39	0.027	0.08	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PC11 RP82	Soil			20	0.29	97	0.131	2	1.76	0.028	0.13	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP83	Soil			18	0.37	58	0.137	3	1.70	0.024	0.11	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP84	Soil			18	0.32	80	0.098	1	1.72	0.020	0.07	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PC11 RP85	Soil			20	0.40	101	0.164	2	2.31	0.021	0.09	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
PC11 RP86	Soil			20	0.50	110	0.160	4	3.18	0.027	0.08	<0.1	0.04	3.6	<0.1	<0.05	10	<0.5	<0.2
PC11 RP87	Soil			13	0.18	74	0.088	2	1.03	0.017	0.06	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
PC11 RP88	Soil		0.7	8.6	4.8	42	<0.1	6.2	3.7	463	1.26	1.7	<0.5	0.8	43	<0.1	<0.1	<0.1	42	0.30	0.022	3
PC11 RP89	Soil		0.8	8.3	5.1	74	<0.1	7.0	3.6	396	1.53	1.3	<0.5	1.1	58	0.1	<0.1	<0.1	45	0.33	0.021	4
PC11 KT16	Soil		0.4	13.0	3.8	55	<0.1	9.2	5.0	363	1.91	1.0	<0.5	1.3	76	0.1	<0.1	<0.1	61	0.39	0.022	6
PC11 KT17	Soil		0.4	12.8	3.7	61	<0.1	9.2	5.2	512	1.89	1.5	<0.5	1.3	79	<0.1	<0.1	<0.1	61	0.47	0.027	6
PC11 KT18	Soil		0.5	11.6	4.5	52	<0.1	8.5	5.7	504	1.80	1.6	0.6	1.3	68	<0.1	<0.1	<0.1	53	0.42	0.021	5
PC11 KT19	Soil		0.4	22.6	4.3	42	<0.1	11.1	6.6	391	2.19	1.5	5.4	1.7	84	<0.1	0.1	<0.1	61	0.51	0.018	8
PC11 KT20	Soil		0.4	22.2	4.3	48	<0.1	12.7	7.3	483	2.42	1.4	0.9	1.6	105	0.1	0.2	0.2	71	0.46	0.019	10
PC11 KT21	Soil		0.5	12.5	5.0	55	<0.1	8.2	4.6	246	1.92	2.1	0.6	1.1	193	0.2	0.3	0.2	58	0.44	0.024	4
PC11 KT22	Soil		0.8	14.3	4.6	24	<0.1	7.0	5.7	170	1.80	2.4	1.2	0.7	68	0.2	0.3	0.2	53	0.36	0.015	3
PC11 KT23	Soil		0.5	15.7	4.8	53	<0.1	8.5	5.1	288	1.76	2.5	0.9	1.2	84	<0.1	0.1	<0.1	49	0.34	0.024	3
PC11 KT24	Soil		0.8	16.9	4.6	89	0.1	10.4	5.1	386	1.65	3.9	1.2	1.2	29	0.3	0.3	0.2	49	0.24	0.059	3
PC11 KT25	Soil		0.5	13.8	3.6	84	<0.1	8.4	4.3	373	1.62	2.6	1.5	0.9	73	0.2	0.1	<0.1	43	0.34	0.024	3
PC11 KT26	Soil		0.5	15.1	4.6	68	<0.1	10.6	4.6	375	1.96	3.7	1.1	1.2	90	0.1	0.2	0.2	52	0.38	0.031	3
PC11 KT27	Soil		0.8	12.4	3.9	105	<0.1	18.2	4.4	687	1.66	3.8	0.7	1.1	53	<0.1	<0.1	<0.1	34	0.26	0.027	4
PC11 KT28	Soil		0.5	16.4	4.4	85	<0.1	22.9	6.2	702	1.73	3.1	1.8	1.2	80	0.2	0.2	0.1	42	0.37	0.024	3
PC11 KT29	Soil		0.4	12.7	4.3	52	<0.1	13.6	4.9	321	1.51	1.8	<0.5	1.2	97	0.1	0.1	0.1	37	0.33	0.011	4
PC11 KT30	Soil		0.7	11.8	3.4	63	<0.1	9.2	3.9	641	1.26	1.6	0.9	0.7	63	0.1	<0.1	<0.1	29	0.28	0.034	3
PC11 KT31	Soil		0.7	9.4	3.9	81	<0.1	7.1	3.2	566	1.21	1.2	<0.5	0.9	70	<0.1	<0.1	<0.1	28	0.27	0.015	3
PC11 KT32	Soil		0.5	10.5	4.7	44	<0.1	6.1	3.1	235	1.39	2.1	0.5	1.0	67	<0.1	<0.1	<0.1	36	0.25	0.023	4
PC11 KT33	Soil		0.5	8.7	3.7	53	<0.1	5.3	2.8	188	1.35	1.1	<0.5	0.9	46	<0.1	<0.1	<0.1	34	0.20	0.017	3
PC11 KT34	Soil		0.4	10.3	4.5	39	<0.1	5.5	3.5	189	1.63	3.3	<0.5	1.4	64	<0.1	<0.1	<0.1	43	0.35	0.033	5
PC11 KT35	Soil		0.8	8.1	4.7	61	<0.1	6.1	3.4	544	1.39	1.6	3.2	1.5	38	<0.1	<0.1	0.2	36	0.23	0.015	4
PC11 KT36	Soil		0.6	6.4	4.7	63	<0.1	5.1	3.0	478	1.40	0.8	1.2	1.2	66	<0.1	<0.1	<0.1	38	0.27	0.010	4
PC11 KT37	Soil		0.4	10.3	4.6	51	<0.1	6.3	4.6	262	2.09	0.9	0.5	1.3	113	<0.1	<0.1	<0.1	66	0.41	0.016	4
PC11 KT38	Soil		0.5	8.1	3.8	73	<0.1	6.2	4.3	507	2.05	1.1	<0.5	1.3	102	<0.1	<0.1	<0.1	58	0.51	0.020	7
PC11 KT39	Soil		0.3	9.4	4.2	63	<0.1	7.0	4.3	463	1.98	0.7	<0.5	1.2	99	<0.1	<0.1	<0.1	58	0.53	0.016	6
PC11 KT40	Soil		0.6	6.1	3.6	76	<0.1	5.1	2.8	609	1.35	1.2	0.9	0.6	60	<0.1	<0.1	<0.1	36	0.32	0.018	2
PC11 KT41	Soil		0.6	7.7	3.5	58	<0.1	6.7	3.6	426	1.42	0.9	<0.5	0.7	44	<0.1	<0.1	<0.1	41	0.26	0.017	3
PC11 KT42	Soil		0.4	8.6	4.4	52	<0.1	7.4	3.8	249	1.56	0.7	1.1	0.8	76	<0.1	<0.1	<0.1	41	0.32	0.014	3
PC11 KT43	Soil		0.5	9.5	4.8	57	<0.1	7.1	4.8	367	1.98	1.2	<0.5	1.2	138	<0.1	<0.1	<0.1	60	0.46	0.019	4

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Report Date: November 10, 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	
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	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		
PC11 RP88	Soil	14	0.16	111	0.073	2	0.82	0.016	0.07	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PC11 RP89	Soil	16	0.18	145	0.093	2	1.05	0.021	0.07	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT16	Soil	20	0.24	88	0.120	2	0.99	0.020	0.17	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT17	Soil	19	0.25	96	0.118	3	1.02	0.021	0.17	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT18	Soil	18	0.23	126	0.120	4	1.01	0.019	0.15	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 KT19	Soil	21	0.31	85	0.121	3	1.22	0.022	0.22	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT20	Soil	24	0.35	89	0.141	2	1.35	0.026	0.22	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 KT21	Soil	18	0.27	122	0.156	1	1.58	0.028	0.11	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT22	Soil	15	0.34	86	0.089	2	1.32	0.018	0.13	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT23	Soil	17	0.30	175	0.131	<1	1.35	0.017	0.13	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT24	Soil	16	0.23	93	0.100	<1	1.27	0.016	0.06	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PC11 KT25	Soil	16	0.24	126	0.114	2	1.25	0.022	0.18	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT26	Soil	21	0.30	139	0.116	3	1.45	0.024	0.17	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT27	Soil	24	0.21	152	0.077	<1	1.22	0.024	0.09	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT28	Soil	40	0.32	193	0.094	2	1.32	0.032	0.13	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 KT29	Soil	34	0.26	177	0.102	<1	1.15	0.030	0.13	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT30	Soil	21	0.22	201	0.073	<1	0.89	0.029	0.12	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
PC11 KT31	Soil	15	0.18	243	0.080	1	0.86	0.022	0.15	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT32	Soil	17	0.18	157	0.088	<1	0.92	0.019	0.11	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT33	Soil	12	0.18	149	0.083	1	0.93	0.023	0.07	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT34	Soil	13	0.17	101	0.101	1	0.80	0.016	0.15	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 KT35	Soil	13	0.16	95	0.102	<1	1.07	0.017	0.08	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT36	Soil	12	0.19	109	0.124	1	1.09	0.024	0.13	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
PC11 KT37	Soil	16	0.28	85	0.223	<1	1.37	0.035	0.11	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 KT38	Soil	12	0.31	107	0.217	2	1.55	0.028	0.18	<0.1	0.02	4.5	0.1	<0.05	5	<0.5	<0.2
PC11 KT39	Soil	15	0.28	100	0.224	1	1.33	0.036	0.15	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT40	Soil	13	0.18	88	0.119	2	0.99	0.020	0.13	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
PC11 KT41	Soil	15	0.19	106	0.120	<1	0.97	0.023	0.10	<0.1	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
PC11 KT42	Soil	16	0.21	107	0.134	<1	1.26	0.026	0.11	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PC11 KT43	Soil	18	0.27	97	0.182	<1	1.53	0.033	0.12	<0.1	0.02	3.3	<0.1	<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		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
PC11 KT44	Soil			0.4	11.3	5.2	71	<0.1	6.2	6.1	678	2.85	1.3	<0.5	1.8	121	<0.1	<0.1	<0.1	82	0.59	0.027	10
PC11 KT45	Soil			0.6	8.2	6.0	70	<0.1	5.2	3.9	473	1.57	1.7	<0.5	1.3	53	<0.1	<0.1	<0.1	37	0.51	0.025	6
PC11 KT46	Soil			0.5	7.8	4.4	79	<0.1	8.5	4.0	349	1.62	1.5	<0.5	0.8	37	<0.1	<0.1	<0.1	45	0.26	0.042	3
PC11 KT47	Soil			0.4	9.1	4.2	62	<0.1	7.0	4.2	461	1.72	1.5	<0.5	0.7	76	<0.1	<0.1	<0.1	53	0.32	0.023	3
PC11 KT48	Soil			0.5	16.6	5.3	111	<0.1	11.4	5.9	604	2.22	2.3	<0.5	1.2	56	0.1	<0.1	<0.1	61	0.49	0.040	5
PC11 KT49	Soil			0.6	10.1	5.3	98	<0.1	7.7	4.3	416	1.73	1.9	0.6	1.1	44	<0.1	<0.1	<0.1	49	0.35	0.035	4
PC11 KT50	Soil			0.5	11.0	5.1	39	<0.1	11.0	5.3	267	1.74	3.5	<0.5	0.8	35	<0.1	<0.1	<0.1	45	0.31	0.019	3
PCS-11	Soil Pulp			113.8	3202	23.9	61	2.4	35.1	19.2	386	4.14	53.5	448.2	2.0	31	0.2	3.5	0.4	120	0.32	0.087	10
PC11 KT51	Soil			0.5	59.7	6.0	34	<0.1	15.6	6.4	195	1.96	8.7	8.3	1.2	45	<0.1	<0.1	<0.1	45	0.47	0.014	8
PC11 KT52	Soil			0.8	18.1	4.5	79	0.1	12.6	5.7	228	1.71	3.0	3.1	0.8	73	<0.1	<0.1	<0.1	42	0.27	0.014	3
PC11 KT53	Soil			0.4	12.6	3.4	121	<0.1	14.3	3.1	303	1.43	3.4	1.7	0.9	35	<0.1	<0.1	<0.1	26	0.29	0.051	3
PC11 KT54	Soil			0.6	11.7	3.6	73	<0.1	7.3	2.8	552	1.18	1.6	1.4	0.8	38	<0.1	<0.1	<0.1	27	0.19	0.017	3
PC11 KT55	Soil			0.4	13.7	5.1	84	<0.1	11.5	4.7	500	1.55	3.2	1.1	1.3	114	<0.1	<0.1	<0.1	36	0.46	0.028	5
PC11 KT56	Soil			0.6	15.3	4.6	102	<0.1	16.7	6.3	915	1.75	2.1	0.7	1.3	76	<0.1	<0.1	<0.1	36	0.37	0.022	4
PC11 KT57	Soil			0.5	9.3	3.4	62	<0.1	8.3	3.1	514	1.09	1.2	<0.5	0.7	43	<0.1	<0.1	<0.1	24	0.23	0.020	2
PC11 KT58	Soil			0.6	10.0	3.7	57	<0.1	5.8	2.8	430	0.96	0.9	0.6	0.9	95	<0.1	<0.1	<0.1	23	0.26	0.012	3
PC11 KT59	Soil			0.8	6.8	4.9	68	<0.1	5.7	3.0	863	1.06	1.6	<0.5	0.9	30	<0.1	<0.1	<0.1	26	0.20	0.024	3
PC11 KT60	Soil			0.5	8.5	3.4	64	<0.1	4.7	2.6	336	1.22	1.2	<0.5	1.0	49	<0.1	<0.1	<0.1	32	0.21	0.012	3
PC11 KT61	Soil			0.6	6.6	4.6	86	<0.1	5.0	2.6	563	1.25	1.4	0.6	1.0	43	<0.1	<0.1	<0.1	31	0.26	0.016	4
PC11 KT62	Soil			0.4	11.4	4.5	60	<0.1	9.1	4.6	482	1.86	0.9	<0.5	1.3	59	<0.1	0.1	<0.1	50	0.29	0.020	5
PC11 KT63	Soil			0.5	15.7	5.2	72	<0.1	10.2	7.5	632	2.49	1.5	<0.5	1.6	85	0.1	0.1	<0.1	81	0.57	0.030	9
PC11 KT64	Soil			0.5	8.3	4.4	65	<0.1	5.8	5.6	601	2.12	1.1	<0.5	1.1	117	<0.1	<0.1	<0.1	67	0.45	0.017	4
PC11 KT65	Soil			0.5	12.1	4.6	60	<0.1	8.7	6.6	551	2.37	1.0	1.6	1.3	72	<0.1	0.1	<0.1	76	0.47	0.015	6
PC11 KT66	Soil			0.7	10.7	4.8	69	<0.1	8.1	5.7	618	2.00	0.9	<0.5	1.1	105	<0.1	<0.1	<0.1	59	0.45	0.013	4
PC11 KT67	Soil			0.7	10.0	3.1	101	<0.1	7.4	3.9	787	1.59	1.0	<0.5	0.8	46	<0.1	<0.1	<0.1	39	0.28	0.093	3
PC11 KT68	Soil			0.6	6.4	5.1	51	<0.1	6.5	4.0	446	1.36	1.0	<0.5	0.9	33	<0.1	<0.1	<0.1	29	0.34	0.017	3
PC11 KT69	Soil			0.6	12.4	4.6	94	<0.1	9.1	6.7	573	2.53	1.1	<0.5	1.3	232	0.1	<0.1	<0.1	73	0.59	0.028	5
PC11 KT70	Soil			0.6	9.8	3.6	82	<0.1	6.8	4.4	590	1.79	1.0	<0.5	1.1	132	<0.1	<0.1	<0.1	44	0.47	0.018	5
PC11 KT71	Soil			0.5	14.0	4.4	68	<0.1	7.1	6.2	334	2.82	1.5	<0.5	1.4	314	<0.1	<0.1	<0.1	72	0.65	0.031	11
PC11 KT72	Soil			0.4	10.6	4.5	69	<0.1	6.4	5.1	468	2.17	1.4	<0.5	1.4	124	<0.1	<0.1	<0.1	51	0.60	0.019	8

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Project: Princeton
 Report Date: November 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11005974.1

Method	Analyte	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 KT44	Soil	12	0.43	80	0.273	2	1.83	0.042	0.23	<0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
PC11 KT45	Soil	11	0.22	66	0.073	2	1.09	0.023	0.09	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT46	Soil	16	0.20	71	0.120	<1	1.39	0.018	0.07	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PC11 KT47	Soil	15	0.21	91	0.143	<1	1.33	0.032	0.11	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 KT48	Soil	20	0.43	83	0.183	3	2.04	0.025	0.15	<0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
PC11 KT49	Soil	16	0.25	86	0.123	<1	1.41	0.020	0.07	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PC11 KT50	Soil	18	0.28	80	0.122	2	1.48	0.019	0.11	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PCS-11	Soil Pulp	50	0.85	43	0.121	<1	1.25	0.042	0.89	3.9	0.07	9.1	0.5	1.96	5	6.9	0.7
PC11 KT51	Soil	19	0.35	52	0.116	3	1.84	0.028	0.05	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PC11 KT52	Soil	19	0.29	83	0.123	1	1.59	0.023	0.12	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PC11 KT53	Soil	20	0.25	106	0.091	1	1.54	0.024	0.15	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT54	Soil	13	0.18	167	0.088	<1	0.98	0.021	0.06	<0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT55	Soil	24	0.24	215	0.088	3	1.25	0.022	0.14	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT56	Soil	28	0.28	240	0.092	2	1.32	0.027	0.10	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 KT57	Soil	16	0.16	195	0.068	2	0.84	0.020	0.09	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 KT58	Soil	13	0.14	313	0.069	2	0.76	0.017	0.14	<0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
PC11 KT59	Soil	11	0.14	151	0.079	1	0.82	0.013	0.08	<0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT60	Soil	12	0.15	143	0.077	2	0.76	0.016	0.07	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT61	Soil	13	0.16	103	0.091	<1	1.04	0.014	0.09	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
PC11 KT62	Soil	18	0.24	88	0.144	2	1.52	0.017	0.10	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT63	Soil	23	0.38	100	0.198	2	1.55	0.026	0.13	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT64	Soil	12	0.28	117	0.220	1	1.44	0.022	0.15	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 KT65	Soil	20	0.31	91	0.201	2	1.56	0.026	0.09	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 KT66	Soil	19	0.28	116	0.170	2	1.50	0.023	0.11	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PC11 KT67	Soil	16	0.19	115	0.099	3	1.21	0.020	0.17	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT68	Soil	12	0.22	67	0.089	2	1.41	0.018	0.11	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT69	Soil	21	0.40	198	0.163	3	2.10	0.027	0.12	<0.1	<0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT70	Soil	16	0.25	114	0.107	3	1.36	0.025	0.17	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT71	Soil	18	0.33	95	0.173	2	2.00	0.028	0.13	<0.1	0.01	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT72	Soil	16	0.29	85	0.122	4	1.58	0.022	0.12	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
PC11 KT73	Soil	0.6	10.5	4.7	67	<0.1	6.8	4.3	391	1.80	1.5	<0.5	1.1	49	<0.1	<0.1	<0.1	45	0.42	0.029	4
PC11 KT74	Soil	0.8	19.4	4.2	155	<0.1	7.4	4.6	1510	1.82	1.1	<0.5	0.9	116	0.2	<0.1	<0.1	41	0.63	0.036	4
PC11 KT75	Soil	0.5	10.5	4.3	72	<0.1	9.3	5.8	687	1.85	1.2	<0.5	0.8	45	<0.1	<0.1	<0.1	45	0.37	0.021	3



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CERTIFICATE OF ANALYSIS

VAN11005974.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 KT73	Soil	15	0.21	70	0.102	3	1.21	0.019	0.10	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT74	Soil	14	0.24	124	0.090	5	1.32	0.021	0.19	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT75	Soil	17	0.28	94	0.102	3	1.38	0.019	0.04	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005974.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PC11 DH13	Soil	0.6	22.4	4.0	41	<0.1	12.1	7.4	302	2.30	2.4	<0.5	1.6	95	<0.1	<0.1	<0.1	69	0.46	0.022	9
REP PC11 DH13	QC	0.7	22.2	3.7	42	<0.1	12.1	7.4	309	2.32	2.4	<0.5	1.6	96	<0.1	0.1	<0.1	69	0.45	0.023	9
PC11 DH29	Soil	0.4	14.9	4.3	62	<0.1	12.6	6.7	441	2.19	1.3	<0.5	1.4	89	<0.1	0.1	<0.1	74	0.45	0.020	10
REP PC11 DH29	QC	0.5	14.4	4.6	62	<0.1	12.4	6.6	455	2.24	1.1	<0.5	1.5	90	<0.1	0.1	<0.1	75	0.46	0.020	10
PC11 DH42	Soil	0.5	72.1	4.8	53	<0.1	20.6	13.3	632	2.97	1.5	0.9	2.0	86	<0.1	0.2	<0.1	84	0.69	0.030	12
REP PC11 DH42	QC	0.5	75.0	4.9	56	<0.1	21.8	14.0	657	3.07	1.6	<0.5	2.1	90	<0.1	0.2	<0.1	86	0.71	0.032	13
PC11 DH56	Soil	0.5	32.5	4.4	56	<0.1	20.4	10.1	502	2.72	1.2	<0.5	1.5	89	<0.1	0.1	<0.1	78	0.53	0.018	11
REP PC11 DH56	QC	0.4	32.3	4.3	56	<0.1	21.0	10.2	514	2.76	1.1	<0.5	1.5	89	<0.1	0.1	<0.1	82	0.53	0.018	11
PC11 DH77	Soil	0.5	33.4	7.0	161	<0.1	14.1	9.0	1541	2.52	3.5	<0.5	2.2	119	0.2	0.1	0.1	56	0.91	0.037	11
REP PC11 DH77	QC	0.5	34.1	6.9	163	<0.1	15.0	8.8	1542	2.50	3.2	<0.5	2.2	119	0.2	0.1	0.1	56	0.91	0.037	11
PC11 DH95	Soil	0.5	19.5	5.9	73	<0.1	17.2	8.3	603	2.62	0.9	0.6	1.8	77	<0.1	0.1	<0.1	78	0.57	0.017	11
REP PC11 DH95	QC	0.4	20.2	6.3	71	<0.1	16.9	8.1	610	2.58	0.8	5.2	1.9	78	<0.1	0.1	<0.1	76	0.58	0.017	11
PC11 DH122	Soil	0.5	20.7	5.3	96	<0.1	14.0	7.2	922	2.64	2.7	1.0	1.6	102	0.2	0.1	<0.1	72	0.61	0.043	11
REP PC11 DH122	QC	0.5	21.0	5.4	98	<0.1	14.7	7.1	921	2.63	2.5	0.9	1.7	105	0.1	0.1	<0.1	71	0.61	0.044	11
PC11 DH130	Soil	0.5	15.5	5.5	74	<0.1	17.5	7.7	415	2.57	2.0	1.1	1.6	81	<0.1	0.1	<0.1	58	0.53	0.023	9
REP PC11 DH130	QC	0.5	16.1	5.3	74	<0.1	17.7	7.6	421	2.55	1.9	1.7	1.5	79	<0.1	0.1	<0.1	56	0.52	0.024	9
PC11 RP27	Soil	0.5	12.9	4.4	42	<0.1	7.5	5.8	429	1.92	0.9	2.8	1.3	90	<0.1	0.1	<0.1	61	0.44	0.016	6
REP PC11 RP27	QC	0.5	12.8	4.3	42	<0.1	8.1	6.1	419	1.94	1.5	<0.5	1.3	91	<0.1	0.1	<0.1	62	0.44	0.014	6
PCS-02	Soil Pulp	19.0	67.2	17.8	19	0.2	18.1	2.6	124	3.98	478.7	246.6	0.8	32	0.3	28.8	0.1	11	1.05	0.005	2
REP PCS-02	QC	17.6	63.8	19.1	18	0.2	17.4	2.7	118	3.67	451.8	207.3	0.8	41	0.2	29.9	0.1	9	0.98	0.006	2
PC11 RP70	Soil	0.5	15.5	4.2	66	<0.1	11.0	6.6	557	2.16	0.8	<0.5	1.8	77	<0.1	<0.1	<0.1	65	0.39	0.014	9
REP PC11 RP70	QC	0.4	14.9	4.2	66	<0.1	11.2	6.7	563	2.10	0.7	<0.5	1.8	77	<0.1	0.1	<0.1	65	0.39	0.014	9
PC11 RP84	Soil	0.6	12.1	5.4	60	<0.1	11.0	4.9	287	1.84	2.0	<0.5	1.2	33	<0.1	<0.1	<0.1	43	0.29	0.032	4
REP PC11 RP84	QC	0.6	11.4	5.2	55	<0.1	10.6	4.4	252	1.76	2.2	<0.5	1.1	32	<0.1	<0.1	<0.1	40	0.28	0.032	3
PC11 KT36	Soil	0.6	6.4	4.7	63	<0.1	5.1	3.0	478	1.40	0.8	1.2	1.2	66	<0.1	<0.1	<0.1	38	0.27	0.010	4
REP PC11 KT36	QC	0.5	6.7	4.5	61	<0.1	5.5	3.1	494	1.39	1.1	1.2	1.2	65	<0.1	<0.1	<0.1	37	0.28	0.010	4
PC11 KT52	Soil	0.8	18.1	4.5	79	0.1	12.6	5.7	228	1.71	3.0	3.1	0.8	73	<0.1	<0.1	<0.1	42	0.27	0.014	3
REP PC11 KT52	QC	0.7	15.9	4.3	76	<0.1	12.3	5.5	223	1.71	2.7	1.1	0.9	73	<0.1	<0.1	<0.1	41	0.27	0.013	3

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Client: Mammoth Geological Ltd.
 2446 Bidston Road
 Mill Bay BC V0R 2P4 Canada

Project: Princeton
Report Date: November 10, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005974.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	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																	
PC11 DH13	Soil	23	0.34	107	0.133	2	1.36	0.028	0.17	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
REP PC11 DH13	QC	24	0.33	104	0.137	3	1.37	0.030	0.17	<0.1	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH29	Soil	25	0.27	74	0.194	2	1.26	0.029	0.13	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
REP PC11 DH29	QC	25	0.28	73	0.203	2	1.30	0.036	0.14	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH42	Soil	27	0.59	100	0.112	3	1.83	0.028	0.24	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
REP PC11 DH42	QC	28	0.62	107	0.119	3	1.94	0.031	0.24	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 DH56	Soil	30	0.44	86	0.129	1	1.56	0.038	0.18	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH56	QC	31	0.44	85	0.138	2	1.58	0.037	0.18	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH77	Soil	18	0.40	201	0.164	5	1.80	0.025	0.34	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH77	QC	19	0.40	198	0.165	5	1.80	0.024	0.34	<0.1	0.03	4.8	<0.1	<0.05	6	0.6	<0.2
PC11 DH95	Soil	34	0.36	101	0.165	3	1.44	0.036	0.21	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH95	QC	34	0.36	102	0.162	3	1.44	0.036	0.21	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH122	Soil	25	0.30	117	0.187	3	1.96	0.022	0.11	<0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
REP PC11 DH122	QC	24	0.31	116	0.188	4	2.06	0.023	0.11	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
PC11 DH130	Soil	27	0.39	92	0.168	2	2.19	0.025	0.09	<0.1	0.02	5.5	<0.1	<0.05	7	<0.5	<0.2
REP PC11 DH130	QC	26	0.39	91	0.166	2	2.19	0.026	0.08	<0.1	0.01	5.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP27	Soil	17	0.29	101	0.157	2	1.13	0.031	0.15	<0.1	0.02	3.2	<0.1	0.05	4	<0.5	<0.2
REP PC11 RP27	QC	18	0.30	98	0.155	1	1.12	0.027	0.15	<0.1	0.02	3.2	<0.1	<0.05	4	0.7	<0.2
PCS-02	Soil Pulp	25	0.03	1292	0.012	2	0.21	0.008	0.06	2.8	3.04	0.8	11.7	0.19	<1	1.9	<0.2
REP PCS-02	QC	24	0.03	3701	0.013	5	0.22	0.008	0.06	4.1	2.92	0.7	11.4	0.33	<1	1.9	<0.2
PC11 RP70	Soil	20	0.29	111	0.120	1	1.08	0.021	0.16	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
REP PC11 RP70	QC	21	0.29	107	0.119	2	1.08	0.021	0.16	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 RP84	Soil	18	0.32	80	0.098	1	1.72	0.020	0.07	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
REP PC11 RP84	QC	17	0.30	77	0.093	1	1.59	0.019	0.06	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PC11 KT36	Soil	12	0.19	109	0.124	1	1.09	0.024	0.13	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
REP PC11 KT36	QC	12	0.18	109	0.127	<1	1.10	0.021	0.12	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT52	Soil	19	0.29	83	0.123	1	1.59	0.023	0.12	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
REP PC11 KT52	QC	19	0.29	82	0.123	1	1.59	0.022	0.11	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton

Report Date: November 10, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11005974.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 KT58	Soil	0.6	10.0	3.7	57	<0.1	5.8	2.8	430	0.96	0.9	0.6	0.9	95	<0.1	<0.1	<0.1	23	0.26	0.012	3
REP PC11 KT58	QC	0.6	9.8	3.7	57	<0.1	5.7	2.9	427	0.93	1.2	0.6	0.8	93	<0.1	<0.1	<0.1	23	0.25	0.012	3
PC11 KT70	Soil	0.6	9.8	3.6	82	<0.1	6.8	4.4	590	1.79	1.0	<0.5	1.1	132	<0.1	<0.1	<0.1	44	0.47	0.018	5
REP PC11 KT70	QC	0.6	9.4	3.6	84	<0.1	7.9	4.6	591	1.82	1.3	<0.5	1.1	130	<0.1	<0.1	<0.1	44	0.48	0.019	5
Reference Materials																					
STD DS8	Standard	13.7	113.6	129.6	316	1.8	40.2	7.8	623	2.53	23.9	111.7	6.8	64	2.3	5.6	6.2	44	0.71	0.080	16
STD DS8	Standard	13.7	112.5	128.5	330	1.8	39.9	7.7	639	2.53	26.2	119.0	7.2	77	2.2	5.9	6.8	45	0.73	0.083	15
STD DS8	Standard	14.0	123.5	138.6	335	2.0	43.8	8.6	661	2.69	26.9	117.8	8.1	69	2.5	5.5	6.4	47	0.75	0.087	16
STD DS8	Standard	12.5	115.4	129.0	315	1.9	39.4	7.5	602	2.47	25.0	111.8	7.6	62	2.4	5.0	6.0	43	0.66	0.082	13
STD DS8	Standard	12.8	105.4	126.4	308	1.8	36.3	7.0	593	2.36	24.3	119.9	7.2	77	2.3	5.9	7.0	41	0.66	0.078	15
STD DS8	Standard	13.6	108.8	127.0	302	1.7	36.9	7.3	605	2.48	25.3	108.2	7.0	70	2.2	5.6	6.7	41	0.67	0.079	15
STD DS8	Standard	12.7	107.5	119.4	310	1.8	37.0	7.6	629	2.49	24.8	113.8	6.5	69	2.2	5.6	6.4	43	0.69	0.079	16
STD DS8	Standard	13.1	109.3	123.7	306	1.8	38.5	7.5	592	2.43	23.5	108.7	7.0	65	2.2	5.5	6.6	38	0.68	0.076	16
STD DS8	Standard	13.4	113.4	129.7	318	1.9	38.4	7.8	612	2.47	26.0	114.0	7.2	69	2.4	5.0	6.8	42	0.71	0.082	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Princeton
Report Date: November 10, 2011

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN11005974.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 KT58	Soil	13	0.14	313	0.069	2	0.76	0.017	0.14	<0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2
REP PC11 KT58	QC	13	0.14	303	0.067	2	0.76	0.018	0.14	<0.1	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
PC11 KT70	Soil	16	0.25	114	0.107	3	1.36	0.025	0.17	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
REP PC11 KT70	QC	17	0.26	111	0.112	4	1.42	0.027	0.17	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	124	0.64	273	0.113	2	0.95	0.104	0.43	2.9	0.21	2.6	5.5	0.15	5	5.0	4.9
STD DS8	Standard	124	0.71	294	0.132	2	1.09	0.111	0.48	2.9	0.22	2.5	5.9	0.20	5	5.7	5.0
STD DS8	Standard	130	0.68	292	0.130	3	1.00	0.105	0.44	2.9	0.22	2.5	5.9	0.20	5	5.1	5.6
STD DS8	Standard	121	0.61	273	0.109	3	0.92	0.099	0.43	3.0	0.19	2.8	5.4	0.14	4	4.6	4.7
STD DS8	Standard	115	0.61	284	0.131	3	0.96	0.116	0.44	3.0	0.19	2.5	5.3	0.12	5	5.6	4.5
STD DS8	Standard	117	0.60	273	0.128	3	0.94	0.097	0.40	3.1	0.19	2.4	5.4	0.15	5	4.7	5.0
STD DS8	Standard	117	0.60	281	0.127	2	0.92	0.112	0.43	3.0	0.21	2.9	5.2	0.17	5	4.8	4.8
STD DS8	Standard	114	0.61	287	0.111	2	0.90	0.099	0.41	3.1	0.20	2.3	5.4	0.14	5	4.9	4.8
STD DS8	Standard	119	0.62	284	0.122	3	0.95	0.094	0.43	3.0	0.21	2.7	5.7	0.15	5	5.7	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 26, 2011
Report Date: December 07, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11005981.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 225

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include: Dry at 60C (224), SS80 (218), 1DX2 (224) with 1:1:1 Aqua Regia digestion ICP-MS analysis.

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: Princeton
 Report Date: December 07, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11005981.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP91	Soil		0.6	19.1	4.6	80	<0.1	11.8	5.5	637	1.96	2.1	1.5	1.5	85	0.1	<0.1	0.1	51	0.40	0.024	6
PC11 AP92	Soil		1.0	16.5	5.5	41	<0.1	11.0	6.7	718	1.87	2.1	0.8	1.5	87	<0.1	<0.1	0.1	50	0.52	0.021	7
PC11 AP93	Soil		0.6	10.2	5.0	78	<0.1	7.7	3.6	760	1.46	1.1	1.0	1.2	61	<0.1	0.1	<0.1	40	0.41	0.018	6
PC11 AP94	Soil		0.5	10.2	3.7	83	<0.1	5.9	3.2	556	1.55	1.0	0.5	1.3	63	<0.1	<0.1	<0.1	42	0.37	0.014	5
PC11 AP95	Soil		0.5	9.8	4.4	46	<0.1	6.6	4.7	257	1.81	1.5	<0.5	1.5	157	<0.1	0.1	<0.1	59	0.50	0.018	6
PC11 AP96	Soil		0.6	9.6	5.1	72	<0.1	7.5	5.0	788	1.81	1.1	<0.5	1.3	121	<0.1	0.1	<0.1	55	0.55	0.024	7
PC11 AP97	Soil		0.6	15.2	5.5	74	<0.1	9.2	5.6	708	2.04	2.6	<0.5	1.3	136	<0.1	0.1	<0.1	64	0.74	0.043	6
PC11 AP98	Soil		0.5	27.8	4.1	42	<0.1	9.9	6.9	362	2.33	1.3	<0.5	1.8	86	<0.1	0.1	<0.1	78	0.49	0.025	9
PC11 AP99	Soil		0.6	15.7	6.3	65	<0.1	9.3	6.9	841	2.03	1.5	<0.5	1.4	117	<0.1	0.1	<0.1	65	0.50	0.013	7
PC11 AP100	Soil		0.3	20.2	5.1	77	<0.1	9.9	7.6	598	2.70	2.0	<0.5	1.7	160	0.1	0.1	<0.1	85	0.74	0.040	10
PCS-013	Soil Pulp		124.3	3687	24.8	66	2.7	37.5	21.0	414	4.41	55.0	476.6	2.1	30	0.3	3.7	0.5	128	0.34	0.094	11
PC11 AP101	Soil		0.4	19.4	5.0	55	<0.1	9.3	8.3	698	2.57	1.8	0.8	1.6	176	0.1	0.1	<0.1	88	0.66	0.022	10
PC11 AP102	Soil		0.6	15.5	5.5	83	<0.1	9.1	6.8	1070	2.19	1.8	<0.5	1.4	123	<0.1	0.1	<0.1	62	0.57	0.022	8
PC11 AP103	Soil		0.5	9.5	4.4	86	<0.1	7.3	4.3	419	1.91	1.0	<0.5	1.1	89	<0.1	0.1	<0.1	51	0.49	0.017	5
PC11 AP104	Soil		0.4	16.1	5.6	72	<0.1	8.7	7.0	500	2.32	1.5	<0.5	1.5	129	<0.1	0.1	<0.1	66	0.59	0.044	8
PC11 AP105	Soil		0.4	10.4	5.0	82	<0.1	7.5	4.7	769	1.80	1.0	<0.5	1.3	98	<0.1	0.1	<0.1	55	0.47	0.019	6
PC11 AP136	Soil		0.6	21.0	4.2	44	<0.1	13.2	6.4	227	2.35	1.6	<0.5	1.2	38	<0.1	0.2	<0.1	68	0.43	0.036	5
PC11 AP137	Soil		0.8	16.0	4.1	48	<0.1	12.9	6.6	347	2.33	1.6	0.7	0.8	37	<0.1	<0.1	<0.1	66	0.36	0.033	3
PC11 AP138	Soil		0.5	17.1	4.3	69	<0.1	18.5	8.4	537	2.41	2.2	<0.5	1.1	33	<0.1	0.1	<0.1	66	0.34	0.120	4
PC11 AP139	Soil		0.5	44.7	4.8	46	<0.1	19.5	11.9	519	2.89	3.3	331.3	1.8	115	<0.1	0.2	<0.1	90	0.88	0.067	10
PC11 AP140	Soil		0.6	26.9	4.8	52	0.1	15.8	8.3	343	2.90	2.8	3.4	1.5	133	<0.1	0.2	<0.1	94	0.63	0.050	7
PC11 AP141	Soil		0.6	10.3	4.7	71	<0.1	12.4	6.1	525	1.95	1.4	0.9	0.9	32	<0.1	<0.1	<0.1	52	0.41	0.030	4
PC11 AP142	Soil		0.4	10.8	4.2	58	<0.1	11.5	4.8	287	1.89	1.2	0.6	0.8	35	<0.1	<0.1	<0.1	51	0.27	0.028	3
PC11 AP143	Soil		0.8	10.5	4.2	77	<0.1	10.8	4.6	634	1.53	1.1	<0.5	0.6	28	<0.1	<0.1	<0.1	37	0.26	0.041	3
PC11 AP144	Soil		0.6	11.9	4.6	54	<0.1	10.0	5.4	227	2.04	1.1	<0.5	1.0	33	<0.1	0.1	<0.1	53	0.31	0.024	3
PC11 AP145	Soil		0.6	13.9	4.5	65	<0.1	14.5	6.1	468	2.07	1.6	<0.5	0.9	35	<0.1	<0.1	<0.1	54	0.41	0.035	3
PC11 AP146	Soil		0.6	11.3	3.9	40	<0.1	11.9	5.8	534	1.94	1.1	<0.5	0.8	30	<0.1	<0.1	<0.1	47	0.39	0.033	3
PC11 AP147	Soil		0.8	51.1	5.2	42	<0.1	15.2	9.0	424	2.80	2.8	1.7	1.9	91	<0.1	0.2	<0.1	87	0.85	0.053	11
PC11 AP148	Soil		0.8	25.2	4.7	63	<0.1	11.2	6.9	729	1.88	1.6	<0.5	1.0	71	0.2	0.1	<0.1	46	0.70	0.049	5
PC11 AP149	Soil		0.9	24.0	4.5	37	<0.1	9.3	6.4	262	2.25	1.7	<0.5	1.2	53	<0.1	0.1	<0.1	64	0.46	0.022	5

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 AP91	Soil			23	0.26	166	0.102	2	1.28	0.021	0.21	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP92	Soil			22	0.27	158	0.093	2	1.18	0.020	0.17	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP93	Soil			15	0.20	140	0.105	3	0.94	0.022	0.14	<0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 AP94	Soil			14	0.17	116	0.107	3	0.97	0.022	0.17	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 AP95	Soil			17	0.22	95	0.172	2	1.19	0.022	0.20	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 AP96	Soil			16	0.26	111	0.180	3	1.24	0.033	0.25	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP97	Soil			19	0.28	122	0.177	6	1.26	0.026	0.28	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 AP98	Soil			21	0.29	100	0.145	3	1.28	0.021	0.22	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 AP99	Soil			20	0.27	152	0.164	2	1.22	0.026	0.21	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 AP100	Soil			22	0.34	118	0.200	5	1.89	0.034	0.35	<0.1	0.02	5.6	<0.1	<0.05	6	<0.5	<0.2
PCS-013	Soil Pulp			54	0.91	47	0.123	1	1.42	0.044	0.94	4.2	0.08	10.2	0.6	2.09	6	6.7	0.8
PC11 AP101	Soil			21	0.32	112	0.188	2	1.66	0.039	0.23	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP102	Soil			21	0.29	125	0.167	3	1.57	0.032	0.29	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 AP103	Soil			16	0.26	88	0.176	3	1.51	0.028	0.20	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP104	Soil			19	0.35	126	0.162	5	1.55	0.025	0.33	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP105	Soil			15	0.22	148	0.143	3	1.09	0.026	0.20	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 AP136	Soil			21	0.30	106	0.118	1	1.55	0.019	0.07	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP137	Soil			21	0.31	96	0.108	2	1.50	0.019	0.07	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP138	Soil			25	0.30	134	0.115	3	1.83	0.021	0.09	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PC11 AP139	Soil			26	0.59	80	0.160	2	1.74	0.057	0.08	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 AP140	Soil			24	0.43	81	0.181	2	1.75	0.031	0.10	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
PC11 AP141	Soil			19	0.26	84	0.122	3	1.80	0.026	0.07	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 AP142	Soil			20	0.22	85	0.125	<1	1.65	0.020	0.06	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PC11 AP143	Soil			15	0.17	97	0.096	1	1.35	0.020	0.07	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PC11 AP144	Soil			19	0.27	73	0.131	2	1.68	0.022	0.07	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PC11 AP145	Soil			21	0.29	82	0.133	3	1.65	0.021	0.11	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PC11 AP146	Soil			20	0.26	67	0.121	4	1.62	0.024	0.09	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PC11 AP147	Soil			22	0.50	74	0.133	3	1.76	0.030	0.09	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 AP148	Soil			17	0.33	88	0.114	5	1.51	0.023	0.15	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP149	Soil			20	0.34	67	0.125	2	1.45	0.021	0.10	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: December 07, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 AP150	Soil	0.7	17.5	4.3	53	<0.1	11.0	5.5	361	2.21	1.9	<0.5	1.0	47	<0.1	0.1	<0.1	64	0.42	0.027	5
PCS-011	Soil Pulp	133.9	3611	24.7	64	2.5	36.6	20.3	410	4.41	54.7	468.1	2.1	31	0.4	3.5	0.4	130	0.34	0.094	11
PC11 AP272	Soil	0.9	13.2	4.9	63	<0.1	9.9	6.3	479	1.98	1.2	0.7	1.0	65	0.1	0.1	<0.1	53	0.42	0.019	5
PC11 AP273	Soil	0.4	15.5	4.7	89	<0.1	12.4	5.6	694	1.96	1.4	1.4	1.2	58	0.1	0.1	<0.1	50	0.44	0.021	6
PC11 AP274	Soil	0.6	16.9	5.6	65	<0.1	12.8	7.0	722	2.23	1.5	1.1	1.2	90	0.1	0.2	<0.1	55	0.67	0.024	7
PC11 AP275	Soil	0.4	25.7	4.5	95	<0.1	19.6	8.1	566	2.96	2.5	3.0	1.5	115	<0.1	0.1	<0.1	63	0.86	0.034	8
PC11 AP276	Soil	0.6	18.5	4.6	94	<0.1	14.8	7.6	1104	2.13	2.1	0.5	0.9	63	0.1	0.1	0.1	48	0.55	0.023	6
PC11 AP277	Soil	0.7	40.0	4.9	50	<0.1	21.7	11.3	409	2.88	3.9	7.9	1.6	118	0.1	0.2	<0.1	79	0.90	0.038	9
PC11 AP278	Soil	0.4	28.6	4.8	51	<0.1	17.4	10.4	459	2.66	2.5	<0.5	1.5	97	0.1	0.2	<0.1	78	0.66	0.025	9
PC11 AP279	Soil	0.5	18.7	5.2	61	<0.1	18.0	8.7	688	2.29	1.7	<0.5	1.4	63	0.1	0.1	<0.1	53	0.50	0.017	8
PC11 AP280	Soil	0.5	20.2	5.8	68	<0.1	17.4	8.9	829	2.21	1.6	0.9	1.3	65	0.2	0.1	<0.1	49	0.54	0.022	9
PC11 DH136	Soil	0.2	26.4	4.5	58	<0.1	34.1	10.4	396	2.62	1.4	1.2	1.9	63	<0.1	<0.1	<0.1	57	0.66	0.034	11
PC11 DH137	Soil	0.4	27.7	5.6	83	<0.1	25.8	8.9	461	2.88	2.6	<0.5	1.7	80	0.1	<0.1	<0.1	71	0.81	0.043	11
PC11 DH138	Soil	0.4	22.8	5.2	64	<0.1	21.6	8.1	376	2.52	1.3	<0.5	1.6	65	0.1	0.1	<0.1	68	0.53	0.019	12
PC11 DH139	Soil	0.4	27.2	5.1	61	<0.1	27.0	11.0	672	2.59	1.5	7.2	1.4	79	<0.1	0.1	<0.1	83	0.62	0.020	10
PC11 DH140	Soil	0.4	21.4	5.6	65	<0.1	20.0	8.3	397	2.48	0.9	<0.5	1.8	68	<0.1	0.1	<0.1	64	0.57	0.024	11
PC11 DH141	Soil	0.5	14.6	5.1	89	<0.1	16.1	6.9	574	2.15	0.8	1.1	1.4	48	<0.1	0.1	<0.1	48	0.44	0.016	6
PC11 DH142	Soil	0.3	19.5	8.7	51	0.1	9.5	5.8	614	1.75	1.0	0.9	3.3	50	0.1	0.1	<0.1	35	0.69	0.018	20
PC11 DH143	Soil	0.3	13.1	5.9	55	<0.1	12.6	6.5	371	1.99	0.8	<0.5	1.7	45	<0.1	0.1	0.1	50	0.42	0.014	12
PC11 DH144	Soil	0.2	19.1	6.1	57	<0.1	16.8	7.3	325	2.24	0.8	<0.5	1.9	93	<0.1	0.1	<0.1	52	0.50	0.015	14
PC11 DH145	Soil	0.3	11.9	6.0	50	<0.1	12.8	5.7	248	1.80	0.6	<0.5	1.3	90	<0.1	<0.1	<0.1	51	0.40	0.011	9
PC11 DH146	Soil	0.5	14.7	7.4	63	0.1	10.1	5.6	481	2.39	1.0	<0.5	2.2	93	<0.1	0.2	<0.1	55	0.91	0.032	19
PC11 DH147	Soil	0.4	24.7	6.3	60	<0.1	22.1	8.9	691	2.45	1.1	<0.5	1.6	81	0.2	0.1	<0.1	65	0.60	0.021	14
PC11 DH148	Soil	0.6	36.4	3.2	33	<0.1	12.7	7.0	339	2.28	1.9	<0.5	1.0	50	0.1	0.1	<0.1	75	0.70	0.066	7
PC11 DH149	Soil	0.5	16.3	3.0	90	<0.1	9.2	5.3	467	1.73	0.7	<0.5	0.9	29	0.1	<0.1	<0.1	48	0.28	0.028	3
PC11 DH150	Soil	0.5	51.8	3.9	42	<0.1	16.3	9.6	378	2.77	1.7	1.2	1.8	39	<0.1	0.1	<0.1	74	0.51	0.031	7
PCS-012	Soil Pulp	15.3	59.8	16.7	16	0.1	15.5	2.3	100	3.44	411.8	198.9	0.7	27	0.3	25.6	0.1	9	0.90	0.005	2
PC11 DH151	Soil	0.6	80.1	3.6	31	<0.1	16.1	9.3	279	2.75	2.2	<0.5	1.9	45	<0.1	0.1	<0.1	90	0.56	0.048	9
PC11 DH152	Soil	0.5	32.9	3.6	59	<0.1	14.6	8.4	565	2.73	1.2	1.0	1.3	49	<0.1	<0.1	<0.1	80	0.52	0.064	7
PC11 DH153	Soil	0.4	65.4	3.4	41	<0.1	20.4	10.2	435	2.65	1.9	1.2	1.6	62	0.1	0.2	<0.1	77	1.30	0.072	8

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		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
MDL		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	
PC11 AP150	Soil	21	0.27	81	0.138	2	1.36	0.021	0.11	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PCS-011	Soil Pulp	54	0.93	47	0.127	2	1.47	0.043	0.94	4.4	0.07	10.3	0.5	2.05	6	7.5	0.9
PC11 AP272	Soil	23	0.30	108	0.137	2	1.31	0.029	0.09	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP273	Soil	23	0.30	135	0.138	4	1.27	0.030	0.16	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 AP274	Soil	25	0.36	108	0.137	5	1.61	0.032	0.15	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 AP275	Soil	31	0.55	101	0.157	8	3.01	0.030	0.24	<0.1	0.02	5.9	<0.1	<0.05	8	<0.5	<0.2
PC11 AP276	Soil	23	0.41	131	0.074	5	1.51	0.017	0.20	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 AP277	Soil	29	0.61	98	0.125	3	2.33	0.042	0.11	<0.1	0.03	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 AP278	Soil	29	0.52	107	0.133	2	2.04	0.046	0.11	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 AP279	Soil	27	0.42	135	0.099	2	1.57	0.019	0.17	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 AP280	Soil	26	0.43	142	0.095	3	1.57	0.019	0.18	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH136	Soil	32	0.67	125	0.162	4	2.46	0.021	0.12	<0.1	0.02	5.9	<0.1	<0.05	8	<0.5	<0.2
PC11 DH137	Soil	48	0.66	49	0.229	4	2.53	0.021	0.12	<0.1	0.02	6.2	<0.1	<0.05	9	<0.5	<0.2
PC11 DH138	Soil	40	0.46	74	0.171	2	1.84	0.022	0.11	<0.1	<0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH139	Soil	45	0.59	76	0.193	2	1.59	0.038	0.19	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 DH140	Soil	36	0.47	73	0.147	2	1.89	0.028	0.13	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 DH141	Soil	26	0.35	111	0.122	3	1.94	0.022	0.09	<0.1	<0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH142	Soil	14	0.28	76	0.064	2	1.61	0.016	0.09	<0.1	<0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
PC11 DH143	Soil	23	0.30	90	0.121	3	1.56	0.019	0.11	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH144	Soil	24	0.42	121	0.130	2	2.15	0.022	0.15	<0.1	0.01	4.5	<0.1	<0.05	7	<0.5	<0.2
PC11 DH145	Soil	27	0.29	100	0.141	1	1.35	0.029	0.13	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH146	Soil	17	0.37	89	0.211	3	2.96	0.019	0.20	<0.1	<0.01	5.2	<0.1	<0.05	12	<0.5	<0.2
PC11 DH147	Soil	35	0.43	110	0.152	2	1.87	0.028	0.14	<0.1	0.01	4.9	<0.1	<0.05	7	<0.5	<0.2
PC11 DH148	Soil	19	0.32	74	0.065	5	0.86	0.014	0.09	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 DH149	Soil	16	0.24	130	0.079	3	0.99	0.017	0.13	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PC11 DH150	Soil	23	0.45	99	0.082	3	1.34	0.020	0.12	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PCS-012	Soil Pulp	21	0.02	813	0.010	<1	0.16	0.007	0.06	2.3	2.74	0.5	10.2	0.14	<1	1.8	<0.2
PC11 DH151	Soil	21	0.48	80	0.082	1	1.23	0.021	0.06	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH152	Soil	24	0.30	149	0.077	7	1.06	0.015	0.24	<0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH153	Soil	22	0.62	101	0.076	4	1.12	0.024	0.18	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: December 07, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 DH154	Soil			0.7	49.8	3.4	33	<0.1	18.2	10.0	333	3.24	3.6	19.1	1.5	55	<0.1	0.2	<0.1	118	0.68	0.057	9
PC11 DH155	Soil			0.8	78.6	4.0	29	<0.1	18.1	11.2	443	3.59	3.8	5.6	2.1	56	0.1	0.2	<0.1	118	0.74	0.055	16
PC11 DH156	Soil			0.7	121.5	5.1	42	<0.1	17.6	12.9	494	2.84	3.4	1.9	2.6	71	0.2	0.3	<0.1	73	1.35	0.039	13
PC11 DH157	Soil			0.5	49.8	3.9	43	<0.1	17.9	10.2	436	2.82	1.5	5.9	1.9	42	<0.1	0.2	<0.1	70	0.51	0.026	9
PC11 DH158	Soil			0.5	43.1	4.3	65	<0.1	14.8	9.6	910	2.35	1.2	<0.5	1.7	52	0.2	<0.1	<0.1	53	0.60	0.028	7
PC11 DH159	Soil			0.7	99.5	5.4	39	<0.1	17.6	11.3	497	3.01	2.3	2.1	2.3	61	0.2	0.2	<0.1	85	0.89	0.053	10
PC11 DH160	Soil			0.4	46.2	3.7	40	<0.1	19.7	9.9	406	2.67	1.2	0.8	1.5	48	0.1	0.1	<0.1	68	0.45	0.026	8
PC11 DH161	Soil			0.6	43.7	2.8	28	<0.1	15.9	8.4	277	3.17	2.0	0.9	1.2	38	<0.1	0.2	<0.1	125	0.58	0.065	6
PC11 DH162	Soil			1.6	37.0	3.2	27	<0.1	12.1	7.1	357	2.22	1.9	2.9	0.7	102	0.1	0.2	<0.1	77	1.56	0.058	6
PC11 DH163	Soil			0.6	88.0	3.7	37	<0.1	15.7	8.4	350	2.88	2.3	1.2	1.6	53	0.1	0.2	<0.1	91	0.64	0.077	9
PC11 DH164	Soil			0.4	63.8	4.7	37	<0.1	18.4	8.3	287	2.56	1.6	2.4	1.6	52	0.2	0.2	<0.1	69	0.54	0.033	8
PC11 DH165	Soil			0.5	76.8	3.3	49	0.1	41.7	15.9	402	3.40	1.4	1.6	1.9	52	<0.1	0.2	<0.1	72	0.75	0.097	9
PC11 DH166	Soil			0.4	26.3	3.8	40	<0.1	23.0	10.4	436	2.50	1.2	1.0	1.3	36	<0.1	0.1	<0.1	65	0.38	0.013	9
PC11 DH167	Soil			0.4	20.3	3.8	42	<0.1	18.6	8.5	335	2.09	1.1	<0.5	1.3	34	<0.1	0.1	<0.1	54	0.35	0.010	8
PC11 DH168	Soil			0.4	25.7	3.6	35	<0.1	20.2	9.0	292	2.38	1.0	<0.5	1.3	35	<0.1	0.2	<0.1	65	0.38	0.010	8
PC11 DH169	Soil			0.4	68.4	4.2	48	<0.1	38.4	14.8	414	3.24	2.1	1.8	1.6	56	<0.1	0.2	<0.1	77	1.04	0.059	10
PC11 DH170	Soil			0.8	57.8	5.9	48	<0.1	20.9	11.2	482	2.87	4.4	5.6	1.4	63	<0.1	0.2	<0.1	73	1.00	0.060	12
PC11 DH171	Soil			0.4	76.9	4.6	44	0.2	33.3	13.7	413	3.06	2.7	3.2	1.9	66	0.1	0.2	<0.1	77	1.44	0.089	10
PC11 DH172	Soil			0.3	49.1	3.5	40	<0.1	23.9	10.5	354	2.63	2.2	0.7	1.5	38	0.1	0.2	<0.1	71	0.49	0.040	8
PC11 DH173	Soil			0.4	37.7	3.7	39	<0.1	16.9	8.6	457	2.26	1.6	1.3	1.3	41	<0.1	0.1	<0.1	64	0.42	0.015	8
PC11 DH174	Soil			0.4	59.4	3.6	31	<0.1	20.2	8.3	241	2.76	1.8	1.7	1.5	48	<0.1	0.2	<0.1	77	0.51	0.037	7
PC11 DH175	Soil			0.5	51.1	4.1	46	<0.1	25.3	10.9	426	2.86	2.1	<0.5	1.5	44	<0.1	0.2	<0.1	70	0.59	0.028	9
PC11 DH176	Soil			0.4	60.4	4.3	46	<0.1	36.6	11.2	332	3.24	2.2	2.5	1.6	41	0.1	0.2	<0.1	76	0.55	0.025	9
PC11 DH177	Soil			0.4	21.5	3.7	34	<0.1	19.1	8.2	333	2.16	1.6	<0.5	1.2	35	<0.1	0.2	<0.1	64	0.37	0.009	7
PC11 DH178	Soil			0.4	24.7	3.4	41	<0.1	16.5	7.7	364	2.19	1.2	<0.5	1.4	45	<0.1	0.1	<0.1	68	0.39	0.010	7
PC11 DH179	Soil			0.4	65.6	5.2	50	0.1	26.6	12.2	412	2.96	2.5	8.3	1.7	64	0.1	0.2	<0.1	74	0.91	0.071	10
PC11 DH180	Soil			0.5	65.8	5.1	43	0.1	23.4	11.2	396	2.97	2.7	1.8	1.8	54	<0.1	0.2	<0.1	78	0.96	0.047	10
PC11 DH181	Soil			0.4	22.7	3.9	48	<0.1	15.9	8.2	455	2.27	1.2	<0.5	1.2	46	<0.1	0.1	<0.1	55	0.45	0.013	7
PC11 DH182	Soil			0.6	8.0	4.0	63	<0.1	8.0	4.7	352	1.42	1.4	0.6	0.6	34	<0.1	<0.1	<0.1	40	0.36	0.022	3
PC11 DH183	Soil			0.4	22.9	3.9	32	<0.1	15.8	7.3	466	2.12	1.3	0.6	1.1	36	<0.1	0.1	<0.1	63	0.39	0.015	8

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Project: Princeton
Report Date: December 07, 2011

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CERTIFICATE OF ANALYSIS

VAN11005981.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 DH154	Soil			26	0.51	71	0.088	2	0.92	0.022	0.11	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH155	Soil			27	0.46	98	0.084	2	1.14	0.018	0.09	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH156	Soil			21	0.68	134	0.078	5	1.57	0.021	0.19	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH157	Soil			26	0.40	112	0.098	2	1.56	0.019	0.15	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH158	Soil			22	0.35	189	0.089	4	1.41	0.022	0.14	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH159	Soil			25	0.54	122	0.088	2	1.41	0.024	0.14	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH160	Soil			25	0.39	82	0.095	6	1.25	0.017	0.28	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH161	Soil			26	0.46	52	0.074	<1	0.75	0.016	0.05	<0.1	0.01	1.9	<0.1	<0.05	3	0.7	<0.2
PC11 DH162	Soil			34	0.42	65	0.067	12	0.78	0.015	0.08	0.2	0.04	2.1	<0.1	0.08	3	0.6	<0.2
PC11 DH163	Soil			23	0.47	106	0.074	3	1.13	0.016	0.08	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH164	Soil			28	0.47	88	0.095	<1	1.50	0.021	0.09	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 DH165	Soil			30	0.70	87	0.114	2	1.58	0.048	0.12	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH166	Soil			32	0.35	79	0.124	3	1.20	0.022	0.13	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH167	Soil			28	0.27	78	0.120	3	1.05	0.023	0.14	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 DH168	Soil			31	0.35	67	0.127	2	1.17	0.022	0.12	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH169	Soil			32	0.80	74	0.118	3	1.50	0.043	0.15	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH170	Soil			27	0.82	72	0.112	2	1.59	0.024	0.09	<0.1	<0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
PC11 DH171	Soil			32	0.85	91	0.105	3	1.57	0.042	0.14	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH172	Soil			28	0.55	76	0.091	3	1.19	0.024	0.11	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH173	Soil			26	0.35	86	0.107	2	1.15	0.025	0.14	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH174	Soil			30	0.48	86	0.091	1	1.39	0.021	0.06	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH175	Soil			33	0.55	87	0.106	3	1.51	0.024	0.18	<0.1	<0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH176	Soil			49	0.62	103	0.106	2	1.73	0.023	0.16	<0.1	<0.01	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 DH177	Soil			30	0.33	73	0.127	2	0.97	0.025	0.15	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 DH178	Soil			28	0.38	78	0.115	1	1.10	0.022	0.10	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH179	Soil			34	0.71	112	0.085	3	1.68	0.020	0.14	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH180	Soil			30	0.66	94	0.108	1	1.50	0.025	0.15	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH181	Soil			29	0.32	103	0.116	2	1.18	0.019	0.18	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH182	Soil			18	0.19	102	0.102	1	0.84	0.017	0.10	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 DH183	Soil			26	0.32	79	0.118	1	1.02	0.018	0.10	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 DH184	Soil	0.4	60.7	3.3	33	<0.1	9.8	6.9	361	2.21	1.1	0.5	1.3	38	<0.1	0.1	<0.1	64	0.47	0.014	8
PC11 DH185	Soil	0.5	42.7	3.2	35	<0.1	18.2	10.3	421	2.45	1.0	1.1	1.3	42	<0.1	0.1	<0.1	70	0.49	0.023	10
PC11 DH186	Soil	0.4	22.1	2.9	37	<0.1	16.2	8.4	374	2.11	0.6	1.1	1.2	32	<0.1	0.1	<0.1	58	0.33	0.011	8
PC11 DH187	Soil	0.5	89.7	5.0	48	<0.1	29.8	14.0	458	3.47	2.4	2.2	2.0	55	<0.1	0.3	<0.1	80	0.65	0.043	11
PC11 DH188	Soil	0.7	120.4	3.1	30	<0.1	11.5	7.4	390	2.26	2.1	1.6	1.4	43	<0.1	0.2	<0.1	66	0.75	0.060	8
PC11 DH189	Soil	0.6	69.5	5.0	46	<0.1	25.2	13.5	416	2.94	2.7	2.4	1.8	66	<0.1	0.2	<0.1	74	0.68	0.049	11
PC11 DH190	Soil	0.5	104.8	4.4	50	<0.1	36.8	16.2	513	3.39	2.6	2.8	2.2	55	<0.1	0.3	<0.1	83	0.91	0.090	11
PC11 DH191	Soil	0.4	46.1	3.5	30	<0.1	25.8	10.5	304	2.94	1.8	1.9	1.3	37	<0.1	0.1	<0.1	85	0.54	0.067	7
PC11 DH192	Soil	0.5	54.7	3.9	41	<0.1	23.9	12.2	516	2.66	1.8	0.7	1.5	46	0.1	0.2	<0.1	76	0.67	0.033	9
PC11 DH193	Soil	0.4	46.2	4.1	48	<0.1	19.8	9.6	389	2.57	1.3	<0.5	1.6	43	<0.1	0.1	<0.1	61	0.52	0.031	10
PC11 DH194	Soil	0.3	17.8	3.8	40	<0.1	16.6	7.7	322	2.06	0.6	<0.5	1.3	36	<0.1	<0.1	<0.1	54	0.35	0.010	7
PC11 DH195	Soil	0.4	16.2	3.3	34	<0.1	16.2	7.7	291	2.02	0.8	<0.5	1.1	38	<0.1	0.1	<0.1	59	0.35	0.009	7
PC11 DH196	Soil	0.4	25.5	3.9	40	<0.1	18.7	8.8	396	2.27	1.1	1.0	1.1	36	<0.1	0.1	<0.1	61	0.40	0.021	8
PC11 DH197	Soil	0.5	16.5	3.8	47	<0.1	14.2	7.2	345	1.98	0.7	<0.5	1.1	35	<0.1	0.1	<0.1	55	0.37	0.015	7
PC11 DH198	Soil	0.4	17.8	3.9	43	<0.1	15.3	7.7	252	2.05	0.8	0.8	1.3	36	<0.1	0.1	<0.1	56	0.39	0.014	8
PC11 DH199	Soil	0.5	18.2	4.4	55	<0.1	15.6	7.6	388	2.02	0.9	<0.5	1.3	38	<0.1	0.1	<0.1	52	0.43	0.017	8
PC11 DH200	Soil	0.5	37.6	4.5	60	<0.1	21.2	9.1	418	2.40	1.6	0.7	1.2	46	<0.1	0.2	<0.1	57	0.61	0.038	8
PCS-09	Soil Pulp	106.7	3616	24.5	63	2.5	36.8	20.2	403	4.34	56.0	542.5	2.0	29	0.4	3.6	0.4	124	0.32	0.091	10
PC11 DH201	Soil	0.5	35.6	3.8	46	<0.1	23.6	11.8	339	2.62	1.6	1.7	1.4	40	<0.1	0.1	<0.1	75	0.44	0.032	9
PC11 DH202	Soil	0.4	21.5	3.7	51	<0.1	16.1	8.7	313	2.11	0.9	0.9	1.3	37	0.1	0.1	<0.1	55	0.41	0.022	7
PC11 DH203	Soil	0.6	22.7	3.3	45	<0.1	18.4	9.2	441	2.15	0.8	0.8	1.2	36	<0.1	<0.1	<0.1	58	0.36	0.016	7
PC11 DH204	Soil	0.4	17.1	3.4	48	<0.1	14.9	7.2	276	2.03	0.9	<0.5	1.2	36	<0.1	<0.1	<0.1	55	0.36	0.017	7
PC11 DH205	Soil	0.4	17.7	4.0	49	<0.1	14.2	7.4	297	2.09	0.9	1.0	1.3	39	<0.1	0.1	<0.1	58	0.40	0.015	7
PC11 DH206	Soil	0.4	18.6	3.9	46	<0.1	12.3	6.4	206	1.98	1.3	<0.5	1.2	39	<0.1	0.2	<0.1	56	0.38	0.025	7
PC11 DH207	Soil	0.4	12.9	3.5	42	<0.1	10.6	6.1	345	1.65	1.0	1.0	0.9	32	<0.1	<0.1	<0.1	48	0.32	0.015	5
PC11 DH208	Soil	0.4	15.7	3.6	48	<0.1	11.5	6.1	292	1.83	1.1	0.7	1.0	34	<0.1	<0.1	<0.1	56	0.37	0.017	6
PC11 DH209	Soil	0.4	13.6	3.4	53	<0.1	10.6	6.0	325	1.68	1.2	0.9	0.8	33	<0.1	0.1	<0.1	49	0.34	0.023	4
PC11 DH210	Soil	0.4	16.0	3.5	34	<0.1	10.4	6.4	172	1.80	1.2	<0.5	1.1	34	<0.1	0.1	<0.1	58	0.33	0.014	5
PC11 DH211	Soil	0.5	12.7	3.5	45	<0.1	10.2	5.5	248	1.70	0.8	0.8	0.8	33	<0.1	<0.1	<0.1	51	0.33	0.015	4
PC11 DH212	Soil	0.6	31.3	4.4	92	<0.1	16.3	9.0	613	2.11	1.3	1.0	1.4	45	0.1	<0.1	<0.1	48	0.50	0.048	7

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
PC11 DH184	Soil	18	0.33	86	0.087	1	1.19	0.015	0.12	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH185	Soil	25	0.39	75	0.110	1	1.19	0.024	0.11	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH186	Soil	22	0.27	92	0.100	1	0.86	0.022	0.17	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 DH187	Soil	29	0.63	129	0.087	2	1.95	0.023	0.18	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 DH188	Soil	17	0.38	104	0.071	2	0.97	0.021	0.09	0.2	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH189	Soil	29	0.72	114	0.064	<1	1.72	0.019	0.08	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH190	Soil	29	0.86	118	0.098	2	1.61	0.043	0.14	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH191	Soil	30	0.52	59	0.085	1	1.11	0.022	0.09	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH192	Soil	29	0.49	88	0.104	2	1.16	0.026	0.16	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH193	Soil	30	0.45	85	0.102	4	1.45	0.018	0.22	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH194	Soil	29	0.30	80	0.121	2	1.08	0.025	0.13	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH195	Soil	31	0.33	69	0.122	2	0.99	0.024	0.14	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 DH196	Soil	30	0.37	71	0.117	1	1.14	0.021	0.18	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH197	Soil	26	0.28	90	0.117	2	0.97	0.022	0.13	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 DH198	Soil	28	0.29	87	0.123	<1	1.02	0.021	0.13	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
PC11 DH199	Soil	26	0.32	93	0.119	2	1.07	0.020	0.17	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH200	Soil	28	0.45	113	0.102	2	1.30	0.023	0.13	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
PCS-09	Soil Pulp	51	0.88	47	0.116	<1	1.27	0.038	0.91	4.2	0.06	9.4	0.5	1.94	5	5.7	0.8
PC11 DH201	Soil	33	0.44	76	0.122	4	1.25	0.022	0.11	<0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH202	Soil	28	0.32	91	0.121	6	1.13	0.021	0.12	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH203	Soil	29	0.35	86	0.119	4	1.03	0.024	0.18	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH204	Soil	27	0.31	96	0.120	3	1.15	0.024	0.12	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH205	Soil	26	0.33	104	0.127	3	1.23	0.017	0.15	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH206	Soil	23	0.31	94	0.122	3	1.17	0.018	0.14	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH207	Soil	21	0.27	98	0.107	2	0.90	0.016	0.11	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 DH208	Soil	24	0.28	97	0.125	2	0.94	0.018	0.13	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 DH209	Soil	22	0.27	107	0.113	4	0.96	0.022	0.14	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 DH210	Soil	24	0.26	75	0.128	2	0.92	0.018	0.10	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 DH211	Soil	24	0.24	100	0.120	2	0.94	0.023	0.08	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 DH212	Soil	27	0.34	209	0.108	4	1.33	0.023	0.18	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: December 07, 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	1DX15	1DX15
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	
PC11 DH213	Soil	0.4	24.2	3.7	47	<0.1	15.8	8.6	274	2.33	1.5	3.2	1.3	45	<0.1	0.1	<0.1	61	0.45	0.031	8
PC11 DH214	Soil	0.7	14.2	3.9	77	<0.1	13.7	6.1	275	2.02	1.3	3.8	1.0	38	<0.1	<0.1	<0.1	49	0.34	0.039	3
PC11 DH215	Soil	0.7	15.3	3.7	63	<0.1	10.7	5.4	345	1.81	1.4	1.2	1.0	45	<0.1	<0.1	<0.1	45	0.46	0.033	4
PC11 DH216	Soil	0.4	12.2	5.4	52	<0.1	9.5	5.1	294	1.78	1.8	1.2	1.2	70	<0.1	<0.1	0.1	42	0.42	0.021	5
PC11 DH217	Soil	0.5	25.0	3.9	44	<0.1	15.5	7.5	178	2.55	2.3	3.6	1.5	57	<0.1	0.2	<0.1	64	0.45	0.044	9
PC11 DH218	Soil	0.6	13.7	3.3	58	<0.1	10.9	5.9	451	1.69	1.0	0.7	0.7	28	0.1	<0.1	<0.1	38	0.42	0.031	3
PC11 DH219	Soil	0.4	18.6	3.3	63	<0.1	13.0	6.7	280	2.14	0.9	0.8	1.2	36	<0.1	0.1	<0.1	55	0.39	0.021	5
PC11 DH220	Soil	0.5	29.1	4.2	67	<0.1	16.3	8.4	340	2.49	1.6	<0.5	1.7	52	<0.1	0.1	<0.1	57	0.54	0.032	8
PC11 DH221	Soil	0.5	25.4	3.5	44	<0.1	20.0	9.0	208	2.31	1.3	<0.5	1.5	40	<0.1	0.1	<0.1	64	0.39	0.025	6
PC11 DH222	Soil	0.6	17.3	3.9	57	<0.1	10.8	5.8	417	1.84	1.4	<0.5	0.9	41	0.1	<0.1	<0.1	40	0.56	0.036	5
PC11 DH223	Soil	0.5	21.3	4.2	67	<0.1	15.4	7.5	614	2.11	1.8	<0.5	1.2	47	0.1	0.1	<0.1	49	0.46	0.035	6
PC11 DH224	Soil	0.5	22.0	3.7	34	<0.1	13.1	7.3	433	2.13	0.8	<0.5	1.2	32	<0.1	<0.1	<0.1	53	0.51	0.017	5
PC11 DH225	Soil	0.5	34.0	4.0	63	<0.1	20.7	9.8	534	2.61	1.5	1.1	1.6	41	<0.1	0.1	<0.1	59	0.46	0.036	8
PC11 DH226	Soil	0.6	18.5	3.2	43	<0.1	13.8	6.9	295	2.19	1.9	0.8	1.0	40	<0.1	0.1	<0.1	56	0.40	0.025	3
PC11 DH227	Soil	0.5	23.6	3.8	44	<0.1	16.8	8.6	181	2.32	1.9	0.7	1.5	45	<0.1	0.1	<0.1	58	0.42	0.032	9
PC11 DH228	Soil	0.6	25.3	3.9	59	<0.1	16.5	8.5	299	2.29	1.6	0.9	1.3	44	0.1	0.1	<0.1	59	0.45	0.024	6
PC11 DH229	Soil	0.5	16.8	3.5	45	<0.1	11.9	6.7	287	1.94	1.2	0.9	1.0	40	<0.1	0.1	<0.1	55	0.36	0.017	3
PC11 DH230	Soil	0.5	24.1	3.5	54	<0.1	15.6	9.0	356	2.28	0.9	1.3	1.4	44	<0.1	0.1	<0.1	58	0.43	0.016	6
PC11 DH231	Soil	0.8	129.8	3.5	42	<0.1	19.4	10.2	379	2.64	2.6	1.6	2.0	55	<0.1	0.2	<0.1	71	0.70	0.063	10
PC11 DH232	Soil	0.5	16.5	4.3	49	<0.1	12.7	6.5	277	2.20	1.2	<0.5	1.4	81	<0.1	0.1	<0.1	64	0.40	0.017	9
PC11 DH233	Soil	0.5	21.4	4.8	55	<0.1	14.3	7.6	500	2.31	1.2	0.6	1.6	70	0.1	0.1	<0.1	61	0.46	0.017	10
PC11 DH234	Soil	0.4	17.5	5.2	71	<0.1	12.1	7.0	627	2.03	1.2	<0.5	1.2	78	0.2	<0.1	<0.1	49	0.49	0.020	8
PC11 DH235	Soil	0.5	18.7	5.0	58	<0.1	16.1	7.6	224	2.47	2.7	0.9	1.6	72	<0.1	0.2	<0.1	64	0.43	0.023	9
PC11 DH236	Soil	0.5	19.5	4.9	71	<0.1	15.6	7.8	469	2.56	2.7	1.1	1.4	68	0.1	0.2	<0.1	61	0.51	0.041	10
PC11 DH237	Soil	0.4	15.3	3.5	58	<0.1	12.5	6.0	317	2.28	0.9	<0.5	1.5	95	<0.1	0.1	<0.1	62	0.44	0.026	8
PC11 DH238	Soil	0.4	16.0	3.6	61	<0.1	12.7	5.7	293	2.06	<0.5	0.6	1.2	65	<0.1	0.1	<0.1	54	0.44	0.032	7
PC11 DH239	Soil	0.5	24.1	4.2	69	<0.1	17.9	8.5	448	2.66	1.2	1.2	1.5	74	<0.1	0.1	0.1	66	0.53	0.029	11
PC11 DH240	Soil	0.8	30.2	6.0	64	<0.1	17.1	10.7	828	2.72	1.8	1.4	1.5	81	0.1	0.2	0.1	75	0.58	0.028	12
PC11 DH241	Soil	0.6	17.5	4.0	51	<0.1	12.5	6.9	334	1.96	1.6	0.6	1.3	47	<0.1	0.1	0.1	50	0.45	0.024	7
PC11 DH242	Soil	0.6	17.8	4.0	54	<0.1	15.3	7.1	258	2.26	1.7	<0.5	1.4	68	<0.1	0.2	<0.1	62	0.39	0.023	7

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				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		
				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	
PC11 DH213	Soil			26	0.35	82	0.124	3	1.44	0.024	0.13	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH214	Soil			20	0.33	91	0.098	1	1.57	0.017	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH215	Soil			17	0.27	77	0.092	3	1.32	0.023	0.07	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH216	Soil			16	0.33	91	0.110	1	1.38	0.016	0.04	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH217	Soil			24	0.37	72	0.112	3	1.74	0.017	0.13	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
PC11 DH218	Soil			18	0.26	71	0.098	6	1.35	0.023	0.14	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH219	Soil			22	0.30	106	0.107	4	1.41	0.021	0.13	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH220	Soil			24	0.39	128	0.119	6	1.86	0.020	0.21	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 DH221	Soil			34	0.37	105	0.118	1	1.28	0.019	0.08	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH222	Soil			18	0.30	84	0.088	5	1.36	0.017	0.14	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH223	Soil			21	0.37	116	0.112	3	1.69	0.020	0.12	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH224	Soil			22	0.31	83	0.104	8	1.25	0.020	0.22	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 DH225	Soil			27	0.42	150	0.110	3	1.68	0.025	0.18	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH226	Soil			22	0.36	94	0.117	2	1.40	0.020	0.09	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH227	Soil			24	0.37	93	0.117	3	1.76	0.022	0.09	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH228	Soil			28	0.33	141	0.115	2	1.34	0.018	0.13	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH229	Soil			22	0.30	100	0.111	1	1.14	0.018	0.07	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH230	Soil			27	0.32	115	0.118	3	1.23	0.021	0.11	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH231	Soil			23	0.49	166	0.088	7	1.45	0.019	0.23	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH232	Soil			25	0.31	81	0.140	1	1.40	0.026	0.13	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH233	Soil			26	0.35	87	0.130	2	1.39	0.022	0.17	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH234	Soil			21	0.40	106	0.096	4	1.32	0.023	0.18	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH235	Soil			30	0.41	95	0.133	2	1.68	0.022	0.12	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH236	Soil			29	0.43	101	0.120	3	1.78	0.019	0.20	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH237	Soil			22	0.32	94	0.143	3	1.53	0.021	0.17	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH238	Soil			24	0.33	87	0.120	6	1.43	0.018	0.18	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH239	Soil			33	0.42	84	0.138	2	1.94	0.020	0.20	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 DH240	Soil			29	0.45	102	0.127	2	1.89	0.024	0.19	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 DH241	Soil			23	0.32	78	0.120	3	1.32	0.018	0.14	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 DH242	Soil			28	0.35	95	0.150	3	1.54	0.022	0.11	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: December 07, 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	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 DH243	Soil	0.5	16.6	4.0	50	<0.1	14.5	7.7	414	2.17	0.8	<0.5	1.3	64	<0.1	0.2	<0.1	56	0.37	0.017	7
PC11 DH244	Soil	0.7	16.7	3.8	91	<0.1	10.5	5.9	825	1.71	1.0	1.5	0.8	72	0.1	<0.1	<0.1	43	0.47	0.041	4
PC11 DH245	Soil	0.4	11.6	3.1	69	<0.1	10.8	4.5	198	1.78	<0.5	0.8	1.2	53	<0.1	<0.1	<0.1	45	0.33	0.018	5
PC11 DH246	Soil	0.3	14.7	3.4	49	<0.1	11.6	6.5	339	2.27	0.8	1.3	1.3	83	<0.1	0.1	<0.1	66	0.43	0.024	8
PC11 DH247	Soil	0.4	14.7	4.0	82	<0.1	11.7	6.5	387	2.28	0.6	2.5	1.4	69	<0.1	0.1	<0.1	53	0.42	0.018	8
PC11 DH248	Soil	0.5	17.6	4.4	53	<0.1	14.0	6.9	255	2.18	1.3	0.6	1.5	67	<0.1	0.1	<0.1	59	0.45	0.018	8
PC11 DH249	Soil	0.4	16.9	3.8	77	<0.1	13.4	6.5	357	2.15	1.3	1.9	1.3	63	<0.1	0.1	<0.1	59	0.42	0.023	7
PC11 DH250	Soil	0.4	27.7	4.1	49	<0.1	20.6	8.7	354	2.60	1.5	1.3	1.5	79	<0.1	0.2	<0.1	72	0.51	0.025	10
PCS-029	Soil Pulp	122.3	3487	22.1	62	2.4	36.6	20.3	397	4.12	53.9	429.4	2.0	30	0.3	3.4	0.4	122	0.33	0.086	10
PC11 DH251	Soil	0.5	30.6	3.9	47	<0.1	14.8	8.5	347	2.54	1.5	<0.5	1.6	94	<0.1	0.1	<0.1	68	0.62	0.031	10
PC11 DH252	Soil	0.4	24.1	3.9	42	<0.1	12.1	7.7	514	2.13	0.8	<0.5	1.5	68	<0.1	0.1	<0.1	55	0.49	0.014	8
PC11 DH253	Soil	0.3	25.3	3.7	41	<0.1	15.4	6.5	204	2.88	1.4	<0.5	1.7	95	<0.1	0.1	<0.1	86	0.51	0.029	9
PC11 DH254	Soil	0.4	38.2	2.7	42	<0.1	14.9	9.8	445	2.78	2.5	4.5	1.1	142	<0.1	0.3	<0.1	103	2.72	0.093	9
PC11 DH255	Soil	0.4	23.9	3.8	55	<0.1	14.8	7.7	352	2.59	1.0	1.7	1.3	68	<0.1	0.2	<0.1	76	0.52	0.023	10
PC11 DH256	Soil	0.3	17.7	4.4	83	<0.1	14.7	7.6	658	2.38	1.0	<0.5	1.5	60	<0.1	0.2	<0.1	60	0.44	0.027	10
PC11 DH257	Soil	0.4	14.2	3.8	59	<0.1	12.8	6.2	283	2.27	<0.5	<0.5	1.2	63	<0.1	0.1	<0.1	62	0.41	0.014	6
PC11 DH258	Soil	0.6	17.1	3.9	60	<0.1	13.9	7.2	418	2.41	0.7	1.9	1.2	71	<0.1	0.1	<0.1	70	0.47	0.020	7
PC11 DH259	Soil	0.3	20.8	3.1	44	<0.1	15.3	7.7	472	2.02	0.9	1.4	0.9	311	0.1	0.1	<0.1	50	1.94	0.052	10
PC11 DH260	Soil	0.5	24.6	4.9	93	<0.1	12.4	8.8	882	2.15	1.5	1.3	1.0	125	0.2	0.2	<0.1	54	1.00	0.058	10
PC11 DH261	Soil	0.6	26.2	4.2	51	<0.1	14.7	8.2	570	2.35	1.6	0.6	1.3	101	<0.1	0.1	<0.1	66	0.51	0.025	10
PC11 DH262	Soil	0.6	25.3	3.9	46	<0.1	13.5	7.9	429	2.42	1.2	1.5	1.4	84	<0.1	0.2	<0.1	68	0.48	0.029	9
PC11 DH263	Soil	0.4	28.0	4.1	53	<0.1	15.0	9.0	550	2.60	1.3	1.5	1.5	121	<0.1	0.1	<0.1	69	0.58	0.029	11
PC11 DH264	Soil	0.4	27.3	4.4	69	<0.1	12.6	9.7	504	2.73	1.3	<0.5	1.0	139	<0.1	0.2	<0.1	70	0.73	0.040	12
PC11 DH265	Soil	0.3	23.1	4.3	66	<0.1	13.5	8.4	448	2.75	1.5	1.4	1.4	87	0.1	0.2	<0.1	86	0.71	0.026	11
PC11 DH266	Soil	0.3	46.0	4.1	52	0.1	14.1	8.8	305	3.69	1.9	2.2	1.6	115	<0.1	0.2	<0.1	100	1.03	0.032	8
PC11 DH267	Soil	0.4	27.0	4.1	56	<0.1	13.6	8.4	343	3.21	1.7	<0.5	1.5	126	<0.1	0.2	<0.1	95	0.74	0.025	12
PC11 DH268	Soil	0.3	23.9	3.8	76	<0.1	13.0	7.6	326	2.99	1.3	1.5	1.4	70	<0.1	0.2	<0.1	89	0.75	0.027	11
PC11 DH269	Soil	0.4	17.1	4.8	85	<0.1	14.3	7.3	457	2.45	0.9	0.6	1.3	68	0.1	0.2	<0.1	69	0.56	0.027	8
PC11 DH270	Soil	0.3	22.4	4.5	65	<0.1	15.8	9.7	475	2.85	1.3	<0.5	1.3	81	0.1	0.2	<0.1	86	0.71	0.031	9
PC11 DH271	Soil	0.3	37.5	4.6	55	0.1	17.3	10.9	461	3.44	1.9	1.9	1.6	184	0.2	0.2	<0.1	85	1.06	0.040	12

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Project: Princeton
 Report Date: December 07, 2011

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CERTIFICATE OF ANALYSIS

VAN11005981.1

Method	Analyte	1DX15															
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2
PC11 DH243	Soil	27	0.40	99	0.137	3	1.38	0.028	0.10	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH244	Soil	20	0.30	118	0.107	3	1.19	0.022	0.11	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH245	Soil	20	0.25	84	0.124	2	1.32	0.020	0.12	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH246	Soil	24	0.28	97	0.141	2	1.37	0.019	0.15	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH247	Soil	19	0.31	110	0.142	3	1.82	0.024	0.15	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 DH248	Soil	26	0.33	93	0.144	2	1.45	0.024	0.13	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH249	Soil	27	0.33	98	0.141	3	1.39	0.020	0.19	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH250	Soil	30	0.50	87	0.143	4	1.46	0.032	0.14	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PCS-029	Soil Pulp	50	0.86	43	0.120	<1	1.30	0.039	0.86	3.8	0.06	9.5	0.5	1.97	5	6.1	0.7
PC11 DH251	Soil	25	0.35	88	0.138	4	1.66	0.027	0.09	<0.1	0.02	4.1	<0.1	<0.05	6	0.5	<0.2
PC11 DH252	Soil	21	0.34	113	0.118	2	1.59	0.028	0.08	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH253	Soil	27	0.32	84	0.128	3	1.73	0.028	0.09	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
PC11 DH254	Soil	25	0.66	54	0.167	2	1.78	0.073	0.06	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH255	Soil	28	0.35	79	0.165	3	1.64	0.027	0.20	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH256	Soil	24	0.32	99	0.157	5	1.49	0.023	0.22	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH257	Soil	25	0.33	81	0.161	2	1.52	0.027	0.14	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH258	Soil	27	0.38	93	0.160	3	1.62	0.030	0.14	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH259	Soil	20	0.77	90	0.111	11	1.41	0.069	0.33	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH260	Soil	19	0.44	113	0.092	10	1.38	0.033	0.30	<0.1	0.02	3.8	<0.1	<0.05	4	0.6	<0.2
PC11 DH261	Soil	25	0.42	101	0.128	3	1.63	0.033	0.17	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 DH262	Soil	26	0.36	81	0.130	3	1.48	0.024	0.24	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH263	Soil	25	0.42	89	0.121	4	1.66	0.024	0.25	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH264	Soil	25	0.91	99	0.155	3	1.82	0.094	0.19	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH265	Soil	25	0.44	83	0.242	3	1.99	0.028	0.18	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
PC11 DH266	Soil	27	0.69	84	0.253	3	3.24	0.032	0.17	<0.1	0.01	9.1	<0.1	<0.05	10	<0.5	<0.2
PC11 DH267	Soil	28	0.48	81	0.268	4	2.28	0.026	0.25	<0.1	0.02	7.6	<0.1	<0.05	7	<0.5	<0.2
PC11 DH268	Soil	25	0.44	79	0.262	4	2.29	0.028	0.10	<0.1	0.02	7.4	<0.1	<0.05	7	<0.5	<0.2
PC11 DH269	Soil	28	0.31	91	0.203	4	1.80	0.027	0.11	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 DH270	Soil	32	0.42	74	0.189	3	2.21	0.020	0.12	<0.1	0.02	5.9	<0.1	<0.05	7	<0.5	<0.2
PC11 DH271	Soil	28	0.82	56	0.253	6	3.26	0.029	0.07	<0.1	0.02	8.2	<0.1	<0.05	11	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 DH272	Soil	0.3	35.6	5.7	70	<0.1	14.7	11.4	562	3.46	2.4	<0.5	1.5	165	0.2	0.2	<0.1	93	1.07	0.033	11
PC11 DH273	Soil	0.2	29.7	5.0	66	<0.1	14.1	8.5	348	3.30	2.8	<0.5	1.4	140	0.1	0.2	<0.1	80	0.86	0.028	9
PC11 DH274	Soil	0.2	49.6	5.6	70	0.2	20.3	13.4	654	3.26	2.7	2.0	1.5	78	0.2	0.2	0.1	81	1.29	0.026	10
PC11 DH275	Soil	0.3	26.7	5.0	69	<0.1	23.5	11.6	584	2.91	2.6	<0.5	1.4	62	0.1	0.2	<0.1	81	0.72	0.017	10
PC11 DH276	Soil	0.4	48.1	4.3	63	<0.1	18.9	14.9	680	3.14	4.3	2.7	1.0	155	0.2	0.2	<0.1	89	1.35	0.028	7
PC11 DH277	Soil	0.4	41.1	3.7	50	<0.1	17.1	11.2	380	2.79	3.1	<0.5	1.1	106	0.1	0.1	<0.1	75	0.78	0.012	7
PC11 DH278	Soil	0.4	33.1	3.9	60	<0.1	19.6	12.5	518	3.00	3.6	<0.5	1.1	74	0.1	0.1	<0.1	78	0.87	0.029	8
PC11 DH279	Soil	0.3	31.9	3.4	66	<0.1	25.0	16.9	490	3.35	1.9	<0.5	1.0	63	<0.1	0.1	<0.1	84	0.76	0.013	9
PC11 DH280	Soil	0.3	42.8	3.9	51	<0.1	17.8	11.9	442	3.18	3.8	<0.5	1.2	91	0.1	0.1	<0.1	83	0.89	0.028	8
PC11 DH281	Soil	0.3	56.2	4.1	57	0.1	18.0	12.0	445	3.24	4.5	1.3	1.1	111	<0.1	0.1	<0.1	80	1.05	0.038	7
PC11 DH282	Soil	0.3	46.4	3.7	67	<0.1	25.0	16.5	756	3.64	2.6	<0.5	0.9	81	<0.1	0.1	<0.1	93	0.90	0.017	7
PC11 DH283	Soil	0.3	38.4	3.9	66	<0.1	18.0	11.9	521	3.09	3.2	0.7	0.9	72	<0.1	0.1	<0.1	81	0.74	0.016	8
PC11 DH284	Soil	0.4	56.7	3.7	62	<0.1	20.0	15.4	604	3.56	3.0	0.5	1.1	92	<0.1	0.2	<0.1	89	0.91	0.018	7
PC11 DH285	Soil	0.3	57.0	2.0	69	<0.1	19.6	16.1	564	3.41	2.5	<0.5	0.7	109	<0.1	0.2	<0.1	99	1.20	0.021	5
PC11 DH286	Soil	0.4	72.3	1.9	85	<0.1	21.3	26.4	754	3.77	4.1	<0.5	0.6	103	0.2	0.2	<0.1	135	1.44	0.033	4
PC11 DH287	Soil	0.2	49.0	1.7	84	<0.1	19.7	19.5	597	3.50	2.8	<0.5	0.6	76	0.1	0.2	<0.1	108	0.92	0.031	4
PC11 DH288	Soil	0.5	35.2	4.0	53	<0.1	22.0	8.9	327	2.67	2.6	<0.5	1.4	58	<0.1	0.2	<0.1	65	0.60	0.023	8
PC11 DH289	Soil	0.6	40.2	4.6	52	<0.1	32.7	11.1	451	2.68	3.1	1.0	1.6	62	0.1	0.2	<0.1	64	0.57	0.028	9
PC11 DH290	Soil	0.6	64.7	3.8	55	0.1	29.8	12.0	435	2.75	3.7	3.4	1.2	82	0.2	0.2	<0.1	71	1.14	0.055	7
PC11 DH291	Soil	1.1	32.2	3.5	43	<0.1	19.9	10.4	437	2.69	7.3	2.9	1.3	131	0.1	0.3	<0.1	84	1.53	0.075	9
PC11 DH292	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
PC11 DH293	Soil	0.5	43.4	4.9	62	<0.1	16.5	11.6	701	2.52	4.6	0.5	0.5	125	0.2	0.1	<0.1	52	2.10	0.061	9
PC11 DH294	Soil	0.7	51.8	3.5	64	<0.1	25.8	14.9	731	2.66	4.3	<0.5	0.7	138	0.2	0.1	<0.1	62	2.66	0.133	7
PC11 DH295	Soil	0.7	49.8	4.4	61	<0.1	22.5	11.3	611	2.79	4.9	1.0	1.2	100	0.2	0.2	<0.1	73	1.03	0.068	7
PC11 DH296	Soil	0.7	42.9	4.8	59	<0.1	21.1	11.0	558	2.71	4.0	2.3	1.0	69	0.2	0.2	<0.1	68	0.77	0.036	7
PC11 DH297	Soil	0.6	39.9	4.6	67	<0.1	27.0	12.4	637	2.90	5.7	0.9	1.2	86	0.2	0.2	<0.1	80	0.86	0.065	9
PC11 DH298	Soil	0.5	41.8	4.8	68	<0.1	29.9	13.2	741	3.10	4.5	0.6	1.2	74	0.2	0.2	<0.1	84	0.76	0.057	9
PC11 DH299	Soil	0.5	25.9	3.7	51	<0.1	13.9	7.8	451	2.28	2.0	<0.5	1.5	81	<0.1	0.1	<0.1	69	0.53	0.029	9
PC11 DH300	Soil	0.4	92.4	4.4	54	<0.1	27.7	13.5	510	3.18	1.8	<0.5	2.0	76	0.1	0.1	<0.1	73	0.65	0.036	13
PCS-032	Soil Pulp	15.5	62.4	16.4	17	0.2	16.3	2.5	107	3.49	428.1	202.1	0.7	27	0.4	23.8	0.1	9	0.94	0.005	2

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Project: Princeton
 Report Date: December 07, 2011

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CERTIFICATE OF ANALYSIS

VAN11005981.1

Method	Analyte	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 DH272	Soil	23	0.77	58	0.256	4	3.00	0.020	0.11	<0.1	0.01	9.3	<0.1	<0.05	11	<0.5	<0.2
PC11 DH273	Soil	22	0.62	57	0.242	4	3.01	0.019	0.16	<0.1	<0.01	8.9	<0.1	<0.05	11	<0.5	<0.2
PC11 DH274	Soil	29	1.01	72	0.178	3	3.32	0.014	0.24	<0.1	0.02	9.0	<0.1	<0.05	11	<0.5	<0.2
PC11 DH275	Soil	34	0.85	62	0.213	2	2.10	0.015	0.20	<0.1	<0.01	7.7	<0.1	<0.05	7	<0.5	<0.2
PC11 DH276	Soil	34	1.12	90	0.172	2	3.00	0.029	0.20	<0.1	0.02	7.8	<0.1	<0.05	8	<0.5	<0.2
PC11 DH277	Soil	34	0.86	65	0.146	2	2.51	0.028	0.12	<0.1	<0.01	8.2	<0.1	<0.05	8	<0.5	<0.2
PC11 DH278	Soil	38	0.88	68	0.118	4	2.00	0.019	0.17	<0.1	<0.01	6.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH279	Soil	55	1.27	65	0.163	3	2.55	0.020	0.14	<0.1	0.01	9.3	<0.1	<0.05	7	<0.5	<0.2
PC11 DH280	Soil	39	0.97	60	0.165	3	2.80	0.025	0.16	<0.1	0.01	7.7	<0.1	<0.05	8	<0.5	<0.2
PC11 DH281	Soil	37	1.13	62	0.139	6	3.01	0.025	0.21	<0.1	0.02	7.6	<0.1	<0.05	9	<0.5	<0.2
PC11 DH282	Soil	45	1.23	69	0.146	2	3.05	0.026	0.16	<0.1	<0.01	6.4	<0.1	<0.05	8	<0.5	<0.2
PC11 DH283	Soil	35	0.95	57	0.169	3	2.55	0.021	0.19	<0.1	0.01	7.0	<0.1	<0.05	8	<0.5	<0.2
PC11 DH284	Soil	30	1.06	82	0.161	4	2.99	0.024	0.20	<0.1	<0.01	7.6	<0.1	<0.05	8	<0.5	<0.2
PC11 DH285	Soil	28	0.95	144	0.249	3	3.25	0.017	0.18	<0.1	0.01	6.1	<0.1	<0.05	8	<0.5	<0.2
PC11 DH286	Soil	32	1.97	101	0.393	2	3.62	0.009	0.16	0.1	<0.01	8.5	<0.1	<0.05	8	<0.5	<0.2
PC11 DH287	Soil	29	1.36	91	0.298	3	2.89	0.011	0.19	<0.1	<0.01	6.7	<0.1	<0.05	7	<0.5	<0.2
PC11 DH288	Soil	35	0.58	73	0.117	4	1.66	0.021	0.23	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH289	Soil	38	0.65	92	0.104	2	1.60	0.023	0.18	<0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH290	Soil	35	0.91	79	0.111	6	1.79	0.024	0.19	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 DH291	Soil	25	0.68	139	0.131	2	1.29	0.059	0.04	0.1	0.05	5.0	<0.1	<0.05	4	<0.5	<0.2
PC11 DH292	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
PC11 DH293	Soil	17	1.08	39	0.044	10	2.25	0.010	0.15	<0.1	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
PC11 DH294	Soil	33	1.27	53	0.100	11	2.55	0.013	0.21	<0.1	0.02	4.1	<0.1	<0.05	7	<0.5	<0.2
PC11 DH295	Soil	31	0.84	85	0.132	8	1.98	0.024	0.31	<0.1	<0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH296	Soil	30	0.72	77	0.139	4	1.76	0.022	0.26	<0.1	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 DH297	Soil	33	0.76	124	0.123	3	1.89	0.029	0.13	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 DH298	Soil	35	0.74	116	0.125	3	1.56	0.026	0.20	<0.1	0.01	5.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH299	Soil	22	0.31	91	0.118	3	1.19	0.026	0.19	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH300	Soil	27	0.65	106	0.107	3	2.03	0.025	0.22	<0.1	<0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
PCS-032	Soil Pulp	23	0.02	505	0.009	1	0.15	0.006	0.06	2.2	2.71	0.6	10.1	0.06	<1	1.4	<0.2

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Project: Princeton
 Report Date: December 07, 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	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 DH301	Soil	0.3	32.4	4.5	65	<0.1	14.3	8.5	645	2.11	1.7	1.6	1.3	67	0.2	<0.1	<0.1	53	0.52	0.030	7
PC11 DH302	Soil	0.4	78.0	4.8	57	<0.1	24.2	12.6	523	2.92	2.7	1.0	1.8	76	<0.1	0.2	<0.1	71	0.74	0.075	10
PC11 DH303	Soil	0.4	70.6	3.3	39	<0.1	17.9	8.7	310	2.63	2.1	2.1	1.9	67	<0.1	0.1	<0.1	72	0.61	0.050	8
PC11 DH304	Soil	0.5	66.3	3.5	32	<0.1	15.9	8.6	278	3.10	2.5	1.5	1.6	67	<0.1	0.2	<0.1	107	0.58	0.039	10
PC11 DH305	Soil	0.4	54.1	4.3	49	<0.1	21.2	10.6	372	2.84	4.1	0.6	1.7	79	0.1	<0.1	<0.1	70	0.62	0.037	12
PC11 DH306	Soil	0.5	48.4	3.9	53	<0.1	21.7	10.6	470	2.73	1.8	<0.5	1.6	84	<0.1	0.1	<0.1	73	0.58	0.028	11
PC11 DH307	Soil	0.5	68.2	4.5	54	<0.1	26.0	12.4	519	3.00	2.2	<0.5	1.7	79	<0.1	0.1	<0.1	72	0.69	0.043	11
PC11 DH308	Soil	0.4	88.2	4.2	50	0.2	28.6	13.2	414	3.20	2.4	1.5	2.0	97	0.1	0.2	<0.1	77	1.00	0.133	11
PC11 DH309	Soil	0.4	24.8	6.6	39	0.1	14.0	6.8	431	1.97	2.1	2.4	2.0	103	<0.1	0.2	<0.1	49	1.16	0.068	14
PC11 DH310	Soil	0.3	13.7	6.5	35	<0.1	14.6	6.3	478	1.56	1.1	3.1	1.9	83	0.1	0.1	0.1	33	0.54	0.011	13
PC11 DH311	Soil	0.7	10.3	11.3	35	0.1	4.7	3.6	408	1.24	1.6	1.6	3.3	231	0.1	<0.1	0.1	13	2.07	0.028	26
PC11 DH312	Soil	1.6	33.6	10.4	62	0.2	15.8	13.5	860	2.50	5.2	1.5	0.6	131	0.3	0.3	0.1	44	2.51	0.070	15
PC11 DH313	Soil	2.4	31.8	9.9	54	0.1	16.0	13.0	643	2.39	5.2	2.7	0.8	126	0.3	0.2	0.2	48	1.98	0.062	12
PC11 DH314	Soil	0.6	24.2	12.6	50	<0.1	10.0	6.2	786	1.56	1.7	0.9	2.8	95	<0.1	0.2	0.1	27	0.91	0.023	16
PC11 DH315	Soil	0.3	75.3	3.7	72	0.1	34.8	27.6	852	5.49	9.7	7.4	0.7	326	0.1	0.2	<0.1	167	2.53	0.057	6



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Report Date: December 07, 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
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 DH301	Soil	21	0.33	118	0.083	4	1.32	0.019	0.17	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PC11 DH302	Soil	24	0.68	90	0.091	6	1.77	0.024	0.26	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 DH303	Soil	23	0.46	82	0.088	2	1.53	0.024	0.13	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PC11 DH304	Soil	26	0.40	69	0.090	2	1.36	0.022	0.07	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 DH305	Soil	27	0.50	95	0.095	2	1.76	0.025	0.15	<0.1	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH306	Soil	28	0.44	82	0.130	3	1.59	0.029	0.22	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 DH307	Soil	26	0.56	87	0.115	4	1.77	0.028	0.22	<0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
PC11 DH308	Soil	26	0.78	87	0.130	3	2.09	0.051	0.13	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5	<0.2
PC11 DH309	Soil	19	0.53	84	0.054	3	1.77	0.088	0.13	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 DH310	Soil	15	0.35	130	0.100	1	1.49	0.186	0.13	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PC11 DH311	Soil	4	0.32	104	0.004	1	3.37	0.073	0.26	<0.1	<0.01	1.7	<0.1	<0.05	9	<0.5	<0.2
PC11 DH312	Soil	17	0.73	91	0.082	13	2.21	0.018	0.20	<0.1	0.04	3.6	<0.1	<0.05	7	0.7	<0.2
PC11 DH313	Soil	18	0.68	87	0.106	7	2.47	0.029	0.20	<0.1	0.06	3.9	<0.1	<0.05	7	<0.5	<0.2
PC11 DH314	Soil	11	0.41	156	0.024	4	2.27	0.213	0.18	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
PC11 DH315	Soil	42	2.54	34	0.222	5	4.16	0.108	0.14	<0.1	0.02	9.6	<0.1	<0.05	11	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005981.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																				
PC11 AP97	Soil	0.6	15.2	5.5	74	<0.1	9.2	5.6	708	2.04	2.6	<0.5	1.3	136	<0.1	0.1	<0.1	64	0.74	0.043
REP PC11 AP97	QC	0.6	15.3	5.3	73	<0.1	9.0	5.3	696	1.93	2.3	<0.5	1.3	133	<0.1	0.1	<0.1	60	0.74	0.042
PC11 AP143	Soil	0.8	10.5	4.2	77	<0.1	10.8	4.6	634	1.53	1.1	<0.5	0.6	28	<0.1	<0.1	<0.1	37	0.26	0.041
REP PC11 AP143	QC	0.7	10.9	4.2	82	<0.1	11.2	4.8	638	1.56	1.2	1.3	0.6	29	<0.1	<0.1	<0.1	38	0.28	0.043
PC11 AP276	Soil	0.6	18.5	4.6	94	<0.1	14.8	7.6	1104	2.13	2.1	0.5	0.9	63	0.1	0.1	0.1	48	0.55	0.023
REP PC11 AP276	QC	0.6	18.7	4.4	95	<0.1	14.2	7.2	1108	2.08	2.1	2.4	0.9	63	0.1	<0.1	0.1	46	0.55	0.023
PC11 DH163	Soil	0.6	88.0	3.7	37	<0.1	15.7	8.4	350	2.88	2.3	1.2	1.6	53	0.1	0.2	<0.1	91	0.64	0.077
REP PC11 DH163	QC	1.1	87.0	3.7	38	<0.1	15.6	8.1	359	2.80	1.9	1.6	1.6	52	<0.1	0.2	<0.1	88	0.63	0.077
PC11 DH183	Soil	0.4	22.9	3.9	32	<0.1	15.8	7.3	466	2.12	1.3	0.6	1.1	36	<0.1	0.1	<0.1	63	0.39	0.015
REP PC11 DH183	QC	0.5	23.2	3.9	32	<0.1	15.3	7.3	457	2.09	1.3	0.7	1.1	36	<0.1	0.1	<0.1	61	0.40	0.016
PC11 DH200	Soil	0.5	37.6	4.5	60	<0.1	21.2	9.1	418	2.40	1.6	0.7	1.2	46	<0.1	0.2	<0.1	57	0.61	0.038
REP PC11 DH200	QC	0.6	37.2	4.4	59	<0.1	21.3	8.9	411	2.37	1.8	2.0	1.2	46	<0.1	0.1	<0.1	57	0.61	0.039
PC11 DH203	Soil	0.6	22.7	3.3	45	<0.1	18.4	9.2	441	2.15	0.8	0.8	1.2	36	<0.1	<0.1	<0.1	58	0.36	0.016
REP PC11 DH203	QC	0.6	22.4	3.4	46	<0.1	18.9	9.6	438	2.15	0.7	1.4	1.3	34	<0.1	0.1	<0.1	59	0.35	0.017
PC11 DH236	Soil	0.5	19.5	4.9	71	<0.1	15.6	7.8	469	2.56	2.7	1.1	1.4	68	0.1	0.2	<0.1	61	0.51	0.041
REP PC11 DH236	QC	0.6	19.6	4.8	71	<0.1	16.4	7.8	469	2.62	2.7	<0.5	1.4	67	0.1	0.2	0.1	62	0.52	0.039
PC11 DH246	Soil	0.3	14.7	3.4	49	<0.1	11.6	6.5	339	2.27	0.8	1.3	1.3	83	<0.1	0.1	<0.1	66	0.43	0.024
REP PC11 DH246	QC	0.3	14.7	3.8	51	<0.1	12.1	6.6	338	2.26	0.8	1.3	1.5	84	<0.1	<0.1	<0.1	69	0.43	0.024
PC11 DH262	Soil	0.6	25.3	3.9	46	<0.1	13.5	7.9	429	2.42	1.2	1.5	1.4	84	<0.1	0.2	<0.1	68	0.48	0.029
REP PC11 DH262	QC	0.5	26.0	3.8	47	<0.1	13.7	8.3	437	2.45	1.2	0.8	1.4	87	<0.1	0.1	<0.1	71	0.50	0.029
PC11 DH280	Soil	0.3	42.8	3.9	51	<0.1	17.8	11.9	442	3.18	3.8	<0.5	1.2	91	0.1	0.1	<0.1	83	0.89	0.028
REP PC11 DH280	QC	0.4	43.0	3.9	53	<0.1	18.5	11.8	437	3.17	3.8	<0.5	1.2	92	0.1	0.1	<0.1	82	0.85	0.025
PC11 DH295	Soil	0.7	49.8	4.4	61	<0.1	22.5	11.3	611	2.79	4.9	1.0	1.2	100	0.2	0.2	<0.1	73	1.03	0.068
REP PC11 DH295	QC	0.6	48.7	4.4	61	<0.1	24.2	11.4	605	2.79	4.6	<0.5	1.2	99	0.2	0.2	<0.1	74	1.00	0.067
PC11 DH310	Soil	0.3	13.7	6.5	35	<0.1	14.6	6.3	478	1.56	1.1	3.1	1.9	83	0.1	0.1	0.1	33	0.54	0.011
REP PC11 DH310	QC	0.3	12.2	6.6	33	<0.1	14.2	6.2	474	1.57	1.0	<0.5	1.8	82	<0.1	0.1	<0.1	33	0.53	0.010
Reference Materials																				
STD DS8	Standard	13.5	109.1	126.4	314	1.9	38.6	7.8	631	2.53	25.2	116.7	7.2	73	2.4	5.9	6.7	44	0.72	0.081

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Princeton
 Report Date: December 07, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005981.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	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																	
PC11 AP97	Soil	19	0.28	122	0.177	6	1.26	0.026	0.28	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP97	QC	18	0.28	124	0.169	5	1.25	0.025	0.27	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 AP143	Soil	15	0.17	97	0.096	1	1.35	0.020	0.07	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
REP PC11 AP143	QC	15	0.19	97	0.103	2	1.43	0.022	0.07	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 AP276	Soil	23	0.41	131	0.074	5	1.51	0.017	0.20	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
REP PC11 AP276	QC	22	0.41	132	0.076	4	1.51	0.018	0.20	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 DH163	Soil	23	0.47	106	0.074	3	1.13	0.016	0.08	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
REP PC11 DH163	QC	23	0.46	107	0.078	4	1.14	0.017	0.08	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 DH183	Soil	26	0.32	79	0.118	1	1.02	0.018	0.10	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
REP PC11 DH183	QC	26	0.32	77	0.112	2	1.03	0.018	0.10	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
PC11 DH200	Soil	28	0.45	113	0.102	2	1.30	0.023	0.13	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH200	QC	28	0.44	112	0.110	3	1.36	0.022	0.13	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 DH203	Soil	29	0.35	86	0.119	4	1.03	0.024	0.18	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
REP PC11 DH203	QC	30	0.35	83	0.113	3	1.01	0.024	0.18	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 DH236	Soil	29	0.43	101	0.120	3	1.78	0.019	0.20	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH236	QC	29	0.44	99	0.123	2	1.79	0.019	0.20	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH246	Soil	24	0.28	97	0.141	2	1.37	0.019	0.15	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
REP PC11 DH246	QC	25	0.28	97	0.149	4	1.43	0.024	0.15	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 DH262	Soil	26	0.36	81	0.130	3	1.48	0.024	0.24	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH262	QC	27	0.36	85	0.130	4	1.47	0.027	0.25	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 DH280	Soil	39	0.97	60	0.165	3	2.80	0.025	0.16	<0.1	0.01	7.7	<0.1	<0.05	8	<0.5	<0.2
REP PC11 DH280	QC	39	0.97	62	0.157	3	2.81	0.025	0.15	<0.1	<0.01	7.5	<0.1	<0.05	8	<0.5	<0.2
PC11 DH295	Soil	31	0.84	85	0.132	8	1.98	0.024	0.31	<0.1	<0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
REP PC11 DH295	QC	31	0.84	86	0.129	7	1.96	0.024	0.31	<0.1	<0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 DH310	Soil	15	0.35	130	0.100	1	1.49	0.186	0.13	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
REP PC11 DH310	QC	16	0.35	125	0.109	2	1.50	0.170	0.13	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	123	0.63	287	0.132	2	0.97	0.105	0.43	3.0	0.21	2.8	5.5	0.17	5	4.6	5.2



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Report Date: December 07, 2011

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QUALITY CONTROL REPORT

VAN11005981.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS8	Standard	11.9	105.1	120.0	291	1.7	35.9	7.0	570	2.29	22.7	106.2	6.3	63	2.3	5.5	6.4	40	0.63	0.079	13
STD DS8	Standard	13.5	107.1	121.1	302	1.7	35.8	7.4	591	2.39	23.9	109.5	6.5	69	2.1	5.4	6.4	41	0.66	0.077	16
STD DS8	Standard	13.3	111.2	120.2	305	1.7	37.9	7.9	609	2.48	24.9	108.9	6.9	72	2.3	5.7	6.1	44	0.69	0.079	16
STD DS8	Standard	12.4	102.4	118.0	288	1.7	33.9	7.0	560	2.26	24.7	106.8	6.5	67	2.2	5.4	6.0	40	0.64	0.073	15
STD DS8	Standard	11.4	104.1	117.1	290	1.7	36.1	7.2	545	2.29	24.1	97.3	6.2	60	2.4	5.0	6.1	39	0.63	0.074	13
STD DS8	Standard	13.0	110.3	124.9	309	1.8	38.9	7.5	616	2.46	26.2	115.4	6.4	68	2.6	5.6	6.7	42	0.67	0.077	15
STD DS8	Standard	10.4	110.1	123.5	303	1.8	37.7	7.4	582	2.38	25.7	116.0	6.6	65	2.3	6.1	7.6	39	0.63	0.078	11
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Report Date: December 07, 2011

Page: 2 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN11005981.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	108	0.59	272	0.107	3	0.88	0.095	0.41	2.9	0.16	2.2	5.2	0.17	4	5.0	4.7
STD DS8	Standard	113	0.60	270	0.122	2	0.94	0.110	0.42	2.8	0.21	3.2	5.3	0.10	5	4.8	4.5
STD DS8	Standard	118	0.59	283	0.127	3	0.94	0.098	0.41	2.9	0.20	2.5	5.2	0.19	5	4.3	4.5
STD DS8	Standard	111	0.58	268	0.110	2	0.87	0.114	0.41	2.7	0.19	2.4	5.0	0.13	4	4.9	4.3
STD DS8	Standard	112	0.56	244	0.102	2	0.83	0.082	0.38	2.6	0.17	2.9	4.9	0.12	4	3.7	4.4
STD DS8	Standard	114	0.61	290	0.120	2	0.93	0.105	0.44	3.0	0.20	2.2	5.5	0.16	5	4.9	4.7
STD DS8	Standard	113	0.59	252	0.112	2	0.83	0.081	0.40	2.9	0.18	2.1	5.3	0.14	4	4.4	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 26, 2011
Report Date: November 19, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11005991.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 215

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	215	Dry at 60C			VAN
SS80	210	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	215	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: Princeton
 Report Date: November 19, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
PC11 KT76	Soil			0.4	12.9	5.0	104	<0.1	10.0	4.9	768	1.94	1.1	1.0	1.2	59	0.1	0.1	<0.1	49	0.49	0.030	4
PC11 KT77	Soil			0.5	11.0	3.7	79	<0.1	10.3	4.9	543	1.85	0.8	0.7	0.9	48	<0.1	0.1	<0.1	46	0.41	0.025	4
PC11 KT78	Soil			0.7	13.5	4.9	64	<0.1	10.6	7.0	406	2.13	1.1	0.9	1.0	81	<0.1	0.1	<0.1	57	0.48	0.027	4
PC11 KT79	Soil			0.6	12.9	5.1	62	<0.1	8.4	5.8	730	1.63	0.8	1.2	0.7	25	<0.1	<0.1	<0.1	48	0.24	0.032	3
PC11 KT80	Soil			0.5	11.3	4.2	51	<0.1	8.8	5.2	419	1.76	0.8	0.9	0.9	29	<0.1	<0.1	<0.1	54	0.24	0.018	3
PC11 KT81	Soil			0.5	17.8	4.5	47	<0.1	10.6	6.3	256	2.28	1.1	1.8	0.9	40	<0.1	0.1	<0.1	69	0.33	0.026	3
PC11 KT82	Soil			0.5	9.5	4.5	49	<0.1	9.4	4.7	353	1.57	0.7	1.1	0.9	24	<0.1	<0.1	<0.1	45	0.23	0.026	3
PC11 KT83	Soil			0.5	19.6	5.0	82	<0.1	19.7	7.0	297	2.24	2.2	1.1	1.2	31	<0.1	0.1	<0.1	62	0.33	0.106	3
PC11 KT84	Soil			0.6	10.0	4.5	87	0.1	12.6	5.5	591	1.53	1.0	1.8	0.8	23	<0.1	<0.1	<0.1	40	0.22	0.087	3
PC11 KT85	Soil			0.4	14.3	3.5	49	<0.1	12.8	4.9	210	1.77	1.4	0.7	1.0	40	<0.1	0.1	<0.1	54	0.36	0.059	3
PC11 KT86	Soil			0.5	11.1	4.3	50	<0.1	11.8	4.9	321	1.64	1.5	1.0	0.8	33	<0.1	<0.1	<0.1	45	0.28	0.055	3
PC11 KT87	Soil			0.4	10.0	4.2	40	<0.1	9.2	4.3	264	1.65	1.0	1.2	0.7	35	<0.1	0.1	<0.1	51	0.27	0.023	3
PC11 KT88	Soil			0.4	10.9	3.9	46	<0.1	8.7	4.6	180	1.82	1.2	<0.5	0.8	50	<0.1	<0.1	<0.1	52	0.31	0.030	3
PC11 KT89	Soil			0.4	12.3	5.0	51	<0.1	8.9	4.4	201	1.79	1.1	1.5	0.9	75	<0.1	<0.1	<0.1	50	0.27	0.024	4
PC11 KT90	Soil			0.4	11.8	4.1	36	<0.1	9.3	4.4	145	1.67	1.0	0.8	0.8	60	<0.1	<0.1	<0.1	46	0.26	0.028	3
PC11 KT91	Soil			0.5	12.2	4.0	57	<0.1	8.2	5.0	331	1.80	1.1	<0.5	0.8	43	<0.1	<0.1	<0.1	54	0.30	0.033	3
PC11 KT92	Soil			0.4	13.3	4.3	48	<0.1	12.8	5.4	219	1.97	1.3	0.6	0.9	52	<0.1	0.1	<0.1	62	0.39	0.038	3
PC11 KT93	Soil			0.4	17.4	4.9	48	<0.1	10.9	5.7	168	2.18	1.4	1.5	1.3	61	<0.1	0.1	<0.1	63	0.41	0.025	4
PC11 KT94	Soil			0.5	10.5	4.8	58	<0.1	8.0	3.9	252	1.65	1.0	0.5	1.0	39	<0.1	<0.1	<0.1	42	0.31	0.019	4
PC11 KT95	Soil			0.6	9.6	4.1	71	<0.1	8.5	3.7	266	1.62	1.0	<0.5	1.1	42	<0.1	<0.1	<0.1	44	0.29	0.018	4
PC11 KT96	Soil			0.5	10.6	3.8	44	<0.1	8.7	4.5	178	1.88	1.0	<0.5	0.8	61	<0.1	<0.1	<0.1	58	0.26	0.034	3
PC11 KT97	Soil			0.3	16.7	3.8	34	<0.1	8.7	4.6	155	1.66	0.6	0.6	0.7	31	<0.1	<0.1	<0.1	49	0.26	0.012	3
PC11 KT98	Soil			0.6	10.9	4.1	38	<0.1	8.4	4.5	208	1.75	0.9	<0.5	0.9	35	<0.1	<0.1	<0.1	51	0.31	0.021	3
PC11 KT99	Soil			0.7	8.5	4.6	72	<0.1	9.1	3.8	457	1.44	1.1	1.1	0.8	35	<0.1	<0.1	<0.1	36	0.32	0.023	3
PC11 KT100	Soil			0.7	10.1	4.5	52	<0.1	9.5	4.1	267	1.73	1.2	0.8	1.0	39	<0.1	<0.1	<0.1	47	0.29	0.021	3
PCS-023	Rock Pulp			126.3	3592	25.4	63	2.5	36.5	20.3	393	4.27	53.1	423.3	2.1	31	0.5	3.6	0.4	123	0.31	0.091	10
PC11 KT101	Soil			0.7	9.9	4.2	74	<0.1	9.9	4.5	373	1.73	1.0	<0.5	0.8	48	<0.1	0.1	<0.1	46	0.34	0.021	3
PC11 KT102	Soil			0.5	12.0	5.3	58	<0.1	10.2	4.8	456	1.91	1.4	<0.5	1.0	100	<0.1	0.1	<0.1	48	0.43	0.022	4
PC11 KT103	Soil			0.6	15.0	4.3	64	<0.1	13.9	6.4	497	2.32	1.8	1.3	1.1	60	<0.1	0.1	<0.1	63	0.49	0.031	4
PC11 KT104	Soil			0.5	11.9	5.4	68	<0.1	11.7	6.5	628	2.30	1.2	<0.5	1.3	68	0.1	0.1	<0.1	57	0.53	0.028	5

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	1DX15															
		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
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 KT76	Soil	20	0.28	106	0.137	5	1.50	0.023	0.15	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 KT77	Soil	20	0.25	109	0.131	4	1.41	0.024	0.08	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PC11 KT78	Soil	22	0.30	134	0.149	2	1.58	0.024	0.06	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 KT79	Soil	17	0.20	133	0.106	1	1.18	0.015	0.06	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT80	Soil	18	0.21	140	0.114	1	1.21	0.017	0.06	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT81	Soil	22	0.28	146	0.122	<1	1.58	0.021	0.05	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PC11 KT82	Soil	17	0.20	117	0.096	1	1.21	0.018	0.06	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT83	Soil	24	0.29	166	0.105	2	1.99	0.019	0.08	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PC11 KT84	Soil	16	0.19	133	0.084	1	1.29	0.016	0.07	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT85	Soil	18	0.20	99	0.091	2	1.32	0.021	0.06	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT86	Soil	18	0.22	102	0.101	2	1.46	0.022	0.08	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PC11 KT87	Soil	18	0.22	86	0.121	2	1.22	0.020	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT88	Soil	19	0.23	72	0.136	1	1.45	0.022	0.08	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PC11 KT89	Soil	17	0.24	92	0.142	1	1.50	0.022	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT90	Soil	17	0.24	65	0.113	<1	1.31	0.023	0.06	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT91	Soil	19	0.24	68	0.118	1	1.29	0.020	0.08	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PC11 KT92	Soil	21	0.29	56	0.151	2	1.42	0.022	0.10	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT93	Soil	26	0.32	87	0.162	2	1.64	0.029	0.07	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
PC11 KT94	Soil	16	0.21	92	0.116	2	1.31	0.021	0.06	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PC11 KT95	Soil	18	0.22	86	0.113	<1	1.19	0.019	0.06	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 KT96	Soil	19	0.23	71	0.111	1	1.12	0.019	0.07	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT97	Soil	18	0.21	59	0.105	2	1.13	0.021	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT98	Soil	19	0.21	72	0.111	1	1.02	0.025	0.06	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PC11 KT99	Soil	17	0.22	86	0.103	2	1.15	0.019	0.08	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT100	Soil	21	0.23	69	0.112	1	1.15	0.018	0.10	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PCS-023	Rock Pulp	52	0.89	44	0.118	1	1.29	0.041	0.86	4.0	0.07	10.0	0.5	2.04	5	6.2	0.8
PC11 KT101	Soil	20	0.27	79	0.128	2	1.41	0.020	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT102	Soil	20	0.28	87	0.161	2	1.66	0.019	0.14	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PC11 KT103	Soil	23	0.34	64	0.177	2	1.96	0.022	0.08	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
PC11 KT104	Soil	22	0.35	99	0.174	2	2.28	0.024	0.06	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
PC11 KT105	Soil			0.5	19.6	5.5	82	<0.1	12.1	8.5	922	2.99	1.5	<0.5	1.8	114	0.2	<0.1	<0.1	77	0.88	0.049	9
PC11 KT106	Soil			0.6	20.0	5.0	58	<0.1	13.2	7.7	424	2.60	2.0	<0.5	1.4	76	<0.1	0.1	<0.1	64	0.65	0.029	7
PC11 KT107	Soil			0.8	9.8	3.5	75	<0.1	6.8	4.3	859	1.34	2.3	<0.5	0.5	51	<0.1	<0.1	<0.1	29	0.59	0.044	3
PC11 KT108	Soil			0.5	19.9	4.4	61	<0.1	13.2	7.2	384	2.63	1.2	0.6	1.2	50	<0.1	<0.1	<0.1	66	0.55	0.027	6
PC11 KT109	Soil			0.6	22.7	5.5	70	<0.1	15.2	11.5	954	3.33	1.8	<0.5	1.3	76	0.2	<0.1	<0.1	73	0.84	0.035	7
PC11 KT110	Soil			0.7	19.6	3.2	32	<0.1	11.2	8.0	453	2.15	1.6	<0.5	1.1	34	<0.1	0.1	<0.1	61	0.35	0.022	6
PC11 KT111	Soil			0.5	16.7	3.0	79	<0.1	12.1	7.1	695	1.93	2.3	1.6	0.9	37	0.1	0.1	<0.1	53	0.40	0.048	4
PC11 KT112	Soil			0.5	21.0	3.1	50	<0.1	14.2	9.1	395	2.40	1.4	<0.5	1.2	32	<0.1	0.1	<0.1	69	0.33	0.025	7
PC11 KT113	Soil			0.5	15.4	2.7	39	<0.1	14.7	9.1	361	2.57	1.3	<0.5	1.2	31	<0.1	<0.1	<0.1	75	0.33	0.031	6
PC11 KT114	Soil			0.8	16.8	3.8	58	<0.1	11.5	7.9	712	2.24	1.2	<0.5	1.0	38	0.1	0.1	<0.1	64	0.36	0.035	5
PC11 KT115	Soil			0.6	13.4	4.3	73	<0.1	10.4	6.2	665	1.83	0.8	0.9	0.9	32	0.1	<0.1	<0.1	49	0.32	0.026	4
PC11 KT116	Soil			0.5	8.1	3.0	90	<0.1	7.9	3.5	343	1.40	0.5	<0.5	0.7	21	<0.1	<0.1	<0.1	37	0.24	0.027	2
PC11 KT117	Soil			0.6	10.3	3.9	56	<0.1	6.4	4.6	508	1.39	0.6	<0.5	0.7	29	<0.1	<0.1	<0.1	39	0.28	0.022	3
PC11 KT118	Soil			0.5	15.0	5.5	71	<0.1	11.0	7.0	700	2.22	0.8	<0.5	1.9	49	<0.1	<0.1	<0.1	57	0.43	0.017	11
PC11 KT119	Soil			0.7	15.5	6.6	114	<0.1	10.3	6.4	652	2.19	1.0	<0.5	1.6	48	0.1	0.1	0.1	52	0.50	0.039	8
PC11 KT120	Soil			0.4	9.7	4.3	85	<0.1	8.9	5.3	363	1.90	0.7	<0.5	1.1	39	<0.1	<0.1	<0.1	52	0.37	0.026	4
PC11 KT121	Soil			0.5	9.5	4.4	65	<0.1	8.9	5.9	418	1.79	0.5	<0.5	1.2	38	<0.1	<0.1	<0.1	50	0.32	0.015	7
PC11 KT122	Soil			0.6	13.4	5.3	65	<0.1	9.6	5.8	389	1.87	1.0	19.3	1.5	42	0.1	0.1	<0.1	51	0.36	0.025	6
PC11 KT123	Soil			0.6	12.3	4.6	75	<0.1	9.4	5.4	404	1.82	0.7	<0.5	1.3	38	0.1	<0.1	<0.1	51	0.33	0.018	5
PC11 KT124	Soil			0.5	12.5	4.3	77	<0.1	9.8	5.5	451	1.84	0.7	<0.5	1.2	38	<0.1	<0.1	<0.1	49	0.42	0.022	5
PC11 KT125	Soil			0.5	15.8	3.7	60	<0.1	10.8	5.9	363	1.95	0.7	<0.5	1.3	31	<0.1	0.1	<0.1	58	0.27	0.012	5
PC11 KT126	Soil			0.5	12.1	3.0	53	<0.1	10.2	5.4	394	2.10	1.0	<0.5	1.0	30	<0.1	<0.1	<0.1	69	0.25	0.020	3
PC11 KT127	Soil			0.4	20.2	4.0	33	<0.1	11.2	7.2	350	2.04	0.6	0.7	1.6	35	<0.1	0.1	<0.1	64	0.34	0.008	7
PC11 KT128	Soil			0.5	17.0	3.1	62	<0.1	9.6	6.0	424	1.80	0.8	<0.5	0.9	31	<0.1	<0.1	<0.1	52	0.32	0.028	4
PC11 KT129	Soil			0.5	14.0	3.7	44	<0.1	8.8	6.0	185	1.62	0.7	1.5	1.0	28	<0.1	<0.1	<0.1	47	0.26	0.019	3
PC11 KT130	Soil			0.4	26.7	3.6	34	<0.1	12.9	7.9	268	2.18	0.7	<0.5	1.5	35	<0.1	0.1	<0.1	71	0.35	0.015	8
PC11 KT131	Soil			0.5	19.6	3.6	32	<0.1	10.8	7.2	249	2.05	0.7	<0.5	1.5	35	<0.1	0.1	<0.1	65	0.36	0.016	6
PC11 KT132	Soil			0.4	15.1	3.9	59	<0.1	10.4	6.6	433	1.88	0.6	<0.5	1.2	32	<0.1	0.1	<0.1	53	0.32	0.016	4
PC11 KT133	Soil			0.4	20.5	3.6	51	<0.1	13.2	7.7	456	2.02	0.6	<0.5	1.4	36	<0.1	<0.1	<0.1	58	0.37	0.017	7
PC11 KT134	Soil			0.5	21.9	3.6	42	<0.1	14.6	9.5	272	2.35	1.1	<0.5	1.5	38	<0.1	0.1	0.1	69	0.40	0.023	7

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 2446 Bidston Road
 Mill Bay BC V0R 2P4 Canada

Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	1DX15															
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PC11 KT105	Soil	21	0.54	87	0.247	4	2.89	0.044	0.10	<0.1	0.03	6.6	<0.1	<0.05	9	<0.5	<0.2
PC11 KT106	Soil	25	0.37	87	0.174	3	2.25	0.030	0.06	<0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
PC11 KT107	Soil	13	0.22	57	0.088	3	1.21	0.019	0.07	<0.1	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
PC11 KT108	Soil	25	0.41	74	0.199	2	2.27	0.037	0.10	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
PC11 KT109	Soil	21	0.65	97	0.233	3	2.31	0.058	0.13	<0.1	0.02	8.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT110	Soil	22	0.26	96	0.111	2	0.95	0.024	0.16	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 KT111	Soil	19	0.26	162	0.087	7	1.04	0.015	0.21	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT112	Soil	24	0.27	106	0.109	3	1.08	0.019	0.16	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PC11 KT113	Soil	25	0.28	94	0.108	3	1.11	0.018	0.12	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT114	Soil	21	0.27	140	0.093	3	1.12	0.014	0.11	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT115	Soil	18	0.26	165	0.096	3	1.17	0.015	0.12	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 KT116	Soil	14	0.18	114	0.086	3	0.95	0.014	0.11	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT117	Soil	14	0.18	134	0.089	2	0.85	0.013	0.08	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 KT118	Soil	19	0.28	183	0.125	3	1.38	0.016	0.16	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PC11 KT119	Soil	18	0.30	204	0.112	3	1.53	0.015	0.15	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PC11 KT120	Soil	18	0.24	143	0.110	2	1.22	0.015	0.11	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT121	Soil	17	0.23	141	0.121	1	1.09	0.017	0.12	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT122	Soil	19	0.24	133	0.124	2	1.20	0.017	0.13	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT123	Soil	19	0.24	121	0.127	2	1.14	0.017	0.11	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT124	Soil	18	0.24	140	0.121	2	1.22	0.016	0.15	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PC11 KT125	Soil	21	0.23	120	0.111	<1	0.96	0.017	0.10	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT126	Soil	22	0.19	140	0.111	2	0.86	0.016	0.11	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT127	Soil	22	0.22	109	0.118	1	0.88	0.018	0.11	<0.1	0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
PC11 KT128	Soil	19	0.22	118	0.100	2	0.88	0.015	0.10	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT129	Soil	18	0.22	111	0.107	<1	0.97	0.015	0.09	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PC11 KT130	Soil	24	0.24	101	0.114	1	0.97	0.017	0.11	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT131	Soil	23	0.25	91	0.121	2	0.92	0.024	0.13	<0.1	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 KT132	Soil	21	0.24	135	0.121	3	1.02	0.023	0.16	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT133	Soil	23	0.26	138	0.116	2	1.02	0.020	0.16	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
PC11 KT134	Soil	27	0.29	102	0.134	1	1.19	0.020	0.14	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2



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 Report Date: November 19, 2011

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
PC11 KT135	Soil	0.5	14.0	3.2	60	<0.1	12.6	6.9	452	2.13	0.5	<0.5	1.0	30	<0.1	0.1	<0.1	68	0.31	0.022	4
PC11 KT136	Soil	0.5	15.9	2.8	76	<0.1	10.9	6.7	537	1.88	0.8	<0.5	1.0	28	<0.1	<0.1	<0.1	55	0.31	0.020	4
PC11 KT137	Soil	0.6	15.2	2.8	47	<0.1	12.1	7.0	365	2.16	0.7	<0.5	1.1	27	<0.1	<0.1	<0.1	66	0.30	0.022	4
PC11 KT138	Soil	0.4	16.2	2.9	37	<0.1	11.4	6.9	244	2.00	0.7	<0.5	1.1	30	<0.1	<0.1	<0.1	62	0.30	0.014	5
PC11 KT139	Soil	0.5	14.5	3.5	52	<0.1	9.8	6.8	430	1.86	0.5	<0.5	0.9	34	<0.1	<0.1	<0.1	58	0.36	0.016	4
PC11 KT140	Soil	0.7	18.8	4.3	44	<0.1	9.7	6.9	517	1.92	0.8	<0.5	1.1	34	0.2	<0.1	<0.1	57	0.37	0.017	4
PC11 KT141	Soil	0.7	12.8	3.4	70	<0.1	9.2	5.1	583	1.73	0.6	<0.5	0.9	28	<0.1	<0.1	<0.1	50	0.28	0.030	3
PC11 KT142	Soil	0.5	13.2	2.9	67	<0.1	8.3	4.7	238	1.70	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	49	0.25	0.021	3
PC11 KT143	Soil	0.5	12.5	5.2	102	<0.1	11.6	6.1	331	1.95	0.6	0.5	0.9	36	<0.1	0.1	0.1	45	0.34	0.024	3
PC11 KT144	Soil	0.6	16.2	5.4	64	<0.1	9.0	6.3	414	2.05	0.8	5.4	1.4	48	<0.1	0.1	<0.1	57	0.39	0.019	7
PC11 KT145	Soil	0.6	17.2	6.2	77	<0.1	10.4	7.3	348	2.15	0.8	<0.5	1.5	43	0.1	<0.1	<0.1	56	0.51	0.024	7
PC11 KT146	Soil	0.6	11.9	5.3	68	<0.1	8.5	5.7	427	1.89	0.7	1.6	1.6	46	<0.1	0.1	<0.1	52	0.40	0.024	5
PC11 KT147	Soil	0.8	20.6	4.4	45	<0.1	9.8	6.5	388	2.21	1.0	0.7	1.5	36	0.3	0.3	0.3	70	0.38	0.019	8
PC11 KT148	Soil	0.6	10.5	3.7	80	<0.1	8.3	5.3	410	1.78	1.0	0.6	1.1	32	0.3	0.3	0.2	53	0.28	0.017	4
PC11 KT149	Soil	1.0	21.6	6.0	60	<0.1	12.2	9.1	1028	2.18	1.2	1.0	1.5	49	0.5	0.5	0.3	65	0.48	0.025	10
PC11 KT150	Soil	0.6	24.3	6.1	56	<0.1	10.0	7.0	583	2.21	1.4	73.8	1.9	45	0.3	0.3	0.2	68	0.46	0.020	10
PCS-022	Rock Pulp	16.9	68.5	16.9	18	0.1	18.2	2.8	106	3.74	444.7	209.7	0.8	28	0.5	24.8	0.2	10	0.97	0.005	2
PC11 KT151	Soil	0.7	27.6	3.8	39	<0.1	16.9	10.0	474	2.45	5.1	2.0	1.6	35	0.2	0.4	0.2	72	0.39	0.023	9
PC11 KT152	Soil	0.6	16.6	2.7	44	<0.1	13.9	7.9	391	2.08	1.2	0.7	1.1	27	0.3	0.4	0.2	60	0.32	0.016	5
PC11 KT153	Soil	0.6	14.4	3.3	54	<0.1	11.8	6.7	505	1.93	0.9	<0.5	1.0	33	0.3	0.3	0.1	60	0.40	0.022	4
PC11 KT154	Soil	0.5	15.7	3.7	51	<0.1	12.3	7.0	587	2.09	1.0	1.1	1.0	34	0.3	0.2	0.1	68	0.37	0.016	6
PC11 KT155	Soil	0.7	14.8	4.2	58	<0.1	12.1	7.9	507	1.96	1.3	0.9	1.4	34	0.4	0.4	0.2	59	0.38	0.021	5
PC11 KT156	Soil	0.6	15.4	3.7	45	<0.1	11.2	7.1	241	1.99	1.0	<0.5	1.2	30	0.3	0.3	0.2	59	0.35	0.017	5
PC11 KT157	Soil	0.7	13.8	3.4	78	<0.1	11.4	6.4	475	2.03	0.9	0.6	1.0	33	0.3	0.2	0.1	65	0.35	0.019	4
PC11 KT158	Soil	0.7	25.0	3.7	50	<0.1	14.5	7.9	345	2.60	1.2	<0.5	1.6	42	0.2	0.2	0.1	88	0.37	0.021	6
PC11 KT159	Soil	0.7	16.6	3.6	73	<0.1	15.4	7.3	575	2.24	1.1	2.2	1.4	34	<0.1	<0.1	<0.1	66	0.37	0.027	5
PC11 KT160	Soil	0.7	16.5	2.4	56	<0.1	12.0	6.5	356	2.21	1.0	53.0	1.0	32	0.1	0.2	<0.1	71	0.39	0.027	4
PC11 KT161	Soil	0.5	53.4	3.2	32	<0.1	29.1	12.9	416	2.94	2.0	1.3	1.5	44	<0.1	0.2	<0.1	90	0.63	0.077	8
PC11 KT162	Soil	0.5	13.9	2.3	39	<0.1	11.2	7.2	400	2.21	1.3	<0.5	0.9	28	0.2	0.2	<0.1	73	0.34	0.024	3
PC11 KT163	Soil	0.4	33.3	2.7	28	<0.1	19.4	9.0	329	2.63	0.8	0.7	1.2	35	0.2	0.2	<0.1	87	0.46	0.017	7

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	Unit	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	MDL	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	
PC11 KT135	Soil	24	0.22	138	0.115	2	0.94	0.019	0.11	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT136	Soil	20	0.22	137	0.103	2	0.91	0.022	0.14	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT137	Soil	24	0.24	96	0.102	3	0.90	0.020	0.17	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 KT138	Soil	22	0.22	92	0.113	2	0.93	0.017	0.12	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 KT139	Soil	21	0.21	104	0.107	1	0.85	0.017	0.10	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 KT140	Soil	18	0.21	119	0.111	1	0.92	0.019	0.10	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT141	Soil	18	0.19	153	0.107	3	0.87	0.022	0.11	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 KT142	Soil	17	0.19	110	0.102	2	0.90	0.023	0.09	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
PC11 KT143	Soil	19	0.33	196	0.116	2	1.84	0.015	0.08	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PC11 KT144	Soil	18	0.29	140	0.127	<1	1.28	0.016	0.17	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 KT145	Soil	20	0.31	156	0.156	3	1.48	0.015	0.19	<0.1	0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
PC11 KT146	Soil	18	0.26	144	0.127	1	1.22	0.015	0.11	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT147	Soil	18	0.26	144	0.114	2	1.00	0.012	0.16	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT148	Soil	15	0.22	150	0.117	2	0.95	0.014	0.15	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PC11 KT149	Soil	19	0.29	232	0.124	3	1.06	0.014	0.19	<0.1	0.02	3.0	<0.1	<0.05	4	0.5	<0.2
PC11 KT150	Soil	19	0.29	121	0.137	2	1.16	0.014	0.16	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PCS-022	Rock Pulp	24	0.02	1141	0.010	1	0.16	0.006	0.06	2.3	2.86	0.6	10.2	0.13	<1	1.5	<0.2
PC11 KT151	Soil	26	0.30	108	0.125	2	1.16	0.022	0.19	<0.1	0.02	3.3	0.1	<0.05	4	<0.5	<0.2
PC11 KT152	Soil	23	0.21	86	0.126	2	0.85	0.021	0.10	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 KT153	Soil	21	0.19	96	0.111	3	0.85	0.020	0.10	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT154	Soil	21	0.20	125	0.106	2	0.82	0.017	0.10	<0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT155	Soil	21	0.23	152	0.119	3	1.05	0.015	0.11	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PC11 KT156	Soil	21	0.21	113	0.116	2	0.97	0.014	0.14	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 KT157	Soil	22	0.22	164	0.123	2	0.91	0.016	0.13	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 KT158	Soil	26	0.29	132	0.129	2	1.15	0.020	0.13	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PC11 KT159	Soil	24	0.26	158	0.125	2	1.17	0.018	0.15	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PC11 KT160	Soil	23	0.19	101	0.111	2	0.88	0.018	0.10	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT161	Soil	26	0.60	63	0.100	1	0.93	0.041	0.06	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 KT162	Soil	24	0.19	78	0.109	2	0.84	0.018	0.13	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 KT163	Soil	28	0.27	56	0.125	2	0.85	0.025	0.12	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2

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Client: **Mammoth Geological Ltd.**
 2446 Bidston Road
 Mill Bay BC V0R 2P4 Canada

Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 KT164	Soil			0.4	16.2	2.5	38	<0.1	12.9	7.8	277	2.42	0.8	0.6	1.0	31	0.1	0.2	<0.1	84	0.36	0.017	5	
PC11 KT165	Soil			0.6	21.2	2.7	40	<0.1	18.4	9.5	528	2.54	0.9	<0.5	1.2	31	<0.1	0.1	<0.1	86	0.34	0.016	7	
PC11 KT166	Soil			0.4	22.6	2.8	29	<0.1	13.6	8.5	459	2.17	0.9	0.9	1.5	28	<0.1	0.2	<0.1	80	0.35	0.010	6	
PC11 KT167	Soil			0.7	124.1	2.8	28	<0.1	9.9	6.6	366	2.46	1.1	0.7	1.7	30	0.1	0.2	<0.1	88	0.40	0.023	8	
PC11 KT168	Soil			0.6	39.2	4.2	36	<0.1	9.9	6.7	377	2.16	1.5	<0.5	1.3	36	0.2	0.3	0.1	71	0.40	0.014	9	
PC11 KT169	Soil			0.5	47.7	8.1	84	<0.1	28.8	17.1	1186	3.82	3.6	0.7	1.4	141	0.3	0.3	0.2	106	1.79	0.075	12	
PC11 KT170	Soil			0.6	11.2	3.9	68	<0.1	10.3	5.8	644	1.80	1.5	<0.5	0.9	37	<0.1	<0.1	<0.1	46	0.45	0.035	3	
PC11 KT171	Soil			0.4	14.8	4.1	71	<0.1	14.2	6.0	304	2.11	1.5	<0.5	1.2	41	0.1	0.2	0.1	54	0.40	0.027	4	
PC11 KT172	Soil			0.5	14.9	4.7	87	<0.1	13.4	6.7	661	2.43	1.6	0.9	1.5	86	0.2	0.3	0.1	61	0.50	0.025	8	
PC11 KT173	Soil			0.5	15.3	5.1	69	<0.1	12.5	7.0	466	2.44	1.4	<0.5	1.4	106	0.2	0.3	0.1	68	0.51	0.020	6	
PC11 KT174	Soil			0.8	13.6	5.3	57	<0.1	14.1	7.2	472	2.31	1.6	0.6	1.6	77	0.2	0.2	0.1	62	0.54	0.023	7	
PC11 KT175	Soil			0.8	13.5	4.8	74	<0.1	16.5	8.0	738	2.54	1.9	<0.5	1.4	90	<0.1	<0.1	<0.1	63	0.66	0.036	8	
PC11 KT176	Soil			0.8	14.1	6.2	67	<0.1	15.6	7.3	523	2.32	2.0	<0.5	1.3	62	0.2	0.1	<0.1	62	0.50	0.025	7	
PC11 KT177	Soil			0.8	14.9	5.8	95	<0.1	15.5	7.2	1171	2.32	2.1	2.3	1.4	61	0.3	0.3	0.1	58	0.57	0.020	8	
PC11 KT178	Soil			0.9	13.9	5.8	60	<0.1	14.5	7.3	525	2.41	1.8	<0.5	1.5	73	0.2	0.2	0.1	61	0.54	0.021	9	
PC11 KT179	Soil			0.7	15.1	6.1	96	<0.1	12.8	6.9	761	2.42	1.6	<0.5	1.5	100	0.3	0.3	0.2	58	0.61	0.026	8	
PC11 KT180	Soil			0.7	15.0	6.2	99	<0.1	15.9	7.2	1067	2.18	1.0	<0.5	1.5	65	0.4	0.2	0.1	49	0.62	0.024	6	
PC11 KT181	Soil			1.0	17.7	5.4	101	<0.1	19.9	8.3	917	2.35	2.1	1.4	1.6	63	0.2	0.2	0.3	56	0.61	0.031	7	
PC11 KT182	Soil			0.5	17.0	5.8	103	<0.1	15.0	7.6	1129	2.35	1.0	<0.5	2.1	71	0.1	<0.1	0.3	50	0.53	0.013	8	
PC11 KT183	Soil			0.5	25.0	5.7	60	<0.1	25.6	11.4	388	2.91	1.4	0.7	1.8	73	0.1	0.1	0.1	72	0.61	0.029	9	
PC11 KT184	Soil			0.5	24.3	4.7	66	<0.1	25.5	10.2	366	2.91	1.6	0.6	1.6	69	<0.1	0.1	0.1	72	0.61	0.024	8	
PC11 KT185	Soil			0.5	31.0	5.1	53	<0.1	31.4	12.1	428	3.18	2.1	<0.5	1.8	102	0.1	0.2	<0.1	78	0.78	0.037	12	
PC11 KT186	Soil			0.5	24.3	5.4	55	<0.1	26.9	12.1	792	2.95	1.2	<0.5	1.6	77	0.2	0.1	<0.1	69	0.78	0.026	9	
PC11 KT187	Soil			0.5	25.6	5.1	56	<0.1	25.3	11.3	481	2.99	1.5	<0.5	1.6	69	0.1	0.1	<0.1	71	0.60	0.020	9	
PC11 KT188	Soil			0.7	23.9	4.8	78	<0.1	20.0	9.9	728	2.65	1.4	<0.5	1.2	53	<0.1	0.1	<0.1	61	0.49	0.037	7	
PC11 KT189	Soil			0.7	21.5	4.8	73	<0.1	19.7	8.5	318	2.83	1.5	<0.5	1.4	63	<0.1	0.2	<0.1	74	0.56	0.018	7	
PC11 KT190	Soil			0.7	22.1	5.2	79	<0.1	20.5	10.4	678	2.65	1.8	<0.5	1.5	66	0.1	0.1	<0.1	63	0.61	0.032	7	
PC11 KT191	Soil			0.4	23.1	5.6	64	<0.1	20.1	10.8	423	2.95	1.2	<0.5	1.6	89	0.1	0.1	<0.1	67	0.65	0.023	9	
PC11 KT192	Soil			0.5	19.5	5.3	53	<0.1	19.1	9.1	304	2.61	1.6	<0.5	1.5	57	<0.1	0.1	<0.1	65	0.47	0.020	6	
PC11 KT193	Soil			0.4	22.9	4.8	62	<0.1	21.3	9.7	494	3.00	1.2	1.0	1.6	75	<0.1	0.1	<0.1	77	0.55	0.019	10	

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 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005991.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 KT164	Soil			28	0.22	75	0.121	1	0.82	0.019	0.09	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 KT165	Soil			28	0.24	91	0.112	2	0.85	0.018	0.13	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 KT166	Soil			25	0.20	76	0.117	2	0.73	0.017	0.11	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT167	Soil			18	0.25	152	0.075	2	0.95	0.010	0.11	0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 KT168	Soil			19	0.23	82	0.099	2	0.98	0.017	0.11	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT169	Soil			34	1.28	63	0.198	7	3.14	0.020	0.23	<0.1	0.05	7.1	<0.1	<0.05	12	<0.5	<0.2
PC11 KT170	Soil			19	0.23	101	0.116	3	1.43	0.017	0.12	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PC11 KT171	Soil			26	0.29	108	0.147	2	1.70	0.017	0.13	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PC11 KT172	Soil			23	0.33	97	0.177	4	1.94	0.017	0.15	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
PC11 KT173	Soil			23	0.32	80	0.189	2	1.91	0.017	0.11	<0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
PC11 KT174	Soil			26	0.32	94	0.169	3	1.82	0.017	0.13	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 KT175	Soil			23	0.41	101	0.168	5	2.36	0.019	0.09	<0.1	0.03	5.1	<0.1	<0.05	8	<0.5	<0.2
PC11 KT176	Soil			28	0.34	111	0.173	2	1.97	0.016	0.09	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 KT177	Soil			23	0.35	159	0.162	3	1.99	0.016	0.09	<0.1	0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT178	Soil			25	0.35	109	0.169	2	2.00	0.018	0.07	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
PC11 KT179	Soil			22	0.35	111	0.195	3	2.12	0.016	0.12	<0.1	0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
PC11 KT180	Soil			26	0.33	109	0.129	5	1.84	0.019	0.12	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 KT181	Soil			32	0.34	98	0.158	4	1.67	0.017	0.17	<0.1	0.03	4.7	0.1	<0.05	6	<0.5	<0.2
PC11 KT182	Soil			23	0.29	81	0.125	6	1.58	0.019	0.18	<0.1	<0.01	4.1	<0.1	0.07	5	<0.5	<0.2
PC11 KT183	Soil			37	0.56	127	0.166	2	2.60	0.027	0.08	<0.1	<0.01	4.8	<0.1	<0.05	7	<0.5	<0.2
PC11 KT184	Soil			39	0.59	107	0.160	3	2.29	0.027	0.07	<0.1	0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 KT185	Soil			38	0.73	143	0.153	3	2.64	0.026	0.08	<0.1	0.02	5.4	<0.1	<0.05	8	<0.5	<0.2
PC11 KT186	Soil			36	0.59	135	0.144	3	2.41	0.027	0.08	<0.1	0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT187	Soil			35	0.58	117	0.146	3	2.34	0.026	0.08	<0.1	<0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11 KT188	Soil			31	0.38	147	0.129	3	1.79	0.021	0.12	<0.1	<0.01	3.9	<0.1	<0.05	6	<0.5	<0.2
PC11 KT189	Soil			38	0.42	103	0.173	3	1.79	0.019	0.08	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 KT190	Soil			32	0.42	140	0.143	4	2.02	0.021	0.10	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT191	Soil			32	0.55	102	0.169	2	2.67	0.026	0.07	<0.1	0.01	5.2	<0.1	<0.05	8	<0.5	<0.2
PC11 KT192	Soil			32	0.46	99	0.151	3	2.20	0.025	0.08	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT193	Soil			33	0.49	77	0.163	3	1.99	0.024	0.15	<0.1	0.01	5.1	<0.1	<0.05	6	<0.5	<0.2

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	
PC11 KT194	Soil	0.6	19.1	4.2	78	<0.1	15.1	7.3	537	2.33	1.2	<0.5	1.4	66	0.1	0.1	<0.1	56	0.51	0.020	7
PC11 KT195	Soil	0.5	23.4	4.5	78	<0.1	11.9	7.9	534	2.94	1.0	<0.5	1.6	166	<0.1	0.1	<0.1	69	0.73	0.025	11
PC11 KT196	Soil	0.6	38.6	5.5	79	0.1	9.6	12.0	679	4.10	1.9	<0.5	2.0	213	<0.1	0.1	<0.1	98	0.91	0.043	16
PC11 KT197	Soil	0.5	23.5	5.1	80	<0.1	25.2	11.5	639	2.94	1.5	<0.5	1.4	67	0.2	0.2	<0.1	83	0.55	0.014	10
PC11 KT198	Soil	0.5	26.3	4.6	82	<0.1	32.2	12.0	567	2.86	1.5	<0.5	1.2	63	<0.1	0.2	<0.1	74	0.52	0.024	9
PC11 KT199	Soil	0.4	30.3	4.4	59	<0.1	23.3	10.5	441	2.79	2.0	<0.5	1.5	76	<0.1	0.2	<0.1	77	0.62	0.026	10
PC11 KT200	Soil	0.6	30.6	4.9	61	<0.1	23.9	10.5	585	2.86	2.0	0.8	1.6	69	0.1	0.2	<0.1	74	0.62	0.018	9
PCS-024	Rock Pulp	17.4	68.9	17.6	17	0.1	18.6	2.8	121	4.01	452.7	218.7	0.8	29	0.4	25.6	0.1	8	1.02	0.005	2
PC11 KT201	Soil	0.6	27.8	4.8	67	<0.1	18.4	10.8	445	3.23	2.3	1.1	1.3	59	<0.1	0.4	<0.1	91	0.64	0.023	9
PC11 KT202	Soil	0.5	25.3	4.4	61	<0.1	18.8	10.4	380	3.02	2.2	<0.5	1.3	60	0.1	0.2	<0.1	83	0.57	0.025	9
PC11 KT203	Soil	0.9	26.7	7.6	68	<0.1	24.9	12.3	767	2.79	6.3	<0.5	1.7	63	0.1	0.3	0.2	76	0.64	0.023	11
PC11 KT204	Soil	0.7	24.0	13.0	67	0.1	19.5	7.8	749	2.80	15.1	<0.5	1.9	54	0.1	0.4	0.1	54	0.67	0.032	19
PC11 KT205	Soil	0.5	23.0	8.5	81	<0.1	16.9	6.7	462	2.52	3.4	<0.5	1.4	53	0.2	0.2	0.1	61	0.53	0.021	13
PC11 KT206	Soil	0.6	27.2	5.4	65	<0.1	23.1	11.0	636	2.87	3.3	10.7	1.7	62	0.2	0.2	<0.1	81	0.62	0.024	10
PC11 KT207	Soil	0.4	32.6	4.0	75	<0.1	20.0	12.3	507	3.22	3.3	<0.5	1.0	58	<0.1	0.2	<0.1	75	0.57	0.027	9
PC11 KT208	Soil	0.6	34.5	4.9	67	<0.1	26.8	11.8	598	3.04	2.4	<0.5	1.4	74	0.1	0.2	<0.1	79	0.73	0.026	9
PC11 KT209	Soil	0.6	44.6	4.7	52	0.1	24.3	11.0	467	3.06	3.2	2.6	1.4	109	<0.1	0.2	<0.1	91	2.08	0.068	10
PC11 KT210	Soil	0.4	26.4	5.5	79	<0.1	22.5	9.5	640	2.81	2.1	<0.5	1.6	54	0.1	0.2	<0.1	63	0.50	0.017	10
PC11 JT181	Soil	0.4	47.8	4.0	59	<0.1	22.9	12.1	667	2.57	1.3	<0.5	1.6	78	<0.1	<0.1	<0.1	61	0.83	0.032	8
PC11 JT182	Soil	0.4	21.3	3.3	49	<0.1	14.6	8.1	295	2.22	<0.5	2.7	1.4	43	<0.1	0.1	<0.1	63	0.40	0.024	6
PC11 JT183	Soil	0.4	23.6	3.0	47	<0.1	15.6	8.2	378	2.36	1.0	<0.5	1.3	41	<0.1	0.1	<0.1	71	0.40	0.021	7
PC11 JT184	Soil	0.4	27.5	3.0	40	<0.1	16.5	9.0	360	2.52	0.9	<0.5	1.3	39	<0.1	0.1	<0.1	78	0.39	0.012	9
PC11 JT185	Soil	0.3	77.4	3.7	48	<0.1	28.5	13.6	465	3.35	1.4	<0.5	1.9	49	<0.1	0.2	<0.1	91	0.60	0.037	10
PC11 JT186	Soil	0.5	83.1	4.2	46	<0.1	23.2	13.0	453	3.21	1.6	1.1	2.1	50	0.1	0.2	<0.1	94	0.59	0.030	11
PC11 JT187	Soil	0.4	35.0	3.0	32	<0.1	13.8	8.5	365	2.23	1.0	<0.5	1.9	37	<0.1	0.2	<0.1	72	0.36	0.013	8
PC11 JT188	Soil	0.5	100.9	3.9	58	0.2	43.0	18.2	506	3.67	1.9	17.8	2.5	67	0.1	0.3	<0.1	76	0.88	0.121	12
PC11 JT189	Soil	0.6	105.4	5.7	55	<0.1	29.2	16.2	606	3.45	2.8	1.1	2.4	60	0.1	0.4	0.1	86	0.63	0.045	13
PC11 JT190	Soil	0.5	36.0	4.0	48	<0.1	18.9	9.7	277	3.13	3.0	<0.5	1.7	90	<0.1	0.2	<0.1	77	0.77	0.061	12
PC11 JT191	Soil	0.6	30.5	4.8	56	<0.1	16.2	9.0	410	2.78	3.0	<0.5	1.7	82	0.1	0.2	<0.1	67	0.78	0.048	10
PC11 JT192	Soil	0.5	44.1	4.8	52	<0.1	15.9	9.2	356	2.97	3.2	<0.5	1.7	130	<0.1	0.3	<0.1	71	0.70	0.041	12

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Project: Princeton
 Report Date: November 19, 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		
				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		
				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	
PC11 KT194	Soil			25	0.39	75	0.139	4	1.68	0.020	0.18	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 KT195	Soil			22	0.45	98	0.143	5	2.29	0.026	0.25	<0.1	<0.01	6.3	<0.1	<0.05	7	<0.5	<0.2
PC11 KT196	Soil			12	0.56	169	0.077	5	2.91	0.029	0.29	<0.1	0.01	7.8	<0.1	<0.05	9	<0.5	<0.2
PC11 KT197	Soil			38	0.52	81	0.163	3	1.61	0.025	0.20	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 KT198	Soil			45	0.69	84	0.148	4	1.77	0.025	0.28	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 KT199	Soil			35	0.50	77	0.146	4	1.78	0.029	0.20	<0.1	<0.01	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT200	Soil			37	0.59	81	0.139	3	1.87	0.030	0.20	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
PCS-024	Rock Pulp			24	0.02	758	0.010	1	0.17	0.006	0.06	2.5	2.92	0.5	10.8	0.12	<1	1.9	<0.2
PC11 KT201	Soil			36	0.61	85	0.206	3	2.09	0.022	0.22	<0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 KT202	Soil			35	0.63	90	0.179	2	2.03	0.024	0.20	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5	<0.2
PC11 KT203	Soil			35	0.43	104	0.138	3	1.92	0.020	0.18	<0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT204	Soil			25	0.42	66	0.139	5	1.89	0.017	0.31	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
PC11 KT205	Soil			30	0.37	79	0.159	3	1.50	0.024	0.14	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT206	Soil			37	0.52	89	0.148	3	1.83	0.027	0.22	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 KT207	Soil			36	0.77	62	0.118	3	1.89	0.020	0.28	<0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2
PC11 KT208	Soil			36	0.74	93	0.141	3	1.94	0.029	0.18	<0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
PC11 KT209	Soil			33	0.69	73	0.146	3	1.71	0.042	0.12	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
PC11 KT210	Soil			32	0.53	90	0.141	5	2.06	0.023	0.27	<0.1	<0.01	4.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT181	Soil			23	0.61	118	0.101	7	1.47	0.026	0.26	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT182	Soil			25	0.26	110	0.121	5	1.02	0.022	0.18	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 JT183	Soil			25	0.26	91	0.111	3	1.01	0.022	0.16	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 JT184	Soil			30	0.25	76	0.120	2	0.97	0.024	0.11	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
PC11 JT185	Soil			34	0.45	108	0.127	5	1.53	0.021	0.29	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT186	Soil			31	0.50	102	0.119	3	1.62	0.024	0.19	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT187	Soil			23	0.28	80	0.106	1	0.84	0.020	0.14	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 JT188	Soil			27	0.80	122	0.121	2	1.74	0.054	0.15	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT189	Soil			29	0.66	133	0.089	2	1.87	0.027	0.22	<0.1	0.03	6.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT190	Soil			24	0.57	93	0.174	2	2.87	0.031	0.08	<0.1	0.02	6.9	<0.1	<0.05	8	<0.5	<0.2
PC11 JT191	Soil			23	0.50	102	0.162	2	2.54	0.027	0.08	<0.1	0.03	5.9	<0.1	<0.05	7	<0.5	<0.2
PC11 JT192	Soil			24	0.53	114	0.165	2	2.51	0.033	0.11	<0.1	0.02	6.3	<0.1	<0.05	7	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 JT193	Soil	0.6	17.8	4.4	75	<0.1	12.2	6.5	512	2.15	1.9	<0.5	1.2	63	0.1	0.1	<0.1	50	0.50	0.035	6
PC11 JT194	Soil	0.6	40.5	5.0	57	<0.1	19.0	11.0	453	2.70	2.0	<0.5	2.1	53	<0.1	0.2	<0.1	64	0.48	0.033	9
PC11 JT195	Soil	0.6	28.3	4.2	49	<0.1	15.9	8.8	342	2.47	1.4	<0.5	1.7	47	<0.1	0.1	<0.1	63	0.41	0.023	8
PC11 JT196	Soil	0.5	25.6	4.4	51	<0.1	18.1	9.2	269	2.46	2.0	<0.5	1.7	48	0.1	0.1	<0.1	59	0.50	0.045	9
PC11 JT197	Soil	0.5	92.7	4.3	49	<0.1	23.0	11.7	449	2.99	1.7	0.7	2.2	46	<0.1	0.3	<0.1	78	0.51	0.030	11
PC11 JT198	Soil	0.5	62.1	4.7	64	<0.1	25.5	12.3	627	2.83	1.7	<0.5	2.0	50	0.2	0.2	<0.1	64	0.53	0.035	11
PC11 JT199	Soil	0.6	38.3	4.5	49	<0.1	19.2	10.6	463	2.50	0.9	0.6	1.8	49	<0.1	0.2	<0.1	64	0.46	0.019	11
PC11 JT200	Soil	0.5	22.3	4.4	70	<0.1	14.4	7.8	659	2.19	1.1	<0.5	1.4	42	0.1	0.1	<0.1	60	0.40	0.014	7
PCS-020	Rock Pulp	17.0	70.4	18.0	19	0.2	16.5	2.6	116	3.80	457.0	221.5	0.8	31	0.4	29.0	0.2	8	1.01	0.006	2
PC11 JT201	Soil	0.6	54.7	5.0	45	<0.1	23.8	11.3	439	2.77	2.1	0.9	1.7	53	0.1	0.2	<0.1	69	0.55	0.028	12
PC11 JT202	Soil	1.2	303.3	8.8	65	0.1	18.1	16.6	733	3.58	7.2	11.0	2.2	54	0.1	0.3	0.1	64	0.99	0.075	15
PC11 JT203	Soil	0.4	25.0	14.4	51	<0.1	9.2	7.0	664	2.19	2.6	0.5	2.2	65	<0.1	0.1	0.1	42	0.92	0.036	20
PC11 JT204	Soil	0.4	14.4	4.7	53	<0.1	10.0	5.9	415	2.20	0.9	3.9	1.2	62	<0.1	0.1	<0.1	62	0.41	0.014	9
PC11 JT205	Soil	0.5	24.3	5.1	69	<0.1	14.7	8.4	465	2.86	1.6	<0.5	1.5	59	0.1	0.2	<0.1	72	0.47	0.020	12
PC11 JT206	Soil	0.5	19.5	4.7	69	<0.1	12.1	6.9	352	2.52	1.6	<0.5	1.2	59	0.1	0.2	<0.1	75	0.47	0.032	10
PC11 JT207	Soil	0.6	25.4	5.8	66	<0.1	14.9	8.6	482	2.74	2.2	<0.5	1.5	68	<0.1	0.2	<0.1	69	0.53	0.026	13
PC11 JT208	Soil	0.8	37.8	6.2	68	0.1	13.2	9.0	417	3.19	5.3	5.5	1.2	64	0.1	0.3	<0.1	74	0.64	0.058	14
PC11 JT209	Soil	1.0	48.2	6.8	66	0.1	18.2	12.4	554	3.45	5.2	1.2	1.6	74	0.2	0.3	<0.1	77	0.83	0.055	16
PC11 JT210	Soil	0.5	25.7	5.1	66	<0.1	11.7	8.2	450	2.86	2.3	<0.5	1.3	77	0.1	0.2	<0.1	76	0.61	0.039	12
PC11 JT211	Soil	0.3	29.5	4.8	62	<0.1	14.5	8.4	334	3.10	1.2	<0.5	1.5	85	<0.1	0.2	<0.1	94	0.73	0.024	11
PC11 JT212	Soil	0.6	138.7	5.1	49	0.1	20.3	13.1	511	3.33	2.4	2.3	2.2	77	0.2	0.3	<0.1	92	0.97	0.083	11
PC11 JT213	Soil	0.7	65.1	5.9	66	0.1	22.5	14.6	673	3.59	3.9	1.7	1.8	110	0.2	0.4	<0.1	93	1.72	0.091	15
PC11 JT214	Soil	0.5	48.6	4.3	45	0.2	16.3	11.0	476	2.96	3.9	1.5	1.4	143	0.1	0.3	<0.1	102	3.00	0.089	11
PC11 JT215	Soil	0.4	26.5	5.8	66	<0.1	12.0	8.4	477	2.78	2.0	<0.5	1.5	81	0.1	0.2	<0.1	92	0.78	0.034	9
PC11 JT216	Soil	0.4	27.3	5.4	78	<0.1	16.7	9.6	509	3.12	2.1	<0.5	1.5	108	0.2	0.2	<0.1	97	0.82	0.025	11
PC11 JT217	Soil	0.4	21.0	4.8	75	<0.1	13.4	6.7	411	2.44	1.3	<0.5	1.5	67	0.1	0.2	<0.1	64	0.51	0.019	9
PC11 JT218	Soil	0.5	22.2	5.6	59	<0.1	15.0	7.7	412	2.43	1.4	<0.5	1.7	74	<0.1	0.2	<0.1	76	0.57	0.017	12
PC11 JT219	Soil	0.3	27.3	4.6	70	<0.1	14.6	8.0	299	2.94	1.5	<0.5	1.4	88	<0.1	0.2	<0.1	85	0.64	0.024	9
PC11 JT220	Soil	0.3	40.7	4.8	61	<0.1	16.9	9.5	331	3.40	2.1	<0.5	1.6	164	<0.1	0.2	<0.1	90	0.94	0.031	10
PC11 JT221	Soil	0.4	25.3	6.1	81	0.1	13.0	7.4	593	2.68	1.6	<0.5	1.2	68	0.2	0.2	<0.1	66	1.04	0.053	12

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
	1	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		
PC11 JT193	Soil	21	0.30	118	0.130	4	1.42	0.021	0.14	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 JT194	Soil	27	0.46	170	0.136	3	1.87	0.027	0.17	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 JT195	Soil	27	0.35	120	0.138	2	1.41	0.023	0.12	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT196	Soil	29	0.36	112	0.129	7	1.50	0.020	0.20	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT197	Soil	29	0.48	123	0.126	3	1.66	0.023	0.28	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 JT198	Soil	30	0.44	133	0.131	5	1.61	0.024	0.28	<0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
PC11 JT199	Soil	27	0.35	124	0.137	2	1.44	0.024	0.16	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT200	Soil	22	0.29	135	0.125	2	1.10	0.021	0.14	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PCS-020	Rock Pulp	22	0.03	910	0.011	<1	0.17	0.008	0.06	2.6	2.87	0.6	10.7	0.11	<1	1.5	<0.2
PC11 JT201	Soil	27	0.43	107	0.119	3	1.51	0.024	0.16	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT202	Soil	17	0.64	94	0.053	7	1.86	0.019	0.32	<0.1	0.03	5.7	<0.1	0.10	6	<0.5	<0.2
PC11 JT203	Soil	15	0.40	77	0.027	4	2.08	0.014	0.12	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
PC11 JT204	Soil	23	0.28	85	0.150	2	1.10	0.026	0.16	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PC11 JT205	Soil	29	0.42	94	0.143	3	1.57	0.021	0.25	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT206	Soil	28	0.34	80	0.152	3	1.32	0.022	0.20	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
PC11 JT207	Soil	26	0.42	103	0.136	3	1.60	0.022	0.27	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT208	Soil	25	0.42	89	0.082	5	1.59	0.015	0.28	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT209	Soil	28	0.64	118	0.063	4	1.91	0.016	0.24	<0.1	0.03	7.6	<0.1	<0.05	6	<0.5	<0.2
PC11 JT210	Soil	23	0.43	89	0.164	7	1.54	0.020	0.30	<0.1	0.01	6.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT211	Soil	29	0.49	70	0.228	3	1.99	0.033	0.17	<0.1	<0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT212	Soil	25	0.72	112	0.150	2	2.01	0.030	0.14	<0.1	0.02	6.3	<0.1	<0.05	7	<0.5	<0.2
PC11 JT213	Soil	29	1.03	96	0.139	4	2.20	0.032	0.19	<0.1	0.02	7.8	<0.1	<0.05	8	<0.5	<0.2
PC11 JT214	Soil	22	0.73	67	0.211	2	1.75	0.050	0.08	<0.1	0.04	6.3	<0.1	<0.05	6	<0.5	<0.2
PC11 JT215	Soil	25	0.46	74	0.257	5	1.73	0.027	0.20	<0.1	0.02	7.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT216	Soil	31	0.59	79	0.278	2	2.21	0.030	0.17	<0.1	0.01	9.1	<0.1	<0.05	8	<0.5	<0.2
PC11 JT217	Soil	25	0.38	88	0.180	2	1.60	0.025	0.19	<0.1	0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT218	Soil	30	0.39	96	0.204	2	1.67	0.032	0.16	<0.1	0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT219	Soil	27	0.49	77	0.231	3	2.01	0.029	0.20	<0.1	0.01	7.3	<0.1	<0.05	7	<0.5	<0.2
PC11 JT220	Soil	33	0.64	71	0.237	3	3.18	0.029	0.24	<0.1	0.01	9.3	<0.1	<0.05	10	<0.5	<0.2
PC11 JT221	Soil	24	0.43	89	0.185	4	1.86	0.026	0.23	<0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: November 19, 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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 JT222	Soil			0.4	21.7	5.1	61	<0.1	10.5	7.3	388	2.87	2.0	<0.5	1.3	73	0.2	0.3	0.2	69	0.53	0.025	11
PC11 JT223	Soil			0.5	21.2	4.6	61	<0.1	15.2	8.5	417	2.88	1.2	<0.5	1.5	68	0.1	0.4	0.2	73	0.47	0.017	11
PC11 JT224	Soil			0.4	27.7	4.4	63	<0.1	15.5	10.0	689	3.07	1.4	<0.5	1.4	80	0.2	0.3	0.2	71	0.57	0.027	13
PC11 JT225	Soil			0.4	14.5	4.9	64	<0.1	8.4	5.4	362	2.37	1.0	<0.5	1.2	55	0.1	0.2	0.2	53	0.38	0.022	13
PC11 JT226	Soil			0.6	30.3	5.0	55	<0.1	14.7	9.6	464	3.06	1.0	0.6	1.6	86	0.2	0.3	0.2	78	0.65	0.032	12
PC11 JT227	Soil			6.3	14.0	5.2	72	<0.1	11.0	7.1	564	2.47	3.5	3.5	1.4	68	0.2	0.3	0.2	64	0.50	0.030	11
PC11 JT228	Soil			0.7	24.7	4.8	61	<0.1	14.5	9.6	589	2.82	1.1	0.5	1.6	99	0.2	0.3	0.2	70	0.58	0.022	13
PC11 JT229	Soil			0.4	27.4	4.2	56	<0.1	21.9	15.7	858	3.49	1.2	1.0	1.3	90	0.2	0.2	0.2	77	0.67	0.034	12
PC11 JT230	Soil			0.5	24.3	4.8	64	<0.1	15.0	8.6	559	2.56	1.3	3.0	1.4	93	0.2	0.3	0.2	73	0.56	0.024	11
PC11 JT231	Soil			0.4	16.7	4.5	60	<0.1	14.4	7.4	391	2.56	1.2	<0.5	1.5	68	0.1	0.2	0.2	70	0.49	0.019	10
PC11 JT232	Soil			0.6	19.2	4.6	57	<0.1	16.3	8.3	501	2.52	1.4	<0.5	1.5	80	0.1	0.3	0.2	71	0.54	0.020	11
PC11 JT233	Soil			0.5	30.7	6.8	74	<0.1	11.8	8.8	556	3.41	2.3	<0.5	1.8	146	0.3	0.3	0.2	85	1.01	0.040	12
PC11 JT234	Soil			0.5	50.6	3.6	50	0.2	17.9	9.2	354	3.49	3.6	3.8	1.4	126	0.1	0.3	0.1	101	0.93	0.052	12
PC11 JT235	Soil			0.5	25.9	5.2	96	<0.1	15.5	7.5	522	3.09	2.0	<0.5	1.7	111	0.3	0.2	0.1	67	0.78	0.043	10
PC11 JT236	Soil			0.4	17.8	4.8	78	<0.1	14.5	8.2	512	2.76	1.8	0.8	1.3	80	0.2	0.3	0.1	75	0.62	0.023	10
PC11 JT237	Soil			0.4	21.8	5.0	63	<0.1	20.7	8.9	498	2.52	1.5	2.2	1.7	74	0.2	0.3	0.1	66	0.53	0.015	10
PC11 JT238	Soil			0.5	17.6	4.9	63	<0.1	19.4	8.7	528	2.41	1.7	<0.5	1.5	76	0.1	0.2	0.2	67	0.48	0.013	10
PC11 JT239	Soil			0.5	29.4	5.4	76	<0.1	26.8	10.8	545	2.95	1.6	0.7	1.7	89	0.2	0.3	0.1	68	0.72	0.028	13
PC11 JT240	Soil			0.5	33.3	5.5	75	0.1	17.3	11.2	674	3.03	1.6	0.9	1.4	73	0.2	0.3	0.1	69	0.96	0.035	16
PC11 JT241	Soil			0.3	22.3	4.9	76	<0.1	19.1	8.6	495	2.84	1.5	0.7	1.6	79	0.1	0.2	0.1	68	0.61	0.029	10
PC11 JT242	Soil			0.3	25.6	5.9	71	0.2	16.4	11.6	616	3.40	1.6	<0.5	1.5	97	0.1	0.3	0.1	76	0.86	0.035	12
PC11 JT243	Soil			0.5	21.6	4.6	98	<0.1	19.8	8.6	659	2.54	1.7	35.2	1.7	73	0.2	0.2	0.1	57	0.53	0.023	9
PC11 JT244	Soil			0.6	20.9	5.5	68	<0.1	20.9	10.2	611	2.70	2.1	10.7	1.5	76	0.2	0.3	0.1	70	0.59	0.020	10
PC11 JT245	Soil			0.6	32.5	5.4	77	<0.1	22.5	11.3	714	2.96	2.4	<0.5	1.7	85	0.1	0.4	0.1	74	0.82	0.027	11
PC11 JT246	Soil			0.5	39.7	3.7	67	<0.1	19.8	10.0	430	3.07	2.4	0.5	1.4	97	0.1	0.3	<0.1	75	0.97	0.036	9
PC11 JT247	Soil			0.6	42.7	6.8	75	<0.1	24.1	13.4	1013	3.24	3.1	<0.5	1.3	125	0.2	0.3	<0.1	82	1.06	0.050	9
PC11 JT248	Soil			0.3	45.4	4.6	62	<0.1	19.1	11.0	391	3.94	0.9	<0.5	1.5	105	<0.1	0.2	<0.1	71	0.89	0.043	12
PC11 JT249	Soil			0.4	28.5	5.1	62	<0.1	18.4	10.3	702	2.81	2.8	2.5	1.5	76	0.1	0.2	<0.1	57	0.69	0.027	9
PC11 JT250	Soil			0.6	31.4	5.0	55	<0.1	21.0	11.4	631	2.86	4.8	<0.5	1.6	100	<0.1	0.3	<0.1	64	0.73	0.024	10
PCS-021	Rock Pulp			115.1	3220	23.8	66	2.6	37.6	20.5	438	4.50	54.6	428.3	2.0	35	0.3	3.9	0.4	124	0.35	0.094	11

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 JT222	Soil			25	0.44	80	0.129	5	1.69	0.020	0.27	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT223	Soil			29	0.44	86	0.137	3	1.51	0.028	0.22	<0.1	0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 JT224	Soil			27	0.50	91	0.104	4	1.60	0.019	0.35	<0.1	<0.01	5.2	<0.1	0.06	6	0.6	<0.2
PC11 JT225	Soil			19	0.31	82	0.093	2	1.14	0.029	0.18	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 JT226	Soil			27	0.51	77	0.118	4	1.70	0.020	0.27	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
PC11 JT227	Soil			24	0.32	113	0.130	4	1.28	0.023	0.25	<0.1	0.02	4.0	0.2	<0.05	4	<0.5	<0.2
PC11 JT228	Soil			26	0.52	113	0.113	4	1.70	0.029	0.34	<0.1	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT229	Soil			49	1.14	112	0.062	4	2.11	0.015	0.25	<0.1	<0.01	7.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT230	Soil			25	0.50	101	0.141	3	1.61	0.033	0.27	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT231	Soil			27	0.43	80	0.158	3	1.63	0.027	0.24	<0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 JT232	Soil			29	0.40	104	0.168	3	1.68	0.033	0.17	<0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 JT233	Soil			20	0.61	89	0.279	6	3.13	0.023	0.25	<0.1	0.02	8.1	<0.1	<0.05	12	<0.5	<0.2
PC11 JT234	Soil			33	0.63	70	0.167	3	2.33	0.040	0.12	0.1	0.02	7.0	<0.1	<0.05	7	0.6	<0.2
PC11 JT235	Soil			22	0.51	85	0.216	8	2.51	0.025	0.29	<0.1	0.01	7.7	<0.1	<0.05	8	<0.5	<0.2
PC11 JT236	Soil			26	0.46	100	0.200	4	1.83	0.032	0.11	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
PC11 JT237	Soil			35	0.46	95	0.137	3	1.54	0.026	0.24	<0.1	<0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 JT238	Soil			28	0.45	103	0.151	3	1.66	0.027	0.17	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 JT239	Soil			38	0.63	105	0.129	4	2.09	0.025	0.21	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 JT240	Soil			25	0.69	101	0.093	2	1.98	0.025	0.14	<0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT241	Soil			31	0.46	108	0.142	5	1.85	0.034	0.17	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 JT242	Soil			27	0.85	99	0.196	6	2.33	0.040	0.14	<0.1	0.02	6.6	<0.1	<0.05	7	0.6	<0.2
PC11 JT243	Soil			31	0.49	116	0.125	5	1.87	0.026	0.23	<0.1	<0.01	4.5	<0.1	<0.05	5	0.5	<0.2
PC11 JT244	Soil			32	0.47	122	0.145	4	1.76	0.030	0.14	<0.1	0.02	4.8	<0.1	0.06	5	<0.5	<0.2
PC11 JT245	Soil			39	0.65	106	0.146	5	2.26	0.030	0.21	<0.1	0.02	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 JT246	Soil			33	0.72	68	0.153	5	2.53	0.034	0.11	<0.1	<0.01	6.4	<0.1	<0.05	9	<0.5	<0.2
PC11 JT247	Soil			31	0.92	85	0.151	7	2.60	0.032	0.28	<0.1	0.01	6.8	<0.1	<0.05	8	<0.5	<0.2
PC11 JT248	Soil			28	0.78	72	0.066	4	2.42	0.022	0.26	<0.1	<0.01	7.0	<0.1	<0.05	7	0.8	<0.2
PC11 JT249	Soil			27	0.57	97	0.116	6	1.95	0.024	0.29	<0.1	<0.01	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT250	Soil			29	0.66	101	0.103	5	2.10	0.026	0.22	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
PCS-021	Rock Pulp			53	0.94	49	0.115	2	1.33	0.046	0.94	4.1	0.04	9.6	0.5	2.09	5	6.6	0.7



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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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
PC11 JT251	Soil	0.6	35.6	5.4	63	<0.1	21.0	9.5	533	2.61	6.9	2.0	1.4	94	0.1	0.2	<0.1	58	0.75	0.037	8
PC11 JT252	Soil	0.6	25.4	5.2	71	<0.1	24.9	11.1	794	2.74	2.2	2.3	1.5	71	0.2	0.2	<0.1	63	0.59	0.022	9
PC11 JT253	Soil	0.6	38.0	4.5	58	<0.1	25.0	12.7	675	3.11	4.3	3.4	1.6	102	0.1	0.4	<0.1	76	0.86	0.040	9
PC11 JT254	Soil	1.3	43.9	6.3	63	0.2	22.7	12.1	689	2.93	4.4	4.1	1.5	76	0.2	0.3	<0.1	64	0.98	0.049	14
PC11 JT255	Soil	0.6	58.9	5.2	73	0.2	24.1	12.6	798	2.98	4.6	1.6	1.1	93	0.2	0.3	<0.1	74	1.27	0.103	10



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		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	
PC11 JT251	Soil	30	0.54	86	0.120	4	1.66	0.027	0.16	<0.1	0.02	4.1	<0.1	<0.05	5	0.7	<0.2
PC11 JT252	Soil	33	0.58	129	0.130	3	1.75	0.029	0.19	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
PC11 JT253	Soil	36	0.71	112	0.138	3	2.31	0.033	0.16	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
PC11 JT254	Soil	28	0.75	132	0.110	2	2.23	0.026	0.17	<0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT255	Soil	33	1.00	101	0.132	7	2.46	0.027	0.28	<0.1	0.02	5.3	<0.1	<0.05	7	0.8	<0.2



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QUALITY CONTROL REPORT

VAN11005991.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PC11 KT89	Soil	0.4	12.3	5.0	51	<0.1	8.9	4.4	201	1.79	1.1	1.5	0.9	75	<0.1	<0.1	<0.1	50	0.27	0.024	4
REP PC11 KT89	QC	0.5	12.0	5.2	50	<0.1	8.6	4.4	199	1.76	1.2	0.5	0.9	78	<0.1	0.1	<0.1	49	0.27	0.025	4
PC11 KT104	Soil	0.5	11.9	5.4	68	<0.1	11.7	6.5	628	2.30	1.2	<0.5	1.3	68	0.1	0.1	<0.1	57	0.53	0.028	5
REP PC11 KT104	QC	0.5	12.0	5.4	70	<0.1	11.8	6.3	635	2.32	1.2	0.9	1.2	68	0.1	<0.1	<0.1	56	0.55	0.028	5
PC11 KT117	Soil	0.6	10.3	3.9	56	<0.1	6.4	4.6	508	1.39	0.6	<0.5	0.7	29	<0.1	<0.1	<0.1	39	0.28	0.022	3
REP PC11 KT117	QC	0.5	10.4	3.8	56	<0.1	6.4	4.4	504	1.41	0.6	2.0	0.8	30	0.1	<0.1	<0.1	40	0.28	0.022	3
PC11 KT132	Soil	0.4	15.1	3.9	59	<0.1	10.4	6.6	433	1.88	0.6	<0.5	1.2	32	<0.1	0.1	<0.1	53	0.32	0.016	4
REP PC11 KT132	QC	0.4	15.6	3.7	56	<0.1	10.7	6.7	433	1.87	0.7	<0.5	1.2	32	<0.1	<0.1	<0.1	53	0.32	0.015	4
PC11 KT160	Soil	0.7	16.5	2.4	56	<0.1	12.0	6.5	356	2.21	1.0	53.0	1.0	32	0.1	0.2	<0.1	71	0.39	0.027	4
REP PC11 KT160	QC	0.8	16.4	2.5	59	<0.1	12.8	6.5	366	2.17	0.8	5.5	0.9	32	<0.1	0.1	<0.1	70	0.38	0.027	4
PC11 KT178	Soil	0.9	13.9	5.8	60	<0.1	14.5	7.3	525	2.41	1.8	<0.5	1.5	73	0.2	0.2	0.1	61	0.54	0.021	9
REP PC11 KT178	QC	1.0	13.4	5.7	61	<0.1	14.3	7.4	488	2.32	1.4	0.8	1.5	73	<0.1	0.1	0.1	59	0.53	0.020	9
PC11 KT184	Soil	0.5	24.3	4.7	66	<0.1	25.5	10.2	366	2.91	1.6	0.6	1.6	69	<0.1	0.1	0.1	72	0.61	0.024	8
REP PC11 KT184	QC	0.5	26.6	5.1	70	<0.1	26.5	10.6	372	2.95	1.3	<0.5	1.7	73	<0.1	0.1	0.1	71	0.62	0.026	8
PC11 KT209	Soil	0.6	44.6	4.7	52	0.1	24.3	11.0	467	3.06	3.2	2.6	1.4	109	<0.1	0.2	<0.1	91	2.08	0.068	10
REP PC11 KT209	QC	0.6	44.7	4.7	54	0.1	24.3	10.7	457	2.98	3.6	1.2	1.4	107	0.1	0.3	<0.1	91	2.04	0.072	10
PC11 JT188	Soil	0.5	100.9	3.9	58	0.2	43.0	18.2	506	3.67	1.9	17.8	2.5	67	0.1	0.3	<0.1	76	0.88	0.121	12
REP PC11 JT188	QC	0.6	103.9	4.1	58	0.2	43.6	18.7	524	3.82	1.8	2.2	2.6	68	0.1	0.3	<0.1	75	0.91	0.128	12
PC11 JT211	Soil	0.3	29.5	4.8	62	<0.1	14.5	8.4	334	3.10	1.2	<0.5	1.5	85	<0.1	0.2	<0.1	94	0.73	0.024	11
REP PC11 JT211	QC	0.3	29.4	4.9	60	<0.1	14.2	8.1	332	3.07	1.4	<0.5	1.5	83	<0.1	0.2	<0.1	93	0.73	0.023	11
PC11 JT222	Soil	0.4	21.7	5.1	61	<0.1	10.5	7.3	388	2.87	2.0	<0.5	1.3	73	0.2	0.3	0.2	69	0.53	0.025	11
REP PC11 JT222	QC	0.4	22.8	4.8	63	<0.1	10.3	7.4	406	2.88	1.5	1.5	1.3	73	0.1	0.3	0.2	67	0.57	0.025	11
PC11 JT255	Soil	0.6	58.9	5.2	73	0.2	24.1	12.6	798	2.98	4.6	1.6	1.1	93	0.2	0.3	<0.1	74	1.27	0.103	10
REP PC11 JT255	QC	0.5	59.8	5.1	77	0.2	24.3	12.9	856	3.08	4.5	4.9	1.1	95	0.2	0.3	<0.1	75	1.31	0.109	10
Reference Materials																					
STD DS8	Standard	14.2	115.5	131.6	328	1.9	38.6	8.4	682	2.65	27.1	127.2	7.5	83	2.4	6.8	7.6	43	0.73	0.085	16
STD DS8	Standard	14.3	116.0	128.8	318	1.8	39.8	8.0	656	2.51	25.9	104.2	7.2	71	2.5	5.8	6.6	45	0.71	0.079	16
STD DS8	Standard	12.6	119.9	124.8	313	1.9	38.3	7.6	595	2.47	25.2	103.3	7.0	70	2.6	6.2	7.3	41	0.68	0.085	14

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Project: Princeton
 Report Date: November 19, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005991.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	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																	
PC11 KT89	Soil	17	0.24	92	0.142	1	1.50	0.022	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
REP PC11 KT89	QC	17	0.25	94	0.143	1	1.54	0.020	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PC11 KT104	Soil	22	0.35	99	0.174	2	2.28	0.024	0.06	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
REP PC11 KT104	QC	22	0.35	100	0.178	3	2.24	0.023	0.06	<0.1	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2
PC11 KT117	Soil	14	0.18	134	0.089	2	0.85	0.013	0.08	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
REP PC11 KT117	QC	14	0.18	137	0.093	2	0.91	0.017	0.09	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
PC11 KT132	Soil	21	0.24	135	0.121	3	1.02	0.023	0.16	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
REP PC11 KT132	QC	21	0.24	134	0.122	3	1.02	0.018	0.16	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 KT160	Soil	23	0.19	101	0.111	2	0.88	0.018	0.10	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
REP PC11 KT160	QC	23	0.20	109	0.109	3	0.86	0.018	0.10	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PC11 KT178	Soil	25	0.35	109	0.169	2	2.00	0.018	0.07	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
REP PC11 KT178	QC	23	0.35	118	0.164	2	2.06	0.019	0.07	<0.1	0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 KT184	Soil	39	0.59	107	0.160	3	2.29	0.027	0.07	<0.1	0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
REP PC11 KT184	QC	39	0.59	110	0.161	3	2.42	0.027	0.07	<0.1	<0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 KT209	Soil	33	0.69	73	0.146	3	1.71	0.042	0.12	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
REP PC11 KT209	QC	33	0.69	75	0.152	3	1.72	0.045	0.12	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
PC11 JT188	Soil	27	0.80	122	0.121	2	1.74	0.054	0.15	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
REP PC11 JT188	QC	27	0.83	129	0.121	4	1.85	0.055	0.16	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 JT211	Soil	29	0.49	70	0.228	3	1.99	0.033	0.17	<0.1	<0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
REP PC11 JT211	QC	29	0.48	70	0.230	3	2.06	0.033	0.16	<0.1	<0.01	7.8	<0.1	<0.05	6	<0.5	<0.2
PC11 JT222	Soil	25	0.44	80	0.129	5	1.69	0.020	0.27	<0.1	0.01	5.4	<0.1	<0.05	6	<0.5	<0.2
REP PC11 JT222	QC	23	0.46	83	0.137	3	1.69	0.019	0.29	<0.1	<0.01	5.5	<0.1	0.06	6	<0.5	<0.2
PC11 JT255	Soil	33	1.00	101	0.132	7	2.46	0.027	0.28	<0.1	0.02	5.3	<0.1	<0.05	7	0.8	<0.2
REP PC11 JT255	QC	33	1.03	99	0.132	8	2.64	0.027	0.28	<0.1	0.02	5.3	<0.1	0.05	7	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	122	0.68	300	0.132	4	1.01	0.101	0.47	3.4	0.18	2.7	5.6	0.18	5	5.4	5.0
STD DS8	Standard	126	0.61	280	0.127	3	0.97	0.089	0.40	3.0	0.19	2.2	5.3	0.12	5	5.1	5.2
STD DS8	Standard	116	0.59	267	0.121	3	0.89	0.091	0.41	3.0	0.20	2.4	5.5	0.12	5	4.7	5.1

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Report Date: November 19, 2011

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QUALITY CONTROL REPORT

VAN11005991.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS8	Standard	12.9	119.7	124.9	308	1.9	39.0	7.5	598	2.49	25.1	116.4	7.5	70	2.5	6.1	7.1	44	0.69	0.077	17
STD DS8	Standard	14.1	115.1	129.2	299	1.7	42.3	8.3	614	2.43	23.8	103.9	7.2	64	2.5	5.5	6.7	46	0.68	0.075	16
STD DS8	Standard	14.4	116.3	132.2	313	1.8	39.8	8.1	616	2.50	26.3	108.1	7.8	67	2.5	5.6	6.8	45	0.67	0.077	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Report Date: November 19, 2011

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QUALITY CONTROL REPORT

VAN11005991.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	119	0.62	285	0.130	2	0.93	0.102	0.39	3.0	0.21	2.6	5.4	0.15	5	4.9	4.5
STD DS8	Standard	124	0.59	271	0.129	2	0.90	0.088	0.37	3.0	0.20	2.3	5.5	0.16	5	5.4	5.1
STD DS8	Standard	120	0.61	296	0.123	3	0.92	0.093	0.41	2.9	0.20	2.5	5.6	0.16	5	5.0	4.6
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 26, 2011
Report Date: November 19, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

VAN11005992.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 174

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Mill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	174	Dry at 60C			VAN
SS80	170	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	174	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

VAN11005992.1

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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
PC11 RP01	Soil	0.2	31.1	4.7	69	0.1	25.3	10.5	507	2.83	1.9	1.0	1.3	57	<0.1	0.2	<0.1	70	0.65	0.021	9
PC11 RP02	Soil	0.2	19.8	5.1	68	<0.1	22.6	8.6	429	2.44	2.0	1.6	1.4	53	0.1	0.1	<0.1	58	0.53	0.022	10
PC11 RP03	Soil	0.4	14.6	4.0	60	<0.1	13.0	5.4	293	1.91	1.1	1.1	1.2	45	<0.1	0.2	<0.1	55	0.39	0.011	6
PC11 RP04	Soil	0.3	16.5	3.8	63	<0.1	13.7	7.7	458	2.43	1.5	0.8	1.3	51	<0.1	0.1	<0.1	61	0.54	0.023	7
PC11 RP05	Soil	0.4	20.8	4.4	87	<0.1	17.8	9.3	692	2.55	1.9	1.4	1.3	67	0.1	0.2	<0.1	69	0.60	0.022	9
PC11 RP06	Soil	0.3	20.0	3.5	68	<0.1	18.6	10.0	501	3.00	1.3	0.5	1.5	49	<0.1	0.2	<0.1	88	0.52	0.017	9
PC11 RP07	Soil	0.4	18.2	3.8	90	<0.1	14.5	9.1	630	2.75	1.4	2.2	1.1	50	0.1	0.1	<0.1	74	0.53	0.026	9
PC11 RP08	Soil	0.4	21.7	4.4	74	<0.1	17.5	8.9	632	2.81	1.7	1.1	1.3	75	0.1	0.1	<0.1	82	0.72	0.026	9
PC11 RP09	Soil	0.4	31.4	4.1	64	<0.1	20.2	9.8	356	3.14	3.3	<0.5	1.4	82	0.1	0.2	<0.1	89	0.88	0.043	10
PC11 RP10	Soil	0.4	16.0	4.6	77	<0.1	14.5	5.9	519	2.23	1.8	0.9	1.1	55	0.1	0.1	<0.1	55	0.52	0.026	8
PC11 RP11	Soil	0.4	15.0	3.8	64	<0.1	12.3	6.1	321	2.17	1.6	0.9	1.1	50	<0.1	0.1	<0.1	55	0.39	0.022	6
PC11 RP12	Soil	0.4	22.6	4.1	49	<0.1	15.0	7.1	396	2.43	2.3	8.9	1.3	78	<0.1	0.1	<0.1	60	0.55	0.040	9
PC11 RP13	Soil	0.4	15.0	4.0	74	<0.1	12.6	6.3	645	2.05	1.6	<0.5	1.2	48	0.2	0.1	<0.1	55	0.40	0.018	7
PC11 RP14	Soil	0.6	14.1	4.8	143	<0.1	12.7	5.6	850	2.00	2.1	<0.5	1.2	48	0.2	0.1	<0.1	48	0.45	0.020	6
PC11 RP15	Soil	0.4	13.9	3.7	48	<0.1	12.1	6.4	375	2.24	1.8	0.8	1.2	67	<0.1	0.1	<0.1	68	0.43	0.019	8
PC11 RP181	Soil	0.4	16.5	3.4	43	<0.1	15.3	8.0	357	2.20	1.7	1.3	0.9	41	<0.1	<0.1	<0.1	56	0.47	0.018	4
PC11 RP182	Soil	0.5	17.0	3.9	43	<0.1	17.1	8.0	360	2.63	1.7	1.3	1.2	43	<0.1	0.1	<0.1	61	0.48	0.019	5
PC11 RP183	Soil	0.3	16.8	4.9	70	<0.1	15.6	6.8	531	2.22	1.6	11.0	1.2	63	0.1	<0.1	<0.1	44	0.67	0.044	6
PC11 RP184	Soil	0.8	17.5	4.0	79	<0.1	14.6	7.4	906	1.94	3.8	<0.5	0.9	62	0.1	0.1	<0.1	42	0.68	0.052	5
PC11 RP185	Soil	0.4	22.6	4.6	58	<0.1	17.1	9.2	644	2.71	2.6	0.7	1.4	67	<0.1	0.1	<0.1	65	0.83	0.028	9
PC11 RP186	Soil	0.4	33.9	4.7	55	<0.1	19.4	10.7	489	3.18	3.3	<0.5	1.4	114	0.2	0.2	<0.1	72	1.13	0.038	11
PC11 RP187	Soil	0.3	11.2	4.0	55	<0.1	7.8	5.2	358	2.02	0.9	<0.5	1.2	86	<0.1	<0.1	<0.1	64	0.41	0.021	6
PC11 RP188	Soil	0.4	11.5	4.7	47	<0.1	9.2	5.6	185	2.14	1.0	2.0	1.0	79	<0.1	<0.1	<0.1	63	0.42	0.027	4
PC11 RP189	Soil	0.4	17.6	4.8	50	<0.1	11.9	6.7	323	2.65	2.1	0.7	1.6	65	<0.1	0.1	<0.1	70	0.48	0.031	10
PC11 RP190	Soil	0.3	6.4	3.6	69	<0.1	2.6	6.5	554	2.83	1.9	0.7	1.2	153	<0.1	<0.1	<0.1	67	0.50	0.055	14
PC11 RP191	Soil	0.5	15.4	3.6	49	<0.1	10.0	6.2	388	2.13	1.6	0.6	1.0	56	0.1	<0.1	<0.1	52	0.72	0.029	11
PC11 RP192	Soil	0.2	15.0	4.0	29	0.2	6.5	7.9	456	2.23	2.8	2.0	1.0	111	0.1	<0.1	<0.1	48	7.68	0.040	13
PC11 RP193	Soil	0.3	12.9	4.3	64	<0.1	9.7	5.4	451	1.94	1.2	<0.5	1.2	58	<0.1	<0.1	<0.1	53	0.46	0.014	8
PC11 RP194	Soil	0.4	10.1	5.2	56	<0.1	10.1	4.9	367	1.89	1.6	<0.5	1.7	48	<0.1	<0.1	<0.1	47	0.44	0.012	12
PC11 RP195	Soil	0.3	17.8	4.4	62	<0.1	12.0	6.2	358	2.58	1.3	<0.5	1.4	94	0.1	<0.1	<0.1	67	0.54	0.022	10

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		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	
MDL		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	
PC11 RP01	Soil	37	0.60	96	0.086	2	1.86	0.019	0.14	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 RP02	Soil	33	0.48	94	0.099	3	1.79	0.029	0.14	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
PC11 RP03	Soil	26	0.27	73	0.109	2	1.26	0.020	0.13	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 RP04	Soil	22	0.39	80	0.108	2	2.11	0.030	0.09	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 RP05	Soil	32	0.50	102	0.099	4	1.68	0.018	0.21	<0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP06	Soil	38	0.52	84	0.129	3	1.84	0.019	0.18	<0.1	0.01	6.5	<0.1	<0.05	5	<0.5	<0.2
PC11 RP07	Soil	33	0.38	97	0.107	3	1.62	0.019	0.15	<0.1	0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP08	Soil	32	0.52	101	0.146	3	2.26	0.038	0.15	<0.1	0.02	6.6	<0.1	<0.05	6	<0.5	<0.2
PC11 RP09	Soil	33	0.58	91	0.150	3	2.85	0.025	0.16	<0.1	<0.01	7.5	<0.1	<0.05	7	<0.5	<0.2
PC11 RP10	Soil	26	0.30	98	0.105	3	1.62	0.018	0.10	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
PC11 RP11	Soil	25	0.29	79	0.098	3	1.40	0.018	0.14	<0.1	0.01	4.0	<0.1	<0.05	5	0.5	<0.2
PC11 RP12	Soil	24	0.36	89	0.096	4	1.73	0.018	0.16	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 RP13	Soil	25	0.27	92	0.100	3	1.20	0.017	0.17	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 RP14	Soil	24	0.26	131	0.097	3	1.25	0.016	0.16	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 RP15	Soil	24	0.28	94	0.110	2	1.25	0.017	0.13	<0.1	<0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 RP181	Soil	25	0.35	112	0.097	4	1.47	0.018	0.12	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP182	Soil	30	0.37	93	0.103	5	1.78	0.021	0.16	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PC11 RP183	Soil	22	0.38	136	0.097	8	2.42	0.022	0.14	<0.1	0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP184	Soil	20	0.35	141	0.077	5	1.60	0.013	0.14	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PC11 RP185	Soil	25	0.54	96	0.107	2	2.63	0.019	0.08	<0.1	0.02	5.5	<0.1	<0.05	8	<0.5	<0.2
PC11 RP186	Soil	30	0.70	91	0.132	4	3.44	0.027	0.14	<0.1	0.02	7.2	<0.1	<0.05	10	<0.5	<0.2
PC11 RP187	Soil	19	0.20	128	0.146	2	1.36	0.018	0.17	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 RP188	Soil	19	0.25	104	0.137	<1	1.65	0.016	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
PC11 RP189	Soil	24	0.30	84	0.131	1	2.29	0.020	0.08	<0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
PC11 RP190	Soil	5	0.23	92	0.024	<1	1.36	0.021	0.09	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 RP191	Soil	14	0.31	72	0.047	3	2.07	0.017	0.08	<0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP192	Soil	7	0.42	46	0.005	6	2.78	0.014	0.13	<0.1	0.05	4.8	<0.1	0.06	8	<0.5	<0.2
PC11 RP193	Soil	18	0.22	85	0.105	1	1.48	0.017	0.09	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP194	Soil	19	0.17	89	0.092	2	1.11	0.015	0.09	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PC11 RP195	Soil	23	0.30	82	0.116	3	1.71	0.018	0.19	<0.1	0.01	5.8	<0.1	<0.05	6	<0.5	<0.2

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 Report Date: November 19, 2011

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 RP196	Soil	0.3	17.8	7.5	54	<0.1	11.8	6.4	513	2.33	1.1	<0.5	1.4	78	0.3	0.1	<0.1	63	0.49	0.017	11
PC11 RP197	Soil	0.2	55.4	6.2	56	0.2	12.6	10.5	415	3.84	2.9	1.6	1.6	125	0.2	0.2	<0.1	109	1.10	0.039	11
PC11 RP198	Soil	0.1	48.9	4.1	55	<0.1	9.6	10.2	420	3.86	2.6	4.5	1.2	176	0.1	0.2	<0.1	128	1.45	0.042	8
PC11 RP199	Soil	0.2	40.9	3.5	50	<0.1	13.7	8.7	438	3.14	1.6	3.2	1.2	90	<0.1	0.2	<0.1	82	0.92	0.031	11
PC11 RP200	Soil	0.2	36.5	5.0	50	0.1	12.2	7.5	344	3.15	2.7	2.6	1.1	104	0.2	0.2	<0.1	85	0.85	0.043	10
PCS-019	Rock Pulp	99.5	3660	22.0	58	2.5	31.2	16.7	371	3.95	51.4	440.5	1.6	24	0.5	3.2	0.4	111	0.30	0.085	9
PC11 RP201	Soil	0.5	43.4	5.1	61	0.1	15.8	11.5	508	3.31	2.4	3.2	1.4	92	0.1	0.2	<0.1	97	1.32	0.031	11
PC11 RP202	Soil	0.4	54.4	4.2	79	<0.1	21.2	15.5	566	4.14	3.6	1.0	1.3	93	0.1	0.2	<0.1	129	2.05	0.050	10
PC11 RP203	Soil	0.7	54.2	6.4	74	0.3	18.1	14.2	708	3.96	2.8	1.7	1.5	138	0.1	0.3	<0.1	113	1.53	0.042	13
PC11 RP204	Soil	0.3	53.7	4.7	56	0.1	19.1	11.9	390	4.15	2.6	<0.5	1.5	102	0.1	0.3	<0.1	112	1.32	0.056	11
PC11 RP205	Soil	0.3	62.9	5.1	65	0.1	18.1	12.5	466	4.30	3.9	3.8	1.5	193	<0.1	0.3	<0.1	112	1.46	0.060	10
PC11 RP206	Soil	0.3	28.7	4.8	46	<0.1	13.0	7.9	264	2.93	3.3	1.0	1.5	117	0.1	0.2	<0.1	80	0.83	0.027	11
PC11 RP207	Soil	0.3	35.4	5.1	74	<0.1	16.8	12.1	545	3.42	5.2	<0.5	1.2	126	0.1	0.2	<0.1	109	0.92	0.032	10
PC11 RP208	Soil	0.2	52.7	6.1	69	0.1	18.1	17.0	640	4.75	4.0	3.8	1.6	111	<0.1	0.3	<0.1	108	1.60	0.081	12
PC11 RP209	Soil	0.3	37.4	6.4	73	<0.1	14.1	12.5	679	3.96	3.5	1.0	1.6	105	0.2	0.3	<0.1	113	1.25	0.026	12
PC11 RP210	Soil	0.4	33.4	5.4	74	<0.1	17.9	14.1	954	3.59	2.7	<0.5	1.4	98	0.1	0.2	<0.1	115	1.05	0.022	11
PC11 RP211	Soil	0.4	62.5	4.8	63	<0.1	24.6	13.0	487	3.82	4.3	1.4	1.6	86	<0.1	0.2	<0.1	89	0.88	0.038	11
PC11 RP212	Soil	0.4	64.0	4.6	69	<0.1	20.6	16.1	661	3.83	2.5	2.3	1.1	251	0.1	0.2	<0.1	118	1.55	0.026	7
PC11 RP213	Soil	0.4	66.1	5.3	65	<0.1	20.5	16.7	578	4.06	3.7	1.4	1.0	142	0.2	0.2	<0.1	141	1.43	0.026	7
PC11 RP214	Soil	0.4	44.9	7.2	62	<0.1	19.8	13.6	430	3.68	2.4	1.9	1.2	102	0.2	0.2	<0.1	99	0.88	0.025	9
PC11 RP215	Soil	0.3	58.1	4.2	71	<0.1	15.0	14.1	652	3.97	4.4	5.0	1.2	102	0.2	0.3	<0.1	84	1.37	0.028	7
PC11 RP216	Soil	0.4	62.8	4.8	72	0.1	19.0	15.1	719	3.76	3.5	2.3	1.3	111	0.2	0.3	<0.1	83	1.13	0.032	7
PC11 RP217	Soil	0.3	70.5	2.6	74	<0.1	17.5	15.7	625	3.67	2.5	2.7	1.0	127	0.1	0.2	<0.1	96	1.56	0.043	6
PC11 RP218	Soil	0.5	48.5	4.2	66	<0.1	18.0	13.3	596	3.21	2.2	40.6	1.2	78	0.1	0.3	<0.1	87	0.86	0.021	9
PC11 RP219	Soil	0.5	56.0	4.4	57	<0.1	18.8	15.4	761	3.31	3.7	1.9	1.1	173	0.1	0.2	<0.1	101	1.62	0.036	8
PC11 RP220	Soil	0.5	83.0	3.0	70	<0.1	18.8	20.7	722	4.64	5.1	2.9	0.9	551	0.1	0.2	<0.1	108	2.17	0.042	5
PC11 RP221	Soil	0.6	38.8	4.7	56	<0.1	19.9	10.9	496	2.87	1.7	<0.5	1.5	77	0.1	0.2	<0.1	81	0.63	0.024	9
PC11 RP222	Soil	0.6	43.6	4.2	60	<0.1	30.8	12.6	493	3.28	3.7	1.6	1.6	73	0.1	0.3	<0.1	94	0.72	0.047	9
PC11 RP223	Soil	0.8	51.8	5.7	65	0.1	27.4	18.0	925	3.83	5.1	10.6	1.3	171	0.2	0.3	<0.1	115	1.15	0.068	8
PC11 RP224	Soil	0.7	46.2	4.7	64	<0.1	30.7	12.3	517	2.98	3.9	3.0	1.4	85	0.2	0.3	<0.1	80	0.83	0.060	8

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		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	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	
PC11 RP196	Soil	22	0.28	84	0.128	3	1.43	0.017	0.22	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 RP197	Soil	18	0.85	79	0.220	3	2.95	0.019	0.17	<0.1	0.02	10.2	<0.1	<0.05	10	<0.5	<0.2
PC11 RP198	Soil	16	0.91	49	0.262	3	3.14	0.023	0.18	<0.1	<0.01	11.7	<0.1	<0.05	11	<0.5	<0.2
PC11 RP199	Soil	23	0.65	74	0.126	2	2.28	0.025	0.16	<0.1	0.02	7.6	<0.1	<0.05	8	<0.5	<0.2
PC11 RP200	Soil	24	0.53	74	0.155	2	2.20	0.026	0.13	<0.1	0.03	7.6	<0.1	<0.05	8	<0.5	<0.2
PCS-019	Rock Pulp	45	0.80	45	0.081	1	1.17	0.029	0.89	3.8	0.06	9.3	0.5	1.56	5	6.7	0.7
PC11 RP201	Soil	29	0.78	70	0.249	5	2.98	0.045	0.13	<0.1	0.04	9.3	<0.1	<0.05	10	<0.5	<0.2
PC11 RP202	Soil	30	1.41	49	0.364	7	4.13	0.020	0.22	<0.1	0.02	14.8	<0.1	<0.05	14	<0.5	<0.2
PC11 RP203	Soil	28	1.01	60	0.287	5	3.34	0.028	0.21	<0.1	0.04	11.3	<0.1	<0.05	11	<0.5	<0.2
PC11 RP204	Soil	38	0.99	48	0.254	6	3.36	0.020	0.25	<0.1	0.02	12.5	<0.1	<0.05	13	<0.5	<0.2
PC11 RP205	Soil	34	1.14	59	0.266	4	3.74	0.031	0.18	<0.1	0.02	11.8	<0.1	<0.05	13	<0.5	<0.2
PC11 RP206	Soil	27	0.52	53	0.284	3	2.17	0.030	0.11	<0.1	0.02	9.3	<0.1	<0.05	8	<0.5	<0.2
PC11 RP207	Soil	27	0.95	60	0.343	3	2.43	0.024	0.24	<0.1	0.02	11.5	<0.1	<0.05	10	<0.5	<0.2
PC11 RP208	Soil	29	1.34	55	0.141	3	3.93	0.021	0.16	<0.1	0.02	12.8	<0.1	<0.05	12	<0.5	<0.2
PC11 RP209	Soil	25	0.89	63	0.324	2	2.88	0.020	0.19	<0.1	0.02	11.2	<0.1	<0.05	10	<0.5	<0.2
PC11 RP210	Soil	34	0.81	69	0.296	3	2.51	0.026	0.22	<0.1	0.02	9.9	<0.1	<0.05	8	<0.5	<0.2
PC11 RP211	Soil	42	0.89	85	0.161	5	3.04	0.036	0.22	<0.1	0.03	10.1	<0.1	<0.05	8	<0.5	<0.2
PC11 RP212	Soil	43	1.45	73	0.240	4	4.00	0.040	0.19	<0.1	0.02	10.8	<0.1	<0.05	11	<0.5	<0.2
PC11 RP213	Soil	47	1.65	71	0.240	6	4.02	0.025	0.21	<0.1	0.02	11.6	<0.1	<0.05	11	<0.5	<0.2
PC11 RP214	Soil	39	1.04	66	0.241	6	2.94	0.029	0.27	<0.1	0.02	9.6	<0.1	<0.05	9	<0.5	<0.2
PC11 RP215	Soil	25	0.84	68	0.236	3	2.89	0.035	0.17	<0.1	0.01	8.5	<0.1	<0.05	8	<0.5	<0.2
PC11 RP216	Soil	25	1.05	78	0.225	4	3.05	0.030	0.24	<0.1	0.02	7.7	<0.1	<0.05	8	<0.5	<0.2
PC11 RP217	Soil	21	1.12	67	0.235	6	3.53	0.020	0.30	<0.1	<0.01	8.0	<0.1	<0.05	9	<0.5	<0.2
PC11 RP218	Soil	27	0.74	77	0.228	5	2.44	0.028	0.26	<0.1	0.02	7.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP219	Soil	28	1.04	68	0.148	2	3.40	0.033	0.21	<0.1	0.02	6.8	<0.1	<0.05	9	<0.5	<0.2
PC11 RP220	Soil	20	1.88	49	0.119	11	5.12	0.036	0.39	<0.1	0.01	7.4	<0.1	<0.05	12	<0.5	<0.2
PC11 RP221	Soil	31	0.58	71	0.159	7	1.61	0.034	0.33	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP222	Soil	43	0.70	96	0.143	3	1.81	0.029	0.16	<0.1	0.02	6.1	<0.1	<0.05	6	<0.5	<0.2
PC11 RP223	Soil	40	0.92	72	0.145	3	2.43	0.030	0.16	<0.1	0.02	6.4	<0.1	<0.05	7	<0.5	<0.2
PC11 RP224	Soil	37	0.88	82	0.128	5	1.82	0.028	0.22	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2



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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm
PC11 RP225	Soil	0.4	22.1	4.8	70	<0.1	16.4	8.6	474	2.75	2.0	<0.5	1.6	84	<0.1	0.2	<0.1	74	0.56	0.035	10
PC11 RP226	Soil	0.3	24.5	5.7	71	<0.1	16.1	7.8	411	2.60	0.9	0.6	1.5	82	0.1	0.1	<0.1	74	0.52	0.022	11
PC11 RP227	Soil	0.4	20.2	4.1	64	<0.1	15.0	7.8	391	2.53	0.9	<0.5	1.4	64	<0.1	0.2	<0.1	75	0.49	0.020	9
PC11 RP228	Soil	0.4	19.2	4.5	60	<0.1	14.6	7.3	379	2.39	1.1	<0.5	1.4	61	0.1	0.2	<0.1	68	0.52	0.017	9
PC11 RP229	Soil	0.5	23.4	4.7	65	<0.1	14.1	7.8	446	2.63	1.8	<0.5	1.3	73	<0.1	0.2	<0.1	79	0.63	0.021	11
PC11 RP230	Soil	0.4	19.7	5.0	60	<0.1	15.0	7.7	356	2.54	2.0	<0.5	1.4	62	0.1	0.2	<0.1	77	0.52	0.017	10
PC11 RP231	Soil	0.4	19.9	4.5	69	<0.1	15.5	7.5	425	2.50	1.8	<0.5	1.5	64	<0.1	0.2	<0.1	66	0.52	0.023	9
PC11 RP232	Soil	0.4	17.6	4.4	53	<0.1	13.1	7.3	330	2.43	1.3	<0.5	1.5	74	<0.1	0.2	<0.1	71	0.52	0.024	10
PC11 RP233	Soil	0.4	27.8	4.6	63	<0.1	17.3	8.9	440	2.73	1.8	<0.5	1.5	67	<0.1	0.2	<0.1	73	0.59	0.025	10
PC11 RP234	Soil	0.4	25.0	4.2	66	<0.1	16.7	8.7	473	2.80	1.6	<0.5	1.4	64	<0.1	0.2	<0.1	74	0.58	0.017	10
PC11 RP235	Soil	0.4	25.3	5.5	79	<0.1	15.9	8.8	473	2.85	2.3	<0.5	1.5	79	<0.1	0.2	<0.1	73	0.70	0.045	12
PC11 RP236	Soil	0.4	28.5	4.6	77	<0.1	17.7	8.8	446	2.81	2.0	<0.5	1.6	80	0.1	0.2	<0.1	70	0.68	0.047	11
PC11 RP237	Soil	0.4	21.0	4.6	57	<0.1	15.5	8.7	486	2.69	1.1	0.6	1.4	63	<0.1	0.2	<0.1	74	0.51	0.020	9
PC11 RP238	Soil	0.4	44.2	5.3	44	<0.1	19.7	9.9	466	2.68	1.3	1.1	1.8	104	<0.1	0.2	<0.1	68	0.80	0.052	10
PC11 RP239	Soil	0.5	31.2	4.9	42	<0.1	17.8	9.5	473	2.42	1.2	1.9	1.6	89	<0.1	0.2	<0.1	64	0.53	0.019	10
PC11 RP240	Soil	0.5	17.1	4.8	40	<0.1	15.0	7.3	373	2.02	0.8	<0.5	1.5	77	<0.1	0.1	<0.1	55	0.41	0.014	9
PC11 RP241	Soil	0.4	22.4	4.8	53	<0.1	14.7	8.0	429	2.40	1.4	<0.5	1.2	65	<0.1	0.2	<0.1	59	0.55	0.024	9
PC11 RP242	Soil	2.2	32.5	6.3	59	0.1	17.2	13.1	598	2.97	3.7	1.9	0.9	93	<0.1	0.2	<0.1	74	1.37	0.027	8
PC11 RP243	Soil	0.4	26.1	4.7	53	<0.1	17.2	8.3	489	2.62	2.0	<0.5	1.3	56	0.1	0.2	<0.1	86	0.53	0.020	9
PC11 RP244	Soil	0.8	22.4	5.9	64	<0.1	19.9	9.6	807	2.67	2.5	1.7	1.4	63	0.1	0.2	<0.1	77	0.59	0.023	10
PC11 RP245	Soil	0.8	24.5	7.9	83	0.1	18.7	8.5	847	2.47	3.0	29.9	1.3	70	0.2	0.3	<0.1	59	0.95	0.085	11
PC11 RP246	Soil	0.5	28.3	8.6	71	<0.1	20.5	8.0	573	2.43	3.0	3.4	1.7	72	0.2	0.2	0.1	49	0.73	0.032	10
PC11 RP247	Soil	0.6	38.8	6.1	63	0.1	25.6	13.3	815	3.00	4.4	3.2	1.2	108	0.2	0.3	<0.1	79	1.31	0.040	8
PC11 RP248	Soil	0.5	47.5	5.1	78	<0.1	24.2	15.6	937	3.34	3.1	0.7	1.1	114	0.2	0.2	<0.1	87	1.39	0.046	7
PC11 RP249	Soil	0.8	36.4	9.4	82	0.1	19.9	11.9	1093	2.84	19.6	4.0	1.2	93	0.2	0.3	<0.1	70	1.06	0.061	8
PC11 RP250	Soil	0.4	47.8	5.3	73	<0.1	26.7	14.3	703	3.24	5.5	2.7	1.1	81	0.2	0.3	<0.1	78	0.97	0.031	8
PCS-026	Rock Pulp	16.6	63.5	16.8	18	0.2	17.4	2.5	111	3.62	453.0	217.2	0.8	30	0.5	28.0	0.2	10	0.97	0.005	2
PC11 RP251	Soil	0.5	51.4	4.2	55	<0.1	21.4	11.6	522	3.20	2.4	2.3	1.5	100	<0.1	0.2	<0.1	102	0.83	0.023	10
PC11 RP252	Soil	0.6	32.0	4.4	67	<0.1	21.0	10.8	537	2.92	2.4	1.0	1.5	65	0.2	0.2	<0.1	79	0.60	0.027	9
PC11 RP253	Soil	0.6	35.7	4.2	62	<0.1	27.3	10.9	485	2.99	3.0	1.9	1.5	70	0.2	0.3	<0.1	79	0.68	0.025	8

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 RP225	Soil			31	0.43	96	0.194	5	1.97	0.026	0.25	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
PC11 RP226	Soil			31	0.35	85	0.190	3	1.64	0.029	0.24	<0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
PC11 RP227	Soil			30	0.35	74	0.196	3	1.57	0.028	0.25	<0.1	<0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
PC11 RP228	Soil			29	0.33	76	0.191	3	1.58	0.029	0.24	<0.1	<0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
PC11 RP229	Soil			30	0.34	84	0.225	2	1.63	0.028	0.22	<0.1	0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
PC11 RP230	Soil			29	0.35	78	0.218	3	1.56	0.031	0.17	<0.1	0.01	5.6	<0.1	<0.05	5	<0.5	<0.2
PC11 RP231	Soil			28	0.36	90	0.186	2	1.69	0.024	0.20	<0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP232	Soil			25	0.33	78	0.200	3	1.35	0.024	0.18	<0.1	<0.01	5.2	<0.1	<0.05	4	<0.5	<0.2
PC11 RP233	Soil			29	0.40	88	0.172	4	1.73	0.027	0.22	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP234	Soil			30	0.42	84	0.166	2	1.75	0.025	0.17	<0.1	0.01	5.9	<0.1	<0.05	5	<0.5	<0.2
PC11 RP235	Soil			24	0.47	116	0.209	7	2.27	0.031	0.30	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
PC11 RP236	Soil			29	0.54	103	0.155	7	1.95	0.025	0.30	<0.1	<0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
PC11 RP237	Soil			29	0.43	78	0.161	4	1.61	0.024	0.25	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP238	Soil			25	0.55	99	0.112	2	1.75	0.058	0.14	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
PC11 RP239	Soil			26	0.41	93	0.109	2	1.47	0.037	0.16	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PC11 RP240	Soil			25	0.32	92	0.127	4	1.18	0.030	0.20	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PC11 RP241	Soil			26	0.42	81	0.145	5	1.47	0.022	0.23	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PC11 RP242	Soil			25	0.64	82	0.270	3	2.77	0.021	0.27	0.1	0.01	4.9	<0.1	<0.05	7	<0.5	<0.2
PC11 RP243	Soil			32	0.38	63	0.147	2	1.35	0.030	0.15	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PC11 RP244	Soil			32	0.44	91	0.144	4	1.63	0.027	0.22	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 RP245	Soil			27	0.46	107	0.114	10	1.71	0.021	0.39	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 RP246	Soil			27	0.42	119	0.129	5	2.05	0.022	0.23	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
PC11 RP247	Soil			39	0.79	91	0.179	2	3.05	0.024	0.22	<0.1	0.02	5.8	<0.1	<0.05	8	<0.5	<0.2
PC11 RP248	Soil			41	1.12	83	0.168	4	3.07	0.020	0.32	<0.1	0.02	6.3	<0.1	<0.05	9	<0.5	<0.2
PC11 RP249	Soil			30	0.65	87	0.186	4	2.22	0.018	0.34	0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
PC11 RP250	Soil			38	0.93	78	0.211	4	2.53	0.023	0.27	<0.1	0.01	5.7	<0.1	<0.05	8	<0.5	<0.2
PCS-026	Rock Pulp			22	0.02	1173	0.010	1	0.17	0.007	0.07	2.7	2.81	0.6	10.5	0.14	<1	2.2	<0.2
PC11 RP251	Soil			37	0.67	73	0.179	2	2.36	0.053	0.20	<0.1	0.02	7.0	<0.1	<0.05	7	<0.5	<0.2
PC11 RP252	Soil			35	0.56	85	0.165	4	2.03	0.034	0.29	<0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
PC11 RP253	Soil			43	0.63	89	0.148	3	1.94	0.027	0.20	<0.1	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PC11 RP254	Soil	1.8	46.2	6.0	68	0.1	38.4	16.0	633	3.21	6.6	1.2	1.2	89	0.2	0.2	<0.1	91	1.16	0.050	7
PC11 MP51	Soil	0.6	13.4	4.3	54	<0.1	7.5	5.2	302	1.85	1.6	<0.5	1.4	98	<0.1	<0.1	<0.1	54	0.44	0.021	7
PC11 MP52	Soil	0.6	19.9	5.7	74	<0.1	9.8	7.5	654	2.31	3.1	<0.5	1.6	121	<0.1	0.1	<0.1	66	0.61	0.035	10
PC11 MP53	Soil	0.5	12.1	5.0	50	<0.1	8.4	6.1	594	2.02	1.5	<0.5	1.4	114	<0.1	0.1	<0.1	68	0.44	0.016	8
PC11 MP54	Soil	0.5	77.5	5.1	50	<0.1	14.4	11.5	609	2.95	2.6	3.9	2.1	78	0.1	0.2	<0.1	83	0.80	0.044	10
PC11 MP55	Soil	0.6	101.4	4.8	56	<0.1	16.6	11.8	513	3.08	2.3	2.9	2.4	82	0.1	0.2	<0.1	86	0.70	0.031	12
PC11 MP56	Soil	0.6	64.9	4.9	53	<0.1	13.3	9.6	562	2.89	2.2	<0.5	2.0	101	<0.1	0.2	<0.1	80	0.75	0.051	10
PC11 MP57	Soil	0.4	24.7	3.6	48	<0.1	10.6	7.8	720	2.13	1.0	<0.5	1.4	78	<0.1	0.1	<0.1	81	0.46	0.013	8
PC11 MP58	Soil	0.6	24.3	3.9	73	<0.1	10.3	7.2	897	1.95	0.8	0.9	1.4	84	0.1	0.1	<0.1	62	0.54	0.026	8
PC11 MP59	Soil	0.3	15.7	4.5	65	<0.1	11.7	6.4	620	2.19	1.6	<0.5	1.3	76	<0.1	0.1	<0.1	71	0.46	0.021	8
PC11 MP60	Soil	0.5	12.7	3.8	82	<0.1	9.6	5.0	561	1.84	0.8	<0.5	1.1	73	0.1	0.1	<0.1	53	0.43	0.014	6
PC11 MP136	Soil	0.5	15.7	4.3	50	<0.1	18.9	7.0	416	2.10	1.4	3.4	1.3	145	0.2	0.1	<0.1	70	0.45	0.010	8
PC11 MP137	Soil	0.3	16.1	4.2	52	<0.1	18.2	7.2	452	2.11	1.4	1.0	1.3	153	0.1	<0.1	<0.1	68	0.45	0.012	9
PC11 MP138	Soil	0.4	15.6	4.0	49	<0.1	18.7	6.8	365	2.09	1.2	0.8	1.4	143	<0.1	0.1	<0.1	64	0.46	0.011	9
PC11 MP139	Soil	0.6	13.5	4.5	67	<0.1	16.3	6.8	506	1.96	1.4	<0.5	1.2	118	<0.1	<0.1	<0.1	63	0.43	0.026	8
PC11 MP140	Soil	0.5	14.9	5.5	51	<0.1	15.6	7.5	590	2.00	1.2	<0.5	1.5	119	0.1	0.1	<0.1	61	0.45	0.010	9
PC11 MP141	Soil	0.4	13.7	4.4	71	<0.1	11.5	6.0	453	1.99	1.4	78.2	1.2	86	0.2	0.1	<0.1	65	0.43	0.014	8
PC11 MP142	Soil	0.3	13.4	4.7	65	<0.1	12.5	5.4	293	1.98	1.4	<0.5	1.4	88	<0.1	0.1	<0.1	55	0.41	0.018	8
PC11 MP143	Soil	0.5	14.7	5.9	50	<0.1	13.0	6.8	480	1.93	1.1	<0.5	1.4	70	0.1	0.1	0.1	62	0.39	0.009	9
PC11 MP144	Soil	0.3	10.1	8.0	63	0.1	6.5	3.8	457	1.16	0.9	<0.5	1.8	243	0.1	0.1	0.1	26	0.68	0.019	12
PC11 MP145	Soil	0.3	18.8	7.1	60	<0.1	14.3	8.3	631	2.07	1.1	<0.5	2.1	518	0.2	0.1	0.1	56	0.67	0.016	13
PC11 MP146	Soil	0.4	74.7	3.1	45	<0.1	33.1	15.0	452	3.27	0.9	<0.5	2.0	34	<0.1	0.1	<0.1	83	0.47	0.045	9
PC11 MP147	Soil	0.4	83.5	4.5	67	<0.1	38.8	18.5	665	3.51	1.2	<0.5	2.3	65	<0.1	0.2	<0.1	73	0.69	0.040	13
PC11 MP148	Soil	0.5	49.7	3.8	55	<0.1	20.1	11.5	609	2.73	1.7	<0.5	1.7	44	0.1	0.2	<0.1	80	0.46	0.037	9
PC11 MP149	Soil	0.5	42.9	3.9	48	<0.1	24.8	11.3	345	3.02	1.6	0.7	1.6	43	<0.1	0.2	<0.1	66	0.52	0.030	10
PC11 MP150	Soil	0.5	41.2	3.2	43	<0.1	18.5	10.1	358	2.46	1.3	1.6	1.4	39	<0.1	0.1	<0.1	68	0.43	0.033	10
PCS-018	Rock Pulp	16.9	72.7	17.7	19	0.2	17.1	2.5	118	3.82	473.3	225.8	0.8	29	0.5	29.0	0.2	10	0.99	0.005	2
PC11 MP151	Soil	0.4	37.9	4.6	41	<0.1	21.6	12.2	554	2.66	1.4	1.6	1.5	41	<0.1	0.1	<0.1	77	0.41	0.019	10
PC11 MP152	Soil	0.4	54.7	3.6	44	<0.1	37.4	16.3	574	3.08	1.2	0.8	1.8	39	<0.1	0.2	<0.1	74	0.43	0.028	11
PC11 MP153	Soil	0.5	55.6	4.6	57	<0.1	34.9	15.9	691	3.37	1.1	2.0	1.8	56	0.1	0.2	<0.1	75	0.55	0.025	13

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PC11 RP254	Soil			44	1.05	79	0.177	4	2.64	0.027	0.21	<0.1	0.02	5.0	<0.1	<0.05	7	<0.5	<0.2
PC11 MP51	Soil			14	0.27	122	0.131	3	1.44	0.023	0.17	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP52	Soil			17	0.33	104	0.132	3	1.55	0.022	0.32	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP53	Soil			16	0.26	96	0.163	2	1.15	0.029	0.22	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP54	Soil			20	0.53	110	0.099	5	1.84	0.020	0.30	<0.1	0.02	4.5	<0.1	<0.05	6	0.7	<0.2
PC11 MP55	Soil			24	0.60	122	0.126	4	2.18	0.025	0.26	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 MP56	Soil			21	0.50	106	0.122	6	1.89	0.022	0.27	<0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
PC11 MP57	Soil			19	0.27	98	0.137	3	1.00	0.023	0.14	<0.1	0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
PC11 MP58	Soil			18	0.25	146	0.118	3	1.09	0.020	0.17	<0.1	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
PC11 MP59	Soil			24	0.26	97	0.158	3	1.19	0.025	0.22	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP60	Soil			20	0.23	114	0.137	2	1.15	0.022	0.18	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP136	Soil			39	0.30	114	0.155	2	1.29	0.030	0.17	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP137	Soil			39	0.31	120	0.161	3	1.35	0.032	0.19	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP138	Soil			37	0.31	113	0.157	2	1.35	0.032	0.16	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP139	Soil			32	0.32	140	0.145	2	1.31	0.032	0.18	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP140	Soil			28	0.29	127	0.140	2	1.33	0.031	0.19	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP141	Soil			27	0.28	95	0.139	2	1.21	0.028	0.16	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP142	Soil			26	0.29	90	0.135	3	1.38	0.026	0.24	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP143	Soil			25	0.30	101	0.143	2	1.05	0.029	0.15	0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP144	Soil			11	0.23	222	0.021	3	1.05	0.020	0.26	<0.1	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
PC11 MP145	Soil			24	0.38	404	0.091	3	1.70	0.023	0.24	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PC11 MP146	Soil			25	0.59	87	0.102	3	1.24	0.029	0.16	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PC11 MP147	Soil			31	0.69	116	0.100	6	1.80	0.025	0.30	<0.1	0.02	6.0	<0.1	<0.05	6	<0.5	<0.2
PC11 MP148	Soil			26	0.37	106	0.097	6	1.01	0.021	0.25	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP149	Soil			35	0.47	90	0.131	5	1.71	0.026	0.19	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PC11 MP150	Soil			25	0.36	84	0.104	3	1.04	0.023	0.17	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
PCS-018	Rock Pulp			23	0.02	838	0.011	1	0.15	0.008	0.06	2.6	2.88	0.6	10.8	0.11	<1	1.8	<0.2
PC11 MP151	Soil			29	0.35	93	0.115	3	1.12	0.027	0.18	<0.1	<0.01	4.0	<0.1	<0.05	4	0.5	<0.2
PC11 MP152	Soil			29	0.47	79	0.113	3	1.19	0.037	0.14	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PC11 MP153	Soil			34	0.52	118	0.143	3	1.68	0.034	0.23	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 MP154	Soil			0.5	63.4	5.8	45	<0.1	23.0	12.5	643	2.88	2.5	2.1	1.6	75	0.1	0.2	<0.1	87	0.88	0.033	9
PC11 MP155	Soil			0.5	54.4	5.9	50	<0.1	26.1	10.4	526	2.76	1.1	<0.5	2.1	54	0.1	0.1	<0.1	71	0.63	0.031	13
PC11 MP156	Soil			0.6	66.6	4.7	44	<0.1	18.4	10.6	511	2.91	2.6	3.9	1.7	62	<0.1	0.2	<0.1	83	0.67	0.048	9
PC11 MP157	Soil			0.5	75.7	3.9	44	<0.1	14.7	8.7	627	2.36	1.8	<0.5	1.6	49	0.1	0.2	<0.1	70	0.48	0.025	8
PC11 MP158	Soil			0.4	35.8	4.4	37	<0.1	20.7	10.7	480	2.68	1.0	<0.5	1.5	35	<0.1	0.1	<0.1	76	0.40	0.023	9
PC11 MP160	Soil			0.4	16.5	3.6	44	<0.1	14.9	7.9	324	2.18	0.9	1.1	1.3	35	<0.1	0.1	<0.1	63	0.35	0.016	6
PC11 MP161	Soil			0.4	30.1	4.9	66	<0.1	25.3	11.2	712	2.64	1.8	<0.5	1.4	45	0.1	0.1	<0.1	73	0.50	0.032	9
PC11 MP162	Soil			0.4	23.7	3.2	41	<0.1	19.7	8.8	326	2.41	0.7	<0.5	1.3	33	<0.1	0.1	<0.1	68	0.35	0.014	7
PC11 MP163	Soil			0.3	18.4	3.2	38	<0.1	15.5	7.0	271	2.24	1.0	<0.5	1.1	33	<0.1	0.1	<0.1	67	0.36	0.018	6
PC11 MP164	Soil			0.4	15.1	3.8	51	<0.1	14.7	7.4	470	1.90	<0.5	<0.5	1.3	33	0.1	0.1	<0.1	55	0.32	0.008	6
PC11 MP165	Soil			0.4	23.9	4.4	54	<0.1	17.3	9.0	614	2.10	1.4	5.1	1.2	39	0.2	0.2	<0.1	61	0.42	0.022	6
PC11 MP166	Soil			0.3	15.3	3.6	59	<0.1	12.4	6.9	351	1.90	0.8	1.5	1.1	37	<0.1	<0.1	<0.1	53	0.36	0.013	5
PC11 MP167	Soil			0.5	16.8	4.2	59	<0.1	13.5	8.4	404	2.00	0.9	<0.5	1.1	31	<0.1	0.1	<0.1	59	0.32	0.013	5
PC11 MP168	Soil			0.6	12.0	3.6	79	<0.1	11.8	6.0	690	1.70	0.8	8.6	0.9	34	0.1	0.1	<0.1	51	0.36	0.020	4
PC11 MP169	Soil			0.4	18.6	4.4	71	<0.1	15.1	7.1	486	2.06	0.9	1.9	1.4	35	<0.1	0.1	<0.1	61	0.39	0.015	7
PC11 MP170	Soil			0.4	13.9	3.8	53	<0.1	10.6	5.6	294	1.81	1.1	1.6	1.1	34	<0.1	0.1	<0.1	56	0.33	0.019	5
PC11 MP171	Soil			0.4	12.2	3.3	75	<0.1	10.4	5.6	483	1.82	0.9	<0.5	0.8	32	<0.1	0.1	<0.1	58	0.35	0.022	4
PC11 MP172	Soil			0.4	13.3	3.9	61	<0.1	11.8	6.4	425	1.81	1.0	<0.5	1.0	35	<0.1	0.1	<0.1	57	0.37	0.013	5
PC11 MP173	Soil			0.5	13.1	4.0	63	<0.1	10.2	6.3	604	1.69	1.0	0.6	0.9	36	<0.1	0.1	<0.1	52	0.36	0.027	4
PC11 MP174	Soil			0.5	10.9	4.7	80	<0.1	9.5	4.8	598	1.59	0.9	3.0	0.8	33	0.1	0.1	<0.1	50	0.35	0.012	4
PC11 MP175	Soil			0.4	12.3	3.6	58	<0.1	9.1	4.9	344	1.61	0.7	5.2	1.0	31	<0.1	0.1	<0.1	54	0.30	0.013	4
PC11 MP176	Soil			0.4	11.5	3.9	73	<0.1	9.6	4.5	655	1.59	1.7	<0.5	0.8	35	0.1	<0.1	<0.1	47	0.32	0.029	4
PC11 MP149A	Soil			0.4	18.2	5.4	72	<0.1	13.1	7.2	521	2.20	1.2	<0.5	1.3	67	0.1	0.2	<0.1	67	0.56	0.023	9
PC11 MP150A	Soil			0.3	35.4	6.4	69	<0.1	11.2	8.3	455	3.31	1.7	<0.5	1.7	121	0.1	0.2	<0.1	90	0.97	0.036	10
PCS-025	Rock Pulp			119.4	3279	24.3	63	2.5	34.7	20.3	410	4.35	53.8	467.4	2.1	34	0.5	4.0	0.5	123	0.33	0.091	11
PC11 MP151A	Soil			0.4	44.8	3.8	55	0.2	17.5	8.6	366	3.25	3.3	3.2	1.4	117	0.1	0.3	<0.1	98	0.82	0.046	10
PC11 MP152A	Soil			0.5	20.6	4.3	95	<0.1	13.0	8.2	693	2.89	1.6	<0.5	1.5	90	0.1	0.2	<0.1	81	0.72	0.035	8
PC11 MP153A	Soil			0.4	20.6	6.3	92	<0.1	16.6	8.4	504	3.06	1.8	<0.5	1.6	104	0.1	0.3	0.1	77	0.77	0.031	12
PC11 MP154A	Soil			0.4	19.7	5.5	83	<0.1	15.4	8.5	534	2.59	2.3	<0.5	1.6	83	0.2	0.3	<0.1	74	0.61	0.022	10
PC11 MP155A	Soil			0.4	34.3	5.8	70	<0.1	15.3	9.3	451	3.22	1.8	<0.5	1.6	91	0.2	0.3	<0.1	83	0.90	0.038	13

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 MP154	Soil			42	0.72	78	0.151	2	1.98	0.021	0.15	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2
PC11 MP155	Soil			36	0.67	72	0.097	4	1.95	0.022	0.19	<0.1	0.01	5.3	<0.1	<0.05	6	<0.5	<0.2
PC11 MP156	Soil			25	0.54	89	0.128	2	1.58	0.022	0.14	<0.1	<0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 MP157	Soil			20	0.33	129	0.104	4	1.10	0.015	0.18	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PC11 MP158	Soil			31	0.34	73	0.112	1	1.02	0.020	0.12	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP160	Soil			29	0.30	78	0.143	2	1.04	0.023	0.13	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PC11 MP161	Soil			37	0.43	114	0.126	3	1.18	0.019	0.18	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
PC11 MP162	Soil			32	0.31	59	0.138	2	0.99	0.023	0.15	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PC11 MP163	Soil			29	0.29	61	0.121	2	0.97	0.018	0.11	<0.1	0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
PC11 MP164	Soil			26	0.28	89	0.122	1	0.91	0.020	0.10	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PC11 MP165	Soil			27	0.31	97	0.112	3	0.93	0.017	0.22	<0.1	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
PC11 MP166	Soil			25	0.28	91	0.120	2	0.86	0.017	0.13	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PC11 MP167	Soil			27	0.31	88	0.129	2	1.00	0.018	0.14	<0.1	<0.01	3.2	<0.1	<0.05	3	<0.5	<0.2
PC11 MP168	Soil			22	0.25	141	0.108	2	0.81	0.018	0.13	<0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
PC11 MP169	Soil			28	0.30	123	0.128	2	0.99	0.018	0.15	<0.1	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
PC11 MP170	Soil			24	0.26	81	0.127	3	0.84	0.015	0.17	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PC11 MP171	Soil			22	0.26	90	0.118	3	0.79	0.015	0.15	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PC11 MP172	Soil			24	0.28	105	0.131	<1	0.88	0.018	0.13	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
PC11 MP173	Soil			21	0.26	118	0.112	3	0.74	0.016	0.16	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 MP174	Soil			20	0.22	120	0.114	1	0.74	0.018	0.12	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 MP175	Soil			21	0.23	90	0.124	2	0.77	0.017	0.14	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PC11 MP176	Soil			19	0.22	132	0.092	4	0.76	0.012	0.17	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
PC11 MP149A	Soil			24	0.34	99	0.155	2	1.25	0.021	0.24	<0.1	0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PC11 MP150A	Soil			21	0.55	84	0.254	2	2.76	0.020	0.19	<0.1	0.02	8.2	<0.1	<0.05	11	<0.5	<0.2
PCS-025	Rock Pulp			51	0.90	48	0.120	1	1.37	0.041	0.91	4.1	0.07	9.5	0.5	1.88	6	6.9	0.9
PC11 MP151A	Soil			32	0.54	71	0.176	2	2.21	0.040	0.14	<0.1	0.03	6.6	<0.1	<0.05	7	<0.5	<0.2
PC11 MP152A	Soil			22	0.49	75	0.247	5	2.02	0.025	0.25	<0.1	0.01	6.8	<0.1	<0.05	7	<0.5	<0.2
PC11 MP153A	Soil			29	0.48	93	0.256	3	2.61	0.030	0.14	<0.1	0.02	7.1	<0.1	<0.05	8	<0.5	<0.2
PC11 MP154A	Soil			29	0.44	102	0.231	3	1.81	0.030	0.21	<0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 MP155A	Soil			27	0.59	83	0.261	4	2.64	0.025	0.22	<0.1	0.02	7.8	<0.1	<0.05	8	<0.5	<0.2

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005992.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
PC11 MP156A	Soil			0.3	18.9	4.6	67	<0.1	14.3	8.2	440	2.82	1.2	<0.5	1.4	65	0.1	0.2	0.1	80	0.65	0.023	9
PC11 MP157A	Soil			0.4	15.3	5.8	57	<0.1	10.9	5.6	302	2.36	1.3	2.6	1.6	71	0.1	0.3	<0.1	60	0.56	0.021	12
PC11 MP158A	Soil			0.4	14.5	5.4	88	<0.1	11.3	6.3	777	2.36	1.5	1.1	1.4	73	0.1	0.3	<0.1	55	0.60	0.031	9
PC11 MP159A	Soil			0.5	12.9	4.8	79	<0.1	9.5	5.0	315	2.08	1.5	<0.5	1.0	57	<0.1	0.2	<0.1	51	0.48	0.025	6
PC11 MP160A	Soil			0.3	14.1	4.9	97	<0.1	11.4	5.6	508	2.21	1.1	<0.5	1.2	70	<0.1	0.2	<0.1	58	0.50	0.032	7
PC11 MP161A	Soil			0.5	13.4	4.5	108	<0.1	11.5	5.8	509	2.21	1.1	<0.5	1.1	76	0.1	0.2	<0.1	58	0.53	0.021	6
PC11 MP162A	Soil			0.5	16.7	5.0	72	<0.1	15.0	7.4	614	2.43	1.6	2.0	1.3	67	0.1	0.3	<0.1	68	0.50	0.019	8
PC11 MP163A	Soil			0.4	25.1	5.1	52	<0.1	16.1	7.9	408	2.75	1.6	1.6	1.5	73	<0.1	0.2	<0.1	76	0.55	0.018	10
PC11 MP164A	Soil			0.4	34.4	5.5	54	<0.1	23.1	9.6	386	3.15	2.6	<0.5	1.8	80	<0.1	0.3	<0.1	71	0.65	0.023	12
PC11 MP165A	Soil			0.3	31.9	5.6	84	<0.1	24.3	14.8	660	3.74	5.7	<0.5	1.2	104	0.1	0.2	<0.1	100	0.98	0.029	10
PC11 MP166A	Soil			0.3	37.1	5.3	61	<0.1	25.3	14.1	368	3.94	15.0	<0.5	1.4	105	<0.1	0.2	<0.1	97	0.93	0.031	11
PC11 MP167A	Soil			0.8	21.2	5.3	72	<0.1	22.8	11.8	470	3.32	11.6	<0.5	1.4	76	0.1	0.3	<0.1	87	0.66	0.036	10
PC11 MP168A	Soil			0.5	21.9	5.4	76	<0.1	18.9	9.9	523	2.92	7.4	<0.5	1.5	79	0.2	0.3	<0.1	82	0.61	0.033	10
PC11 MP169A	Soil			0.5	28.3	5.8	56	<0.1	18.3	9.7	656	2.52	2.8	1.7	1.5	77	0.1	0.3	<0.1	77	0.54	0.025	10
PC11 MP170A	Soil			0.5	21.7	12.2	75	0.2	6.0	7.3	630	2.50	15.9	1.6	0.7	85	0.3	0.2	<0.1	35	1.56	0.085	11
PC11 MP171A	Soil			0.4	49.1	8.1	79	<0.1	23.6	18.3	1003	4.06	4.9	1.3	0.8	130	0.2	0.2	<0.1	82	1.10	0.034	9
PC11 MP172A	Soil			0.4	15.2	14.5	67	<0.1	5.8	4.3	530	1.88	4.1	<0.5	1.0	90	0.1	0.2	<0.1	24	1.12	0.062	9
PC11 MP173A	Soil			0.5	29.4	7.1	93	<0.1	16.5	11.9	791	3.24	3.2	<0.5	0.9	155	0.1	0.2	0.1	68	1.16	0.038	8
PC11 MP174A	Soil			0.5	48.7	9.2	76	<0.1	16.1	15.0	831	3.82	7.9	0.7	0.8	147	0.2	0.3	0.1	70	1.93	0.056	7
PC11 MP175A	Soil			0.7	31.7	10.6	65	<0.1	18.7	10.2	842	2.86	9.0	3.8	1.2	137	0.3	0.3	<0.1	65	1.67	0.050	9
PC11 MP176A	Soil			0.8	53.1	5.6	73	0.1	26.6	14.3	758	3.39	13.2	1.5	1.3	120	0.2	0.4	<0.1	85	1.30	0.061	7
PC11 MP177A	Soil			0.5	43.3	4.7	61	<0.1	21.3	10.0	616	2.96	6.5	<0.5	1.3	82	0.1	0.3	<0.1	65	0.67	0.032	7
PC11 MP178A	Soil			0.7	49.5	5.0	63	<0.1	25.8	12.4	565	3.13	4.3	2.2	1.8	83	0.2	0.4	<0.1	88	1.00	0.064	10
PC11 MP180A	Soil			0.6	34.4	4.2	60	<0.1	20.7	10.9	568	2.99	3.3	0.5	1.3	101	0.1	0.3	<0.1	98	0.82	0.039	8



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Project: Princeton
 Report Date: November 19, 2011

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CERTIFICATE OF ANALYSIS

VAN11005992.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				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	
PC11 MP156A	Soil			26	0.50	77	0.273	4	2.01	0.026	0.24	<0.1	0.01	6.6	<0.1	<0.05	6	<0.5	<0.2
PC11 MP157A	Soil			22	0.30	80	0.234	3	1.64	0.029	0.14	<0.1	0.01	5.0	<0.1	<0.05	5	<0.5	<0.2
PC11 MP158A	Soil			22	0.36	108	0.172	5	1.67	0.025	0.24	<0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
PC11 MP159A	Soil			20	0.31	78	0.180	3	1.46	0.025	0.11	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PC11 MP160A	Soil			21	0.35	89	0.191	5	1.36	0.021	0.24	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP161A	Soil			21	0.38	89	0.220	3	1.52	0.022	0.22	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP162A	Soil			28	0.40	100	0.190	3	1.62	0.031	0.22	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PC11 MP163A	Soil			31	0.42	78	0.191	2	1.67	0.029	0.18	<0.1	<0.01	5.1	<0.1	<0.05	5	<0.5	<0.2
PC11 MP164A	Soil			38	0.57	97	0.163	3	2.45	0.031	0.18	<0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
PC11 MP165A	Soil			60	1.38	126	0.288	5	3.78	0.023	0.19	<0.1	0.02	11.7	<0.1	<0.05	10	<0.5	<0.2
PC11 MP166A	Soil			57	1.18	125	0.225	4	3.88	0.030	0.17	<0.1	0.09	11.2	0.2	<0.05	10	<0.5	<0.2
PC11 MP167A	Soil			47	0.84	91	0.234	8	2.36	0.022	0.28	<0.1	0.05	7.8	0.2	<0.05	7	<0.5	<0.2
PC11 MP168A	Soil			39	0.60	93	0.213	5	1.85	0.027	0.25	<0.1	0.07	6.0	0.1	<0.05	5	<0.5	<0.2
PC11 MP169A	Soil			31	0.42	81	0.176	4	1.44	0.041	0.22	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP170A	Soil			6	0.69	174	0.147	5	2.81	0.009	0.46	<0.1	0.02	3.9	<0.1	<0.05	8	<0.5	<0.2
PC11 MP171A	Soil			26	0.99	152	0.306	4	3.11	0.023	0.28	<0.1	0.02	5.2	<0.1	<0.05	8	<0.5	<0.2
PC11 MP172A	Soil			7	0.49	156	0.148	8	2.32	0.016	0.39	0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PC11 MP173A	Soil			23	0.88	142	0.279	8	3.66	0.019	0.35	<0.1	0.01	4.9	<0.1	<0.05	9	<0.5	<0.2
PC11 MP174A	Soil			21	1.19	76	0.347	2	3.51	0.043	0.16	0.1	0.08	5.4	<0.1	<0.05	9	<0.5	<0.2
PC11 MP175A	Soil			24	0.78	73	0.179	5	2.76	0.031	0.21	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
PC11 MP176A	Soil			36	1.01	93	0.208	4	2.89	0.028	0.29	<0.1	0.03	5.5	<0.1	<0.05	8	<0.5	<0.2
PC11 MP177A	Soil			34	0.73	74	0.157	11	2.05	0.029	0.41	<0.1	0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
PC11 MP178A	Soil			35	0.81	111	0.178	7	1.96	0.043	0.22	<0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
PC11 MP180A	Soil			34	0.68	75	0.201	3	1.90	0.044	0.21	<0.1	<0.01	5.6	<0.1	<0.05	6	<0.5	<0.2



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Project: Princeton
Report Date: November 19, 2011

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QUALITY CONTROL REPORT

VAN11005992.1

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 Au ppb	1DX15 Th ppm	1DX15 Sr ppm	1DX15 Cd ppm	1DX15 Sb ppm	1DX15 Bi ppm	1DX15 V ppm	1DX15 Ca %	1DX15 P %	1DX15 La ppm
Pulp Duplicates				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PC11 RP183	Soil			0.3	16.8	4.9	70	<0.1	15.6	6.8	531	2.22	1.6	11.0	1.2	63	0.1	<0.1	<0.1	44	0.67	0.044	6
REP PC11 RP183	QC			0.3	16.8	4.9	70	<0.1	16.8	7.1	564	2.33	2.1	3.4	1.3	63	0.1	<0.1	<0.1	44	0.69	0.045	6
PC11 RP199	Soil			0.2	40.9	3.5	50	<0.1	13.7	8.7	438	3.14	1.6	3.2	1.2	90	<0.1	0.2	<0.1	82	0.92	0.031	11
REP PC11 RP199	QC			0.2	40.2	3.8	49	<0.1	13.0	9.1	434	3.19	1.9	3.7	1.3	91	<0.1	0.2	<0.1	84	0.94	0.030	11
PC11 RP210	Soil			0.4	33.4	5.4	74	<0.1	17.9	14.1	954	3.59	2.7	<0.5	1.4	98	0.1	0.2	<0.1	115	1.05	0.022	11
REP PC11 RP210	QC			0.4	33.8	5.5	74	<0.1	18.9	14.3	982	3.75	2.3	<0.5	1.3	101	0.1	0.2	<0.1	117	1.08	0.022	11
PC11 RP225	Soil			0.4	22.1	4.8	70	<0.1	16.4	8.6	474	2.75	2.0	<0.5	1.6	84	<0.1	0.2	<0.1	74	0.56	0.035	10
REP PC11 RP225	QC			0.4	21.9	5.5	71	<0.1	16.4	8.5	466	2.68	2.0	2.0	1.6	82	0.2	0.2	<0.1	74	0.54	0.035	10
PC11 RP249	Soil			0.8	36.4	9.4	82	0.1	19.9	11.9	1093	2.84	19.6	4.0	1.2	93	0.2	0.3	<0.1	70	1.06	0.061	8
REP PC11 RP249	QC			1.1	36.4	9.3	81	0.1	19.6	12.4	1102	2.88	20.1	2.1	1.0	92	0.2	0.3	<0.1	71	1.11	0.060	8
PC11 MP137	Soil			0.3	16.1	4.2	52	<0.1	18.2	7.2	452	2.11	1.4	1.0	1.3	153	0.1	<0.1	<0.1	68	0.45	0.012	9
REP PC11 MP137	QC			0.5	14.7	4.4	50	<0.1	18.8	6.9	446	2.06	1.0	<0.5	1.3	151	0.1	0.1	<0.1	69	0.43	0.012	9
PC11 MP175	Soil			0.4	12.3	3.6	58	<0.1	9.1	4.9	344	1.61	0.7	5.2	1.0	31	<0.1	0.1	<0.1	54	0.30	0.013	4
REP PC11 MP175	QC			0.4	11.6	3.5	56	<0.1	8.8	4.6	337	1.53	0.6	1.9	0.8	29	<0.1	0.1	<0.1	50	0.29	0.012	3
PC11 MP161A	Soil			0.5	13.4	4.5	108	<0.1	11.5	5.8	509	2.21	1.1	<0.5	1.1	76	0.1	0.2	<0.1	58	0.53	0.021	6
REP PC11 MP161A	QC			0.5	13.3	5.4	107	<0.1	11.0	5.7	504	2.20	1.2	<0.5	1.1	76	0.2	0.2	<0.1	57	0.53	0.020	6
PC11 MP177A	Soil			0.5	43.3	4.7	61	<0.1	21.3	10.0	616	2.96	6.5	<0.5	1.3	82	0.1	0.3	<0.1	65	0.67	0.032	7
REP PC11 MP177A	QC			0.5	43.5	4.9	63	<0.1	21.5	10.3	627	2.97	6.7	<0.5	1.3	84	0.2	0.3	<0.1	66	0.67	0.032	7
Reference Materials																							
STD DS8	Standard			12.6	104.6	125.2	308	1.8	36.7	7.1	600	2.37	24.4	125.3	7.1	74	2.5	6.2	7.0	41	0.66	0.080	16
STD DS8	Standard			11.8	105.4	116.1	311	1.9	34.8	6.8	586	2.34	24.9	109.9	6.0	57	2.4	5.0	6.2	40	0.63	0.077	14
STD DS8	Standard			13.6	109.6	126.2	310	1.8	38.3	7.8	620	2.43	24.4	134.8	6.9	69	2.2	5.8	7.2	42	0.66	0.080	15
STD DS8	Standard			13.6	121.1	121.3	325	1.8	38.9	7.9	615	2.52	26.0	114.5	7.0	74	2.5	6.0	6.9	45	0.71	0.080	15
STD DS8	Standard			13.2	122.3	122.1	330	1.9	39.7	7.9	612	2.48	26.4	108.3	6.7	68	2.4	5.9	7.4	45	0.67	0.080	13
STD DS8	Standard			12.5	109.7	115.4	317	2.0	38.0	7.8	628	2.54	25.4	115.2	6.1	64	2.2	5.4	6.3	43	0.67	0.077	14
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	1.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Project: Princeton
 Report Date: November 19, 2011

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QUALITY CONTROL REPORT

VAN11005992.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	1	0.01	1	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																	
PC11 RP183	Soil	22	0.38	136	0.097	8	2.42	0.022	0.14	<0.1	0.01	4.7	<0.1	<0.05	7	<0.5	<0.2
REP PC11 RP183	QC	22	0.42	136	0.095	8	2.38	0.022	0.15	<0.1	0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PC11 RP199	Soil	23	0.65	74	0.126	2	2.28	0.025	0.16	<0.1	0.02	7.6	<0.1	<0.05	8	<0.5	<0.2
REP PC11 RP199	QC	24	0.65	76	0.130	3	2.28	0.028	0.17	<0.1	0.02	7.9	<0.1	<0.05	8	<0.5	<0.2
PC11 RP210	Soil	34	0.81	69	0.296	3	2.51	0.026	0.22	<0.1	0.02	9.9	<0.1	<0.05	8	<0.5	<0.2
REP PC11 RP210	QC	35	0.82	69	0.309	4	2.55	0.027	0.23	<0.1	0.02	10.2	<0.1	<0.05	8	<0.5	<0.2
PC11 RP225	Soil	31	0.43	96	0.194	5	1.97	0.026	0.25	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
REP PC11 RP225	QC	30	0.42	96	0.186	5	1.91	0.026	0.25	0.2	0.02	6.1	<0.1	<0.05	6	<0.5	<0.2
PC11 RP249	Soil	30	0.65	87	0.186	4	2.22	0.018	0.34	0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
REP PC11 RP249	QC	30	0.65	88	0.193	6	2.25	0.019	0.35	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PC11 MP137	Soil	39	0.31	120	0.161	3	1.35	0.032	0.19	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
REP PC11 MP137	QC	37	0.31	118	0.158	2	1.34	0.033	0.19	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PC11 MP175	Soil	21	0.23	90	0.124	2	0.77	0.017	0.14	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
REP PC11 MP175	QC	20	0.23	91	0.112	1	0.71	0.015	0.14	<0.1	<0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PC11 MP161A	Soil	21	0.38	89	0.220	3	1.52	0.022	0.22	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
REP PC11 MP161A	QC	21	0.39	89	0.210	4	1.50	0.024	0.22	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PC11 MP177A	Soil	34	0.73	74	0.157	11	2.05	0.029	0.41	<0.1	0.01	6.0	<0.1	<0.05	6	<0.5	<0.2
REP PC11 MP177A	QC	35	0.74	76	0.155	12	2.04	0.028	0.41	<0.1	0.01	6.1	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	112	0.62	285	0.123	3	0.92	0.095	0.41	2.9	0.19	2.2	5.4	0.11	5	4.5	4.6
STD DS8	Standard	108	0.58	277	0.092	3	0.90	0.100	0.43	2.8	0.18	2.7	5.2	0.13	5	4.8	5.0
STD DS8	Standard	120	0.60	275	0.117	2	0.91	0.079	0.40	2.9	0.17	1.9	5.4	0.16	4	5.2	5.1
STD DS8	Standard	121	0.61	281	0.129	3	0.90	0.100	0.43	3.0	0.20	2.8	5.3	0.17	5	4.8	5.1
STD DS8	Standard	120	0.62	255	0.119	2	0.88	0.083	0.41	2.9	0.18	2.2	5.4	0.16	5	5.0	5.3
STD DS8	Standard	118	0.61	272	0.117	2	0.90	0.087	0.43	3.0	0.19	2.4	5.5	0.15	4	5.3	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: Princeton

Report Date: November 19, 2011

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QUALITY CONTROL REPORT

VAN11005992.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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